BABCOCK Laboratories, Inc.
The Standard of Excellence for Over 100 Years

Client Name: Riv. Co. Env. Health-Haz Mat. Div.
Contact: [redacted]
Address: [redacted]

Report Date: 22-Sep-2023

Analytical Report: Page 1 of 4
Project Name: Riv. Co. Haz Mat-Blanket PO
Project Number: Lawson Incident

Work Order Number: C3I0401

Received on Ice (Y/N): Yes Temp: 26 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
C3I0401-01	Lawson IC - Site 1	Liquid	9/5/23 14:09	[redacted]	9/5/23 17:30	[redacted]
C3I0401-02	Lawson IC - Site 2	Liquid	9/5/23 14:40	[redacted]	9/5/23 17:30	[redacted]
C3I0401-03	Lawson IC - Site 3	Liquid	9/5/23 14:59	[redacted]	9/5/23 17:30	[redacted]
C3I0401-04	Lawson IC - Site 4	Liquid	9/5/23 15:24	[redacted]	9/5/23 17:30	[redacted]

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

[redacted]

e-Case Narrative+ COC.rpt

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Riverside, CA 92502-0432

location
6100 Quail Valley Court
Riverside, CA 92507-0704

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www.babcocklabs.com

CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119

Client Name: Riv. Co. Env. Health-Haz Mat. Div.
Contact: [redacted]
Address: [redacted]

Report Date: 22-Sep-2023

Analytical Report: Page 2 of 4
Project Name: Riv. Co. Haz Mat-Blanket PO
Project Number: Lawson Incident

Work Order Number: C3I0401

Received on Ice (Y/N): Yes Temp: 26 °C

County of Riverside • Community Health Agency
Department of Environmental Health • Hazardous Materials Management Division
(888) 722-4234

Chain of Custody & Sample Information Record

[redacted]

FAX No.:

Additional Reporting Requests

Project Name: Lawson Incident
Project Location: Pierce St. Mecca, CA

Turn Around Time: (Rush)
☐ Routine ☐ 3-5 Day Rush ☐ 48 Hour Rush ☑ 24 Hour Rush

Include QC Data Package: ☑ Yes ☐ No
FAX Results: ☑ Yes ☑ No
Email Results: ☑ Yes ☐ No
State EDT: ☐ Yes ☐ No
(Include Source Number in Notes)

Sampler Information: [redacted]
Employer: County of Riverside - DEH
[redacted]

Sample ID	Date	Time	# of Containers & Preservatives: Total # of Containers	Preserved	Unpreserved	Other	Analysis Requested: PAH's	Dioxins/furans	CAM17	TCLP	VOC - 8260B	Matrix	Notes
Lawson IC - Site 1 PAH	9-5-23	1409	1		X		X					WW	≥ 2 Liters Same sample
Lawson IC - Site 1 PAH	9-5-23	1409	1		X		X					WW	
Lawson IC - Site 1 Dioxins/Furans	9-5-23	1410	1		X			X				WW	Dioxins and furans
Lawson IC - Site 1 CAM 17	9-5-23	1418	1		X				X			WW	
Lawson IC - Site 1 8260	9-5-23	1418	2	X							X	WW	
Lawson IC - Site 1 VOC's	9-5-23	1418	2		X						X	WW	
Lawson IC - Site 1 TCLP	9-5-23	1414	1		X							WW	
Lawson IC - Site 2 PAH	9-5-23	1440	2		X							WW	(2 Liters Amber)
Lawson IC - Site 2 Dioxins/Furans	9-5-23	1440	1		X							WW	Dioxins/Furans

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[redacted]	Riv Co DEH	9/5/23 1730	[redacted]	

(For Lab Use Only) Sample Integrity Upon Receipt				TG: 6l	Lab Notes
Sample(s) Submitted on Ice?	☑ Yes	☐ No		Temperature	
Custody Seal(s) Intact?	☐ Yes	☐ No	N/A	2C °C	
Sample(s) Intact?	☑ Yes	☐ No		☐ Cooler Blank	

C3I0401
Rc'd: 09/05/2023 17:30
JLH Subcontract

Page 1 of 3

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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119

Client Name: Riv. Co. Env. Health-Haz Mat. Div.
Contact: [redacted]
Address: [redacted]

Report Date: 22-Sep-2023

Analytical Report: Page 3 of 4
Project Name: Riv. Co. Haz Mat-Blanket PO
Project Number: Lawson Incident

Work Order Number: C3I0401

Received on Ice (Y/N): Yes Temp: 26 °C

County of Riverside • Department of Environmental Health
Hazardous Materials Management Branch
(888) 722-4234

Chain of Custody & Sample Information Record

[redacted]

FAX No.:

Project Name: Lawson Incident
Project Location: Pierce Street Mecca, CA

Turn Around Time: (Rush Please)
☐ Routine ☐ 3-5 Day Rush ☒ 48 Hour Rush ☑ 24 Hour Rush

Additional Reporting Requests
Include QC Data Package: ☑ Yes ☐ No
FAX Results: ☐ Yes ☑ No
Email Results: ☑ Yes ☐ No
State EDT: ☐ Yes ☐ No
(Include Source Number in Notes)

Sampler Information: [redacted]
Employer: Co. of Riverside - Dept. of Env Health
[redacted]

Sample ID	Date	Time	# of Containers	Preserved	Unpreserved	Other	PAH's	Dioxin/Furans	CAM17	TCLP	VOC - 8260	Matrix	Notes
Lawson IC Site 2 CAM17	9-5-23	1442	1		X				X			WW	
Lawson IC Site 2 TCLP	9-5-23	1442	1		X					X		WW	
Lawson IC site 2 VOCs	9-5-23	1443	2		X							WW	
Lawson IC site 2 8260	9-5-23	1443	2	X[HCl]								WW	
Lagwson IC site 3 PAH	9-5-23	1459	2				X					WW	2 Liters
Lawson IC site 3 Diox/Fur	9-5-23	1459	1					X				WW	Dioxins and Furans
Lawson IC Site 3 CAM17	9-5-23	1504	1						X			WW	
Lawson IC Site 3 TCLP	9-5-23	1504	1							X		WW	
Lawson IC Site 3 VOC	9-5-23	1506	2								X	WW	

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[redacted]	Riv Co DEH	9/5/23 1730	[redacted]	

(For Lab Use Only) Sample Integrity Upon Receipt T(°): 6|

Sample(s) Submitted on Ice?	☑ Yes	☐ No		Temperature
Custody Seal(s) Intact?	☐ Yes	☐ No	N/A	26 °C
Sample(s) Intact?	☑ Yes	☐ No		☐ Cooler Blank

Lab Notes

C3I0401
Rc'd: 09/05/2023 17:30
JLH Subcontract

Page ___ of 3

04/2009

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Client Name: Riv. Co. Env. Health-Haz Mat. Div.
Contact: [redacted]
Address: [redacted]

Report Date: 22-Sep-2023

Analytical Report: Page 4 of 4
Project Name: Riv. Co. Haz Mat-Blanket PO
Project Number: Lawson Incident

Work Order Number: C3I0401

Received on Ice (Y/N): Yes Temp: 26 °C

County of Riverside • Department of Environmental Health
Hazardous Materials Management Branch
(888) 722-4234

Chain of Custody & Sample Information Record

[redacted]

FAX No.:

Project Name: Lawson Incident
Project Location: Pierce St Mecca, CA

Turn Around Time: Rush
☐ Routine ☐ 3-5 Day Rush ☑ 48 Hour Rush ☒ 24 Hour Rush

Additional Reporting Requests
Include QC Data Package: ☐ Yes ☐ No
FAX Results: ☐ Yes ☐ No
Email Results: ☐ Yes ☐ No
State EDT: ☐ Yes ☐ No
(Include Source Number in Notes)

Sampler Information: [redacted]
Employer: Co. of Riverside Dept. of Env. Health [redacted]

Sample ID	Date	Time	# of Containers	Preserved	Unpreserved	Other	PAH's	Dioxins/Furans	CAM17	TCLP	VOC 8260	Matrix	Notes
Lawson IC Site 3 8260	9-5-23	1506	2	X							X	WW	
Lawson IC Site 4 PAH	9-5-23	1524	2		X		X						2 Liters Amber
Lawson IC Site 4 Dion/Fur	9-5-23	1524	1		X			X					Dioxion/Furans
Lawson IC Site 4 CAM17	9-5-23	1525	1		X								
Lawson IC Site 4 TCLP	9-5-23	1525	1		X								
Lawson IC Site 4 8260	9-5-23	1530	2	X									
Lawson IC Site 4 VOC	9-523	1530	2		X								
~~Lawson IC Site 4 (x3)~~													

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[redacted]	Riv Co DEH	9/5/23 1730	[redacted]	

(For Lab Use Only) Sample Integrity Upon Receipt				TG:G	Lab Notes
Sample(s) Submitted on Ice?	☑ Yes	☐ No		Temperature	
Custody Seal(s) Intact?	☐ Yes	☐ No	N/A	26 °C	
Sample(s) Intact?	☑ Yes	☐ No		☐ Cooler Blank	

C3I0401
Rc'd: 09/05/2023 17:30
JLH Subcontract

04/2009

Page 3 of 3

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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119

Your Project #: C3I0401
Your C.O.C. #: n/a

Attention: [redacted]

BABCOCK LABS
PO BOX 432
RIVERSIDE, CA
USA 92502-0432

Report Date: 2023/09/21
Report #: R7824988
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3R3406
Received: 2023/09/07, 12:15

Samp e Matrix: Liquid
Samp es Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Dioxins/Furans in Water (1613B) (1)	4	2023/09/08	2023/09/11	BRL SOP-00410	EPA 1613B m
2378TCDF Confirmation (M8290A/M1613)	1	2023/09/08	2023/09/13	BRL SOP-00406 BRL SOP-00410	EPA M8290Am/ M1613Bm

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Un ess otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincia , Federa or US method compendia such as CCME, MELCCFP, EPA, APHA.

A work recorded herein has been done in accordance with procedures and practices ordinari y exercised by professiona s in Bureau Veritas profession using accepted testing methodo ogies, qua ity assurance and qua ity contro procedures (except where otherwise agreed by the c ient and Bureau Veritas in writing). A data is in statistica contro and has met qua ity contro and method performance criteria un ess otherwise noted. A method b anks are reported; un ess indicated otherwise, associated samp e data are not b ank corrected. Where app icab e, un ess otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas iabi ity is imited to the actua cost of the requested ana yses, un ess otherwise agreed in writing. There is no other warranty expressed or imp ied. Bureau Veritas has been retained to provide ana ysis of samp es provided by the C ient using the testing methodo ogy referenced in this report. Interpretation and use of test resu ts are the so e responsibi ity of the C ient and are not within the scope of services provided by Bureau Veritas, un ess otherwise agreed in writing. Bureau Veritas is not responsib e for the accuracy or any data impacts, that resu t from the information provided by the customer or their agent.

So id samp e resu ts, except biota, are based on dry weight un ess otherwise indicated. Organic ana yses are not recovery corrected except for isotope di ution methods.
Resu ts re ate to samp es tested. When samp ing is not conducted by Bureau Veritas, resu ts re ate to the supp ied samp es tested.
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Reference Method suff x “m” nd cates test methods ncorporate va dated mod f cat ons from spec f c reference methods to mprove performance
* RPDs ca cu ated us ng raw data The round ng of f na resu ts may resu t n the apparent d fference
(1) Conf rmatory runs for 2,3,7,8 TCDF are performed on y f the pr mary resu t s greater than the RDL

U = Undetected at the m t of quant tat on
J = Est mated concentrat on between the EDL & RDL
B = B ank Contam nat on
Q = One or more qua ty contro cr ter a fa ed
E = Ana yte concentrat on exceeds the max mum concentrat on eve
K = Est mated max mum poss b e concentrat on due to on abundance rat o fa ure

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel (905 817-5700 Toll-Free 800-563-6266 Fax (905 817-5777 www.bvna.com

Your Project #: C3I0401
Your C.O.C. #: n/a

Attention: [redacted]

BABCOCK LABS
PO BOX 432
RIVERSIDE, CA
USA 92502-0432

Report Date: 2023/09/21
Report #: R7824988
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3R3406
Received: 2023/09/07, 12:15 [redacted]

Encryption Key [redacted]

P ease d rect a quest ons regard ng th s Cert f cate of Ana ys s to:
Lor Dufour, Pro ect Manager
Ema : Lor Dufour@bureauver tas com
Phone# (905) 817 5700

==========

Bureau Ver tas has procedures n p ace to guard aga nst mproper use of the e ectron c s gnature and have the requ red "s gnator es", as per SO/ EC 17025, s gn ng the repo ts For Serv ce Group spec f c va dat on, p ease refer to the Va dat on S gnatures page f nc uded, othe w se ava ab e by request For Department spec f c Ana yst/Superv sor va dat on names, p ease refer to the Test Summa y sect on f nc uded, otherw se ava ab e by request Th s report s author zed by Rodney Ma or, Genera Manager respons b e for Ontar o Env ronmenta aboratory operat ons

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel (905 817-5700 Toll-Free 800-563-6266 Fax (905 817-5777 www.bvna.com

M c ob o ogy es ng s conduc ed a 6660 Campobe o Rd Chem s y es ng s conduc ed a 6740 Campobe o Rd

DIOXINS AND FURANS BY HRMS (LIQUID)

Bureau Veritas ID		WXM136							
Sampling Date		2023/09/05 14:09							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	C3I0401-01	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans									
2,3,7,8-Tetra CDD *	pg/L	2.14 J	1.26	9.26	1.45	1.00	2.14	1	8908979
1,2,3,7,8-Penta CDD *	pg/L	9.15 U (1)	9.15	46.3	1.86	1.00	9.15	0	8908979
1,2,3,4,7,8-Hexa CDD *	pg/L	11.6 J	1.41	46.3	2.25	0.100	1.16	1	8908979
1,2,3,6,7,8-Hexa CDD *	pg/L	81.9	1.28	46.3	1.40	0.100	8.19	1	8908979
1,2,3,7,8,9-Hexa CDD *	pg/L	32.4 U (2)	32.4	46.3	1.13	0.100	3.24	0	8908979
1,2,3,4,6,7,8-Hepta CDD *	pg/L	2830	1.18	46.3	1.90	0.0100	28.3	1	8908979
Octa CDD *	pg/L	18200	1.38	92.6	3.13	0.000300	5.46	1	8908979
Tota Tetra CDD *	pg/L	2.14 J	1.26	9.26	4.00	N/A	N/A	1	8908979
Tota Penta CDD *	pg/L	12.0 J	1.28	46.3	4.00	N/A	N/A	3	8908979
Tota Hexa CDD *	pg/L	361	1.32	46.3	4.00	N/A	N/A	4	8908979
Tota Hepta CDD *	pg/L	4790	1.18	46.3	4.00	N/A	N/A	2	8908979
2,3,7,8-Tetra CDF **	pg/L	1.37 U	1.37	9.26	1.68	0.100	0.137	0	8908979
1,2,3,7,8-Penta CDF **	pg/L	1.10 U (2)	1.10	46.3	1.33	0.0300	0.0330	0	8908979
2,3,4,7,8-Penta CDF **	pg/L	1.26 U	1.26	46.3	1.23	0.300	0.378	0	8908979
1,2,3,4,7,8-Hexa CDF **	pg/L	24.9 J	1.44	46.3	1.85	0.100	2.49	1	8908979
1,2,3,6,7,8-Hexa CDF **	pg/L	5.11 J	1.26	46.3	1.52	0.100	0.511	1	8908979
2,3,4,6,7,8-Hexa CDF **	pg/L	5.95 J	1.21	46.3	1.97	0.100	0.595	1	8908979
1,2,3,7,8,9-Hexa CDF **	pg/L	1.59 U	1.59	46.3	1.66	0.100	0.159	0	8908979
1,2,3,4,6,7,8-Hepta CDF **	pg/L	289	1.19	46.3	2.00	0.0100	2.89	1	8908979
1,2,3,4,7,8,9-Hepta CDF **	pg/L	36.0 J	1.41	46.3	1.87	0.0100	0.360	1	8908979
Octa CDF **	pg/L	1630	1.14	92.6	3.99	0.000300	0.489	1	8908979
Tota Tetra CDF **	pg/L	1.64 J	1.37	9.26	4.00	N/A	N/A	1	8908979
Tota Penta CDF **	pg/L	44.3 J	1.14	46.3	4.00	N/A	N/A	5	8908979
Tota Hexa CDF **	pg/L	242	1.36	46.3	4.00	N/A	N/A	8	8908979

EDL = Estimated Detection Limit

RDL = Reportab e Detection Limit

TEF = Toxic Equiva ency Factor, TEQ = Toxic Equiva ency Quotient,
The Tota Toxic Equiva ency (TEQ) va ue reported is the sum of Toxic Equiva ent Quotients for the congeners tested.

WHO(2005): The 2005 Wor d Hea th Organization, Human and Mamma ian Toxic Equiva ency Factors for Dioxins and Dioxin- ike Compounds

QC Batch = Qua ity Contro Batch

* CDD = Ch oro Dibenzo-p-Dioxin

N/A = Not App icab e

** CDF = Ch oro Dibenzo-p-Furan

(1) RT > 3 seconds - PCDD/DF ana ysis - Peak detected exceeds expected retention time (from interna standard) by greater than 3 seconds.
RT>2 seconds - PCDD/DF ana ysis-Peak maxima of monitored ions exceeds 2 seconds

(2) EMPC / NDR - Peak detected does not meet ratio criteria and has resu ted in an e evated detection imit.

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DIOXINS AND FURANS BY HRMS (LIQUID)

Bureau Veritas ID		WXM136							
Sampling Date		2023/09/05 14:09							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	C3I0401-01	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Tota Hepta CDF **	pg/L	1400	1.29	46.3	4.00	N/A	N/A	4	8908979
TOTAL TOXIC EQUIVALENCY	pg/L	N/A	N/A	N/A	N/A	N/A	65.7	N/A	N/A
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	127	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234678 HeptaCDD *	%	110	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234678 HeptaCDF **	%	129	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123478 HexaCDD *	%	96	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123478 HexaCDF **	%	106	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234789 HeptaCDF **	%	125	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123678 HexaCDD *	%	99	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123678 HexaCDF **	%	113	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-12378 PentaCDD *	%	82	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-12378 PentaCDF **	%	100	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123789 HexaCDF **	%	104	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-234678 HexaCDF **	%	123	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-23478 PentaCDF **	%	77	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-2378 TetraCDD *	%	95	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-2378 TetraCDF **	%	104	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-OCDD *	%	107	N/A	N/A	N/A	N/A	N/A	N/A	8908979

EDL = Estimated Detection Limit

RDL = Reportab e Detection Limit

TEF = Toxic Equiva ency Factor, TEQ = Toxic Equiva ency Quotient,
The Tota Toxic Equiva ency (TEQ) va ue reported is the sum of Toxic Equiva ent Quotients for the congeners tested.

WHO(2005): The 2005 Wor d Hea th Organization, Human and Mamma ian Toxic Equiva ency Factors for Dioxins and Dioxin- ike Compounds

QC Batch = Qua ity Contro Batch

** CDF = Ch oro Dibenzo-p-Furan

N/A = Not App icab e

* CDD = Ch oro Dibenzo-p-Dioxin

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DIOXINS AND FURANS BY HRMS (LIQUID)

Bureau Veritas ID		WXM137							
Sampling Date		2023/09/05 14:40							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	C3I0401-02	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans									
2,3,7,8-Tetra CDD *	pg/L	1.30 U	1.30	9.71	1.45	1.00	1.30	0	8908979
1,2,3,7,8-Penta CDD *	pg/L	7.99 J	1.30	48.5	1.86	1.00	7.99	1	8908979
1,2,3,4,7,8-Hexa CDD *	pg/L	15.0 U (1)	15.0	48.5	2.25	0.100	1.50	0	8908979
1,2,3,6,7,8-Hexa CDD *	pg/L	56.7	1.22	48.5	1.40	0.100	5.67	1	8908979
1,2,3,7,8,9-Hexa CDD *	pg/L	26.4 J	1.35	48.5	1.13	0.100	2.64	1	8908979
1,2,3,4,6,7,8-Hepta CDD *	pg/L	827	1.26	48.5	1.90	0.0100	8.27	1	8908979
Octa CDD *	pg/L	3500	1.42	97.1	3.13	0.000300	1.05	1	8908979
Tota Tetra CDD *	pg/L	1.30 U	1.30	9.71	4.00	N/A	N/A	0	8908979
Tota Penta CDD *	pg/L	7.99 J	1.30	48.5	4.00	N/A	N/A	1	8908979
Tota Hexa CDD *	pg/L	162	1.39	48.5	4.00	N/A	N/A	4	8908979
Tota Hepta CDD *	pg/L	1220	1.26	48.5	4.00	N/A	N/A	2	8908979
2,3,7,8-Tetra CDF **	pg/L	1.33 U (1)	1.33	9.71	1.68	0.100	0.133	0	8908979
1,2,3,7,8-Penta CDF **	pg/L	1.89 U (1)	1.89	48.5	1.33	0.0300	0.0567	0	8908979
2,3,4,7,8-Penta CDF **	pg/L	1.19 U (1)	1.19	48.5	1.23	0.300	0.357	0	8908979
1,2,3,4,7,8-Hexa CDF **	pg/L	8.66 J	1.40	48.5	1.85	0.100	0.866	1	8908979
1,2,3,6,7,8-Hexa CDF **	pg/L	4.16 J	1.17	48.5	1.52	0.100	0.416	1	8908979
2,3,4,6,7,8-Hexa CDF **	pg/L	4.14 U (1)	4.14	48.5	1.97	0.100	0.414	0	8908979
1,2,3,7,8,9-Hexa CDF **	pg/L	1.52 U	1.52	48.5	1.66	0.100	0.152	0	8908979
1,2,3,4,6,7,8-Hepta CDF **	pg/L	119	1.17	48.5	2.00	0.0100	1.19	1	8908979
1,2,3,4,7,8,9-Hepta CDF **	pg/L	12.8 J	1.48	48.5	1.87	0.0100	0.128	1	8908979
Octa CDF **	pg/L	379	1.32	97.1	3.99	0.000300	0.114	1	8908979
Tota Tetra CDF **	pg/L	7.82 J	1.33	9.71	4.00	N/A	N/A	2	8908979
Tota Penta CDF **	pg/L	5.53 J	1.31	48.5	4.00	N/A	N/A	3	8908979
Tota Hexa CDF **	pg/L	80.5	1.29	48.5	4.00	N/A	N/A	5	8908979
Tota Hepta CDF **	pg/L	372	1.31	48.5	4.00	N/A	N/A	4	8908979
TOTAL TOXIC EQUIVALENCY	pg/L	N/A	N/A	N/A	N/A	N/A	32.2	N/A	N/A

EDL = Estimated Detection Limit

RDL = Reportab e Detection Limit

TEF = Toxic Equiva ency Factor, TEQ = Toxic Equiva ency Quotient,
The Tota Toxic Equiva ency (TEQ) va ue reported is the sum of Toxic Equiva ent Quotients for the congeners tested.

WHO(2005): The 2005 Wor d Hea th Organization, Human and Mamma ian Toxic Equiva ency Factors for Dioxins and Dioxin- ike Compounds

QC Batch = Qua ity Contro Batch

* CDD = Ch oro Dibenzo-p-Dioxin

N/A = Not App icab e

** CDF = Ch oro Dibenzo-p-Furan

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resu ted in an e evated detection imit.

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DIOXINS AND FURANS BY HRMS (LIQUID)

Bureau Veritas ID		WXM137							
Sampling Date		2023/09/05 14:40							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	C3I0401-02	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	130	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234678 HeptaCDD *	%	94	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234678 HeptaCDF **	%	104	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123478 HexaCDD *	%	87	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123478 HexaCDF **	%	100	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234789 HeptaCDF **	%	95	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123678 HexaCDD *	%	111	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123678 HexaCDF **	%	111	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-12378 PentaCDD *	%	126	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-12378 PentaCDF **	%	105	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123789 HexaCDF **	%	99	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-234678 HexaCDF **	%	118	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-23478 PentaCDF **	%	120	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-2378 TetraCDD *	%	95	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-2378 TetraCDF **	%	117	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-OCDD *	%	86	N/A	N/A	N/A	N/A	N/A	N/A	8908979

EDL = Estimated Detection Limit

RDL = Reportab e Detection Limit

TEF = Toxic Equiva ency Factor, TEQ = Toxic Equiva ency Quotient,
The Tota Toxic Equiva ency (TEQ) va ue reported is the sum of Toxic Equiva ent Quotients for the congeners tested.

WHO(2005): The 2005 Wor d Hea th Organization, Human and Mamma ian Toxic Equiva ency Factors for Dioxins and Dioxin- ike Compounds

QC Batch = Qua ity Contro Batch

* CDD = Ch oro Dibenzo-p-Dioxin

N/A = Not App icab e

** CDF = Ch oro Dibenzo-p-Furan

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DIOXINS AND FURANS BY HRMS (LIQUID)

Bureau Veritas ID		WXM138							
Sampling Date		2023/09/05 14:59							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	C3I0401-03	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans									
2,3,7,8-Tetra CDD *	pg/L	9.09 J	1.26	9.52	1.45	1.00	9.09	1	8908979
1,2,3,7,8-Penta CDD *	pg/L	15.4 J	1.27	47.6	1.86	1.00	15.4	1	8908979
1,2,3,4,7,8-Hexa CDD *	pg/L	25.9 J	1.32	47.6	2.25	0.100	2.59	1	8908979
1,2,3,6,7,8-Hexa CDD *	pg/L	123	1.29	47.6	1.40	0.100	12.3	1	8908979
1,2,3,7,8,9-Hexa CDD *	pg/L	75.6	1.25	47.6	1.13	0.100	7.56	1	8908979
1,2,3,4,6,7,8-Hepta CDD *	pg/L	3970	1.24	47.6	1.90	0.0100	39.7	1	8908979
Octa CDD *	pg/L	36600	1.27	95.2	3.13	0.000300	11.0	1	8908979
Tota Tetra CDD *	pg/L	99.5	1.26	9.52	4.00	N/A	N/A	5	8908979
Tota Penta CDD *	pg/L	61.1	1.27	47.6	4.00	N/A	N/A	6	8908979
Tota Hexa CDD *	pg/L	795	1.29	47.6	4.00	N/A	N/A	7	8908979
Tota Hepta CDD *	pg/L	7470	1.24	47.6	4.00	N/A	N/A	2	8908979
2,3,7,8-Tetra CDF **	pg/L	42.1	1.29	9.52	1.68	0.100	4.21	1	8908979
1,2,3,7,8-Penta CDF **	pg/L	86.2	1.33	47.6	1.33	0.0300	2.59	1	8908979
2,3,4,7,8-Penta CDF **	pg/L	191 U (1)	191	47.6	1.23	0.300	57.3	0	8908979
1,2,3,4,7,8-Hexa CDF **	pg/L	113 U	113	47.6	1.85	0.100	11.3	0	8908979
1,2,3,6,7,8-Hexa CDF **	pg/L	42.1 J	1.23	47.6	1.52	0.100	4.21	1	8908979
2,3,4,6,7,8-Hexa CDF **	pg/L	47.2 J	1.27	47.6	1.97	0.100	4.72	1	8908979
1,2,3,7,8,9-Hexa CDF **	pg/L	8.23 J	1.67	47.6	1.66	0.100	0.823	1	8908979
1,2,3,4,6,7,8-Hepta CDF **	pg/L	729	1.24	47.6	2.00	0.0100	7.29	1	8908979
1,2,3,4,7,8,9-Hepta CDF **	pg/L	42.4 J	1.48	47.6	1.87	0.0100	0.424	1	8908979
Octa CDF **	pg/L	2330	1.32	95.2	3.99	0.000300	0.699	1	8908979
Tota Tetra CDF **	pg/L	1720	1.29	9.52	4.00	N/A	N/A	21	8908979
Tota Penta CDF **	pg/L	1530	1.23	47.6	4.00	N/A	N/A	23	8908979
Tota Hexa CDF **	pg/L	854	1.38	47.6	4.00	N/A	N/A	12	8908979
Tota Hepta CDF **	pg/L	2380	1.35	47.6	4.00	N/A	N/A	3	8908979

EDL = Estimated Detection Limit

RDL = Reportab e Detection Limit

TEF = Toxic Equiva ency Factor, TEQ = Toxic Equiva ency Quotient,
The Tota Toxic Equiva ency (TEQ) va ue reported is the sum of Toxic Equiva ent Quotients for the congeners tested.

WHO(2005): The 2005 Wor d Hea th Organization, Human and Mamma ian Toxic Equiva ency Factors for Dioxins and Dioxin- ike Compounds

QC Batch = Qua ity Contro Batch

* CDD = Ch oro Dibenzo-p-Dioxin

N/A = Not App icab e

** CDF = Ch oro Dibenzo-p-Furan

(1) RT > 3 seconds - PCDD/DF ana ysis - Peak detected exceeds expected retention time (from interna standard) by greater than 3 seconds.

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DIOXINS AND FURANS BY HRMS (LIQUID)

Bureau Veritas ID		WXM138							
Sampling Date		2023/09/05 14:59							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	C3I0401-03	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
TCDF Confirmation									
Confirmation 2,3,7,8-Tetra CDF **	pg/L	38.8	1.1	10	N/A	0.100	3.88	N/A	8913616
TOTAL TOXIC EQUIVALENCY	pg/L	N/A	N/A	N/A	N/A	N/A	191	N/A	N/A
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	123	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234678 HeptaCDD *	%	91	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234678 HeptaCDF **	%	101	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123478 HexaCDD *	%	96	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123478 HexaCDF **	%	99	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234789 HeptaCDF **	%	98	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123678 HexaCDD *	%	91	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123678 HexaCDF **	%	107	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-12378 PentaCDD *	%	155	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-12378 PentaCDF **	%	94	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123789 HexaCDF **	%	93	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-234678 HexaCDF **	%	109	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-23478 PentaCDF **	%	103	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-2378 TetraCDD *	%	95	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-2378 TetraCDF **	%	120	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-OCDD *	%	81	N/A	N/A	N/A	N/A	N/A	N/A	8908979
Confirmation C13-2378 TetraCDF **	%	109	N/A	N/A	N/A	N/A	N/A	N/A	8913616

EDL = Estimated Detection Limit

RDL = Reportab e Detection Limit

TEF = Toxic Equiva ency Factor, TEQ = Toxic Equiva ency Quotient,
The Tota Toxic Equiva ency (TEQ) va ue reported is the sum of Toxic Equiva ent Quotients for the congeners tested.

WHO(2005): The 2005 Wor d Hea th Organization, Human and Mamma ian Toxic Equiva ency Factors for Dioxins and Dioxin- ike Compounds

QC Batch = Qua ity Contro Batch

** CDF = Ch oro Dibenzo-p-Furan

N/A = Not App icab e

* CDD = Ch oro Dibenzo-p-Dioxin

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DIOXINS AND FURANS BY HRMS (LIQUID)

Bureau Veritas ID		WXM139							
Sampling Date		2023/09/05 15:24							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	C3I0401-04	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Dioxins & Furans									
2,3,7,8-Tetra CDD *	pg/L	1.26 U	1.26	9.90	1.45	1.00	1.26	0	8908979
1,2,3,7,8-Penta CDD *	pg/L	1.24 U	1.24	49.5	1.86	1.00	1.24	0	8908979
1,2,3,4,7,8-Hexa CDD *	pg/L	1.26 U	1.26	49.5	2.25	0.100	0.126	0	8908979
1,2,3,6,7,8-Hexa CDD *	pg/L	3.64 U (1)	3.64	49.5	1.40	0.100	0.364	0	8908979
1,2,3,7,8,9-Hexa CDD *	pg/L	2.91 U (2)	2.91	49.5	1.13	0.100	0.291	0	8908979
1,2,3,4,6,7,8-Hepta CDD *	pg/L	66.3	1.25	49.5	1.90	0.0100	0.663	1	8908979
Octa CDD *	pg/L	432	1.34	99.0	3.13	0.000300	0.130	1	8908979
Tota Tetra CDD *	pg/L	1.80 J	1.26	9.90	4.00	N/A	N/A	1	8908979
Tota Penta CDD *	pg/L	1.64 U	1.64	49.5	4.00	N/A	N/A	0	8908979
Tota Hexa CDD *	pg/L	20.1 J	1.17	49.5	4.00	N/A	N/A	3	8908979
Tota Hepta CDD *	pg/L	135	1.25	49.5	4.00	N/A	N/A	2	8908979
2,3,7,8-Tetra CDF **	pg/L	1.31 U	1.31	9.90	1.68	0.100	0.131	0	8908979
1,2,3,7,8-Penta CDF **	pg/L	1.36 U	1.36	49.5	1.33	0.0300	0.0408	0	8908979
2,3,4,7,8-Penta CDF **	pg/L	1.21 U	1.21	49.5	1.23	0.300	0.363	0	8908979
1,2,3,4,7,8-Hexa CDF **	pg/L	1.52 U (2)	1.52	49.5	1.85	0.100	0.152	0	8908979
1,2,3,6,7,8-Hexa CDF **	pg/L	1.24 U	1.24	49.5	1.52	0.100	0.124	0	8908979
2,3,4,6,7,8-Hexa CDF **	pg/L	2.33 U (3)	2.33	49.5	1.97	0.100	0.233	0	8908979
1,2,3,7,8,9-Hexa CDF **	pg/L	1.52 U	1.52	49.5	1.66	0.100	0.152	0	8908979
1,2,3,4,6,7,8-Hepta CDF **	pg/L	10.7 J	1.26	49.5	2.00	0.0100	0.107	1	8908979
1,2,3,4,7,8,9-Hepta CDF **	pg/L	1.48 U (2)	1.48	49.5	1.87	0.0100	0.0148	0	8908979
Octa CDF **	pg/L	15.7 J	1.41	99.0	3.99	0.000300	0.00471	1	8908979
Tota Tetra CDF **	pg/L	1.31 U	1.31	9.90	4.00	N/A	N/A	0	8908979
Tota Penta CDF **	pg/L	1.31 J	1.28	49.5	4.00	N/A	N/A	1	8908979

EDL = Estimated Detection Limit

RDL = Reportab e Detection Limit

TEF = Toxic Equiva ency Factor, TEQ = Toxic Equiva ency Quotient,
The Tota Toxic Equiva ency (TEQ) va ue reported is the sum of Toxic Equiva ent Quotients for the congeners tested.

WHO(2005): The 2005 Wor d Hea th Organization, Human and Mamma ian Toxic Equiva ency Factors for Dioxins and Dioxin- ike Compounds

QC Batch = Qua ity Contro Batch

* CDD = Ch oro Dibenzo-p-Dioxin

N/A = Not App icab e

** CDF = Ch oro Dibenzo-p-Furan

(1) RT>2 seconds - PCDD/DF ana ysis-Peak maxima of monitored ions exceeds 2 seconds

(2) EMPC / NDR - Peak detected does not meet ratio criteria and has resu ted in an e evated detection imit.

(3) RT > 3 seconds - PCDD/DF ana ysis - Peak detected exceeds expected retention time (from interna standard) by greater than 3 seconds.

EMPC / NDR - Peak detected does not meet ratio criteria and has resu ted in an e evated detection imit.

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DIOXINS AND FURANS BY HRMS (LIQUID)

Bureau Veritas ID		WXM139							
Sampling Date		2023/09/05 15:24							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	C3I0401-04	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Tota Hexa CDF **	pg/L	16.4 J	1.33	49.5	4.00	N/A	N/A	2	8908979
Tota Hepta CDF **	pg/L	31.6 J	1.36	49.5	4.00	N/A	N/A	3	8908979
TOTAL TOXIC EQUIVALENCY	pg/L	N/A	N/A	N/A	N/A	N/A	5.40	N/A	N/A
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	135	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234678 HeptaCDD *	%	112	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234678 HeptaCDF **	%	127	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123478 HexaCDD *	%	91	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123478 HexaCDF **	%	99	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-1234789 HeptaCDF **	%	126	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123678 HexaCDD *	%	95	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123678 HexaCDF **	%	105	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-12378 PentaCDD *	%	99	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-12378 PentaCDF **	%	86	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-123789 HexaCDF **	%	100	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-234678 HexaCDF **	%	117	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-23478 PentaCDF **	%	90	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-2378 TetraCDD *	%	92	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-2378 TetraCDF **	%	117	N/A	N/A	N/A	N/A	N/A	N/A	8908979
C13-OCDD *	%	90	N/A	N/A	N/A	N/A	N/A	N/A	8908979

EDL = Estimated Detection Limit
RDL = Reportab e Detection Limit
TEF = Toxic Equiva ency Factor, TEQ = Toxic Equiva ency Quotient,
The Tota Toxic Equiva ency (TEQ) va ue reported is the sum of Toxic Equiva ent Quotients for the congeners tested.
WHO(2005): The 2005 Wor d Hea th Organization, Human and Mamma ian Toxic Equiva ency Factors for Dioxins and Dioxin- ike Compounds
QC Batch = Qua ity Contro Batch
** CDF = Ch oro Dibenzo-p-Furan
N/A = Not App icab e
* CDD = Ch oro Dibenzo-p-Dioxin

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TEST SUMMARY

Bureau Veritas ID: WXM136 **Collected:** 2023/09/05
Sample ID: C3I0401-01 **Shipped:**
Matrix: Liquid **Received:** 2023/09/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
D ox ns/Furans n Water (1613B)	HRMS/MS	8908979	2023/09/08	2023/09/11	Yan Q n

Bureau Veritas ID: WXM137 **Collected:** 2023/09/05
Sample ID: C3I0401-02 **Shipped:**
Matrix: Liquid **Received:** 2023/09/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
D ox ns/Furans n Water (1613B)	HRMS/MS	8908979	2023/09/08	2023/09/11	Yan Q n

Bureau Veritas ID: WXM138 **Collected:** 2023/09/05
Sample ID: C3I0401-03 **Shipped:**
Matrix: Liquid **Received:** 2023/09/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
D ox ns/Furans n Water (1613B)	HRMS/MS	8908979	2023/09/08	2023/09/11	Yan Q n
2378TCDF Conf rmat on (M8290A/M1613)	HRMS/MS	8913616	2023/09/08	2023/09/13	Yan Q n

Bureau Veritas ID: WXM139 **Collected:** 2023/09/05
Sample ID: C3I0401-04 **Shipped:**
Matrix: Liquid **Received:** 2023/09/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
D ox ns/Furans n Water (1613B)	HRMS/MS	8908979	2023/09/08	2023/09/11	Yan Q n

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GENERAL COMMENTS

Each temperature is the average of up to three coo er temperatures taken at receipt

Package 1	3.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	n t	QC ype	Parameter	Date Ana yzed	Va ue	% Recove y	UN S	QC L m ts
8908979	YQ	Sp ked B ank	37CL4 2378 etra CDD	2023/09/12		119	%	35 197
			C13 1234678 HeptaCDD	2023/09/12		111	%	23 140
			C13 1234678 HeptaCDF	2023/09/12		124	%	28 143
			C13 123478 HexaCDD	2023/09/12		103	%	32 141
			C13 123478 HexaCDF	2023/09/12		92	%	26 152
			C13 1234789 HeptaCDF	2023/09/12		112	%	28 138
			C13 123678 HexaCDD	2023/09/12		101	%	28 130
			C13 123678 HexaCDF	2023/09/12		119	%	26 123
			C13 12378 PentaCDD	2023/09/12		91	%	25 181
			C13 12378 PentaCDF	2023/09/12		84	%	24 185
			C13 123789 HexaCDF	2023/09/12		103	%	29 147
			C13 234678 HexaCDF	2023/09/12		122	%	28 136
			C13 23478 PentaCDF	2023/09/12		90	%	21 178
			C13 2378 etraCDD	2023/09/12		91	%	25 164
			C13 2378 etraCDF	2023/09/12		123	%	24 169
			C13 OCDD	2023/09/12		86	%	17 157
			2,3,7,8 etra CDD	2023/09/12		123	%	67 158
			1,2,3,7,8 Penta CDD	2023/09/12		102	%	25 181
			1,2,3,4,7,8 Hexa CDD	2023/09/12		110	%	70 164
			1,2,3,6,7,8 Hexa CDD	2023/09/12		113	%	76 134
			1,2,3,7,8,9 Hexa CDD	2023/09/12		111	%	64 162
			1,2,3,4,6,7,8 Hepta CDD	2023/09/12		117	%	70 140
			Octa CDD	2023/09/12		103	%	78 144
			2,3,7,8 etra CDF	2023/09/12		130	%	75 158
			1,2,3,7,8 Penta CDF	2023/09/12		112	%	80 134
			2,3,4,7,8 Penta CDF	2023/09/12		106	%	68 160
			1,2,3,4,7,8 Hexa CDF	2023/09/12		119	%	72 134
			1,2,3,6,7,8 Hexa CDF	2023/09/12		124	%	84 130
			2,3,4,6,7,8 Hexa CDF	2023/09/12		108	%	70 156
			1,2,3,7,8,9 Hexa CDF	2023/09/12		121	%	78 130
			1,2,3,4,6,7,8 Hepta CDF	2023/09/12		122	%	82 122
			1,2,3,4,7,8,9 Hepta CDF	2023/09/12		126	%	78 138
			Octa CDF	2023/09/12		92	%	63 170
8908979	YQ	Sp ked B ank DUP	37CL4 2378 etra CDD	2023/09/12		127	%	35 197
			C13 1234678 HeptaCDD	2023/09/12		103	%	23 140
			C13 1234678 HeptaCDF	2023/09/12		115	%	28 143
			C13 123478 HexaCDD	2023/09/12		77	%	32 141
			C13 123478 HexaCDF	2023/09/12		90	%	26 152
			C13 1234789 HeptaCDF	2023/09/12		106	%	28 138
			C13 123678 HexaCDD	2023/09/12		120	%	28 130
			C13 123678 HexaCDF	2023/09/12		121	%	26 123
			C13 12378 PentaCDD	2023/09/12		102	%	25 181
			C13 12378 PentaCDF	2023/09/12		92	%	24 185
			C13 123789 HexaCDF	2023/09/12		101	%	29 147
			C13 234678 HexaCDF	2023/09/12		117	%	28 136
			C13 23478 PentaCDF	2023/09/12		100	%	21 178
			C13 2378 etraCDD	2023/09/12		93	%	25 164
			C13 2378 etraCDF	2023/09/12		117	%	24 169
			C13 OCDD	2023/09/12		82	%	17 157
			2,3,7,8 etra CDD	2023/09/12		119	%	67 158
			1,2,3,7,8 Penta CDD	2023/09/12		100	%	25 181
			1,2,3,4,7,8 Hexa CDD	2023/09/12		112	%	70 164
			1,2,3,6,7,8 Hexa CDD	2023/09/12		111	%	76 134

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	n t	QC ype	Parameter	Date Ana yzed	Va ue	% Recove y	UN S	QC L m ts
			1,2,3,7,8,9 Hexa CDD	2023/09/12		111	%	64 162
			1,2,3,4,6,7,8 Hepta CDD	2023/09/12		117	%	70 140
			Octa CDD	2023/09/12		104	%	78 144
			2,3,7,8 etra CDF	2023/09/12		123	%	75 158
			1,2,3,7,8 Penta CDF	2023/09/12		109	%	80 134
			2,3,4,7,8 Penta CDF	2023/09/12		105	%	68 160
			1,2,3,4,7,8 Hexa CDF	2023/09/12		125	%	72 134
			1,2,3,6,7,8 Hexa CDF	2023/09/12		113	%	84 130
			2,3,4,6,7,8 Hexa CDF	2023/09/12		107	%	70 156
			1,2,3,7,8,9 Hexa CDF	2023/09/12		117	%	78 130
			1,2,3,4,6,7,8 Hepta CDF	2023/09/12		122	%	82 122
			1,2,3,4,7,8,9 Hepta CDF	2023/09/12		122	%	78 138
			Octa CDF	2023/09/12		92	%	63 170
8908979	YQ	RPD	2,3,7,8 etra CDD	2023/09/12	3 3		%	25
			1,2,3,7,8 Penta CDD	2023/09/12	2 0		%	25
			1,2,3,4,7,8 Hexa CDD	2023/09/12	1 8		%	25
			1,2,3,6,7,8 Hexa CDD	2023/09/12	1 8		%	25
			1,2,3,7,8,9 Hexa CDD	2023/09/12	0		%	25
			1,2,3,4,6,7,8 Hepta CDD	2023/09/12	0		%	25
			Octa CDD	2023/09/12	0 97		%	25
			2,3,7,8 etra CDF	2023/09/12	5 5		%	25
			1,2,3,7,8 Penta CDF	2023/09/12	2 7		%	25
			2,3,4,7,8 Penta CDF	2023/09/12	0 95		%	25
			1,2,3,4,7,8 Hexa CDF	2023/09/12	4 9		%	25
			1,2,3,6,7,8 Hexa CDF	2023/09/12	9 3		%	25
			2,3,4,6,7,8 Hexa CDF	2023/09/12	0 93		%	25
			1,2,3,7,8,9 Hexa CDF	2023/09/12	3 4		%	25
			1,2,3,4,6,7,8 Hepta CDF	2023/09/12	0		%	25
			1,2,3,4,7,8,9 Hepta CDF	2023/09/12	3 2		%	25
			Octa CDF	2023/09/12	0		%	25
8908979	YQ	Method B ank	37CL4 2378 etra CDD	2023/09/11		114	%	35 197
			C13 1234678 HeptaCDD	2023/09/11		99	%	23 140
			C13 1234678 HeptaCDF	2023/09/11		101	%	28 143
			C13 123478 HexaCDD	2023/09/11		95	%	32 141
			C13 123478 HexaCDF	2023/09/11		98	%	26 152
			C13 1234789 HeptaCDF	2023/09/11		97	%	28 138
			C13 123678 HexaCDD	2023/09/11		107	%	28 130
			C13 123678 HexaCDF	2023/09/11		102	%	26 123
			C13 12378 PentaCDD	2023/09/11		98	%	25 181
			C13 12378 PentaCDF	2023/09/11		93	%	24 185
			C13 123789 HexaCDF	2023/09/11		94	%	29 147
			C13 234678 HexaCDF	2023/09/11		113	%	28 136
			C13 23478 PentaCDF	2023/09/11		97	%	21 178
			C13 2378 etraCDD	2023/09/11		88	%	25 164
			C13 2378 etraCDF	2023/09/11		96	%	24 169
			C13 OCDD	2023/09/11		101	%	17 157
			2,3,7,8 etra CDD	2023/09/11	1 40 U, EDL=1 40		pg/L	
			1,2,3,7,8 Penta CDD	2023/09/11	1 34 U, EDL=1 34		pg/L	
			1,2,3,4,7,8 Hexa CDD	2023/09/11	1 51 U, EDL=1 51		pg/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	n t	QC ype	Parameter	Date Ana yzed	Va ue	% Recove y	UN S	QC L m ts
			1,2,3,6,7,8 Hexa CDD	2023/09/11	1 25 U, EDL=1 25		pg/L	
			1,2,3,7,8,9 Hexa CDD	2023/09/11	1 31 U, EDL=1 31		pg/L	
			1,2,3,4,6,7,8 Hepta CDD	2023/09/11	1 30 U, EDL=1 30		pg/L	
			Octa CDD	2023/09/11	1 28 U, EDL=1 28		pg/L	
			ota etra CDD	2023/09/11	1 40 U, EDL=1 40		pg/L	
			ota Penta CDD	2023/09/11	1 34 U, EDL=1 34		pg/L	
			ota Hexa CDD	2023/09/11	1 35 U, EDL=1 35		pg/L	
			ota Hepta CDD	2023/09/11	1 30 U, EDL=1 30		pg/L	
			2,3,7,8 etra CDF	2023/09/11	1 17 U, EDL=1 17		pg/L	
			1,2,3,7,8 Penta CDF	2023/09/11	1 53 U, EDL=1 53		pg/L	
			2,3,4,7,8 Penta CDF	2023/09/11	1 38 U, EDL=1 38		pg/L	
			1,2,3,4,7,8 Hexa CDF	2023/09/11	1 19 U, EDL=1 19		pg/L	
			1,2,3,6,7,8 Hexa CDF	2023/09/11	1 05 U, EDL=1 05		pg/L	
			2,3,4,6,7,8 Hexa CDF	2023/09/11	0 999 U, EDL=0 999		pg/L	
			1,2,3,7,8,9 Hexa CDF	2023/09/11	1 33 U, EDL=1 33		pg/L	
			1,2,3,4,6,7,8 Hepta CDF	2023/09/11	1 04 U, EDL=1 04		pg/L	
			1,2,3,4,7,8,9 Hepta CDF	2023/09/11	1 26 U, EDL=1 26		pg/L	
			Octa CDF	2023/09/11	1 42 U, EDL=1 42		pg/L	
			ota etra CDF	2023/09/11	1 17 U, EDL=1 17		pg/L	
			ota Penta CDF	2023/09/11	1 45 U, EDL=1 45		pg/L	
			ota Hexa CDF	2023/09/11	1 13 U, EDL=1 13		pg/L	
			ota Hepta CDF	2023/09/11	1 14 U, EDL=1 14		pg/L	
8913616	YQ	Method B ank	Conf rmat on 2,3,7,8 etra CDF	2023/09/13	1 3 U, EDL=1 3		pg/L	
			Conf rmat on C13 2378 etraCDF	2023/09/13		68	%	40 135

Dup cate: Pa red ana ys s of a separate port on of the same samp e Used to eva uate the var ance n the measurement

Sp ked B ank: A b ank matr x samp e to wh ch a known amount of the ana yte, usua y from a second source, has been added Used to eva uate method accuracy

Method B ank: A b ank matr x conta n ng a reagents used n the ana yt ca procedure Used to dent fy aboratory contam nat on

Surrogate: A pure or sotop ca y abe ed compound whose behav or m rrors the ana ytes of nterest Used to eva uate extract on eff c ency

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VALIDATION SIGNATURE PAGE

The ana ytica data and a QC contained in this report were reviewed and va idated by:

[redacted]

[redacted]

Bureau Ver tas has procedures n p ace to guard aga nst mproper use of the e ectron c s gnature and have the requ red s gnator es , as per SO/ EC 17025, s gn ng the reports For Serv ce Group spec f c va dat on, p ease refer to the Va dat on S gnatures page f nc uded, otherw se ava ab e by request For Depa tment spec f c Ana yst/Superv sor va dat on names, p ease refer to the Test Summa y sect on f nc uded, otherw se ava ab e by request Th s repo t s author zed by Rodney Ma or, Genera Manager respons b e for Ontar o Env ronmenta aborato y operat ons

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SUBCONTRACT ORDER

Babcock Laboratories, Inc. - Riverside

C3I0401

SENDING LABORATORY:

Babcock Laboratories, Inc. - Riverside
6100 Quail Valley Court
Riverside, CA 92507-0704
Phone: (951) 653-3351
Fax: (951) 653-1662
Project Manager: [redacted]

RECEIVING LABORATORY:

Bureau Veritas Canada (2019) Inc.
299 Cayuga Rd.
Cheektowaga, NY 14225
Phone :(800) 668-0639
Fax: -

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: C3I0401-01	**Liquid**	**Sampled: 09/05/23 14:09**		**7 Day Rush approved by Lori**
Dioxin	09/15/23 23:59	10/03/23 14:09		Dioxin & Furans
Containers Supplied:				
1L Amber- Unpres. (A)				
Sample ID: C3I0401-02	**Liquid**	**Sampled: 09/05/23 14:40**		**7 Day Rush approved by Lori**
Dioxin	09/15/23 23:59	10/03/23 14:40		Dioxin & Furans
Containers Supplied:				
1L Amber- Unpres. (A)				
Sample ID: C3I0401-03	**Liquid**	**Sampled: 09/05/23 14:59**		**7 Day Rush approved by Lori**
Dioxin	09/15/23 23:59	10/03/23 14:59		Dioxin & Furans
Containers Supplied:				
1L Amber- Unpres. (A)				
Sample ID: C3I0401-04	**Liquid**	**Sampled: 09/05/23 15:24**		**7 Day Rush approved by Lori**
Dioxin	09/15/23 23:59	10/03/23 15:24		Dioxin & Furans
Containers Supplied:				
1L Amber- Unpres. (A)				

[redacted]

TRACKING
773327794653

2.8/4.2/3.

[redacted]