Figures

SSB-9	
DEPTH	DIOXINS
1.0 - 1.5	0.96
2.0 - 3.0	0.84
4.0 - 5.0	HELD

SSB-8	
DEPTH	DIOXINS
0.5 - 1.0'	2.7
1.5 - 2.5'	1.4
4.0 - 5.0'	HELD

SSB-7	
DEPTH	DIOXINS
1.0 - 2.0'	**91**
3.0 - 5.0'	2.5

SSB-6	
DEPTH	DIOXINS
0.5 - 1.0'	**85**
1.5 - 2.5'	**177**
REFUSAL AT 3'	

LOG WAY

SSB-9

SSB-8

SSB-7

SSB-6

SOUTHERN SHORELINE

SSB-1

SSB-2

SSB-3

SSB-4

SSB-5

SSB-1	
DEPTH	DIOXINS
1.0 - 2.0'	**19**
2.5 -3.5'	**57**
4.0 - 5.0'	HELD

SSB-2	
DEPTH	DIOXINS
0.5 -1.0'	**9.2**
2.0 - 2.5'	1.4
4.0 - 5.0'	HELD

SSB-3	
DEPTH	DIOXINS
0.5 - 1.0'	0.92
1.5 - 2.5'	4.0
4.0 - 5.0'	HELD

SSB-4	
DEPTH	DIOXINS
1.0 - 2.0'	**61**
3.0 - 5.0'	**23**

SSB-5	
DEPTH	DIOXINS
1.0 - 2.0'	1.2
3.0 - 5.0'	1.4

N

LEGEND

APPROXIMATE PROPERTY BOUNDARY

UPLAND SHORELINE GEOPROBE BORINGS

NOTES

DIOXINS VALUES EXPRESSED AS TEQ USING U=1/2RL IN PICOGRAMS PER GRAM (pg/g).
VALUES OVER THE CUL OF 5.2 pg/g SHOWN IN **RED.**

0 210 420 630'

JELD-WEN SITE
300 WEST MARINE VIEW DRIVE
EVERETT, WASHINGTON

Report
DRAFT SHORELINE ASSESSMENT SUMMARY

Figure
NEARSHORE SOIL SAMPLE LOCATIONS AND ANALYTICAL RESULTS

Date	May 29, 2025	Scale	AS SHOWN	Figure No.
File Name	2024_Nord	Project No.	108.020778.00001	1

SLR

Drawing path: N:\Portland\Projects\JELD-WEN\JELD-WEN NORD DOOR\108.V20689.00001_2024 PRDI Activities\Figures\New CADD\2024_Nord.dwg

Tables

Table 1 - Analytical Summary Table
Draft Shoreline Assessment Summary
Jeld Wen Site, Everett, WA

Sample Location		SSB-1												SSB-2												SSB-3											
Sample ID	Cleanup Level (CUL)	SSB-1-1.0-2.0						SSB-1-2.5-3.5						SSB-2-0.5-1.0						SSB-2-2.0-2.5						SSB-3-0.5-1.0						SSB-3-1.5-2.5					
Sample Depth (feet bgs)		1.0 to 2.0						2.5 to 3.5						0.5 to 1.0						2.0 to 2.5						0.5 to 1.0						1.5 to 2.5					
Sample Date		4/16/2025						4/16/2025						4/16/2025						4/16/2025						4/16/2025						4/16/2025					
Parameter [A]	Value	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL
2,3,7,8-TCDF	-	0.63	J	0.1	0.063	0.06	0.06	2.5		0.1	0.25	0.25	0.25	0.18	J, I	0.1	0.018	0.02	0.02	< 0.22		0.1	0	0.01	0.02	< 0.20		0.1	0	0.01	0.02	2.2		0.1	0.22	0.22	0.22
2,3,7,8-TCDD	-	< 0.21		1	0	0.11	0.21	< 0.21		1	0	0.11	0.21	0.17	J, I	1	0.17	0.17	0.17	< 0.21		1	0	0.11	0.21	< 0.19		1	0	0.10	0.19	0.66	J	1	0.66	0.66	0.66
1,2,3,7,8-PeCDF	-	< 0.50		0.03	0	0.01	0.02	3.3	J, A	0.03	0.099	0.10	0.10	< 0.41	A	0.03	0	0.01	0.01	< 0.51		0.03	0	0.01	0.02	< 0.47		0.03	0	0.01	0.01	1.2	J, I	0.03	0.036	0.04	0.04
2,3,4,7,8-PeCDF	-	1.8	J	0.3	0.54	0.54	0.54	9.4		0.3	2.82	2.82	2.82	0.86	J, I	0.3	0.258	0.26	0.26	< 0.77		0.3	0	0.12	0.23	< 0.71		0.3	0	0.11	0.21	3.9	J	0.3	1.17	1.17	1.17
1,2,3,7,8-PeCDD	-	< 0.67		1	0	0.34	0.67	1.8	J, A	1	1.8	1.80	1.80	0.60	J, I	1	0.6	0.60	0.60	< 0.68		1	0	0.34	0.68	< 0.62		1	0	0.31	0.62	0.70	J, I	1	0.7	0.70	0.70
1,2,3,4,7,8-HxCDF	-	4.2		0.1	0.42	0.42	0.42	22		0.1	2.2	2.20	2.20	1.6	J, A	0.1	0.16	0.16	0.16	< 0.79		0.1	0	0.04	0.08	< 0.72		0.1	0	0.04	0.07	1.1	J, I	0.1	0.11	0.11	0.11
1,2,3,6,7,8-HxCDF	-	2.5	J	0.1	0.25	0.25	0.25	10		0.1	1	1.00	1.00	1.2	J, I, A	0.1	0.12	0.12	0.12	< 0.84		0.1	0	0.04	0.08	< 0.77		0.1	0	0.04	0.08	1.2	J, I	0.1	0.12	0.12	0.12
2,3,4,6,7,8-HxCDF	-	7.1		0.1	0.71	0.71	0.71	30		0.1	3	3.00	3.00	3.0	J, A	0.1	0.3	0.30	0.30	< 0.74		0.1	0	0.04	0.07	< 0.67		0.1	0	0.03	0.07	2.3	J, I	0.1	0.23	0.23	0.23
1,2,3,7,8,9-HxCDF	-	1.8	J	0.1	0.18	0.18	0.18	7.5		0.1	0.75	0.75	0.75	< 1.6	A	0.1	0	0.08	0.16	< 0.76		0.1	0	0.04	0.08	< 0.69		0.1	0	0.03	0.07	< 0.75		0.1	0	0.04	0.08
1,2,3,4,7,8-HxCDD	-	< 1.3		0.1	0	0.07	0.13	7.8		0.1	0.78	0.78	0.78	< 1.1		0.1	0	0.06	0.11	< 1.3		0.1	0	0.07	0.13	< 1.2		0.1	0	0.06	0.12	< 1.3		0.1	0	0.07	0.13
1,2,3,6,7,8-HxCDD	-	61		0.1	6.1	6.10	6.10	110		0.1	11	11.00	11.00	27		0.1	2.7	2.70	2.70	0.93	J	0.1	0.093	0.09	0.09	< 0.70		0.1	0	0.04	0.07	1.7	J	0.1	0.17	0.17	0.17
1,2,3,7,8,9-HxCDD	-	18		0.1	1.8	1.80	1.80	39		0.1	3.9	3.90	3.90	10		0.1	1	1.00	1.00	< 1.0		0.1	0	0.05	0.10	< 0.93		0.1	0	0.05	0.09	1.5	J	0.1	0.15	0.15	0.15
1,2,3,4,6,7,8-HpCDF	-	150	A	0.01	1.5	1.50	1.50	510	A	0.01	5.1	5.10	5.10	47	A	0.01	0.47	0.47	0.47	4.3	A	0.01	0.043	0.04	0.04	0.98	J	0.01	0.0098	0.01	0.01	5.3		0.01	0.053	0.05	0.05
1,2,3,4,7,8,9-HpCDF	-	4.0	A, J	0.01	0.04	0.04	0.04	23	A	0.01	0.23	0.23	0.23	< 3.0	A	0.01	0	0.02	0.03	< 1.1	A	0.01	0	0.01	0.01	< 0.77		0.01	0	0.00	0.01	< 0.83		0.01	0	0.00	0.01
1,2,3,4,6,7,8-HpCDD	-	660		0.01	6.6	6.6	6.6	1,900		0.01	19	19.0	19.0	260	A	0.01	2.6	2.6	2.6	24		0.01	0.24	0.2	0.2	4.5		0.01	0.045	0.0	0.0	23		0.01	0.23	0.2	0.2
OCDF	-	90		0.0003	0.027	0.0	0.0	660		0.0003	0.198	0.2	0.2	75		0.0003	0.0225	0.0	0.0	23		0.0003	0.0069	0.0	0.0	5.5		0.0003	0.0017	0.0	0.0	14		0.0003	0.0042	0.0	0.0
OCDD	-	1,900		0.0003	0.57	0.6	0.6	16,000	E	0.0003	4.8	4.8	4.8	2,000		0.0003	0.6	0.6	0.6	630		0.0003	0.189	0.2	0.2	170		0.0003	0.051	0.1	0.1	250		0.0003	0.075	0.1	0.1
TEQ	5.2				19	19	20				57	57	57				9.0	9.2	9.3				0.57	1.4	2.3				0.11	0.92	1.7				3.9	4.0	4.1

Sample Location		SSB-4												SSB-5												SSB-6											
Sample ID	Cleanup Level (CUL)	SSB-4-0.5-1.0						SSB-4-1.5-2.5						SSB-5-1.0-1.5						SSB-5-2.0-3.0						SSB-6-0.5-1.0						SSB-6-1.5-2.5					
Sample Depth (feet bgs)		0.5 to 1.0						1.5 to 2.5						1.0 to 1.5						2.0 to 3.0						0.5 to 1.0						1.5 to 2.5					
Sample Date		4/16/2025						4/16/2025						4/16/2025						4/16/2025						4/16/2025						4/16/2025					
Parameter [A]	Value	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL
2,3,7,8-TCDF	-	1.5		0.1	0.15	0.15	0.15	0.90	I, A	0.1	0.09	0.09	0.09	< 0.22		0.1	0	0.01	0.02	< 0.25		0.1	0	0.01	0.03	4.3	A	0.1	0.43	0.43	0.43	2.6		0.1	0.26	0.26	0.26
2,3,7,8-TCDD	-	0.66	J	1	0.66	0.66	0.66	< 0.23		1	0	0.12	0.23	< 0.21		1	0	0.11	0.21	< 0.24		1	0	0.12	0.24	< 0.31	A	1	0	0.16	0.31	0.76	J	1	0.76	0.76	0.76
1,2,3,7,8-PeCDF	-	2.8	J	0.03	0.084	0.08	0.08	1.6	J, I	0.03	0.048	0.05	0.05	< 0.51		0.03	0	0.01	0.02	< 0.59		0.03	0	0.01	0.02	8.7	A	0.03	0.261	0.26	0.26	4.5		0.03	0.135	0.14	0.14
2,3,4,7,8-PeCDF	-	7.1	A	0.3	2.13	2.13	2.13	4.9		0.3	1.47	1.47	1.47	< 0.77		0.3	0	0.12	0.23	< 0.90		0.3	0	0.14	0.27	19		0.3	5.7	5.70	5.70	12		0.3	3.6	3.60	3.60
1,2,3,7,8-PeCDD	-	7.8		1	7.8	7.80	7.80	2.0	J, I	1	2	2.00	2.00	< 0.68		1	0	0.34	0.68	< 0.79		1	0	0.40	0.79	4.3		1	4.3	4.30	4.30	6.1		1	6.1	6.10	6.10
1,2,3,4,7,8-HxCDF	-	19		0.1	1.9	1.90	1.90	7.7	A	0.1	0.77	0.77	0.77	< 0.79		0.1	0	0.04	0.08	< 0.91		0.1	0	0.05	0.09	20		0.1	2	2.00	2.00	59	P	0.1	5.9	5.90	5.90
1,2,3,6,7,8-HxCDF	-	12		0.1	1.2	1.20	1.20	3.9	J, A	0.1	0.39	0.39	0.39	< 0.84		0.1	0	0.04	0.08	< 0.97		0.1	0	0.05	0.10	13		0.1	1.3	1.30	1.30	18		0.1	1.8	1.80	1.80
2,3,4,6,7,8-HxCDF	-	29		0.1	2.9	2.90	2.90	13	A	0.1	1.3	1.30	1.30	< 0.74		0.1	0	0.04	0.07	0.87	J	0.1	0.087	0.09	0.09	26		0.1	2.6	2.60	2.60	43		0.1	4.3	4.30	4.30
1,2,3,7,8,9-HxCDF	-	7.1		0.1	0.71	0.71	0.71	< 5.2	A	0.1	0	0.26	0.52	< 0.76		0.1	0	0.04	0.08	1.5	J	0.1	0.15	0.15	0.15	14		0.1	1.4	1.40	1.40	13		0.1	1.3	1.30	1.30
1,2,3,4,7,8-HxCDD	-	19		0.1	1.9	1.90	1.90	3.8	J, I	0.1	0.38	0.38	0.38	< 1.3		0.1	0	0.07	0.13	< 1.5		0.1	0	0.08	0.15	10		0.1	1	1.00	1.00	35		0.1	3.5	3.50	3.50
1,2,3,6,7,8-HxCDD	-	110		0.1	11	11.00	11.00	35		0.1	3.5	3.50	3.50	< 0.77		0.1	0	0.04	0.08	1.4	J	0.1	0.14	0.14	0.14	110		0.1	11	11.00	11.00	160		0.1	16	16.00	16.00
1,2,3,7,8,9-HxCDD	-	48		0.1	4.8	4.80	4.80	15	I	0.1	1.5	1.50	1.50	< 1.0		0.1	0	0.05	0.10	1.5	J	0.1	0.15	0.15	0.15	24		0.1	2.4	2.40	2.40	54		0.1	5.4	5.40	5.40
1,2,3,4,6,7,8-HpCDF	-	430	A	0.01	4.3	4.30	4.30	170	A	0.01	1.7	1.70	1.70	2.8	J, I, A	0.01	0.028	0.03	0.03	1.7	J	0.01	0.017	0.02	0.02	510	A	0.01	5.1	5.10	5.10	960	A	0.01	9.6	9.60	9.60
1,2,3,4,7,8,9-HpCDF	-	29	A	0.01	0.29	0.29	0.29	< 4.9	A	0.01	0	0.02	0.05	< 1.9	A	0.01	0	0.01	0.02	1.6	J	0.01	0.016	0.02	0.02	25	A	0.01	0.25	0.25	0.25	110	A	0.01	1.1	1.10	1.10
1,2,3,4,6,7,8-HpCDD	-	1,700	A	0.01	17	17.0	17.0	700	A	0.01	7	7.0	7.0	14	A	0.01	0.14	0.1	0.1	3.5	J	0.01	0.035	0.0	0.0	3,200	A	0.01	32	32.0	32.0	7,700	E	0.01	77	77.0	77.0
OCDF	-	970		0.0003	0.291	0.3	0.3	230	A	0.0003	0.069	0.1	0.1	16		0.0003	0.0048	0.0	0.0	2.8	J	0.0003	0.0008	0.0	0.0	1,800		0.0003	0.54	0.5	0.5	4,000		0.0003	1.2	1.2	1.2
OCDD	-	13,000		0.0003	3.9	3.9	3.9	7,600	A	0.0003	2.28	2.3	2.3	450		0.0003	0.135	0.1	0.1	26		0.0003	0.0078	0.0	0.0	49,000	E, A	0.0003	14.7	14.7	14.7	130,000	E, D, N2	0.0003	39	39.0	39.0
TEQ	5.2				61	61	61				22	23	23				0.31	1.2	2.1				0.60	1.4	2.3				85	85	85				177	177	177

Sample Location		SSB-7												SSB-8												SSB-9											
Sample ID	Cleanup Level (CUL)	SSB-7-0.25-0.75						SSB-7-1.0-1.5						SSB-8-0.5-1.0						SSB-8-1.5-2.5						SSB-9-1.0-1.5						SSB-9-2.0-3.0					
Sample Depth (feet bgs)		0.25 to 0.75						1.0 to 1.5						0.5 to 1.0						1.5 to 2.5						1.0 to 1.5						2.0 to 3.0					
Sample Date		4/16/2025						4/16/2025						4/16/2025						4/16/2025						4/16/2025						4/16/2025					
Parameter [A]	Value	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL	Value	Qual	TEF	U=0	U=1/2RL	U=RL
2,3,7,8-TCDF	-	4.7	A	0.1	0.47	0.47	0.47	< 0.24		0.1	0	0.01	0.02	0.29	J	0.1	0.029	0.03	0.03	< 0.20		0.1	0	0.01	0.02	< 0.23		0.1	0	0.01	0.02	< 0.20		0.1	0	0.01	0.02
2,3,7,8-TCDD	-	1.4	A	1	1.4	1.40	1.40	< 0.23		1	0	0.12	0.23	< 0.22		1	0	0.11	0.22	< 0.19		1	0	0.10	0.19	< 0.22		1	0	0.11	0.22	< 0.19		1	0	0.10	0.19
1,2,3,7,8-PeCDF	-	6.9		0.03	0.207	0.21	0.21	< 0.56		0.03	0	0.01	0.02	< 0.54		0.03	0	0.01	0.02	< 0.47		0.03	0	0.01	0.01	< 0.54		0.03	0	0.01	0.02	< 0.47		0.03	0	0.01	0.01
2,3,4,7,8-PeCDF	-	15		0.3	4.5	4.50	4.50	0.85	J	0.3	0.255	0.26	0.26	< 0.81		0.3	0	0.12	0.24	< 0.70		0.3	0	0.11	0.21	< 0.81		0.3	0	0.12	0.24	< 0.72		0.3	0	0.11	0.22
1,2,3,7,8-PeCDD	-	14		1	14	14.00	14.00	< 0.74		1	0	0.37	0.74	< 0.72		1	0	0.36	0.72	< 0.62		1	0	0.31	0.62	< 0.71		1	0	0.36	0.71	< 0.63		1	0	0.32	0.63
1,2,3,4,7,8-HxCDF	-	9		0.1	0.89	0.89	0.89	1.8	J	0.1	0.18	0.18	0.18	2.5	J	0.1	0.25	0.25	0.25	0.73	J	0.1	0.073	0.07	0.07	< 0.83		0.1	0	0.04	0.08	< 0.73		0.1	0	0.04	0.07
1,2,3,6,7,8-HxCDF	-	34		0.1	3.4	3.40	3.40	< 0.92		0.1	0	0.05	0.09	1.6	J	0.1	0.16	0.16	0.16	0.81	J	0.1	0.081	0.08	0.08	< 0.88		0.1	0	0.04	0.09	< 0.78		0.1	0	0.04	0.08
2,3,4,6,7,8-HxCDF	-	52	A	0.1	5.2	5.20	5.20	2.0	J	0.1	0.2	0.20	0.20	2.4	J	0.1	0.24	0.24	0.24	1.2	J	0.1	0.12	0.12	0.12	< 0.77		0.1	0	0.04	0.08	< 0.68		0.1	0	0.03	0.07
1,2,3,7,8,9-HxCDF	-	6.7	A	0.1	0.67	0.67	0.67	1.9	J	0.1	0.19	0.19	0.19	1.1	J	0.1	0.11	0.11	0.11	1.1	J	0.1	0.11	0.11	0.11	< 0.80		0.1	0	0.04	0.08	< 0.70		0.1	0	0.04	0.07
1,2,3,4,7,8-HxCDD	-	19		0.1	1.9	1.90	1.90	< 1.4		0.1	0	0.07	0.14	< 1.4		0.1	0	0.07	0.14	< 1.2		0.1	0	0.06	0.12	< 1.4		0.1	0	0.07	0.14	< 1.2		0.1	0	0.06	0.12
1,2,3,6,7,8-HxCDD	-	210		0.1	21	21.00	21.00	2.8	J	0.1	0.28	0.28	0.28	3.9	J	0.1	0.39	0.39	0.39	1.3	J	0.1	0.13	0.13	0.13	< 0.81		0.1	0	0.04	0.08	< 0.71		0.1	0	0.04	0.07
1,2,3,7,8,9-HxCDD	-	84		0.1	8.4	8.40	8.40	1.5	J	0.1	0.15	0.15	0.15	2.3	J	0.1	0.23	0.23	0.23	1.1	J	0.1	0.11	0.11	0.11	< 1.1		0.1	0	0.06	0.11	< 0.95		0.1	0	0.05	0.10
1,2,3,4,6,7,8-HpCDF	-	540	A	0.01	5.4	5.40	5.40	8.6		0.01	0.086	0.09	0.09	15		0.01	0.15	0.15	0.15	2.8	J	0.01	0.028	0.03	0.03	< 0.65		0.01	0	0.00	0.01	< 0.57		0.01	0	0.00	0.01
1,2,3,4,7,8,9-HpCDF	-	21	A	0.01	0.21	0.21	0.21	1.8	J	0.01	0.018	0.02	0.02	2.1		0.01	0.021	0.02	0.02	1.7	J	0.01	0.017	0.02	0.02	< 0.88		0.01	0	0.00	0.01	< 0.78		0.01	0	0.00	0.01
1,2,3,4,6,7,8-HpCDD	-	2,000	A	0.01	20	20.0	20.0	33	A	0.01	0.33	0.3	0.3	41		0.01	0.41	0.4	0.4	9.4		0.01	0.094	0.1	0.1	1.2	J	0.01	0.012	0.0	0.0	1.0	J, I	0.01	0.01	0.0	0.0
OCDF	-	560	A	0.0003	0.168	0.2	0.2	27		0.0003	0.0081	0.0	0.0	17		0.0003	0.0051	0.0	0.0	6.2	J	0.0003	0.0019	0.0	0.0	< 2.0		0.0003	0	0.0	0.0	< 1.8		0.0003	0	0.0	0.0
OCDD	-	9,200	A	0.0003	2.76	2.8	2.8	740		0.0003	0.222	0.2	0.2	260		0.0003	0.078	0.1	0.1	77		0.0003	0.0231	0.0	0.0	16		0.0003	0.0048	0.0	0.0	16		0.0003	0.0048	0.0	0.0
TEQ	5.2				91	91	91				1.9	2.5	3.2				2.1	2.7	3.4				0.79	1.4	2.0				0.017	0.96	1.9				0.015	0.84	1.7

Notes
All values shown as Picograms per gram (pg/g)
- indicates data not available
<X.X indicates not detected above the laboratory practical quantitation limit (PQL) of X.X
BOLD indicates detected above the laboratory PQL
Gray shading indicates measured above CUL
A - Dioxins and Furans per EPA Method 1613
TEQ U=0 indicates Toxic Equivalency Quotient (TEQ) using Toxicity Equivalency Factors (TEFs) per MTCA Table 708-1 assuming Non-Detect values are 0
TEQ U=1/2 indicates TEQ using TEFs per MTCA Table 708-1 assuming Non-Detect values as 1/2 reporting limit
TEQ U=RL indicates TEQ using MTCA Table 708-1 assuming non-detect values as equal to the reporting limit.
Cleanup Level (CUL) presented in the 2023 Cleanup Action Plan (CAP)

Laboratory Qualifiers
A - Reporting Limit based on signal to noise (EDL)
D - Result obtained from analysis of diluted sample
E - Exceeds calibration range
I - Isotope ratio out of specification
J - Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
N2 - Value obtained from additional analysis
P - PCDE Interference
Italics indicates sample results modified based on Data Validation (see Attachment 11)

Laboratory Report

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Chris Kramer
SLR International Corporation
1800 Blankenship Road
Suite 440
West Linn OR 97068

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Prepared Date:
May 19, 2025

Report Information:

Pace Project #: 10731750
Sample Receipt Date: 04/22/2025
Client Project #: 108.020778.00001 Nord Shorelin
Client Sub PO #: N/A
State Cert #: C486

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to KirstenJohnson, your Pace Project Manager.

This report has been reviewed by:

May 20, 2025

KirstenJohnson, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.johnson@pacelabs.com

Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on eighteen samples submitted by a representative of SLR International Corporation. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The reporting limits were set to statistically-derived method detection limits (MDLs) and were adjusted for sample extraction amount and dilution. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 21-98%. Except for one value, which was flagged "R" on the results table, the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained or "P" where polychlorinated diphenyl ethers were present. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Concentrations above the calibration range were flagged "E" and should also be regarded as estimates. Values obtained from analyses of diluted extracts were flagged "D" and "N2". In cases where the estimated detection limit (EDL) values were above the method detection limits, the EDLs were provided and flagged "A".

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results showed that the spiked native compounds were recovered at 84-114% with relative percent differences of 0.0-11.1%. These results were within the target ranges for the method. Matrix spikes were not prepared with the extraction batch.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street SE
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Mississippi	MN00064
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-DW	27700
California	2929	North Carolina-WW	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (1700)	CL101
Georgia	959	Ohio-VAP (1800)	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Secondary	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-DEP	382
Minnesota	027-053-137	West Virginia-DW	9952C
Minnesota-Ag	via MN 027-053-137	Wisconsin	999407970
Minnesota-Petrofund	1240	Wyoming-UST	via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
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www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Report No.: 10731750_1613BFC_L2_dir

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 10731750

10731750

Company Name: SLR	Contact/Report To: Chris Kramer
Street Address: 22118 20th Ave SE Ste G202 Bothell, WA 98021	Phone #: (503) 723-4423
	E-Mail: Ckramer@slrconsulting.com
	Cc E-Mail:
Customer Project #: 108.020778.00001	Invoice to: Chris Kramer + AP
Project Name: Nord Shoreline Sampling	Invoice E-mail: Ckramer@slrconsulting.com ap-us@slrconsulting.com
Site Collection Info/Facility ID (as applicable):	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [X] PT [ ] MT [ ] CT [ ] ET	County / State origin of sample(s): Snohomish County / WA
Data Deliverables: [ ] Level II [ ] Level III [X] Level IV [ ] EQUIS [X] Other Ecology EIM EDD	Regulatory Program (DW, RCRA, etc.) as applicable: Ecology EIM — Reportable [ ] Yes [ ] No
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other _____
	Date Results Requested:
	DW PWSID # or WW Permit # as applicable:
	Field Filtered (if applicable): [ ] Yes [ ] No
	Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	*Composite Start (Collected) Date	*Composite Start (Collected) Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	Identify Container Preservative Type***	Sample Comment	Preservation non-conformance identified for sample.
SSB-1-1.0-2.0	Soil	Grab	4/16/25	850			1			X		01
SSB-1-2.5-3.5										X		02
SSB-1-4.0-4.5											Hold	03
SSB-2-0.5-1.0				933						X		04
SSB-2-2.0-2.5										X		05
SSB-2-2.5-3.0											Hold	06
SSB-3-0.5-1.0				1015						X		07
SSB-3-1.5-2.5										X		08
SSB-3-3.0-3.5											Hold	09
SSB-3(2)-0.5-1.5				1045							Hold	10

Specify Container Size **: 1613B Dioxin/Furan 1L Container

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: | AcctNum / Client ID: | Table #: | Profile / Template: | Prelog / Bottle Ord. ID:

Additional Instructions from Pace®:

Collected By: Printed Name: Emily Hernandez Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):	[ ] On Ice
1	T4	-0.5	5.2	4.7	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
SLR	4/18/25 1530	PACE	4/25/25 850
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 3

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Report No.....10731750_1613BFC_L2_dfr

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: SLR	Contact/Report To: Chris Kramer
Street Address: 22118 20th Ave SE Ste G202 Bothell, WA 98021	Phone #: (503) 723-4423
	E-Mail: ckramer@slrconsulting.com
	Cc E-Mail:
Customer Project #: 108.020778.00001	Invoice to: Chris Kramer + AP
Project Name: Nord Shoreline Sampling	Invoice E-mail: ckramer@slrconsulting.com ap-us@slrconsulting.com
Site Collection Info/Facility ID (as applicable):	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [X] PT [ ] MT [ ] CT [ ] ET	County / State origin of sample(s): Snohomish County / WA
Data Deliverables: [ ] Level II [ ] Level III [X] Level IV [ ] EQUIS [X] Other Ecology EIM EDD	Regulatory Program (DW, RCRA, etc.) as applicable: Ecology EIM
	Reportable [ ] Yes [ ] No
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other _____
	Date Results Requested:
	DW PWSID # or WW Permit # as applicable:
	Field Filtered (if applicable): [ ] Yes [ ] No
	Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	~~Composite Start~~ Collected Date	Time	Collected or Composite End Date	Time	# Cont.	Residual Chlorine Result	Units	1613B Dioxin/Furan 17 congener	Sample Comment
SSB-4-0.5-1.0	Soil	Grab	4/14/25	1055			1			X	11
SSB-4-1.5-2.5	↓	↓	↓	↓			↓			X	12
SSB-5-1.0-1.5				1115						X	13
SSB-5-2.0-3.0				↓						X	14
SSB-6-0.5-1.0				1205						X	15
SSB-6-1.5-2.5				↓						X	16
SSB-7-0.25-0.75				1257						X	17
SSB-7-1.0-1.5				↓						X	18
SSB-8-0.5-1.0				1320						X	19
SSB-8-1.5-2.5	↓	↓	↓	↓			↓			X	20

Lab Use Only: Proj. Mgr: | AcctNum / Client ID: | Table #: | Profile / Template: | Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Additional Instructions from Pace® :

Collected By:
Printed Name: Emily Hernandez
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):	[ ] On Ice
1	T4	0.5	5.2	4.7	Y

Relinquished by/Company: (Signature) SLR	Date/Time: 4/18/25 1580	Received by/Company: (Signature) Pace	Date/Time: 4/18/25	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 850	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

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Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: SLR	Contact/Report To: Chris Kramer
Street Address: 22118 20th Ave SE Ste 6702 Bothell, WA 98021	Phone #: (503) 723-4423
	E-Mail: ckramer@sirconsulting.com
	Cc E-Mail:
Customer Project #: 105.020778.00001	Invoice to: Chris Kramer + AP
Project Name: Nord Shoreline Sampling	Invoice E-mail: ckramer@sirconsulting.com ap-us@sirconsulting.com
Site Collection Info/Facility ID (as applicable):	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [X] PT [ ] MT [ ] CT [ ] ET	County / State origin of sample(s): Snohomish county / WA
Data Deliverables: [ ] Level II [ ] Level III [X] Level IV [ ] EQUIS [X] Other Ecology EIM EDD	Regulatory Program (DW, RCRA, etc.) as applicable: Ecology EIM Reportable [ ] Yes [ ] No
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other _____
	Date Results Requested:
	DW PWSID # or WW Permit # as applicable:
	Field Filtered (if applicable): [ ] Yes [ ] No
	Analysis:

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	1613B Dioxin/furan 17 congener	Sample Comment	
SSB-8-3.0-4.0	Soil	Grab	4/16/25	1320			1				Hold	21
SSB-9-1.0-1.5	↓	↓	↓	1345			↓			X		22
SSB-9-2.0-3.0				↓						X		23
SSB-9-3.5-4.0	↓	↓	↓	↓			↓				Hold	24

Lab Use Only: Proj. Mgr: | AcctNum / Client ID: | Table #: | Profile / Template: | Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Additional Instructions from Pace® :

Collected By:
Printed Name
Signature: Emily Hernandez

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):	[ ] On Ice
1	T4	-0.5	5.2	4.7	Y

Relinquished by/Company: (Signature) SLR	Date/Time: 4/18/25 1530	Received by/Company: (Signature)	Date/Time: 4/19/25 830	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 3

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ENV-FRM-MIN4-0150 v19_Sample Condition Upon Receipt

Person Examining & Date: ZE 4/25/25 **PROJECT #:** **WO#: 10731750**

PM: KNH **Due Date: 05/13/25**

CLIENT: SLR

Client Name: SLR

Custody Seal Present: ☑ YES ☐ NO **Seals Intact:** ☑ YES ☐ NO

Tracking Number: 8807 0340 5515 ☐ See Exceptions form ENV-FRM-MIN4-0142.

Courier: ☐ Client ☐ Commercial ☑ FedEx ☐ Pace Courier/Field ☐ SpeeDee ☐ UPS ☐ USPS

Packing Material: ☑ Bubble Bags ☑ Bubble Wrap ☐ None ☐ Other: _____ **Biological Tissue Frozen:** ☐ YES ☑ NO

Thermometer: ☐ T1 (0461) ☐ T2 (0431) ☐ T3 (0459) ☑ T4 (0402) ☐ T5 (0187) ☐ T6 (0396) ☐ T7 (0377) ☐ T8 (0775) ☐ T9 (0428) ☐ 01339252 (0710)

Type of Ice: ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Temp Blank: ☑ YES ☐ NO

***NOTE:** Temp should be ≤ 6°C, but above freezing.*

Read Temp w/Temp Blank: 5.2 °C

Correction Factor: -0.5

Corrected Temp w/Temp Blank: 4.7 °C

Did Samples Originate in West Virginia: ☐ YES ☑ NO (list temps on exception)

Were All Container Temps Taken: ☐ YES ☐ NO ☑ N/A

Average Corrected Temp (No Temp Blank Only): _____

☐ See Exceptions form ENV-FRM-MIN4-0142. ☐ 1 Container

USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): _____

Did Samples originate from one of the following states (check maps): ☐ YES ☑ NO

Circle State: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, VA

Are samples from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO

NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out? **(i.e., Analysis/ID/Date/Time)**	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☑	☐	☐	3.
Samples Arrived within Hold Time? If Fecal: ☐ <8 hrs ☐ >8 hr but <24 hr ☐ >24 hr	☑	☐		4.
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Turbidity ☐ Other: _____
Rush Turn Around Time Requested?	☐	☑		6. ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 5 Day Due Date: _____
Sufficient Sample Volume? **(If NO, list approximate volume in section 7.)**	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
ID/Date/Time Match? **(If NO, fill out section 11.)** Matrix: ☐ Oil ☑ Soil ☐ Water ☐ Other	☑	☐	☐	11. ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12.
Sample #: ☐ HNO3 _____ ☐ H2SO4 _____ ☐ NaOH _____ ☐ Zinc Acetate _____ **pH Paper Lot #:** ☐ Residual Chlorine _____ ☐ 0-6 Roll _____ ☐ 0-6 Strip _____ ☐ 0-14 Strip _____ **Positive for Residual Chlorine (NaOH containers only):** ☐ YES ☐ NO				
Preserved containers in compliance with EPA recommendations? (HNO3, H2SO4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) **EXCECTIONS (water only):** VOA, Coliform, TOC/DOC, Oil & Grease, Phenols, DRO/8015, Dioxins, and PFAS	☐ ☐	☐ ☑	☑ ☐	☐ See Exceptions form ENV-FRM-MIN4-0142
Extra labels present on soil VOA or WIDRO containers? **(soil only)**	☐	☐	☑	13.
Headspace in Methyl Mercury Container?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION: **Labeled By:** _____ **Line:** _____

Person Contacted & Date/Time: _____ **PM Review & Date:** Kirsten Johnson 4/22/2025

***NOTE:** When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office.*

Pace Analytical Services, LLC
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Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-1-1.0-2.0		
Lab Sample ID	10731750001		
Filename	E250505A_15		
Injected By	JF		
Total Amount Extracted	13.0 g	Matrix	SOLID
% Moisture	5.5	Dilution	NA
Dry Weight Extracted	12.3 g	Collected	04/16/2025 08:50
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250505A_05	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/05/2025 21:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.63	-----	0.21	J	2,3,7,8-TCDF-13C	2.00	72
Total TCDF	4.5	-----	0.21		2,3,7,8-TCDD-13C	2.00	73
					1,2,3,7,8-PeCDF-13C	2.00	56
2,3,7,8-TCDD	ND	-----	0.21		2,3,4,7,8-PeCDF-13C	2.00	57
Total TCDD	0.22	-----	0.21	J	1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	-----	0.50		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	1.8	-----	0.76	J	2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	42	-----	0.50		1,2,3,7,8,9-HxCDF-13C	2.00	66
					1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	-----	0.67		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	6.1	-----	0.67		1,2,3,4,6,7,8-HpCDF-13C	2.00	55
					1,2,3,4,7,8,9-HpCDF-13C	2.00	49
1,2,3,4,7,8-HxCDF	4.2	-----	0.78		1,2,3,4,6,7,8-HpCDD-13C	2.00	54
1,2,3,6,7,8-HxCDF	2.5	-----	0.83	J	OCDD-13C	4.00	35
2,3,4,6,7,8-HxCDF	7.1	-----	0.73				
1,2,3,7,8,9-HxCDF	1.8	-----	0.75	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	240	-----	0.73		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.3		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	61	-----	0.76				
1,2,3,7,8,9-HxCDD	18	-----	1.0				
Total HxCDD	500	-----	0.76				
1,2,3,4,6,7,8-HpCDF	150	-----	0.62	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	4.0	-----	1.0	JA	Equivalence: 19 ng/Kg		
Total HpCDF	420	-----	0.62		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	660	-----	0.51				
Total HpCDD	1600	-----	0.51				
OCDF	90	-----	1.9				
OCDD	1900	-----	1.6				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-1-2.5-3.5			
Lab Sample ID	10731750002			
Filename	E250505A_16			
Injected By	JF			
Total Amount Extracted	14.0 g	Matrix	SOLID	
% Moisture	14.0	Dilution	NA	
Dry Weight Extracted	12.0 g	Collected	04/16/2025	08:50
ICAL ID	E250319	Received	04/22/2025	08:50
CCal Filename(s)	E250505A_05	Extracted	04/23/2025	12:00
Method Blank ID	BLANK-118648	Analyzed	05/05/2025	22:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.5	-----	0.22		2,3,7,8-TCDF-13C	2.00	67
Total TCDF	25	-----	0.22		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	47
2,3,7,8-TCDD	ND	-----	0.21		2,3,4,7,8-PeCDF-13C	2.00	48
Total TCDD	8.4	-----	0.21		1,2,3,7,8-PeCDD-13C	2.00	58
					1,2,3,4,7,8-HxCDF-13C	2.00	59
1,2,3,7,8-PeCDF	3.3	-----	1.2	JA	1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	9.4	-----	0.78		2,3,4,6,7,8-HxCDF-13C	2.00	53
Total PeCDF	160	-----	0.78		1,2,3,7,8,9-HxCDF-13C	2.00	57
					1,2,3,4,7,8-HxCDD-13C	2.00	54
1,2,3,7,8-PeCDD	1.8	-----	0.69	J	1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	29	-----	0.69		1,2,3,4,6,7,8-HpCDF-13C	2.00	49
					1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	22	-----	0.80		1,2,3,4,6,7,8-HpCDD-13C	2.00	48
1,2,3,6,7,8-HxCDF	10.0	-----	0.85		OCDD-13C	4.00	31
2,3,4,6,7,8-HxCDF	30	-----	0.74				
1,2,3,7,8,9-HxCDF	7.5	-----	0.76		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	900	-----	0.74		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	7.8	-----	1.3		2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	110	-----	0.77				
1,2,3,7,8,9-HxCDD	39	-----	1.0				
Total HxCDD	940	-----	0.77				
1,2,3,4,6,7,8-HpCDF	510	-----	2.3	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	23	-----	3.2	A	Equivalence: 57 ng/Kg		
Total HpCDF	1100	-----	2.3		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1900	-----	0.52				
Total HpCDD	3800	-----	0.52				
OCDF	660	-----	1.9				
OCDD	16000	-----	1.7	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-2-0.5-1.0			
Lab Sample ID	10731750004			
Filename	E250505A_17			
Injected By	JF			
Total Amount Extracted	16.0 g	Matrix	SOLID	
% Moisture	6.3	Dilution	NA	
Dry Weight Extracted	15.0 g	Collected	04/16/2025	09:33
ICAL ID	E250319	Received	04/22/2025	08:50
CCal Filename(s)	E250505A_05	Extracted	04/23/2025	12:00
Method Blank ID	BLANK-118648	Analyzed	05/05/2025	23:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.18	0.18	JI	2,3,7,8-TCDF-13C	2.00	60
Total TCDF	0.87	-----	0.18		2,3,7,8-TCDD-13C	2.00	59
					1,2,3,7,8-PeCDF-13C	2.00	39
2,3,7,8-TCDD	-----	0.17	0.17	JI	2,3,4,7,8-PeCDF-13C	2.00	42
Total TCDD	0.80	-----	0.17		1,2,3,7,8-PeCDD-13C	2.00	51
					1,2,3,4,7,8-HxCDF-13C	2.00	58
1,2,3,7,8-PeCDF	ND	-----	0.41	A	1,2,3,6,7,8-HxCDF-13C	2.00	63
2,3,4,7,8-PeCDF	-----	0.86	0.63	JI	2,3,4,6,7,8-HxCDF-13C	2.00	55
Total PeCDF	20	-----	0.41		1,2,3,7,8,9-HxCDF-13C	2.00	55
					1,2,3,4,7,8-HxCDD-13C	2.00	52
1,2,3,7,8-PeCDD	-----	0.60	0.55	JI	1,2,3,6,7,8-HxCDD-13C	2.00	61
Total PeCDD	1.1	-----	0.55	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	47
					1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	1.6	-----	1.1	JA	1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	-----	1.2	1.1	JIA	OCDD-13C	4.00	31
2,3,4,6,7,8-HxCDF	3.0	-----	1.2	JA			
1,2,3,7,8,9-HxCDF	ND	-----	1.6	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	48	-----	1.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.1		2,3,7,8-TCDD-37Cl4	0.20	62
1,2,3,6,7,8-HxCDD	27	-----	0.62				
1,2,3,7,8,9-HxCDD	10	-----	0.83				
Total HxCDD	220	-----	0.62				
1,2,3,4,6,7,8-HpCDF	47	-----	1.9	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.0	A	Equivalence: 9.1 ng/Kg		
Total HpCDF	140	-----	1.9		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	260	-----	1.7	A			
Total HpCDD	580	-----	1.7				
OCDF	75	-----	1.5				
OCDD	2000	-----	11	A			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-2-2.0-2.5		
Lab Sample ID	10731750005		
Filename	E250505A_18		
Injected By	JF		
Total Amount Extracted	12.9 g	Matrix	SOLID
% Moisture	5.8	Dilution	NA
Dry Weight Extracted	12.1 g	Collected	04/16/2025 09:33
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250505A_05	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/06/2025 00:17

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.22		2,3,7,8-TCDF-13C	2.00	65
Total TCDF	ND	-----	0.22		2,3,7,8-TCDD-13C	2.00	63
					1,2,3,7,8-PeCDF-13C	2.00	53
2,3,7,8-TCDD	ND	-----	0.21		2,3,4,7,8-PeCDF-13C	2.00	57
Total TCDD	1.1	-----	0.21		1,2,3,7,8-PeCDD-13C	2.00	68
					1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	0.51		1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	0.77		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	-----	0.51		1,2,3,7,8,9-HxCDF-13C	2.00	60
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	0.68		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	0.68		1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	0.79		1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	-----	0.84		OCDD-13C	4.00	37
2,3,4,6,7,8-HxCDF	ND	-----	0.74				
1,2,3,7,8,9-HxCDF	ND	-----	0.76		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.4	-----	0.74	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.3		2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	0.93	-----	0.77	J			
1,2,3,7,8,9-HxCDD	ND	-----	1.0				
Total HxCDD	8.3	-----	0.77				
1,2,3,4,6,7,8-HpCDF	4.3	-----	0.72	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.1	A	Equivalence: 0.58 ng/Kg		
Total HpCDF	12	-----	0.72		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	24	-----	0.67	A			
Total HpCDD	49	-----	0.67				
OCDF	23	-----	1.9				
OCDD	630	-----	3.1	A			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-3-0.5-1.0		
Lab Sample ID	10731750007		
Filename	E250505A_19		
Injected By	JF		
Total Amount Extracted	14.1 g	Matrix	SOLID
% Moisture	5.4	Dilution	NA
Dry Weight Extracted	13.3 g	Collected	04/16/2025 10:15
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250505A_05	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/06/2025 01:06

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.20		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	-----	0.20		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	57
2,3,7,8-TCDD	ND	-----	0.19		2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD	ND	-----	0.19		1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	65
1,2,3,7,8-PeCDF	ND	-----	0.47		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	-----	0.71		2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	ND	-----	0.47		1,2,3,7,8,9-HxCDF-13C	2.00	58
					1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	ND	-----	0.62		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	0.62		1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	-----	0.72		1,2,3,4,6,7,8-HpCDD-13C	2.00	61
1,2,3,6,7,8-HxCDF	ND	-----	0.77		OCDD-13C	4.00	38
2,3,4,6,7,8-HxCDF	ND	-----	0.67				
1,2,3,7,8,9-HxCDF	ND	-----	0.69		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.67		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.2		2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	-----	0.70				
1,2,3,7,8,9-HxCDD	ND	-----	0.93				
Total HxCDD	1.1	-----	0.70	J			
1,2,3,4,6,7,8-HpCDF	0.98	-----	0.56	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.77		Equivalence: 0.11 ng/Kg		
Total HpCDF	2.1	-----	0.56	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	4.5	-----	0.47				
Total HpCDD	9.1	-----	0.47				
OCDF	5.5	-----	1.7	J			
OCDD	170	-----	1.5				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-3-1.5-2.5		
Lab Sample ID	10731750008		
Filename	E250506A_03		
Injected By	JF		
Total Amount Extracted	13.9 g	Matrix	SOLID
% Moisture	11.5	Dilution	NA
Dry Weight Extracted	12.3 g	Collected	04/16/2025 10:15
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506A_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/06/2025 03:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.2	-----	0.21		2,3,7,8-TCDF-13C	2.00	71
Total TCDF	53	-----	0.21		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	56
2,3,7,8-TCDD	0.66	-----	0.21	J	2,3,4,7,8-PeCDF-13C	2.00	59
Total TCDD	49	-----	0.21		1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	70
1,2,3,7,8-PeCDF	-----	1.2	0.50	JI	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	3.9	-----	0.76	J	2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	52	-----	0.50		1,2,3,7,8,9-HxCDF-13C	2.00	66
					1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	-----	0.70	0.67	JI	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	34	-----	0.67		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	-----	1.1	0.78	JI	1,2,3,4,6,7,8-HpCDD-13C	2.00	61
1,2,3,6,7,8-HxCDF	-----	1.2	0.83	JI	OCDD-13C	4.00	33
2,3,4,6,7,8-HxCDF	-----	2.3	0.73	JI			
1,2,3,7,8,9-HxCDF	ND	-----	0.75		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	22	-----	0.73		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.3		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.7	-----	0.76	J			
1,2,3,7,8,9-HxCDD	1.5	-----	1.0	J			
Total HxCDD	40	-----	0.76				
1,2,3,4,6,7,8-HpCDF	5.3	-----	0.61		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.83		Equivalence: 3.9 ng/Kg		
Total HpCDF	16	-----	0.61		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	23	-----	0.51				
Total HpCDD	48	-----	0.51				
OCDF	14	-----	1.9				
OCDD	250	-----	1.6				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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I = Isotope ratio out of specification

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-4-0.5-1.0		
Lab Sample ID	10731750011		
Filename	E250506A_04		
Injected By	JF		
Total Amount Extracted	13.8 g	Matrix	SOLID
% Moisture	9.8	Dilution	NA
Dry Weight Extracted	12.4 g	Collected	04/16/2025 10:55
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506A_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/06/2025 04:20

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.5	-----	0.21		2,3,7,8-TCDF-13C	2.00	47
Total TCDF	25	-----	0.21		2,3,7,8-TCDD-13C	2.00	48
					1,2,3,7,8-PeCDF-13C	2.00	31
2,3,7,8-TCDD	0.66	-----	0.20	J	2,3,4,7,8-PeCDF-13C	2.00	31
Total TCDD	10	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	39
					1,2,3,4,7,8-HxCDF-13C	2.00	46
1,2,3,7,8-PeCDF	2.8	-----	0.50	J	1,2,3,6,7,8-HxCDF-13C	2.00	48
2,3,4,7,8-PeCDF	7.1	-----	0.86	A	2,3,4,6,7,8-HxCDF-13C	2.00	41
Total PeCDF	180	-----	0.50		1,2,3,7,8,9-HxCDF-13C	2.00	40
					1,2,3,4,7,8-HxCDD-13C	2.00	40
1,2,3,7,8-PeCDD	7.8	-----	0.66		1,2,3,6,7,8-HxCDD-13C	2.00	46
Total PeCDD	44	-----	0.66		1,2,3,4,6,7,8-HpCDF-13C	2.00	38
					1,2,3,4,7,8,9-HpCDF-13C	2.00	36
1,2,3,4,7,8-HxCDF	19	-----	0.77		1,2,3,4,6,7,8-HpCDD-13C	2.00	36
1,2,3,6,7,8-HxCDF	12	-----	0.82		OCDD-13C	4.00	23
2,3,4,6,7,8-HxCDF	29	-----	0.72				
1,2,3,7,8,9-HxCDF	7.1	-----	0.74		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	760	-----	0.72		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	19	-----	1.3		2,3,7,8-TCDD-37Cl4	0.20	53
1,2,3,6,7,8-HxCDD	110	-----	0.75				
1,2,3,7,8,9-HxCDD	48	-----	1.0				
Total HxCDD	800	-----	0.75				
1,2,3,4,6,7,8-HpCDF	430	-----	2.6	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	29	-----	4.1	A	Equivalence: 61 ng/Kg		
Total HpCDF	1500	-----	2.6		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1700	-----	11	A			
Total HpCDD	3200	-----	11				
OCDF	970	-----	1.8				
OCDD	13000	-----	2.3	A			

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-4-1.5-2.5		
Lab Sample ID	10731750012		
Filename	E250506A_05		
Injected By	JF		
Total Amount Extracted	12.5 g	Matrix	SOLID
% Moisture	11.6	Dilution	NA
Dry Weight Extracted	11.1 g	Collected	04/16/2025 10:55
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506A_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/06/2025 05:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.90	0.30	IA	2,3,7,8-TCDF-13C	2.00	60
Total TCDF	7.3	-----	0.30		2,3,7,8-TCDD-13C	2.00	59
					1,2,3,7,8-PeCDF-13C	2.00	35
2,3,7,8-TCDD	ND	-----	0.23		2,3,4,7,8-PeCDF-13C	2.00	34
Total TCDD	3.3	-----	0.23		1,2,3,7,8-PeCDD-13C	2.00	44
					1,2,3,4,7,8-HxCDF-13C	2.00	53
1,2,3,7,8-PeCDF	-----	1.6	0.56	JI	1,2,3,6,7,8-HxCDF-13C	2.00	61
2,3,4,7,8-PeCDF	4.9	-----	0.85		2,3,4,6,7,8-HxCDF-13C	2.00	50
Total PeCDF	83	-----	0.56		1,2,3,7,8,9-HxCDF-13C	2.00	49
					1,2,3,4,7,8-HxCDD-13C	2.00	48
1,2,3,7,8-PeCDD	-----	2.0	0.74	JI	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	9.8	-----	0.74		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8,9-HpCDF-13C	2.00	45
1,2,3,4,7,8-HxCDF	7.7	-----	2.3	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	3.9	-----	3.5	JA	OCDD-13C	4.00	27
2,3,4,6,7,8-HxCDF	13	-----	4.1	A			
1,2,3,7,8,9-HxCDF	ND	-----	5.2	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	280	-----	2.3		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	3.8	1.5	JI	2,3,7,8-TCDD-37Cl4	0.20	64
1,2,3,6,7,8-HxCDD	35	-----	0.84				
1,2,3,7,8,9-HxCDD	-----	15	1.1	I			
Total HxCDD	270	-----	0.84				
1,2,3,4,6,7,8-HpCDF	170	-----	3.1	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.9	A	Equivalence: 22 ng/Kg		
Total HpCDF	440	-----	3.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	700	-----	1.8	A			
Total HpCDD	1400	-----	1.8				
OCDF	230	-----	4.3	A			
OCDD	7600	-----	17	A			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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J = Estimated value
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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-5-1.0-1.5		
Lab Sample ID	10731750013		
Filename	E250506A_06		
Injected By	JF		
Total Amount Extracted	13.0 g	Matrix	SOLID
% Moisture	7.1	Dilution	NA
Dry Weight Extracted	12.1 g	Collected	04/16/2025 11:15
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506A_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/06/2025 05:57

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.22		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	-----	0.22		2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	46
2,3,7,8-TCDD	ND	-----	0.21		2,3,4,7,8-PeCDF-13C	2.00	46
Total TCDD	ND	-----	0.21		1,2,3,7,8-PeCDD-13C	2.00	57
					1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	-----	0.51		1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	-----	0.77		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	-----	0.51		1,2,3,7,8,9-HxCDF-13C	2.00	62
					1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	-----	0.68		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.68		1,2,3,4,6,7,8-HpCDF-13C	2.00	64
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	-----	0.79		1,2,3,4,6,7,8-HpCDD-13C	2.00	61
1,2,3,6,7,8-HxCDF	ND	-----	0.84		OCDD-13C	4.00	41
2,3,4,6,7,8-HxCDF	ND	-----	0.74				
1,2,3,7,8,9-HxCDF	ND	-----	0.76		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.74	-----	0.74	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.3		2,3,7,8-TCDD-37Cl4	0.20	66
1,2,3,6,7,8-HxCDD	ND	-----	0.77				
1,2,3,7,8,9-HxCDD	ND	-----	1.0				
Total HxCDD	1.2	-----	0.77	J			
1,2,3,4,6,7,8-HpCDF	-----	2.8	1.2	JIA	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.9	A	Equivalence: 0.31 ng/Kg		
Total HpCDF	ND	-----	1.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	14	-----	1.3	A			
Total HpCDD	27	-----	1.3				
OCDF	16	-----	2.7	A			
OCDD	450	-----	5.0	A			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-5-2.0-3.0		
Lab Sample ID	10731750014		
Filename	E250506C_11		
Injected By	JF		
Total Amount Extracted	13.1 g	Matrix	SOLID
% Moisture	19.7	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	04/16/2025 11:15
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506C_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/07/2025 01:59

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.25		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	-----	0.25		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	-----	0.24		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	0.25	-----	0.24	J	1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	-----	0.59		1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	ND	-----	0.90		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	-----	0.59		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	-----	0.79		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	0.79		1,2,3,4,6,7,8-HpCDF-13C	2.00	85
					1,2,3,4,7,8,9-HpCDF-13C	2.00	91
1,2,3,4,7,8-HxCDF	ND	-----	0.91		1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	ND	-----	0.97		OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	0.87	-----	0.85	J			
1,2,3,7,8,9-HxCDF	1.5	-----	0.88	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.3	-----	0.85	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.5		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	1.4	-----	0.89	J			
1,2,3,7,8,9-HxCDD	1.5	-----	1.2	J			
Total HxCDD	2.9	-----	0.89	J			
1,2,3,4,6,7,8-HpCDF	1.7	-----	0.71	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.6	-----	0.97	J	Equivalence: 0.60 ng/Kg		
Total HpCDF	4.2	-----	0.71	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	3.5	-----	0.59	J			
Total HpCDD	3.5	-----	0.59	J			
OCDF	2.8	-----	2.2	J			
OCDD	26	-----	1.9				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-6-0.5-1.0		
Lab Sample ID	10731750015		
Filename	L250508A_16		
Injected By	SMT		
Total Amount Extracted	13.2 g	Matrix	SOLID
% Moisture	5.0	Dilution	NA
Dry Weight Extracted	12.5 g	Collected	04/16/2025 12:05
ICAL ID	L250217	Received	04/22/2025 08:50
CCal Filename(s)	L250508A_03	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/08/2025 20:15

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	4.3	-----	0.49	A	2,3,7,8-TCDF-13C	2.00	66	
Total TCDF	15	-----	0.49		2,3,7,8-TCDD-13C	2.00	65	
					1,2,3,7,8-PeCDF-13C	2.00	54	
2,3,7,8-TCDD	ND	-----	0.31	A	2,3,4,7,8-PeCDF-13C	2.00	52	
Total TCDD	8.8	-----	0.31		1,2,3,7,8-PeCDD-13C	2.00	55	
					1,2,3,4,7,8-HxCDF-13C	2.00	66	
1,2,3,7,8-PeCDF	8.7	-----	0.53	A	1,2,3,6,7,8-HxCDF-13C	2.00	64	
2,3,4,7,8-PeCDF	19	-----	0.75		2,3,4,6,7,8-HxCDF-13C	2.00	51	
Total PeCDF	200	-----	0.53		1,2,3,7,8,9-HxCDF-13C	2.00	52	
					1,2,3,4,7,8-HxCDD-13C	2.00	64	
1,2,3,7,8-PeCDD	4.3	-----	0.66		1,2,3,6,7,8-HxCDD-13C	2.00	61	
Total PeCDD	33	-----	0.66		1,2,3,4,6,7,8-HpCDF-13C	2.00	34	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	22	R
1,2,3,4,7,8-HxCDF	20	-----	0.76		1,2,3,4,6,7,8-HpCDD-13C	2.00	32	
1,2,3,6,7,8-HxCDF	13	-----	0.81		OCDD-13C	4.00	21	
2,3,4,6,7,8-HxCDF	26	-----	0.71					
1,2,3,7,8,9-HxCDF	14	-----	0.73		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	490	-----	0.71		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	10	-----	1.3		2,3,7,8-TCDD-37Cl4	0.20	68	
1,2,3,6,7,8-HxCDD	110	-----	0.74					
1,2,3,7,8,9-HxCDD	24	-----	0.99					
Total HxCDD	520	-----	0.74					
1,2,3,4,6,7,8-HpCDF	510	-----	1.1	A	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	25	-----	2.0	A	Equivalence: 86 ng/Kg			
Total HpCDF	1600	-----	1.1		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	3200	-----	0.76	A				
Total HpCDD	5800	-----	0.76					
OCDF	1800	-----	1.8					
OCDD	49000	-----	1.7	EA				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
A = Reporting Limit based on signal to noise (EDL)
R = Recovery outside target range
E = Exceeds calibration range

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-6-1.5-2.5		
Lab Sample ID	10731750016		
Filename	E250506C_12		
Injected By	JF		
Total Amount Extracted	15.1 g	Matrix	SOLID
% Moisture	21.6	Dilution	NA
Dry Weight Extracted	11.8 g	Collected	04/16/2025 12:05
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506C_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/07/2025 02:47

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.6	-----	0.22		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	44	-----	0.22		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	61
2,3,7,8-TCDD	0.76	-----	0.21	J	2,3,4,7,8-PeCDF-13C	2.00	65
Total TCDD	32	-----	0.21		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	59
1,2,3,7,8-PeCDF	4.5	-----	0.53		1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	12	-----	0.79		2,3,4,6,7,8-HxCDF-13C	2.00	58
Total PeCDF	200	-----	0.53		1,2,3,7,8,9-HxCDF-13C	2.00	64
					1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	6.1	-----	0.70		1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	86	-----	0.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	-----	59	0.81	P	1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	18	-----	0.86		OCDD-13C	4.00	77
2,3,4,6,7,8-HxCDF	43	-----	0.76				
1,2,3,7,8,9-HxCDF	13	-----	0.78		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1100	-----	0.76		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	35	-----	1.4		2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	160	-----	0.79				
1,2,3,7,8,9-HxCDD	54	-----	1.0				
Total HxCDD	870	-----	0.79				
1,2,3,4,6,7,8-HpCDF	960	-----	1.2	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	110	-----	1.6	A	Equivalence: 180 ng/Kg		
Total HpCDF	4200	-----	1.2	E	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	7700	-----	0.53	E			
Total HpCDD	13000	-----	0.53	E			
OCDF	4000	-----	1.9				
OCDD	130000	-----	34	EDN2			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
P = PCDE Interference
E = Exceeds calibration range
D = Result obtained from analysis of diluted sample
Nn = Value obtained from additional analysis

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Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-7-0.25-0.75		
Lab Sample ID	10731750017		
Filename	L250508A_17		
Injected By	SMT		
Total Amount Extracted	11.8 g	Matrix	SOLID
% Moisture	10.1	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	04/16/2025 12:57
ICAL ID	L250217	Received	04/22/2025 08:50
CCal Filename(s)	L250508A_03	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/08/2025 21:01

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	4.7	-----	0.30	A	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	100	-----	0.30		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	1.4	-----	0.34	A	2,3,4,7,8-PeCDF-13C	2.00	58
Total TCDD	17	-----	0.34		1,2,3,7,8-PeCDD-13C	2.00	63
					1,2,3,4,7,8-HxCDF-13C	2.00	61
1,2,3,7,8-PeCDF	6.9	-----	0.59		1,2,3,6,7,8-HxCDF-13C	2.00	61
2,3,4,7,8-PeCDF	15	-----	0.89		2,3,4,6,7,8-HxCDF-13C	2.00	55
Total PeCDF	470	-----	0.59		1,2,3,7,8,9-HxCDF-13C	2.00	52
					1,2,3,4,7,8-HxCDD-13C	2.00	56
1,2,3,7,8-PeCDD	14	-----	0.78		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	110	-----	0.78		1,2,3,4,6,7,8-HpCDF-13C	2.00	37
					1,2,3,4,7,8,9-HpCDF-13C	2.00	33
1,2,3,4,7,8-HxCDF	8.9	-----	0.91		1,2,3,4,6,7,8-HpCDD-13C	2.00	35
1,2,3,6,7,8-HxCDF	34	-----	0.96		OCDD-13C	4.00	24
2,3,4,6,7,8-HxCDF	52	-----	0.90	A			
1,2,3,7,8,9-HxCDF	6.7	-----	1.2	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1200	-----	0.90		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	19	-----	1.5		2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	210	-----	0.88				
1,2,3,7,8,9-HxCDD	84	-----	1.2				
Total HxCDD	1600	-----	0.88				
1,2,3,4,6,7,8-HpCDF	540	-----	1.3	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	21	-----	1.8	A	Equivalence: 90 ng/Kg		
Total HpCDF	1300	-----	1.3		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2000	-----	1.1	A			
Total HpCDD	4100	-----	1.1				
OCDF	560	-----	2.5	A			
OCDD	9200	-----	2.3	A			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
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NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-7-1.0-1.5		
Lab Sample ID	10731750018		
Filename	E250506C_13		
Injected By	JF		
Total Amount Extracted	11.9 g	Matrix	SOLID
% Moisture	6.2	Dilution	NA
Dry Weight Extracted	11.1 g	Collected	04/16/2025 12:57
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506C_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/07/2025 03:36

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.24		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	2.6	-----	0.24		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	-----	0.23		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	0.26	-----	0.23	J	1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	-----	0.56		1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	0.85	-----	0.84	J	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	6.9	-----	0.56		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	0.74		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	0.74		1,2,3,4,6,7,8-HpCDF-13C	2.00	84
					1,2,3,4,7,8,9-HpCDF-13C	2.00	90
1,2,3,4,7,8-HxCDF	1.8	-----	0.86	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	-----	0.92		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	2.0	-----	0.80	J			
1,2,3,7,8,9-HxCDF	1.9	-----	0.83	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	21	-----	0.80		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.4		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	2.8	-----	0.84	J			
1,2,3,7,8,9-HxCDD	1.5	-----	1.1	J			
Total HxCDD	10.0	-----	0.84				
1,2,3,4,6,7,8-HpCDF	8.6	-----	0.67		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.8	-----	0.92	J	Equivalence: 1.9 ng/Kg		
Total HpCDF	28	-----	0.67		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	33	-----	0.79	A			
Total HpCDD	60	-----	0.79				
OCDF	27	-----	2.1				
OCDD	740	-----	1.8				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
A = Reporting Limit based on signal to noise (EDL)

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Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-8-0.5-1.0		
Lab Sample ID	10731750019		
Filename	E250506C_14		
Injected By	JF		
Total Amount Extracted	12.3 g	Matrix	SOLID
% Moisture	6.4	Dilution	NA
Dry Weight Extracted	11.5 g	Collected	04/16/2025 13:20
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506C_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/07/2025 04:24

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.29	-----	0.23	J	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	3.6	-----	0.23		2,3,7,8-TCDD-13C	2.00	72
					1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	ND	-----	0.22		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	1.2	-----	0.22		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	65
1,2,3,7,8-PeCDF	ND	-----	0.54		1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	ND	-----	0.81		2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	15	-----	0.54		1,2,3,7,8,9-HxCDF-13C	2.00	66
					1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	-----	0.72		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.72		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	2.5	-----	0.83	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	1.6	-----	0.88	J	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	2.4	-----	0.77	J			
1,2,3,7,8,9-HxCDF	1.1	-----	0.80	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	38	-----	0.77		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.4		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	3.9	-----	0.81	J			
1,2,3,7,8,9-HxCDD	2.3	-----	1.1	J			
Total HxCDD	19	-----	0.81				
1,2,3,4,6,7,8-HpCDF	15	-----	0.65		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	2.1	-----	0.88	J	Equivalence: 2.1 ng/Kg		
Total HpCDF	42	-----	0.65		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	41	-----	0.54				
Total HpCDD	75	-----	0.54				
OCDF	17	-----	2.0				
OCDD	260	-----	1.7				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value

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Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-8-1.5-2.5		
Lab Sample ID	10731750020		
Filename	E250506C_15		
Injected By	JF		
Total Amount Extracted	14.2 g	Matrix	SOLID
% Moisture	6.4	Dilution	NA
Dry Weight Extracted	13.3 g	Collected	04/16/2025 13:20
ICAL ID	E250319	Received	04/22/2025 08:50
CCal Filename(s)	E250506C_01	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/07/2025 05:12

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.20		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	2.5	-----	0.20		2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	60
2,3,7,8-TCDD	ND	-----	0.19		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	0.36	-----	0.19	J	1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	70
1,2,3,7,8-PeCDF	ND	-----	0.47		1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	ND	-----	0.70		2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	1.7	-----	0.47	J	1,2,3,7,8,9-HxCDF-13C	2.00	59
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	0.62		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.62		1,2,3,4,6,7,8-HpCDF-13C	2.00	85
					1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	0.73	-----	0.72	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	0.81	-----	0.77	J	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	1.2	-----	0.67	J			
1,2,3,7,8,9-HxCDF	1.1	-----	0.69	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	6.0	-----	0.67		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.2		2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	1.3	-----	0.70	J			
1,2,3,7,8,9-HxCDD	1.1	-----	0.93	J			
Total HxCDD	3.6	-----	0.70	J			
1,2,3,4,6,7,8-HpCDF	2.8	-----	0.56	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.7	-----	0.77	J	Equivalence: 0.79 ng/Kg		
Total HpCDF	8.1	-----	0.56		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	9.4	-----	0.47				
Total HpCDD	16	-----	0.47				
OCDF	6.2	-----	1.7	J			
OCDD	77	-----	1.5				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-9-1.0-1.5		
Lab Sample ID	10731750022		
Filename	L250508A_14		
Injected By	SMT		
Total Amount Extracted	12.3 g	Matrix	SOLID
% Moisture	6.1	Dilution	NA
Dry Weight Extracted	11.6 g	Collected	04/16/2025 13:45
ICAL ID	L250217	Received	04/22/2025 08:50
CCal Filename(s)	L250508A_03	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/08/2025 18:43

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.23		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	-----	0.23		2,3,7,8-TCDD-13C	2.00	68
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	0.22		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	0.22		1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	ND	-----	0.54		1,2,3,6,7,8-HxCDF-13C	2.00	65
2,3,4,7,8-PeCDF	ND	-----	0.81		2,3,4,6,7,8-HxCDF-13C	2.00	62
Total PeCDF	ND	-----	0.54		1,2,3,7,8,9-HxCDF-13C	2.00	62
					1,2,3,4,7,8-HxCDD-13C	2.00	61
1,2,3,7,8-PeCDD	ND	-----	0.71		1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	-----	0.71		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	ND	-----	0.83		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	-----	0.88		OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	ND	-----	0.77				
1,2,3,7,8,9-HxCDF	ND	-----	0.80		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.77		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.4		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	0.81				
1,2,3,7,8,9-HxCDD	ND	-----	1.1				
Total HxCDD	ND	-----	0.81				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.65		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.88		Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	-----	0.65		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1.2	-----	0.54	J			
Total HpCDD	2.2	-----	0.54	J			
OCDF	ND	-----	2.0				
OCDD	16	-----	1.7				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value

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Method 1613B Sample Analysis Results

Client - SLR International Corporation

Client's Sample ID	SSB-9-2.0-3.0		
Lab Sample ID	10731750023		
Filename	L250508A_15		
Injected By	SMT		
Total Amount Extracted	13.7 g	Matrix	SOLID
% Moisture	4.8	Dilution	NA
Dry Weight Extracted	13.1 g	Collected	04/16/2025 13:45
ICAL ID	L250217	Received	04/22/2025 08:50
CCal Filename(s)	L250508A_03	Extracted	04/23/2025 12:00
Method Blank ID	BLANK-118648	Analyzed	05/08/2025 19:29

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.20		2,3,7,8-TCDF-13C	2.00	77
Total TCDF	ND	-----	0.20		2,3,7,8-TCDD-13C	2.00	70
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	-----	0.19		2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	ND	-----	0.19		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	76
1,2,3,7,8-PeCDF	ND	-----	0.47		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	0.72		2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	-----	0.47		1,2,3,7,8,9-HxCDF-13C	2.00	67
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	ND	-----	0.63		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	ND	-----	0.63		1,2,3,4,6,7,8-HpCDF-13C	2.00	85
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	-----	0.73		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.78		OCDD-13C	4.00	87
2,3,4,6,7,8-HxCDF	ND	-----	0.68				
1,2,3,7,8,9-HxCDF	ND	-----	0.70		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.68		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.2		2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	-----	0.71				
1,2,3,7,8,9-HxCDD	ND	-----	0.95				
Total HxCDD	ND	-----	0.71				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.57		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.78		Equivalence: 0.015 ng/Kg		
Total HpCDF	ND	-----	0.57		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	1.0	0.48	JI			
Total HpCDD	1.4	-----	0.48	J			
OCDF	ND	-----	1.8				
OCDD	16	-----	1.5				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
I = Isotope ratio out of specification

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKNU		
Lab Sample ID	BLANK-118648	Matrix	Solid
Filename	F250427B_07	Dilution	NA
Total Amount Extracted	10.5 g	Extracted	04/23/2025 12:00
ICAL ID	F250409	Analyzed	04/28/2025 04:10
CCal Filename(s)	F250427A_18	Injected By	JF

Native Isomers	Conc ng/Kg	EMPC ng/Kg	MDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.25	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	0.25	2,3,7,8-TCDD-13C	2.00	71
				1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	0.24	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	-----	0.24	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	ND	-----	0.59	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	0.90	2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	-----	0.59	1,2,3,7,8,9-HxCDF-13C	2.00	70
				1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	0.79	1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.79	1,2,3,4,6,7,8-HpCDF-13C	2.00	82
				1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.92	1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	ND	-----	0.97	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	0.85			
1,2,3,7,8,9-HxCDF	ND	-----	0.88	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.85	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.5	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	ND	-----	0.89			
1,2,3,7,8,9-HxCDD	ND	-----	1.2			
Total HxCDD	ND	-----	0.89			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.71	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.97	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.71	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.60			
Total HpCDD	ND	-----	0.60			
OCDF	ND	-----	2.2			
OCDD	ND	-----	1.9			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-118649		
Filename	F250427B_03	Matrix	Solid
Total Amount Extracted	10.3 g	Dilution	NA
ICAL ID	F250409	Extracted	04/23/2025 12:00
CCal Filename	F250427A_18	Analyzed	04/28/2025 01:08
Method Blank ID	BLANK-118648	Injected By	JF

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10	7.5	15.8	104
2,3,7,8-TCDD	10	10	6.7	15.8	102
1,2,3,7,8-PeCDF	50	53	40.0	67.0	106
2,3,4,7,8-PeCDF	50	49	34.0	80.0	98
1,2,3,7,8-PeCDD	50	46	35.0	71.0	91
1,2,3,4,7,8-HxCDF	50	50	36.0	67.0	100
1,2,3,6,7,8-HxCDF	50	49	42.0	65.0	97
2,3,4,6,7,8-HxCDF	50	50	35.0	78.0	101
1,2,3,7,8,9-HxCDF	50	47	39.0	65.0	94
1,2,3,4,7,8-HxCDD	50	56	35.0	82.0	111
1,2,3,6,7,8-HxCDD	50	48	38.0	67.0	96
1,2,3,7,8,9-HxCDD	50	47	32.0	81.0	94
1,2,3,4,6,7,8-HpCDF	50	47	41.0	61.0	94
1,2,3,4,7,8,9-HpCDF	50	42	39.0	69.0	84
1,2,3,4,6,7,8-HpCDD	50	48	35.0	70.0	96
OCDF	100	110	63.0	170.0	108
OCDD	100	110	78.0	144.0	113
2,3,7,8-TCDD-37Cl4	10	7.4	3.1	19.1	74
2,3,7,8-TCDF-13C	100	70	22.0	152.0	70
2,3,7,8-TCDD-13C	100	65	20.0	175.0	65
1,2,3,7,8-PeCDF-13C	100	67	21.0	192.0	67
2,3,4,7,8-PeCDF-13C	100	76	13.0	328.0	76
1,2,3,7,8-PeCDD-13C	100	80	21.0	227.0	80
1,2,3,4,7,8-HxCDF-13C	100	76	19.0	202.0	76
1,2,3,6,7,8-HxCDF-13C	100	79	21.0	159.0	79
2,3,4,6,7,8-HxCDF-13C	100	74	22.0	176.0	74
1,2,3,7,8,9-HxCDF-13C	100	65	17.0	205.0	65
1,2,3,4,7,8-HxCDD-13C	100	67	21.0	193.0	67
1,2,3,6,7,8-HxCDD-13C	100	86	25.0	163.0	86
1,2,3,4,6,7,8-HpCDF-13C	100	79	21.0	158.0	79
1,2,3,4,7,8,9-HpCDF-13C	100	87	20.0	186.0	87
1,2,3,4,6,7,8-HpCDD-13C	100	82	26.0	166.0	82
OCDD-13C	200	160	26.0	397.0	80

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-118666		
Filename	F250427B_04	Matrix	Solid
Total Amount Extracted	10.2 g	Dilution	NA
ICAL ID	F250409	Extracted	04/23/2025 12:00
CCal Filename	F250427A_18	Analyzed	04/28/2025 01:54
Method Blank ID	BLANK-118648	Injected By	JF

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10	7.5	15.8	100
2,3,7,8-TCDD	10	10	6.7	15.8	101
1,2,3,7,8-PeCDF	50	54	40.0	67.0	108
2,3,4,7,8-PeCDF	50	50	34.0	80.0	101
1,2,3,7,8-PeCDD	50	46	35.0	71.0	91
1,2,3,4,7,8-HxCDF	50	47	36.0	67.0	94
1,2,3,6,7,8-HxCDF	50	49	42.0	65.0	98
2,3,4,6,7,8-HxCDF	50	51	35.0	78.0	101
1,2,3,7,8,9-HxCDF	50	50	39.0	65.0	100
1,2,3,4,7,8-HxCDD	50	57	35.0	82.0	114
1,2,3,6,7,8-HxCDD	50	48	38.0	67.0	96
1,2,3,7,8,9-HxCDD	50	46	32.0	81.0	92
1,2,3,4,6,7,8-HpCDF	50	52	41.0	61.0	105
1,2,3,4,7,8,9-HpCDF	50	44	39.0	69.0	89
1,2,3,4,6,7,8-HpCDD	50	49	35.0	70.0	97
OCDF	100	110	63.0	170.0	107
OCDD	100	110	78.0	144.0	114
2,3,7,8-TCDD-37Cl4	10	7.4	3.1	19.1	74
2,3,7,8-TCDF-13C	100	71	22.0	152.0	71
2,3,7,8-TCDD-13C	100	66	20.0	175.0	66
1,2,3,7,8-PeCDF-13C	100	67	21.0	192.0	67
2,3,4,7,8-PeCDF-13C	100	76	13.0	328.0	76
1,2,3,7,8-PeCDD-13C	100	81	21.0	227.0	81
1,2,3,4,7,8-HxCDF-13C	100	79	19.0	202.0	79
1,2,3,6,7,8-HxCDF-13C	100	81	21.0	159.0	81
2,3,4,6,7,8-HxCDF-13C	100	75	22.0	176.0	75
1,2,3,7,8,9-HxCDF-13C	100	71	17.0	205.0	71
1,2,3,4,7,8-HxCDD-13C	100	69	21.0	193.0	69
1,2,3,6,7,8-HxCDD-13C	100	87	25.0	163.0	87
1,2,3,4,6,7,8-HpCDF-13C	100	82	21.0	158.0	82
1,2,3,4,7,8,9-HpCDF-13C	100	86	20.0	186.0	86
1,2,3,4,6,7,8-HpCDD-13C	100	87	26.0	166.0	87
OCDD-13C	200	150	26.0	397.0	76

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client SLR International Corporation

Spike 1 ID LCS-118649 Spike 2 ID LCSD-118666
Spike 1 Filename F250427B_03 Spike 2 Filename F250427B_04

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	104	100	3.9
2,3,7,8-TCDD	102	101	1.0
1,2,3,7,8-PeCDF	106	108	1.9
2,3,4,7,8-PeCDF	98	101	3.0
1,2,3,7,8-PeCDD	91	91	0.0
1,2,3,4,7,8-HxCDF	100	94	6.2
1,2,3,6,7,8-HxCDF	97	98	1.0
2,3,4,6,7,8-HxCDF	101	101	0.0
1,2,3,7,8,9-HxCDF	94	100	6.2
1,2,3,4,7,8-HxCDD	111	114	2.7
1,2,3,6,7,8-HxCDD	96	96	0.0
1,2,3,7,8,9-HxCDD	94	92	2.2
1,2,3,4,6,7,8-HpCDF	94	105	11.1
1,2,3,4,7,8,9-HpCDF	84	89	5.8
1,2,3,4,6,7,8-HpCDD	96	97	1.0
OCDF	108	107	0.9
OCDD	113	114	0.9

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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