

SAMPLE RECEIPT FORM / CHEMICAL ANALYSIS FORM

FILE #: PR242287

CLIENT: Liberty Lake Sewer and Water Dist.
22510 E. Mission Avenue
Liberty Lake, WA 99019
USA

Phone: (509) 370-1453
Email: gsattler@libertylake.org

RECEIVED BY: C. Jones
CONDITION: Okay, 24.1°C

DATE/TIME: August 19, 2024 (1:25 p.m.)

# of Containers	Sample Type	Sample (Client Codes)	Lab Codes	Test Requested
1	Water	Inf Comp #1	PR242287	209 PCB
1	Water	Inf Comp #2	PR242288	PBDE
1	Water	Eff Comp #1	PR242289	209 PCB
1	Water	Eff Comp #2	PR242290	PBDE

STORAGE: Stored at 4°C.

ANALYTES: HRGC/HRMS analysis for polychlorinated biphenyls (209 congener PCB), and polybrominated diphenylethers (PBDE).

SPECIAL INSTRUCTIONS: None.

METHODOLOGY

Reference Method: PCB: SOP LAB02; EPA Method 1668C
PBDE: SOP LAB06; EPA Method 1614

Data summarized in Data Report attached.

Report sent to: Greg Sattler

Date: September 12, 2024

Comments: Results relate only to samples as received.

The following flags or qualifiers have been used with this data set:

B: sample concentration is <5x concentration found in the blank

U: not detected at the concentration listed

J: sample concentration is less than lowest point on calibration curve

N: not detected due to incorrect ion ratio. Concentration report is EMPC.

David Hope P.Chem., CEO

DATA REPORT

Client: Liberty Lake Sewer and Water
Client ID: Dist.
Field ID: Inf Comp #1
PRL ID: PR242287

Contact: Greg Sattler
Date Extracted: 8/23/2024
Date Analysed: 8/28/2024
HRMS File: FS08282407

IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2-MoCB	PCB-001	2051-60-7	21.0	0.40		12
3-MoCB	PCB-002	2051-61-8	6.65	0.32	NJ	12
4-MoCB	PCB-003	2051-62-9	17.2	0.43		12
2,6-DiCB	PCB-010	33146-45-1	61.7	1.16	NJ	12
2,2'-DiCB	PCB-004	13029-08-8	67.2	1.59		12
2,5-DiCB	PCB-009	34883-39-1	1.28	1.28	UJ	12
2,4-DiCB	PCB-007	33284-50-3	120	1.19		12
2,3'-DiCB	PCB-006	25569-80-6	14.7	1.23		12
2,3/2,4'-DiCB	PCB-005/008		31.0	1.19		12
3,5-DiCB	PCB-014	34883-41-5	5.62	1.19	NJ	12
3,3'-DiCB	PCB-011	2050-67-1	270	0.97		12
3,4/3,4'-DiCB	PCB-012/013		1.17	1.17	UJ	12
4,4'-DiCB	PCB-015	2050-68-2	1.05	1.05	UJ	12
2,2',6-TrCB	PCB-019	38444-73-4	2.87	2.87	UJ	12
2,4,6-TrCB	PCB-030	35693-92-6	3.72	3.72	UJ	12
2,2',5-TrCB	PCB-018	37680-65-2	78.6	4.95		12
2,2',4-TrCB	PCB-017	37680-66-3	30.2	4.91		12
2,3,6-TrCB	PCB-024	55702-45-9	4.38	4.38	UJ	12
2,3',6-TrCB	PCB-027	38444-76-7	7.58	3.17	NJ	12
2,4',6-TrCB	PCB-032	38444-77-8	29.3	3.92	NJ	12
2,2',3-TrCB	PCB-016	38444-78-9	5.47	5.47	UJ	12
2,3,5-TrCB	PCB-023	55720-44-0	1.32	1.32	UJ	12
2,3',5'-TrCB	PCB-034	37680-68-5	1.37	1.37	UJ	12
2,4,5-TrCB	PCB-029	15862-07-4	0.97	0.97	UJ	12
2,3',5-TrCB	PCB-026	38444-81-4	15.2	1.09		12
2,3',4-TrCB	PCB-025	55712-37-3	9.73	1.21	J	12
2,4',5-TrCB	PCB-031	16606-02-3	46.0	1.10		12
2,4,4'-TrCB	PCB-028	7012-37-5	55.8	1.30		12
2,3,4-TrCB	PCB-021	55702-46-0	1.52	1.52	UJ	12
	PCB-020/033		44.8	1.38		12
2,3,4'-TrCB	PCB-022	38444-85-8	31.2	1.54		12
3,3',5-TrCB	PCB-036	38444-87-0	1.29	1.29	UJ	12
3,4',5-TrCB	PCB-039	38444-88-1	1.39	1.39	UJ	12
3,4,5-TrCB	PCB-038	53555-66-1	1.59	1.59	UJ	12
3,3',4-TrCB	PCB-035	37680-69-6	7.82	1.48	NJ	12
3,4,4'-TrCB	PCB-037	38444-90-5	2.10	2.10	UJ	12
2,2',6,6'-TeCB	PCB-054	15968-05-5	0.40	0.40	UJ	12
2,2',4,6-TeCB	PCB-050	62796-65-0	0.71	0.71	UJ	12
2,2',5,6'-TeCB	PCB-053	41464-41-9	7.41	0.75	NJ	12
2,2',4,6'-TeCB	PCB-051	68194-04-7	29.0	0.70		12
2,2',3,6-TeCB	PCB-045	70362-45-7	7.89	0.83	J	12
2,2',3,6'-TeCB	PCB-046	41464-47-5	5.33	0.83	NJ	12
	PCB-052/069		107	0.64		12
2,3',5',6-TeCB	PCB-073	74338-23-1	0.53	0.53	UJ	12
	PCB-043/049		39.1	0.69		12
	PCB-065/075		0.72	0.72	UJ	12
	PCB-047/048		72.2	0.53		12
2,3,4,6-TeCB	PCB-062	54230-22-7	0.55	0.55	UJ	12
2,2',3,5'-TeCB	PCB-044	41464-39-5	78.1	1.04		12
2,3,3',6-TeCB	PCB-059	74472-33-6	0.50	0.50	UJ	12
2,2',3,4'-TeCB	PCB-042	36559-22-5	16.9	0.79		12
2,3',5,5'-TeCB	PCB-072	41464-42-0	23.0	0.63		12

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IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
	PCB-064/071		13.9	0.52		12
2,2',3,4-TeCB	PCB-041	52663-59-9	0.71	0.71	UJ	12
2,3',4,5'-TeCB	PCB-068	73575-52-7	10.4	0.51	J	12
2,2',3,3'-TeCB	PCB-040	38444-93-8	7.41	0.98	J	12
2,3,3',5-TeCB	PCB-057	70424-67-8	0.55	0.55	UJ	12
2,3',4,5-TeCB	PCB-067	73575-53-8	0.52	0.52	UJ	12
2,3,4',5-TeCB	PCB-058/063	74472-34-7	0.52	0.52	UJ	12
2,3,4,5'-TeCB	PCB-061	33284-53-6	0.67	0.67	UJ	12
2,4,4',5-TeCB	PCB-074	32690-93-0	28.9	0.54		12
2,3',4',5-TeCB	PCB-070	32598-11-1	86.3	0.58		12
2,3,3',4-TeCB	PCB-055	74338-24-2	0.50	0.50	UJ	12
	PCB-066/080		37.8	0.48		12
2,3',4',5'-TeCB	PCB-076	70362-48-0	0.78	0.59	NJ	12
2,3,4,4'-TeCB	PCB-060	33025-41-1	40.0	0.56		12
2,3,3',4'-TeCB	PCB-056	41464-43-1	0.47	0.47	UJ	12
3,3',4,5'-TeCB	PCB-079	41464-48-6	0.52	0.52	UJ	12
3,3',4,5-TeCB	PCB-078	70362-49-1	0.59	0.59	UJ	12
3,4,4',5-TeCB	PCB-081	70362-50-4	0.59	0.59	UJ	12
3,3',4,4'-TeCB	PCB-077	32598-13-3	3.50	0.58	J	12
2,2',4,6,6'-PeCB	PCB-104	56558-16-8	1.45	1.24	NJ	12
2,2',3,6,6'-PeCB	PCB-096	73575-54-9	2.50	2.50	UJ	12
2,2',4,5',6-PeCB	PCB-103	60145-21-3	2.97	2.97	UJ	12
2,2',4,4',6-PeCB	PCB-100	39485-83-1	2.70	2.7	UJ	12
2,2',3,5,6'-PeCB	PCB-094	73575-55-0	3.24	3.24	UJ	12
	PCB-093/095/098/102		162	3.06		12
2,2',3,4,6-PeCB	PCB-088	55215-17-3	3.52	3.52	UJ	12
2,2',3,4',6-PeCB	PCB-091	68194-05-8	26.6	3.12	NJ	12
2,3',4,5',6-PeCB	PCB-121	56558-18-0	2.83	2.01	NJ	12
	PCB-084/092		3.34	3.34	UJ	12
2,2',3,4,6'-PeCB	PCB-089	73575-57-2	3.61	3.61	UJ	12
2,2',3,4',5-PeCB	PCB-090	68194-07-0	3.44	3.44	UJ	12
2,2',4,5,5'-PeCB	PCB-101	37680-73-2	106	1.92		12
2,3,3',5',6-PeCB	PCB-113	68194-10-5	2.56	2.56	UJ	12
2,2',4,4',5-PeCB	PCB-099	38380-01-7	2.52	2.52	UJ	12
	PCB-112/119		2.42	2.15	NJ	12
2,2',3,3',5-PeCB	PCB-083	60145-20-2	4.50	4.5	UJ	12
2,3,3',4,6-PeCB	PCB-109	74472-35-8	2.01	2.01	UJ	12
	PCB-086-097/117		59.7	2.90		12
	PCB-116/125		1.74	1.74	UJ	12
	PCB-087/115		66.6	2.51		12
2,3,3',5,5'-PeCB	PCB-111	39635-32-0	2.21	2.21	UJ	12
2,2',3,4,4'-PeCB	PCB-085	65510-45-4	23.5	2.9	NJ	12
	PCB-110/120		160	2.21		12
2,2',3,3',4-PeCB	PCB-082	52663-62-4	3.33	3.33	UJ	12
2,3',4',5,5'-PeCB	PCB-124	70424-70-3	1.08	1.08	UJ	12
	PCB-107/108		2.66	0.84	NJ	12
2,3',4,4',5'-PeCB	PCB-123	65510-44-3	34.3	0.93	NJ	12
2,3,3',4,5-PeCB	PCB-106	70424-69-0	0.96	0.96	UJ	12
2,3',4,4',5-PeCB	PCB-118	31508-00-6	69.3	1.01		12
2,3,4,4',5-PeCB	PCB-114	74472-37-0	1.94	0.95	NJ	12
2,3,3',4',5'-PeCB	PCB-122	76842-07-4	1.14	1.14	UJ	12
2,3,3',4,4'-PeCB	PCB-105	32598-14-4	27.2	1.05		12

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3,3',4,5,5'-PeCB	PCB-127	39635-33-1	1.89	1.04	NJ	12
3,3',4,4',5'-PeCB	PCB-126	57465-28-8	1.13	1.13	UJ	12
2,2',4,4',6,6'-HxCB	PCB-155	33979-03-2	10.6	0.66	J	12
2,2',3,4',6,6'-HxCB	PCB-150	68194-08-1	1.23	1.23	UJ	12
2,2',3,5,6,6'-HxCB	PCB-152	68194-09-2	1.34	1.34	UJ	12
2,2',3,4,6,6'-HxCB	PCB-145	74472-40-5	1.33	1.33	UJ	12
2,2',3,3',6,6'-HxCB	PCB-136	38411-22-2	23.9	1.49		12
2,2',3,4',5,6'-HxCB	PCB-148	74472-41-6	2.89	1.64	NJ	12
2,2',4,4',5,6'-HxCB	PCB-154	60145-22-4	1.35	1.35	UJ	12
2,2',3,5,5',6'-HxCB	PCB-151	52663-63-5	30.6	1.96		12
2,2',3,3',5,6'-HxCB	PCB-135	52744-13-5	19.2	1.97	NJ	12
2,2',3,4,5',6'-HxCB	PCB-144	68194-14-9	1.94	1.94	UJ	12
2,2',3,4',5,6'-HxCB	PCB-147	68194-13-8	1.41	1.28	NJ	12
	PCB-139/149		107	1.66	NJ	12
2,2',3,4,4',6'-HxCB	PCB-140	59291-64-4	1.59	1.59	UJ	12
2,2',3,4,5,6'-HxCB	PCB-143	68194-15-0	0.85	0.85	UJ	12
2,2',3,3',5,6'-HxCB	PCB-134	52704-70-8	4.55	0.85	NJ	12
2,2',3,4,5,6'-HxCB	PCB-142	41411-61-4	1.15	1.15	UJ	12
2,2',3,3',5,5'-HxCB	PCB-133	35694-04-3	0.73	0.73	UJ	12
2,2',3,3',4,6'-HxCB	PCB-131	61798-70-7	0.78	0.78	UJ	12
2,3,3',5,5',6'-HxCB	PCB-165	74472-46-1	0.63	0.63	UJ	12
	PCB-132/146		35.0	0.71		12
2,3,3',4,5',6'-HxCB	PCB-161	74472-43-8	0.54	0.54	UJ	12
2,2',4,4',5,5'-HxCB	PCB-153	35065-27-1	92.5	0.75		12
2,3',4,4',5',6'-HxCB	PCB-168	59291-65-5	0.45	0.45	UJ	12
2,2',3,4,5,5'-HxCB	PCB-141	52712-04-6	0.67	0.67	UJ	12
2,2',3,4,4',5'-HxCB	PCB-137	35694-06-5	2.07	0.75	NJ	12
2,2',3,3',4,5'-HxCB	PCB-130	52663-66-8	0.82	0.82	UJ	12
	PCB-163/164		14.8	0.53		12
2,2',3,4,4',5'-HxCB	PCB-138	35065-28-2	55.0	0.74		12
2,3,3',4,5,6'-HxCB	PCB-160	41411-62-5	0.55	0.55	UJ	12
2,3,3',4,4',6'-HxCB	PCB-158	74472-42-7	6.20	0.45	J	12
2,2',3,3',4,5'-HxCB	PCB-129	55215-18-4	0.79	0.79	UJ	12
2,3,4,4',5,6'-HxCB	PCB-166	41411-63-6	0.54	0.54	UJ	12
2,3,3',4,5,5'-HxCB	PCB-159	39635-35-3	0.52	0.52	UJ	12
2,2',3,3',4,4'-HxCB	PCB-128	38380-07-3	11.5	0.73	J	12
2,3,3',4',5,5'-HxCB	PCB-162	39635-34-2	0.49	0.49	UJ	12
2,3',4,4',5,5'-HxCB	PCB-167	52663-72-6	0.53	0.53	UJ	12
2,3,3',4,4',5'-HxCB	PCB-156	38380-08-4	0.52	0.52	UJ	12
2,3,3',4,4',5'-HxCB	PCB-157	69782-90-7	0.49	0.49	UJ	12
3,3',4,4',5,5'-HxCB	PCB-169	32774-16-6	0.58	0.58	UJ	12
2,2',3,4',5,6,6'-HpCB	PCB-188	74487-85-7	0.42	0.42	UJ	12
2,2',3,4,4',6,6'-HpCB	PCB-184	74472-48-3	37.3	0.68		12
2,2',3,3',5,6,6'-HpCB	PCB-179	52663-64-6	14.1	0.70		12
2,2',3,3',4,6,6'-HpCB	PCB-176	52663-65-7	0.71	0.71	UJ	12
2,2',3,4,5,6,6'-HpCB	PCB-186	74472-49-4	0.73	0.73	UJ	12
2,2',3,3',5,5',6'-HpCB	PCB-178	52663-67-9	0.98	0.98	UJ	12
2,2',3,3',4,5',6'-HpCB	PCB-175	40186-70-7	1.01	1.01	UJ	12
	PCB-182/187		23.3	0.85		12
2,2',3,4,4',5',6'-HpCB	PCB-183	52663-69-1	11.9	0.89	J	12
2,2',3,4,5,5',6'-HpCB	PCB-185	52712-05-7	1.01	1.01	UJ	12
2,2',3,3',4,5,6'-HpCB	PCB-174	38411-25-5	15.8	0.93		12

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IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2,2',3,4,4',5,6-HpCB	PCB-181	74472-47-2	0.95	0.95	UJ	12
2,2',3,3',4,5',6'-HpCB	PCB-177	52663-70-4	0.96	0.96	UJ	12
2,2',3,3',4,4',6-HpCB	PCB-171	52663-71-5	0.97	0.97	UJ	12
2,2',3,3',4,5,6-HpCB	PCB-173	68194-16-1	1.00	1.00	UJ	12
2,2',3,3',4,5,5',6-HpCB	PCB-172	52663-74-8	0.95	0.95	UJ	12
2,3,3',4,5,5',6-HpCB	PCB-192	74472-51-8	0.77	0.77	UJ	12
2,2',3,4,4',5,5',6-HpCB	PCB-180	35065-29-3	37.9	1.05		12
2,3,3',4',5,5',6-HpCB	PCB-193	69782-91-8	0.56	0.56	UJ	12
2,3,3',4,4',5',6-HpCB	PCB-191	74472-50-7	0.67	0.67	UJ	12
2,2',3,3',4,4',5-HpCB	PCB-170	35065-30-6	14.2	0.89		12
2,3,3',4,4',5,6-HpCB	PCB-190	41411-64-7	0.61	0.61	UJ	12
2,3,3',4,4',5,5',6-HpCB	PCB-189	39635-31-9	0.49	0.49	UJ	12
2,2',3,3',5,5',6,6'-OoCB	PCB-202	2136-99-4	1.02	1.02	UJ	12
2,2',3,3',4,5',6,6'-OoCB	PCB-201	40186-71-8	1.49	1.49	UJ	12
2,2',3,4,4',5,6,6'-OoCB	PCB-204	74472-52-9	1.38	1.38	UJ	12
2,2',3,3',4,4',6,6'-OoCB	PCB-197	33091-17-7	1.51	1.51	UJ	12
2,2',3,3',4,5,6,6'-OoCB	PCB-200	52663-73-7	1.50	1.50	UJ	12
2,2',3,3',4,5,5',6-OoCB	PCB-198	68194-17-2	2.50	2.50	UJ	12
2,2',3,3',4,5,5',6'-OoCB	PCB-199	52663-75-9	1.71	1.71	UJ	12
2,2',3,3',4,4',5,6'-OoCB	PCB-196	42740-50-1	2.52	2.52	UJ	12
2,2',3,4,4',5,5',6-OoCB	PCB-203	52663-76-0	1.51	1.51	UJ	12
2,2',3,3',4,4',5,6-OoCB	PCB-195	52663-78-2	0.90	0.90	UJ	12
2,2',3,3',4,4',5,5'-OoCB	PCB-194	35694-08-7	0.79	0.79	UJ	12
2,3,3',4,4',5,5',6-OoCB	PCB-205	74472-53-0	0.78	0.78	UJ	12
2,2',3,3',4,5,5',6,6'-NoCB	PCB-208	52663-77-1	3.18	3.18	UJ	12
2,2',3,3',4,4',5,6,6'-NoCB	PCB-207	52663-79-3	4.18	4.18	UJ	12
2,2',3,3',4,4',5,5',6-NoCB	PCB-206	40186-72-9	5.57	5.57	UJ	12
2,2',3,3',4,4',5,5',6,6'-DeCB	PCB-209	2051-24-3	2.20	2.20	UJ	12

Homologs	# of Congeners		
Monochlorobiphenyls	3	38.2	0.32
Dichlorobiphenyls	12	503	0.97
Trichlorobiphenyls	24	312	0.97
Tetrachlorobiphenyls	42	601	0.40
Pentachlorobiphenyls	46	651	0.84
Hexachlorobiphenyls	42	280	0.45
Heptachlorobiphenyls	24	155	0.42
Octachlorobiphenyls	12	0.78	0.78
Nonachlorobiphenyls	3	3.18	3.18
Decachlorobiphenyl	1	2.20	2.20
Total PCB		2540	0.32

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IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
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Surrogate Recoveries			Acceptance	
Chemical Name	IUPAC #	%	Min	Max
¹³ C ₁₂ -2-MoCB	1L	31	5	145
¹³ C ₁₂ -4-MoCB	3L	31	5	145
¹³ C ₁₂ -2,2'-DiCB	4L	50	5	145
¹³ C ₁₂ -4,4'-DiCB	15L	52	5	145
¹³ C ₁₂ -2,2',6'-TrCB	19L	63	5	145
¹³ C ₁₂ -3,4,4'-TrCB	37L	44	5	145
¹³ C ₁₂ -2,2',6,6'-TeCB	54L	59	5	145
¹³ C ₁₂ -3,4,4',5'-TeCB	81L	53	5	145
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	53	10	145
¹³ C ₁₂ -2,2',4,6,6'-PeCB	104L	47	10	145
¹³ C ₁₂ -2',3,4,4',5'-PeCB	123L	58	10	145
¹³ C ₁₂ -2,3',4,4',5'-PeCB	118L	51	10	145
¹³ C ₁₂ -2,3,4,4',5'-PeCB	114L	55	10	145
¹³ C ₁₂ -2,3,3',4,4'-PeCB	105L	53	10	145
¹³ C ₁₂ -3,3',4,4',5'-PeCB	126L	50	10	145
¹³ C ₁₂ -2,2',4,4',6,6'-HxCB	155L	59	10	145
¹³ C ₁₂ -2,3',4,4',5,5'-HxCB	167L	46	10	145
¹³ C ₁₂ -2,3,3',4,4',5'-HxCB	156L	44	10	145
¹³ C ₁₂ -2,3,3',4,4',5'-HxCB	157L	45	10	145
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	38	10	145
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	68	10	145
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	62	10	145
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OoCB	202L	61	10	145
¹³ C ₁₂ -2,3,3',4,4',5,5',6'-OoCB	205L	48	10	145
¹³ C ₁₂ -2,2',3,3',4',5,5',6,6'-NoCB	208L	70	10	145
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6'-NoCB	206L	48	10	145
¹³ C ₁₂ -DeCB	209L	46	10	145
¹³ C ₁₂ -2,4,4'-TrCB	28L	60	5	145
¹³ C ₁₂ -2,3,3',5,5'-PeCB	111L	69	10	145
¹³ C ₁₂ -2,2',3,3',5,5',6'-HpCB	178L	81	10	145

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HRMS File: FS08282408

IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2-MoCB	PCB-001	2051-60-7	6.15	0.49	J	12
3-MoCB	PCB-002	2051-61-8	0.40	0.40	UJ	12
4-MoCB	PCB-003	2051-62-9	0.53	0.53	UJ	12
2,6-DiCB	PCB-010	33146-45-1	2.64	2.64	UJ	12
2,2'-DiCB	PCB-004	13029-08-8	3.14	3.14	UJ	12
2,5-DiCB	PCB-009	34883-39-1	2.90	2.90	UJ	12
2,4-DiCB	PCB-007	33284-50-3	2.70	2.70	UJ	12
2,3'-DiCB	PCB-006	25569-80-6	2.78	2.78	UJ	12
2,3/2,4'-DiCB	PCB-005/008		2.69	2.69	UJ	12
3,5-DiCB	PCB-014	34883-41-5	2.69	2.69	UJ	12
3,3'-DiCB	PCB-011	2050-67-1	29.7	2.21	B	12
3,4/3,4'-DiCB	PCB-012/013		2.65	2.65	UJ	12
4,4'-DiCB	PCB-015	2050-68-2	2.63	2.63	UJ	12
2,2',6-TrCB	PCB-019	38444-73-4	1.73	1.73	UJ	12
2,4,6-TrCB	PCB-030	35693-92-6	2.01	1.76	NJ	12
2,2',5-TrCB	PCB-018	37680-65-2	10.1	2.48	NJ	12
2,2',4-TrCB	PCB-017	37680-66-3	2.32	2.32	UJ	12
2,3,6-TrCB	PCB-024	55702-45-9	2.07	2.07	UJ	12
2,3',6-TrCB	PCB-027	38444-76-7	1.59	1.59	UJ	12
2,4',6-TrCB	PCB-032	38444-77-8	1.86	1.86	UJ	12
2,2',3-TrCB	PCB-016	38444-78-9	2.59	2.59	UJ	12
2,3,5-TrCB	PCB-023	55720-44-0	2.54	0.66	NJ	12
2,3',5'-TrCB	PCB-034	37680-68-5	0.65	0.65	UJ	12
2,4,5-TrCB	PCB-029	15862-07-4	1.24	0.48	NJ	12
2,3',5-TrCB	PCB-026	38444-81-4	1.50	0.55	NJ	12
2,3',4-TrCB	PCB-025	55712-37-3	0.61	0.61	UJ	12
2,4',5-TrCB	PCB-031	16606-02-3	0.55	0.55	UJ	12
2,4,4'-TrCB	PCB-028	7012-37-5	0.61	0.61	UJ	12
2,3,4-TrCB	PCB-021	55702-46-0	1.73	0.72	NJ	12
	PCB-020/033		0.65	0.65	UJ	12
2,3,4'-TrCB	PCB-022	38444-85-8	2.39	0.73	NJ	12
3,3',5-TrCB	PCB-036	38444-87-0	0.61	0.61	UJ	12
3,4',5-TrCB	PCB-039	38444-88-1	2.27	0.66	NJ	12
3,4,5-TrCB	PCB-038	53555-66-1	0.75	0.75	UJ	12
3,3',4-TrCB	PCB-035	37680-69-6	0.70	0.70	UJ	12
3,4,4'-TrCB	PCB-037	38444-90-5	0.90	0.90	UJ	12
2,2',6,6'-TeCB	PCB-054	15968-05-5	0.20	0.20	UJ	12
2,2',4,6'-TeCB	PCB-050	62796-65-0	0.32	0.32	UJ	12
2,2',5,6'-TeCB	PCB-053	41464-41-9	0.34	0.34	UJ	12
2,2',4,6'-TeCB	PCB-051	68194-04-7	4.26	0.32	J	12
2,2',3,6'-TeCB	PCB-045	70362-45-7	0.99	0.38	NJ	12
2,2',3,6'-TeCB	PCB-046	41464-47-5	0.38	0.38	UJ	12
	PCB-052/069		6.14	0.29	BJ	12
2,3',5',6'-TeCB	PCB-073	74338-23-1	0.24	0.24	UJ	12
	PCB-043/049		2.27	0.31	NJ	12
	PCB-065/075		0.33	0.33	UJ	12
	PCB-047/048		7.41	0.24	BJ	12
2,3,4,6'-TeCB	PCB-062	54230-22-7	0.25	0.25	UJ	12
2,2',3,5'-TeCB	PCB-044	41464-39-5	3.90	0.47	J	12
2,3,3',6'-TeCB	PCB-059	74472-33-6	0.23	0.23	UJ	12
2,2',3,4'-TeCB	PCB-042	36559-22-5	0.48	0.36	NJ	12
2,3',5,5'-TeCB	PCB-072	41464-42-0	1.23	0.28	J	12

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IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
	PCB-064/071		0.24	0.24	UJ	12
2,2',3,4-TeCB	PCB-041	52663-59-9	0.32	0.32	UJ	12
2,3',4,5'-TeCB	PCB-068	73575-52-7	3.94	0.23	J	12
2,2',3,3'-TeCB	PCB-040	38444-93-8	0.44	0.44	UJ	12
2,3,3',5-TeCB	PCB-057	70424-67-8	0.41	0.25	NJ	12
2,3',4,5-TeCB	PCB-067	73575-53-8	0.24	0.24	UJ	12
2,3,4',5-TeCB	PCB-058/063	74472-34-7	0.24	0.24	UJ	12
2,3,4,5-TeCB	PCB-061	33284-53-6	0.61	0.30	NJ	12
2,4,4',5-TeCB	PCB-074	32690-93-0	1.91	0.24	J	12
2,3',4',5-TeCB	PCB-070	32598-11-1	5.19	0.26	J	12
2,3,3',4-TeCB	PCB-055	74338-24-2	0.23	0.23	UJ	12
	PCB-066/080		3.09	0.22	J	12
2,3',4',5'-TeCB	PCB-076	70362-48-0	0.27	0.27	UJ	12
2,3,4,4'-TeCB	PCB-060	33025-41-1	4.13	0.26	J	12
2,3,3',4'-TeCB	PCB-056	41464-43-1	0.21	0.21	UJ	12
3,3',4,5'-TeCB	PCB-079	41464-48-6	0.24	0.24	UJ	12
3,3',4,5-TeCB	PCB-078	70362-49-1	0.27	0.27	UJ	12
3,4,4',5-TeCB	PCB-081	70362-50-4	0.26	0.26	UJ	12
3,3',4,4'-TeCB	PCB-077	32598-13-3	0.24	0.24	UJ	12
2,2',4,6,6'-PeCB	PCB-104	56558-16-8	1.24	1.24	UJ	12
2,2',3,6,6'-PeCB	PCB-096	73575-54-9	2.43	2.43	UJ	12
2,2',4,5',6-PeCB	PCB-103	60145-21-3	2.90	2.90	UJ	12
2,2',4,4',6-PeCB	PCB-100	39485-83-1	2.64	2.64	UJ	12
2,2',3,5,6'-PeCB	PCB-094	73575-55-0	3.16	3.16	UJ	12
	PCB-093/095/098/102		2.98	2.98	UJ	12
2,2',3,4,6-PeCB	PCB-088	55215-17-3	3.43	3.43	UJ	12
2,2',3,4',6-PeCB	PCB-091	68194-05-8	3.05	3.05	UJ	12
2,3',4,5',6-PeCB	PCB-121	56558-18-0	1.96	1.96	UJ	12
	PCB-084/092		3.26	3.26	UJ	12
2,2',3,4,6'-PeCB	PCB-089	73575-57-2	3.52	3.52	UJ	12
2,2',3,4',5-PeCB	PCB-090	68194-07-0	3.36	3.36	UJ	12
2,2',4,5,5'-PeCB	PCB-101	37680-73-2	1.87	1.87	UJ	12
2,3,3',5',6-PeCB	PCB-113	68194-10-5	2.50	2.50	UJ	12
2,2',4,4',5-PeCB	PCB-099	38380-01-7	2.46	2.46	UJ	12
	PCB-112/119		2.10	2.10	UJ	12
2,2',3,3',5-PeCB	PCB-083	60145-20-2	4.39	4.39	UJ	12
2,3,3',4,6-PeCB	PCB-109	74472-35-8	1.96	1.96	UJ	12
	PCB-086-097/117		2.83	2.83	UJ	12
	PCB-116/125		1.69	1.69	UJ	12
	PCB-087/115		2.45	2.45	UJ	12
2,3,3',5,5'-PeCB	PCB-111	39635-32-0	2.16	2.16	UJ	12
2,2',3,4,4'-PeCB	PCB-085	65510-45-4	2.83	2.83	UJ	12
	PCB-110/120		2.15	2.15	UJ	12
2,2',3,3',4-PeCB	PCB-082	52663-62-4	3.25	3.25	UJ	12
2,3',4',5,5'-PeCB	PCB-124	70424-70-3	0.78	0.78	UJ	12
	PCB-107/108		0.82	0.82	UJ	12
2,3',4,4',5'-PeCB	PCB-123	65510-44-3	0.93	0.93	UJ	12
2,3,3',4,5-PeCB	PCB-106	70424-69-0	0.93	0.93	UJ	12
2,3',4,4',5-PeCB	PCB-118	31508-00-6	0.98	0.98	UJ	12
2,3,4,4',5-PeCB	PCB-114	74472-37-0	0.99	0.99	UJ	12
2,3,3',4',5'-PeCB	PCB-122	76842-07-4	1.12	1.12	UJ	12
2,3,3',4,4'-PeCB	PCB-105	32598-14-4	0.93	0.93	UJ	12

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IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
3,3',4,5,5'-PeCB	PCB-127	39635-33-1	0.92	0.92	UJ	12
3,3',4,4',5'-PeCB	PCB-126	57465-28-8	0.90	0.90	UJ	12
2,2',4,4',6,6'-HxCB	PCB-155	33979-03-2	0.25	0.25	UJ	12
2,2',3,4',6,6'-HxCB	PCB-150	68194-08-1	0.32	0.32	UJ	12
2,2',3,5,6,6'-HxCB	PCB-152	68194-09-2	0.35	0.35	UJ	12
2,2',3,4,6,6'-HxCB	PCB-145	74472-40-5	0.35	0.35	UJ	12
2,2',3,3',6,6'-HxCB	PCB-136	38411-22-2	0.39	0.39	UJ	12
2,2',3,4',5,6'-HxCB	PCB-148	74472-41-6	0.43	0.43	UJ	12
2,2',4,4',5,6'-HxCB	PCB-154	60145-22-4	0.35	0.35	UJ	12
2,2',3,5,5',6'-HxCB	PCB-151	52663-63-5	0.51	0.51	UJ	12
2,2',3,3',5,6'-HxCB	PCB-135	52744-13-5	0.51	0.51	UJ	12
2,2',3,4,5',6'-HxCB	PCB-144	68194-14-9	0.51	0.51	UJ	12
2,2',3,4',5,6'-HxCB	PCB-147	68194-13-8	0.33	0.33	UJ	12
	PCB-139/149		0.43	0.43	UJ	12
2,2',3,4,4',6'-HxCB	PCB-140	59291-64-4	0.41	0.41	UJ	12
2,2',3,4,5,6'-HxCB	PCB-143	68194-15-0	0.22	0.22	UJ	12
2,2',3,3',5,6'-HxCB	PCB-134	52704-70-8	0.22	0.22	UJ	12
2,2',3,4,5,6'-HxCB	PCB-142	41411-61-4	7.88	0.30	NJ	12
2,2',3,3',5,5'-HxCB	PCB-133	35694-04-3	0.19	0.19	UJ	12
2,2',3,3',4,6'-HxCB	PCB-131	61798-70-7	0.20	0.20	UJ	12
2,3,3',5,5',6'-HxCB	PCB-165	74472-46-1	0.17	0.17	UJ	12
	PCB-132/146		0.18	0.18	UJ	12
2,3,3',4,5',6'-HxCB	PCB-161	74472-43-8	0.14	0.14	UJ	12
2,2',4,4',5,5'-HxCB	PCB-153	35065-27-1	2.80	0.20	J	12
2,3',4,4',5',6'-HxCB	PCB-168	59291-65-5	0.12	0.12	UJ	12
2,2',3,4,5,5'-HxCB	PCB-141	52712-04-6	0.17	0.17	UJ	12
2,2',3,4,4',5'-HxCB	PCB-137	35694-06-5	0.19	0.19	UJ	12
2,2',3,3',4,5'-HxCB	PCB-130	52663-66-8	0.21	0.21	UJ	12
	PCB-163/164		0.14	0.14	UJ	12
2,2',3,4,4',5'-HxCB	PCB-138	35065-28-2	3.73	0.19	J	12
2,3,3',4,5,6'-HxCB	PCB-160	41411-62-5	0.14	0.14	UJ	12
2,3,3',4,4',6'-HxCB	PCB-158	74472-42-7	0.12	0.12	UJ	12
2,2',3,3',4,5'-HxCB	PCB-129	55215-18-4	0.21	0.21	UJ	12
2,3,4,4',5,6'-HxCB	PCB-166	41411-63-6	0.14	0.14	UJ	12
2,3,3',4,5,5'-HxCB	PCB-159	39635-35-3	0.14	0.14	UJ	12
2,2',3,3',4,4'-HxCB	PCB-128	38380-07-3	0.19	0.19	UJ	12
2,3,3',4',5,5'-HxCB	PCB-162	39635-34-2	0.13	0.13	UJ	12
2,3',4,4',5,5'-HxCB	PCB-167	52663-72-6	0.15	0.15	UJ	12
2,3,3',4,4',5'-HxCB	PCB-156	38380-08-4	0.13	0.13	UJ	12
2,3,3',4,4',5'-HxCB	PCB-157	69782-90-7	0.13	0.13	UJ	12
3,3',4,4',5,5'-HxCB	PCB-169	32774-16-6	0.12	0.12	UJ	12
2,2',3,4',5,6,6'-HpCB	PCB-188	74487-85-7	0.32	0.32	UJ	12
2,2',3,4,4',6,6'-HpCB	PCB-184	74472-48-3	0.36	0.36	UJ	12
2,2',3,3',5,6,6'-HpCB	PCB-179	52663-64-6	0.37	0.37	UJ	12
2,2',3,3',4,6,6'-HpCB	PCB-176	52663-65-7	0.38	0.38	UJ	12
2,2',3,4,5,6,6'-HpCB	PCB-186	74472-49-4	0.39	0.39	UJ	12
2,2',3,3',5,5',6'-HpCB	PCB-178	52663-67-9	0.52	0.52	UJ	12
2,2',3,3',4,5',6'-HpCB	PCB-175	40186-70-7	0.54	0.54	UJ	12
	PCB-182/187		0.45	0.45	UJ	12
2,2',3,4,4',5',6'-HpCB	PCB-183	52663-69-1	0.47	0.47	UJ	12
2,2',3,4,5,5',6'-HpCB	PCB-185	52712-05-7	0.53	0.53	UJ	12
2,2',3,3',4,5,6'-HpCB	PCB-174	38411-25-5	0.49	0.49	UJ	12

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IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2,2',3,4,4',5,6-HpCB	PCB-181	74472-47-2	0.51	0.51	UJ	12
2,2',3,3',4,5',6'-HpCB	PCB-177	52663-70-4	0.51	0.51	UJ	12
2,2',3,3',4,4',6-HpCB	PCB-171	52663-71-5	0.51	0.51	UJ	12
2,2',3,3',4,5,6-HpCB	PCB-173	68194-16-1	0.53	0.53	UJ	12
2,2',3,3',4,5,5',6-HpCB	PCB-172	52663-74-8	0.50	0.50	UJ	12
2,3,3',4,5,5',6-HpCB	PCB-192	74472-51-8	0.41	0.41	UJ	12
2,2',3,4,4',5,5',6-HpCB	PCB-180	35065-29-3	0.56	0.56	UJ	12
2,3,3',4',5,5',6-HpCB	PCB-193	69782-91-8	0.30	0.30	UJ	12
2,3,3',4,4',5',6-HpCB	PCB-191	74472-50-7	0.35	0.35	UJ	12
2,2',3,3',4,4',5-HpCB	PCB-170	35065-30-6	0.47	0.47	UJ	12
2,3,3',4,4',5,6-HpCB	PCB-190	41411-64-7	0.32	0.32	UJ	12
2,3,3',4,4',5,5',6-HpCB	PCB-189	39635-31-9	0.20	0.20	UJ	12
2,2',3,3',5,5',6,6'-OoCB	PCB-202	2136-99-4	0.97	0.97	UJ	12
2,2',3,3',4,5',6,6'-OoCB	PCB-201	40186-71-8	1.01	1.01	UJ	12
2,2',3,4,4',5,6,6'-OoCB	PCB-204	74472-52-9	0.93	0.93	UJ	12
2,2',3,3',4,4',6,6'-OoCB	PCB-197	33091-17-7	1.02	1.02	UJ	12
2,2',3,3',4,5,6,6'-OoCB	PCB-200	52663-73-7	1.01	1.01	UJ	12
2,2',3,3',4,5,5',6-OoCB	PCB-198	68194-17-2	1.69	1.69	UJ	12
2,2',3,3',4,5,5',6'-OoCB	PCB-199	52663-75-9	1.15	1.15	UJ	12
2,2',3,3',4,4',5,6'-OoCB	PCB-196	42740-50-1	1.70	1.70	UJ	12
2,2',3,4,4',5,5',6-OoCB	PCB-203	52663-76-0	1.02	1.02	UJ	12
2,2',3,3',4,4',5,6-OoCB	PCB-195	52663-78-2	0.61	0.61	UJ	12
2,2',3,3',4,4',5,5'-OoCB	PCB-194	35694-08-7	0.54	0.54	UJ	12
2,3,3',4,4',5,5',6-OoCB	PCB-205	74472-53-0	0.44	0.44	UJ	12
2,2',3,3',4,5,5',6,6'-NoCB	PCB-208	52663-77-1	2.42	2.42	UJ	12
2,2',3,3',4,4',5,6,6'-NoCB	PCB-207	52663-79-3	2.67	2.67	UJ	12
2,2',3,3',4,4',5,5',6-NoCB	PCB-206	40186-72-9	2.84	2.84	UJ	12
2,2',3,3',4,4',5,5',6,6'-DeCB	PCB-209	2051-24-3	1.19	1.19	UJ	12

Homologs	# of Congeners			
Monochlorobiphenyls	3	6.15	0.40	J
Dichlorobiphenyls	12	29.7	2.21	B
Trichlorobiphenyls	24	0.48	0.48	UJ
Tetrachlorobiphenyls	42	41.2	0.20	
Pentachlorobiphenyls	46	0.78	0.78	UJ
Hexachlorobiphenyls	42	6.53	0.12	J
Heptachlorobiphenyls	24	0.20	0.20	UJ
Octachlorobiphenyls	12	0.44	0.44	UJ
Nonachlorobiphenyls	3	2.42	2.42	UJ
Decachlorobiphenyl	1	1.19	1.19	UJ
Total PCB		83.6	0.12	B

DATA REPORT

Client: Liberty Lake Sewer and Water
Client ID: Dist.
Field ID: Eff Comp #1
PRL ID: PR242289

Contact: Greg Sattler
Date Extracted: 8/23/2024
Date Analysed: 8/28/2024
HRMS File: FS08282408

IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
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Surrogate Recoveries			Acceptance	
Chemical Name	IUPAC #	%	Min	Max
¹³ C ₁₂ -2-MoCB	1L	29	5	145
¹³ C ₁₂ -4-MoCB	3L	30	5	145
¹³ C ₁₂ -2,2'-DiCB	4L	43	5	145
¹³ C ₁₂ -4,4'-DiCB	15L	38	5	145
¹³ C ₁₂ -2,2',6'-TrCB	19L	53	5	145
¹³ C ₁₂ -3,4,4'-TrCB	37L	40	5	145
¹³ C ₁₂ -2,2',6,6'-TeCB	54L	46	5	145
¹³ C ₁₂ -3,4,4',5'-TeCB	81L	48	5	145
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	52	10	145
¹³ C ₁₂ -2,2',4,6,6'-PeCB	104L	46	10	145
¹³ C ₁₂ -2',3,4,4',5'-PeCB	123L	52	10	145
¹³ C ₁₂ -2,3',4,4',5'-PeCB	118L	47	10	145
¹³ C ₁₂ -2,3,4,4',5'-PeCB	114L	47	10	145
¹³ C ₁₂ -2,3,3',4,4'-PeCB	105L	51	10	145
¹³ C ₁₂ -3,3',4,4',5'-PeCB	126L	53	10	145
¹³ C ₁₂ -2,2',4,4',6,6'-HxCB	155L	52	10	145
¹³ C ₁₂ -2,3',4,4',5,5'-HxCB	167L	49	10	145
¹³ C ₁₂ -2,3,3',4,4',5'-HxCB	156L	53	10	145
¹³ C ₁₂ -2,3,3',4,4',5'-HxCB	157L	51	10	145
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	47	10	145
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	62	10	145
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	65	10	145
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OoCB	202L	61	10	145
¹³ C ₁₂ -2,3,3',4,4',5,5',6'-OoCB	205L	57	10	145
¹³ C ₁₂ -2,2',3,3',4',5,5',6,6'-NoCB	208L	58	10	145
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6'-NoCB	206L	67	10	145
¹³ C ₁₂ -DeCB	209L	62	10	145
¹³ C ₁₂ -2,4,4'-TrCB	28L	51	5	145
¹³ C ₁₂ -2,3,3',5,5'-PeCB	111L	50	10	145
¹³ C ₁₂ -2,2',3,3',5,5',6'-HpCB	178L	71	10	145

QC REPORT - BLANK

Client: Liberty Lake Sewer and Water
Client ID: Dist.
Field ID: BLANK
PRL ID: PC240556B

Contact: Greg Sattler
Date Extracted: 8/23/2024
Date Analysed: 8/28/2024
HRMS File: FS08282404

IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2-MoCB	PCB-001	2051-60-7	0.23	0.23	UJ	12.5
3-MoCB	PCB-002	2051-61-8	0.19	0.19	UJ	12.5
4-MoCB	PCB-003	2051-62-9	0.26	0.26	UJ	12.5
2,6-DiCB	PCB-010	33146-45-1	1.15	1.15	UJ	12.5
2,2'-DiCB	PCB-004	13029-08-8	1.29	1.29	UJ	12.5
2,5-DiCB	PCB-009	34883-39-1	1.26	1.26	UJ	12.5
2,4-DiCB	PCB-007	33284-50-3	1.17	1.17	UJ	12.5
2,3'-DiCB	PCB-006	25569-80-6	1.21	1.21	UJ	12.5
2,3/2,4'-DiCB	PCB-005/008		1.17	1.17	UJ	12.5
3,5-DiCB	PCB-014	34883-41-5	1.17	1.17	UJ	12.5
3,3'-DiCB	PCB-011	2050-67-1	18.1	0.96		12.5
3,4/3,4'-DiCB	PCB-012/013		1.15	1.15	UJ	12.5
4,4'-DiCB	PCB-015	2050-68-2	1.19	1.19	UJ	12.5
2,2',6-TrCB	PCB-019	38444-73-4	0.55	0.55	UJ	12.5
2,4,6-TrCB	PCB-030	35693-92-6	0.77	0.77	UJ	12.5
2,2',5-TrCB	PCB-018	37680-65-2	1.06	1.06	UJ	12.5
2,2',4-TrCB	PCB-017	37680-66-3	1.01	1.01	UJ	12.5
2,3,6-TrCB	PCB-024	55702-45-9	0.90	0.90	UJ	12.5
2,3',6-TrCB	PCB-027	38444-76-7	0.68	0.68	UJ	12.5
2,4',6-TrCB	PCB-032	38444-77-8	0.81	0.81	UJ	12.5
2,2',3-TrCB	PCB-016	38444-78-9	1.13	1.13	UJ	12.5
2,3,5-TrCB	PCB-023	55720-44-0	0.28	0.28	UJ	12.5
2,3',5'-TrCB	PCB-034	37680-68-5	0.28	0.28	UJ	12.5
2,4,5-TrCB	PCB-029	15862-07-4	0.21	0.21	UJ	12.5
2,3',5-TrCB	PCB-026	38444-81-4	0.23	0.23	UJ	12.5
2,3',4-TrCB	PCB-025	55712-37-3	0.26	0.26	UJ	12.5
2,4',5-TrCB	PCB-031	16606-02-3	0.24	0.24	UJ	12.5
2,4,4'-TrCB	PCB-028	7012-37-5	3.82	0.27	J	12.5
2,3,4-TrCB	PCB-021	55702-46-0	0.31	0.31	UJ	12.5
	PCB-020/033		0.29	0.29	UJ	12.5
2,3,4'-TrCB	PCB-022	38444-85-8	0.32	0.32	UJ	12.5
3,3',5-TrCB	PCB-036	38444-87-0	0.27	0.27	UJ	12.5
3,4',5-TrCB	PCB-039	38444-88-1	0.29	0.29	UJ	12.5
3,4,5-TrCB	PCB-038	53555-66-1	0.33	0.33	UJ	12.5
3,3',4-TrCB	PCB-035	37680-69-6	0.31	0.31	UJ	12.5
3,4,4'-TrCB	PCB-037	38444-90-5	0.45	0.45	UJ	12.5
2,2',6,6'-TeCB	PCB-054	15968-05-5	0.13	0.13	UJ	12.5
2,2',4,6-TeCB	PCB-050	62796-65-0	0.22	0.22	UJ	12.5
2,2',5,6'-TeCB	PCB-053	41464-41-9	0.23	0.23	UJ	12.5
2,2',4,6'-TeCB	PCB-051	68194-04-7	0.22	0.22	UJ	12.5
2,2',3,6-TeCB	PCB-045	70362-45-7	0.26	0.26	UJ	12.5
2,2',3,6'-TeCB	PCB-046	41464-47-5	0.26	0.26	UJ	12.5
	PCB-052/069		3.38	0.20	J	12.5
2,3',5',6-TeCB	PCB-073	74338-23-1	0.17	0.17	UJ	12.5
	PCB-043/049		1.79	0.21	NJ	12.5
	PCB-065/075		0.22	0.22	UJ	12.5
	PCB-047/048		3.82	0.17	J	12.5
2,3,4,6-TeCB	PCB-062	54230-22-7	0.17	0.17	UJ	12.5
2,2',3,5'-TeCB	PCB-044	41464-39-5	0.32	0.32	UJ	12.5
2,3,3',6-TeCB	PCB-059	74472-33-6	0.15	0.15	UJ	12.5
2,2',3,4'-TeCB	PCB-042	36559-22-5	0.24	0.24	UJ	12.5
2,3',5,5'-TeCB	PCB-072	41464-42-0	0.19	0.19	UJ	12.5

QC REPORT - BLANK

Client: Liberty Lake Sewer and Water
Client ID: Dist.
Field ID: BLANK
PRL ID: PC240556B

Contact: Greg Sattler
Date Extracted: 8/23/2024
Date Analysed: 8/28/2024
HRMS File: FS08282404

IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
	PCB-064/071		0.16	0.16	UJ	12.5
2,2',3,4-TeCB	PCB-041	52663-59-9	0.22	0.22	UJ	12.5
2,3',4,5'-TeCB	PCB-068	73575-52-7	0.16	0.16	UJ	12.5
2,2',3,3'-TeCB	PCB-040	38444-93-8	0.30	0.30	UJ	12.5
2,3,3',5-TeCB	PCB-057	70424-67-8	0.17	0.17	UJ	12.5
2,3',4,5-TeCB	PCB-067	73575-53-8	0.16	0.16	UJ	12.5
2,3,4',5-TeCB	PCB-058/063	74472-34-7	0.16	0.16	UJ	12.5
2,3,4,5-TeCB	PCB-061	33284-53-6	0.21	0.21	UJ	12.5
2,4,4',5-TeCB	PCB-074	32690-93-0	0.17	0.17	UJ	12.5
2,3',4',5-TeCB	PCB-070	32598-11-1	2.24	0.18	NJ	12.5
2,3,3',4-TeCB	PCB-055	74338-24-2	0.16	0.16	UJ	12.5
	PCB-066/080		0.15	0.15	UJ	12.5
2,3',4',5'-TeCB	PCB-076	70362-48-0	0.18	0.18	UJ	12.5
2,3,4,4'-TeCB	PCB-060	33025-41-1	1.14	0.17	NJ	12.5
2,3,3',4'-TeCB	PCB-056	41464-43-1	0.14	0.14	UJ	12.5
3,3',4,5'-TeCB	PCB-079	41464-48-6	0.16	0.16	UJ	12.5
3,3',4,5-TeCB	PCB-078	70362-49-1	0.18	0.18	UJ	12.5
3,4,4',5-TeCB	PCB-081	70362-50-4	0.18	0.18	UJ	12.5
3,3',4,4'-TeCB	PCB-077	32598-13-3	0.18	0.18	UJ	12.5
2,2',4,6,6'-PeCB	PCB-104	56558-16-8	0.77	0.77	UJ	12.5
2,2',3,6,6'-PeCB	PCB-096	73575-54-9	1.74	1.74	UJ	12.5
2,2',4,5',6-PeCB	PCB-103	60145-21-3	2.06	2.06	UJ	12.5
2,2',4,4',6-PeCB	PCB-100	39485-83-1	1.88	1.88	UJ	12.5
2,2',3,5,6'-PeCB	PCB-094	73575-55-0	2.25	2.25	UJ	12.5
	PCB-093/095/098/102		2.13	2.13	UJ	12.5
2,2',3,4,6-PeCB	PCB-088	55215-17-3	2.45	2.45	UJ	12.5
2,2',3,4',6-PeCB	PCB-091	68194-05-8	2.17	2.17	UJ	12.5
2,3',4,5',6-PeCB	PCB-121	56558-18-0	1.40	1.40	UJ	12.5
	PCB-084/092		2.32	2.32	UJ	12.5
2,2',3,4,6'-PeCB	PCB-089	73575-57-2	2.51	2.51	UJ	12.5
2,2',3,4',5-PeCB	PCB-090	68194-07-0	2.39	2.39	UJ	12.5
2,2',4,5,5'-PeCB	PCB-101	37680-73-2	1.33	1.33	UJ	12.5
2,3,3',5',6-PeCB	PCB-113	68194-10-5	1.78	1.78	UJ	12.5
2,2',4,4',5-PeCB	PCB-099	38380-01-7	1.75	1.75	UJ	12.5
	PCB-112/119		1.49	1.49	UJ	12.5
2,2',3,3',5-PeCB	PCB-083	60145-20-2	3.13	3.13	UJ	12.5
2,3,3',4,6-PeCB	PCB-109	74472-35-8	1.40	1.40	UJ	12.5
	PCB-086-097/117		2.02	2.02	UJ	12.5
	PCB-116/125		1.21	1.21	UJ	12.5
	PCB-087/115		1.74	1.74	UJ	12.5
2,3,3',5,5'-PeCB	PCB-111	39635-32-0	1.54	1.54	UJ	12.5
2,2',3,4,4'-PeCB	PCB-085	65510-45-4	2.02	2.02	UJ	12.5
	PCB-110/120		1.54	1.54	UJ	12.5
2,2',3,3',4-PeCB	PCB-082	52663-62-4	2.32	2.32	UJ	12.5
2,3',4',5,5'-PeCB	PCB-124	70424-70-3	0.51	0.51	UJ	12.5
	PCB-107/108		0.58	0.58	UJ	12.5
2,3',4,4',5'-PeCB	PCB-123	65510-44-3	0.69	0.69	UJ	12.5
2,3,3',4,5-PeCB	PCB-106	70424-69-0	0.67	0.67	UJ	12.5
2,3',4,4',5-PeCB	PCB-118	31508-00-6	0.72	0.72	UJ	12.5
2,3,4,4',5-PeCB	PCB-114	74472-37-0	0.70	0.70	UJ	12.5
2,3,3',4',5'-PeCB	PCB-122	76842-07-4	0.79	0.79	UJ	12.5
2,3,3',4,4'-PeCB	PCB-105	32598-14-4	0.67	0.67	UJ	12.5

QC REPORT - BLANK

Client: Liberty Lake Sewer and Water
Client ID: Dist.
Field ID: BLANK
PRL ID: PC240556B

Contact: Greg Sattler
Date Extracted: 8/23/2024
Date Analysed: 8/28/2024
HRMS File: FS08282404

IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
3,3',4,5,5'-PeCB	PCB-127	39635-33-1	0.67	0.67	UJ	12.5
3,3',4,4',5'-PeCB	PCB-126	57465-28-8	0.65	0.65	UJ	12.5
2,2',4,4',6,6'-HxCB	PCB-155	33979-03-2	0.20	0.20	UJ	12.5
2,2',3,4',6,6'-HxCB	PCB-150	68194-08-1	0.29	0.29	UJ	12.5
2,2',3,5,6,6'-HxCB	PCB-152	68194-09-2	0.32	0.32	UJ	12.5
2,2',3,4,6,6'-HxCB	PCB-145	74472-40-5	0.32	0.32	UJ	12.5
2,2',3,3',6,6'-HxCB	PCB-136	38411-22-2	0.36	0.36	UJ	12.5
2,2',3,4',5,6'-HxCB	PCB-148	74472-41-6	0.39	0.39	UJ	12.5
2,2',4,4',5,6'-HxCB	PCB-154	60145-22-4	0.33	0.33	UJ	12.5
2,2',3,5,5',6'-HxCB	PCB-151	52663-63-5	0.47	0.47	UJ	12.5
2,2',3,3',5,6'-HxCB	PCB-135	52744-13-5	0.47	0.47	UJ	12.5
2,2',3,4,5',6'-HxCB	PCB-144	68194-14-9	0.47	0.47	UJ	12.5
2,2',3,4',5,6'-HxCB	PCB-147	68194-13-8	0.31	0.31	UJ	12.5
	PCB-139/149		0.40	0.40	UJ	12.5
2,2',3,4,4',6'-HxCB	PCB-140	59291-64-4	0.38	0.38	UJ	12.5
2,2',3,4,5,6'-HxCB	PCB-143	68194-15-0	0.20	0.20	UJ	12.5
2,2',3,3',5,6'-HxCB	PCB-134	52704-70-8	0.21	0.21	UJ	12.5
2,2',3,4,5,6'-HxCB	PCB-142	41411-61-4	0.28	0.28	UJ	12.5
2,2',3,3',5,5'-HxCB	PCB-133	35694-04-3	0.18	0.18	UJ	12.5
2,2',3,3',4,6'-HxCB	PCB-131	61798-70-7	0.19	0.19	UJ	12.5
2,3,3',5,5',6'-HxCB	PCB-165	74472-46-1	0.15	0.15	UJ	12.5
	PCB-132/146		0.17	0.17	UJ	12.5
2,3,3',4,5',6'-HxCB	PCB-161	74472-43-8	0.13	0.13	UJ	12.5
2,2',4,4',5,5'-HxCB	PCB-153	35065-27-1	0.18	0.18	UJ	12.5
2,3',4,4',5',6'-HxCB	PCB-168	59291-65-5	0.11	0.11	UJ	12.5
2,2',3,4,5,5'-HxCB	PCB-141	52712-04-6	0.16	0.16	UJ	12.5
2,2',3,4,4',5'-HxCB	PCB-137	35694-06-5	0.18	0.18	UJ	12.5
2,2',3,3',4,5'-HxCB	PCB-130	52663-66-8	0.20	0.20	UJ	12.5
	PCB-163/164		0.13	0.13	UJ	12.5
2,2',3,4,4',5'-HxCB	PCB-138	35065-28-2	0.18	0.18	UJ	12.5
2,3,3',4,5,6'-HxCB	PCB-160	41411-62-5	0.13	0.13	UJ	12.5
2,3,3',4,4',6'-HxCB	PCB-158	74472-42-7	0.11	0.11	UJ	12.5
2,2',3,3',4,5'-HxCB	PCB-129	55215-18-4	0.19	0.19	UJ	12.5
2,3,4,4',5,6'-HxCB	PCB-166	41411-63-6	0.13	0.13	UJ	12.5
2,3,3',4,5,5'-HxCB	PCB-159	39635-35-3	0.13	0.13	UJ	12.5
2,2',3,3',4,4'-HxCB	PCB-128	38380-07-3	0.18	0.18	UJ	12.5
2,3,3',4',5,5'-HxCB	PCB-162	39635-34-2	0.12	0.12	UJ	12.5
2,3',4,4',5,5'-HxCB	PCB-167	52663-72-6	0.14	0.14	UJ	12.5
2,3,3',4,4',5'-HxCB	PCB-156	38380-08-4	0.12	0.12	UJ	12.5
2,3,3',4,4',5'-HxCB	PCB-157	69782-90-7	0.12	0.12	UJ	12.5
3,3',4,4',5,5'-HxCB	PCB-169	32774-16-6	0.11	0.11	UJ	12.5
2,2',3,4',5,6,6'-HpCB	PCB-188	74487-85-7	0.29	0.29	UJ	12.5
2,2',3,4,4',6,6'-HpCB	PCB-184	74472-48-3	0.32	0.32	UJ	12.5
2,2',3,3',5,6,6'-HpCB	PCB-179	52663-64-6	0.33	0.33	UJ	12.5
2,2',3,3',4,6,6'-HpCB	PCB-176	52663-65-7	0.33	0.33	UJ	12.5
2,2',3,4,5,6,6'-HpCB	PCB-186	74472-49-4	0.34	0.34	UJ	12.5
2,2',3,3',5,5',6'-HpCB	PCB-178	52663-67-9	0.46	0.46	UJ	12.5
2,2',3,3',4,5',6'-HpCB	PCB-175	40186-70-7	0.47	0.47	UJ	12.5
	PCB-182/187		0.40	0.40	UJ	12.5
2,2',3,4,4',5',6'-HpCB	PCB-183	52663-69-1	0.42	0.42	UJ	12.5
2,2',3,4,5,5',6'-HpCB	PCB-185	52712-05-7	0.47	0.47	UJ	12.5
2,2',3,3',4,5,6'-HpCB	PCB-174	38411-25-5	0.43	0.43	UJ	12.5

QC REPORT - BLANK

Client: Liberty Lake Sewer and Water
Client ID: Dist.
Field ID: BLANK
PRL ID: PC240556B

Contact: Greg Sattler
Date Extracted: 8/23/2024
Date Analysed: 8/28/2024
HRMS File: FS08282404

IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2,2',3,4,4',5,6-HpCB	PCB-181	74472-47-2	0.45	0.45	UJ	12.5
2,2',3,3',4,5',6'-HpCB	PCB-177	52663-70-4	0.45	0.45	UJ	12.5
2,2',3,3',4,4',6-HpCB	PCB-171	52663-71-5	0.45	0.45	UJ	12.5
2,2',3,3',4,5,6-HpCB	PCB-173	68194-16-1	0.47	0.47	UJ	12.5
2,2',3,3',4,5,5',6-HpCB	PCB-172	52663-74-8	0.44	0.44	UJ	12.5
2,3,3',4,5,5',6-HpCB	PCB-192	74472-51-8	0.36	0.36	UJ	12.5
2,2',3,4,4',5,5',6-HpCB	PCB-180	35065-29-3	0.49	0.49	UJ	12.5
2,3,3',4',5,5',6-HpCB	PCB-193	69782-91-8	0.26	0.26	UJ	12.5
2,3,3',4,4',5',6-HpCB	PCB-191	74472-50-7	0.31	0.31	UJ	12.5
2,2',3,3',4,4',5-HpCB	PCB-170	35065-30-6	0.42	0.42	UJ	12.5
2,3,3',4,4',5,6-HpCB	PCB-190	41411-64-7	0.28	0.28	UJ	12.5
2,3,3',4,4',5,5',6-HpCB	PCB-189	39635-31-9	0.17	0.17	UJ	12.5
2,2',3,3',5,5',6,6'-OoCB	PCB-202	2136-99-4	0.80	0.80	UJ	12.5
2,2',3,3',4,5',6,6'-OoCB	PCB-201	40186-71-8	0.82	0.82	UJ	12.5
2,2',3,4,4',5,6,6'-OoCB	PCB-204	74472-52-9	0.76	0.76	UJ	12.5
2,2',3,3',4,4',6,6'-OoCB	PCB-197	33091-17-7	0.83	0.83	UJ	12.5
2,2',3,3',4,5,6,6'-OoCB	PCB-200	52663-73-7	0.83	0.83	UJ	12.5
2,2',3,3',4,5,5',6-OoCB	PCB-198	68194-17-2	1.38	1.38	UJ	12.5
2,2',3,3',4,5,5',6'-OoCB	PCB-199	52663-75-9	0.94	0.94	UJ	12.5
2,2',3,3',4,4',5,6'-OoCB	PCB-196	42740-50-1	1.39	1.39	UJ	12.5
2,2',3,4,4',5,5',6-OoCB	PCB-203	52663-76-0	0.84	0.84	UJ	12.5
2,2',3,3',4,4',5,6-OoCB	PCB-195	52663-78-2	0.50	0.50	UJ	12.5
2,2',3,3',4,4',5,5'-OoCB	PCB-194	35694-08-7	0.44	0.44	UJ	12.5
2,3,3',4,4',5,5',6-OoCB	PCB-205	74472-53-0	0.36	0.36	UJ	12.5
2,2',3,3',4,5,5',6,6'-NoCB	PCB-208	52663-77-1	1.84	1.84	UJ	12.5
2,2',3,3',4,4',5,6,6'-NoCB	PCB-207	52663-79-3	2.15	2.15	UJ	12.5
2,2',3,3',4,4',5,5',6-NoCB	PCB-206	40186-72-9	2.45	2.45	UJ	12.5
2,2',3,3',4,4',5,5',6,6'-DeCB	PCB-209	2051-24-3	1.25	1.25	UJ	12.5

Homologs	# of Congeners			
Monochlorobiphenyls	3	0.19	0.19	UJ
Dichlorobiphenyls	12	18.1	0.96	
Trichlorobiphenyls	24	3.82	0.21	J
Tetrachlorobiphenyls	42	7.20	0.13	J
Pentachlorobiphenyls	46	0.51	0.51	UJ
Hexachlorobiphenyls	42	0.11	0.11	UJ
Heptachlorobiphenyls	24	0.17	0.17	UJ
Octachlorobiphenyls	12	0.36	0.36	UJ
Nonachlorobiphenyls	3	1.84	1.84	UJ
Decachlorobiphenyl	1	1.25	1.25	UJ
Total PCB		29.1	0.11	

QC REPORT - BLANK

Client: Liberty Lake Sewer and Water
Client ID: Dist.
Field ID: BLANK
PRL ID: PC240556B

Contact: Greg Sattler
Date Extracted: 8/23/2024
Date Analysed: 8/28/2024
HRMS File: FS08282404

IUPAC Name	PCB #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
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Surrogate Recoveries			Acceptance	
Chemical Name	IUPAC #	%	Min	Max
¹³ C ₁₂ -2-MoCB	1L	36	5	145
¹³ C ₁₂ -4-MoCB	3L	35	5	145
¹³ C ₁₂ -2,2'-DiCB	4L	60	5	145
¹³ C ₁₂ -4,4'-DiCB	15L	48	5	145
¹³ C ₁₂ -2,2',6'-TrCB	19L	77	5	145
¹³ C ₁₂ -3,4,4'-TrCB	37L	41	5	145
¹³ C ₁₂ -2,2',6,6'-TeCB	54L	63	5	145
¹³ C ₁₂ -3,4,4',5-TeCB	81L	58	5	145
¹³ C ₁₂ -3,3',4,4'-TeCB	77L	59	10	145
¹³ C ₁₂ -2,2',4,6,6'-PeCB	104L	58	10	145
¹³ C ₁₂ -2',3,4,4',5-PeCB	123L	56	10	145
¹³ C ₁₂ -2,3',4,4',5-PeCB	118L	54	10	145
¹³ C ₁₂ -2,3,4,4',5-PeCB	114L	54	10	145
¹³ C ₁₂ -2,3,3',4,4'-PeCB	105L	59	10	145
¹³ C ₁₂ -3,3',4,4',5-PeCB	126L	61	10	145
¹³ C ₁₂ -2,2',4,4',6,6'-HxCB	155L	65	10	145
¹³ C ₁₂ -2,3',4,4',5,5'-HxCB	167L	58	10	145
¹³ C ₁₂ -2,3,3',4,4',5-HxCB	156L	64	10	145
¹³ C ₁₂ -2,3,3',4,4',5'-HxCB	157L	63	10	145
¹³ C ₁₂ -3,3',4,4',5,5'-HxCB	169L	61	10	145
¹³ C ₁₂ -2,2',3,4',5,6,6'-HpCB	188L	68	10	145
¹³ C ₁₂ -2,3,3',4,4',5,5'-HpCB	189L	69	10	145
¹³ C ₁₂ -2,2',3,3',5,5',6,6'-OoCB	202L	74	10	145
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OoCB	205L	61	10	145
¹³ C ₁₂ -2,2',3,3',4',5,5',6,6'-NoCB	208L	63	10	145
¹³ C ₁₂ -2,2',3,3',4,4',5,5',6-NoCB	206L	64	10	145
¹³ C ₁₂ -DeCB	209L	62	10	145
¹³ C ₁₂ -2,4,4'-TrCB	28L	60	5	145
¹³ C ₁₂ -2,3,3',5,5'-PeCB	111L	57	10	145
¹³ C ₁₂ -2,2',3,3',5,5',6-HpCB	178L	82	10	145

QC REPORT - SPIKE

Client: Liberty Lake Sewer and Water Dist.
 Client ID: SPIKE
 Field ID:
 PRL ID: PC240557S

Contact: Greg Sattler
 Date Extracted: 8/23/2024
 Date Analysed: 8/28/2024
 HRMS File: FS08282902

Polychlorinated Biphenyls				Accept. Recovery		Pass/Fail	Surrogate Recoveries
Chemical Name	IUPAC #	CAS No.	LOF pg/L	Recovery %	Min %	Max %	%
2-MoCB	PCB-001	2051-60-7	1000	104	60	135	Pass 38
4-MoCB	PCB-003	2051-62-9	1000	98.2	60	135	Pass 37
2,6-DiCB	PCB-010	33146-45-1	1000	75.4			-
2,2'-DiCB	PCB-004	13029-08-8	1000	71.3	60	135	Pass 57
	PCB-005/008		1000	93.0			-
4,4'-DiCB	PCB-015	2050-68-2	1000	82.7	60	135	Pass 48
2,2',6-TrCB	PCB-019	38444-73-4	1000	81.2	60	135	Pass 71
2,2',5-TrCB	PCB-018	37680-65-2	1000	130			-
2,4,4'-TrCB	PCB-028	7012-37-5	1000	62.8			-
	PCB-020/033		1000	66.6			-
2,3,4'-TrCB	PCB-022	38444-85-8	1000	81.7			-
3,4,4'-TrCB	PCB-037	38444-90-5	1000	105	60	135	Pass 46
2,2',6,6'-TeCB	PCB-054	15968-05-5	1000	78.9	60	135	Pass 56
	PCB-052/069		1000	69.0			-
	PCB-043/049		1000	73.1			-
2,2',3,5'-TeCB	PCB-044	41464-39-5	1000	114			-
2,2',3,4-TeCB	PCB-041	52663-59-9	1000	63.2			-
2,2',3,3'-TeCB	PCB-040	38444-93-8	1000	88.2			-
2,4,4',5-TeCB	PCB-061/074	32690-93-0	1000	81.9			-
2,3',4',5-TeCB	PCB-070	32598-11-1	1000	102			-
2,3',4,4'-TeCB	PCB-066	32598-10-0	1000	84.5			-
2,3,4,4'-TeCB	PCB-060	33025-41-1	1000	112			-
3,4,4',5-TeCB	PCB-081	70362-50-4	1000	83.9	60	135	Pass 63
3,3',4,4'-TeCB	PCB-077	32598-13-3	1000	80.6	60	135	Pass 64
2,2',4,6,6'-PeCB	PCB-104	56558-16-8	1000	93.6	60	135	Pass 50
	PCB-093/095/098/102		1000	128			-
2,2',3,4',5-PeCB	PCB-090	68194-07-0	1000	118			-
2,2',4,5,5'-PeCB	PCB-101	37680-73-2	1000	90.6			-
2,2',4,4',5-PeCB	PCB-099	38380-01-7	1000	132			-
	PCB-112/119		1000	133			-
	PCB-087/115		1000	117			-
2,3,3',4',6-PeCB	PCB-110	38380-03-9	1000	131			-
2,3',4,4',5-PeCB	PCB-123	65510-44-3	1000	99.1	60	135	Pass 57
2,3',4,4',5-PeCB	PCB-118	31508-00-6	1000	101	60	135	Pass 54
2,3,4,4',5-PeCB	PCB-114	74472-37-0	1000	93.3	60	135	Pass 55
2,3,3',4,4'-PeCB	PCB-105	32598-14-4	1000	93.6	60	135	Pass 62
3,3',4,4',5-PeCB	PCB-126	57465-28-8	1000	85.8	60	135	Pass 64
2,2',4,4',6,6'-HxCB	PCB-155	33979-03-2	1000	85.8	60	135	Pass 58
2,2',3,5,5',6-HxCB	PCB-151	52663-63-5	1000	107			-
	PCB-139/149		1000	124			-
2,2',4,4',5,5'-HxCB	PCB-153	35065-27-1	1000	84.7			-
2,3',4,4',5,6-HxCB	PCB-168	59291-65-5	1000	91.6			-
2,2',3,4,5,5'-HxCB	PCB-141	52712-04-6	1000	94.8			-
2,2',3,4,4',5-HxCB	PCB-137	35694-06-5	1000	103			-
2,2',3,4,4',5'-HxCB	PCB-138	35065-28-2	1000	103			-
2,3,3',4,4',6-HxCB	PCB-158	74472-42-7	1000	84.6			-
2,2',3,3',4,5-HxCB	PCB-129	55215-18-4	1000	94.4			-
	PCB-128/162		1000	102			-
2,3',4,4',5,5'-HxCB	PCB-167	52663-72-6	1000	92.9	60	135	Pass 61
2,3,3',4,4',5-HxCB	PCB-156	38380-08-4	1000	88.8	60	135	Pass 66
2,3,3',4,4',5'-HxCB	PCB-157	69782-90-7	1000	88.9	60	135	Pass 66

QC REPORT - SPIKE

Client: Liberty Lake Sewer and Water Dist.
 Client ID: SPIKE
 Field ID:
 PRL ID: PC240557S

Contact: Greg Sattler
 Date Extracted: 8/23/2024
 Date Analysed: 8/28/2024
 HRMS File: FS08282902

Polychlorinated Biphenyls			Accept. Recovery				Pass/Fail	Surrogate
			LOF	Recovery	Min	Max		Recoveries
Chemical Name	IUPAC #	CAS No.	pg/L	%	%	%		%
3,3',4,4',5,5'-HxCB	PCB-169	32774-16-6	1000	93.9	60	135	Pass	62
2,2',3,4',5,6,6'-HpCB	PCB-188	74487-85-7	1000	87.3	60	135	Pass	65
2,2',3,3',5,5',6-HpCB	PCB-178	52663-67-9	1000	123				-
	PCB-182/187		1000	114				-
2,2',3,4,4',5',6-HpCB	PCB-183	52663-69-1	1000	117				-
2,2',3,3',4,5',6'-HpCB	PCB-177	52663-70-4	1000	124				-
2,2',3,3',4,4',6-HpCB	PCB-171	52663-71-5	1000	120				-
2,2',3,4,4',5,5'-HpCB	PCB-180	35065-29-3	1000	127				-
2,3,3',4',5,5',6-HpCB	PCB-193	69782-91-8	1000	110				-
2,3,3',4,4',5',6-HpCB	PCB-191	74472-50-7	1000	123				-
2,2',3,3',4,4',5-HpCB	PCB-170	35065-30-6	1000	115				-
2,3,3',4,4',5,5'-HpCB	PCB-189	39635-31-9	1000	91.2	60	135	Pass	70
2,2',3,3',5,5',6,6'-OxCB	PCB-202	2136-99-4	1000	90.4	60	135	Pass	73
2,2',3,3',4,5',6,6'-OxCB	PCB-201	40186-71-8	1000	114				-
2,2',3,3',4,5,5',6'-OxCB	PCB-199	52663-75-9	1000	98.7				-
2,2',3,4,4',5,5',6-OxCB	PCB-203	52663-76-0	1000	96.7				-
2,2',3,3',4,4',5,5'-OxCB	PCB-194	35694-08-7	1000	83.4				-
2,3,3',4,4',5,5',6-OxCB	PCB-205	74472-53-0	1000	94.7	60	135	Pass	61
2,2',3,3',4,5,5',6,6'-NoCB	PCB-208	52663-77-1	1000	86.7	60	135	Pass	63
2,2',3,3',4,4',5,5',6-NoCB	PCB-206	40186-72-9	1000	102	60	135	Pass	62
2,2',3,3',4,4',5,5',6,6'-DeCB	PCB-209	2051-24-3	1000	77.8	60	135	Pass	60

LOF - level of fortification

DATA REPORT

Client:
Client ID:
Field ID:
PRL ID:

Liberty Lake Sewer and Water
Dist.

Inf Comp #2

PR242288

Contact: Greg Sattler

Date Extracted: 9/4/2024

Date Analysed: 9/10/2024

HRMS File: FS09102412

IUPAC Name	PBDE #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2,6-DiBDE	BDE010		0.9	0.9	UJ	21
2,4-DiBDE	BDE007		4.7	0.8	NJ	21
4,4'-DiBDE	BDE015	2050-47-7	24.9	0.4		21
2,4,6-TrBDE	BDE030		2.5	2.5	UJ	21
2,2',4-TrBDE	BDE017	147217-75-2	125	1.9		21
2,4,4'-TrBDE	BDE028	41318-75-6	317	1.7		21
2,2',4,5'-TeBDE	BDE049	243982-82-3	419	6.3		42
2,3',4',6-TeBDE	BDE071	189084-62-6	180	10.6		42
2,2',4,4'-TeBDE	BDE047	5436-43-1	18700	5.1		42
2,3',4,4'-TeBDE	BDE066	189084-61-5	9.0	9.0	UJ	42
3,3',4,4'-TeBDE	BDE077	93703-48-1	5.3	5.3	UJ	42
2,2',4,4',6-PeBDE	BDE100	189084-64-8	4100	3.1		42
2,3',4,4',6-PeBDE	BDE119	189084-66-0	4.8	4.8	UJ	42
2,2',4,4',5-PeBDE	BDE099	60348-60-9	19700	4.2		42
2,2',3,4,4'-PeBDE	BDE085	182346-21-0	734	5.2		42
3,3',4,4',5-PeBDE	BDE126	366791-32-4	3.6	3.6	UJ	42
2,2',4,4',5,6'-HxBDE	BDE154	207122-15-4	1640	4.6		42
2,2',4,4',5,5'-HxBDE	BDE153	68631-49-2	1650	6.3		42
2,2',3,4,4',6-HxBDE	BDE139		220	5.4	N	42
2,2',3,4,4',6'-HxBDE	BDE140	243982-83-4	73.6	5.3	N	42
2,2',3,4,4',5'-HxBDE	BDE138	182677-30-1	175	6.9		42
	BDE156/169		10.6	6.0	NJ	84
2,2',3,4,4',6,6'-HpBDE	BDE184		15.3	3.1	J	84
2,2',3,4,4',5',6-HpBDE	BDE183	207122-16-5	217	3.7		84
2,3,3',4,4',5',6-HpBDE	BDE191		6.2	6.2	UJ	84
2,2',3,4,4',5,5'-HpBDE	BDE180		21.5	5.9	NJ	84
2,2',3,3',4,4',6-HpBDE	BDE171		9.8	5.4	NJ	84
2,2',3,3',4,5',6,6'-OcBDE	BDE201		59.1	3.7	J	84
	BDE197/204		102	3.1	J	168
2,2',3,4,4',5,5',6-OcBDE	BDE203	337513-72-1	110	3.4		84
2,2',3,3',4,4',5,6'-OcBDE	BDE196		123	3.5		84
2,3,3',4,4',5,5',6-OcBDE	BDE205	446255-56-7	5.4	5.4	UJ	84
2,2',3,3',4,5,5',6,6'-NoBDE	BDE208		462	5.5		211
2,2',3,3',4,4',5,6,6'-NoBDE	BDE207	437701-79-6	607	4.5		211
2,2',3,3',4,4',5,5',6-NoBDE	BDE206	63387-28-0	5.8	5.8		211
2,2',3,3',4,4',5,5',6,6'-DeBDE	BDE209	1163-19-5	27200	6.7		211
Total PBDE			78100	0.4		

DATA REPORT

Client: Liberty Lake Sewer and Water
Client ID: Dist.
Field ID: Inf Comp #2
PRL ID: PR242288

Contact: Greg Sattler
Date Extracted: 9/4/2024
Date Analysed: 9/10/2024
HRMS File: FS09102412

IUPAC Name	PBDE #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
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Standard Recoveries		
Chemical Name	IUPAC #	%
¹³ C ₁₂ -4,4'-DiBDE	15L	78
¹³ C ₁₂ -2,4,4'-TrBDE	28L	77
¹³ C ₁₂ -2,2',4,4'-TeBDE	47L	73
¹³ C ₁₂ -3,3',4,4'-TeBDE	77L	72
¹³ C ₁₂ -2,2',4,4',6-PeBDE	100L	72
¹³ C ₁₂ -2,2',4,4',5-PeBDE	99L	80
¹³ C ₁₂ -3,3',4,4',5-PeBDE	126L	84
¹³ C ₁₂ -2,2',4,4',5,6'-HxBDE	154L	63
¹³ C ₁₂ -2,2',4,4',5,5'-HxBDE	153L	70
¹³ C ₁₂ -3,3',4,4',5,5'-HxBDE	169L	79
¹³ C ₁₂ -2,2',3,4,4',5',6-HpBDE	183L	70
¹³ C ₁₂ -2,2',3,3',4,4',6,6'-OcBDE	197L	111
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcBDE	205L	96
¹³ C ₁₂ -2,2',3,3',4,4',5,6,6'-NoBD	207L	70
¹³ C ₁₂ -DeBDE	209L	50
¹³ C ₁₂ -2,2',3,4,4',5'-HxBDE	138L	72

DATA REPORT

Client:
Client ID:
Field ID:
PRL ID:

Liberty Lake Sewer and Water
Dist.

Eff Comp #2

PR242290

Contact: Greg Sattler

Date Extracted: 9/4/2024

Date Analysed: 9/10/2024

HRMS File: FS09102413

IUPAC Name	PBDE #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2,6-DiBDE	BDE010		1.3	1.3	UJ	21
2,4-DiBDE	BDE007		6.0	1.1	J	21
4,4'-DiBDE	BDE015	2050-47-7	1.5	0.6	J	21
2,4,6-TrBDE	BDE030		1.6	1.6	UJ	21
2,2',4-TrBDE	BDE017	147217-75-2	16.5	1.2	J	21
2,4,4'-TrBDE	BDE028	41318-75-6	7.8	1.1	J	21
2,2',4,5'-TeBDE	BDE049	243982-82-3	7.5	1.6	J	41
2,3',4',6'-TeBDE	BDE071	189084-62-6	5.3	2.6	NJ	41
2,2',4,4'-TeBDE	BDE047	5436-43-1	123	1.3		41
2,3',4,4'-TeBDE	BDE066	189084-61-5	6.7	2.2	NJ	41
3,3',4,4'-TeBDE	BDE077	93703-48-1	1.3	1.3	UJ	41
2,2',4,4',6-PeBDE	BDE100	189084-64-8	12.4	1.4	J	41
2,3',4,4',6-PeBDE	BDE119	189084-66-0	6.0	2.2	J	41
2,2',4,4',5-PeBDE	BDE099	60348-60-9	46.4	2.0		41
2,2',3,4,4'-PeBDE	BDE085	182346-21-0	2.4	2.4	UJ	41
3,3',4,4',5-PeBDE	BDE126	366791-32-4	1.6	1.6	UJ	41
2,2',4,4',5,6'-HxBDE	BDE154	207122-15-4	8.0	4.3	NJ	41
2,2',4,4',5,5'-HxBDE	BDE153	68631-49-2	5.8	5.8	UJ	41
2,2',3,4,4',6-HxBDE	BDE139		6.5	5.6	NJ	41
2,2',3,4,4',6'-HxBDE	BDE140	243982-83-4	5.4	5.4	UJ	41
2,2',3,4,4',5'-HxBDE	BDE138	182677-30-1	7.1	7.1	UJ	41
	BDE156/169		7.5	7.5	UJ	83
2,2',3,4,4',6,6'-HpBDE	BDE184		2.1	2.1	UJ	83
2,2',3,4,4',5',6'-HpBDE	BDE183	207122-16-5	2.8	2.5	NJ	83
2,3,3',4,4',5',6'-HpBDE	BDE191		5.0	4.3	NJ	83
2,2',3,4,4',5,5'-HpBDE	BDE180		4.1	4.1	UJ	83
2,2',3,3',4,4',6-HpBDE	BDE171		3.7	3.7	UJ	83
2,2',3,3',4,5',6,6'-OcBDE	BDE201		3.1	3.1	UJ	83
	BDE197/204		2.6	2.6	UJ	165
2,2',3,4,4',5,5',6-OcBDE	BDE203	337513-72-1	5.9	2.9	NJ	83
2,2',3,3',4,4',5,6'-OcBDE	BDE196		6.4	2.9	NJ	83
2,3,3',4,4',5,5',6-OcBDE	BDE205	446255-56-7	4.4	4.4	UJ	83
2,2',3,3',4,5,5',6,6'-NoBDE	BDE208		5.3	5.3	UJ	206
2,2',3,3',4,4',5,6,6'-NoBDE	BDE207	437701-79-6	12.4	4.4	NJ	206
2,2',3,3',4,4',5,5',6-NoBDE	BDE206	63387-28-0	5.6	5.6	UJ	206
2,2',3,3',4,4',5,5',6,6'-DeBDE	BDE209	1163-19-5	235	7.6		206
Total PBDE			462	0.6		

DATA REPORT

Client: Liberty Lake Sewer and Water
 Client ID: Dist.
 Field ID: Eff Comp #2
 PRL ID: PR242290

Contact: Greg Sattler
 Date Extracted: 9/4/2024
 Date Analysed: 9/10/2024
 HRMS File: FS09102413

IUPAC Name	PBDE #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
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Standard Recoveries		
Chemical Name	IUPAC #	%
¹³ C ₁₂ -4,4'-DiBDE	15L	69
¹³ C ₁₂ -2,4,4'-TrBDE	28L	74
¹³ C ₁₂ -2,2',4,4'-TeBDE	47L	70
¹³ C ₁₂ -3,3',4,4'-TeBDE	77L	70
¹³ C ₁₂ -2,2',4,4',6-PeBDE	100L	64
¹³ C ₁₂ -2,2',4,4',5-PeBDE	99L	72
¹³ C ₁₂ -3,3',4,4',5-PeBDE	126L	72
¹³ C ₁₂ -2,2',4,4',5,6'-HxBDE	154L	59
¹³ C ₁₂ -2,2',4,4',5,5'-HxBDE	153L	63
¹³ C ₁₂ -3,3',4,4',5,5'-HxBDE	169L	58
¹³ C ₁₂ -2,2',3,4,4',5',6-HpBDE	183L	69
¹³ C ₁₂ -2,2',3,3',4,4',6,6'-OcBDE	197L	112
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcBDE	205L	98
¹³ C ₁₂ -2,2',3,3',4,4',5,6,6'-NoBD	207L	62
¹³ C ₁₂ -DeBDE	209L	35
¹³ C ₁₂ -2,2',3,4,4',5'-HxBDE	138L	74

QC REPORT - BLANK

Client:

Liberty Lake Sewer and Water
Dist.

Client ID:

BLANK

Field ID:

PRL ID:

BDE240596B

Contact: Greg Sattler

Date Extracted: 9/4/2024

Date Analysed: 9/10/2024

HRMS File: FS09102411

IUPAC Name	PBDE #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
2,6-DiBDE	BDE010		1.1	1.1	NJ	20
2,4-DiBDE	BDE007		0.9	0.9	UJ	20
4,4'-DiBDE	BDE015	2050-47-7	2.3	0.5	NJ	20
2,4,6-TrBDE	BDE030		1.3	1.3	UJ	20
2,2',4-TrBDE	BDE017	147217-75-2	1.0	1.0	UJ	20
2,4,4'-TrBDE	BDE028	41318-75-6	4.7	0.9	J	20
2,2',4,5'-TeBDE	BDE049	243982-82-3	7.2	1.2	J	40
2,3',4',6'-TeBDE	BDE071	189084-62-6	2.1	2.1	UJ	40
2,2',4,4'-TeBDE	BDE047	5436-43-1	21.8	1.0	J	40
2,3',4,4'-TeBDE	BDE066	189084-61-5	6.8	1.7	J	40
3,3',4,4'-TeBDE	BDE077	93703-48-1	2.4	1.0	J	40
2,2',4,4',6-PeBDE	BDE100	189084-64-8	6.2	1.1	J	40
2,3',4,4',6-PeBDE	BDE119	189084-66-0	1.7	1.7	UJ	40
2,2',4,4',5-PeBDE	BDE099	60348-60-9	15.4	1.5	J	40
2,2',3,4,4'-PeBDE	BDE085	182346-21-0	1.9	1.9	UJ	40
3,3',4,4',5-PeBDE	BDE126	366791-32-4	2.6	1.2	NJ	40
2,2',4,4',5,6'-HxBDE	BDE154	207122-15-4	3.8	3.8	UJ	40
2,2',4,4',5,5'-HxBDE	BDE153	68631-49-2	5.1	5.1	UJ	40
2,2',3,4,4',6-HxBDE	BDE139		4.8	4.8	UJ	40
2,2',3,4,4',6'-HxBDE	BDE140	243982-83-4	4.7	4.7	UJ	40
2,2',3,4,4',5'-HxBDE	BDE138	182677-30-1	6.1	6.1	UJ	40
	BDE156/169		6.2	6.2	UJ	80
2,2',3,4,4',6,6'-HpBDE	BDE184		4.0	1.7	NJ	80
2,2',3,4,4',5',6'-HpBDE	BDE183	207122-16-5	2.0	2.0	UJ	80
2,3,3',4,4',5',6'-HpBDE	BDE191		3.4	3.4	UJ	80
2,2',3,4,4',5,5'-HpBDE	BDE180		3.3	3.3	UJ	80
2,2',3,3',4,4',6-HpBDE	BDE171		3.0	3.0	UJ	80
2,2',3,3',4,5',6,6'-OcBDE	BDE201		3.0	3.0	UJ	80
	BDE197/204		9.7	2.5	NJ	160
2,2',3,4,4',5,5',6-OcBDE	BDE203	337513-72-1	2.8	2.8	UJ	80
2,2',3,3',4,4',5,6'-OcBDE	BDE196		2.8	2.8	UJ	80
2,3,3',4,4',5,5',6-OcBDE	BDE205	446255-56-7	4.0	4.0	UJ	80
2,2',3,3',4,5,5',6,6'-NoBDE	BDE208		3.4	3.4	UJ	200
2,2',3,3',4,4',5,6,6'-NoBDE	BDE207	437701-79-6	22.0	2.9	J	200
2,2',3,3',4,4',5,5',6-NoBDE	BDE206	63387-28-0	3.6	3.6	J	200
2,2',3,3',4,4',5,5',6,6'-DeBDE	BDE209	1163-19-5	64.8	6.4	J	200
Total PBDE			167	0.5		

QC REPORT - BLANK

Client:

Liberty Lake Sewer and Water
Dist.

Client ID:

BLANK

Field ID:

PRL ID:

BDE240596B

Contact: Greg Sattler

Date Extracted: 9/4/2024

Date Analysed: 9/10/2024

HRMS File: FS09102411

IUPAC Name	PBDE #	CAS #	Conc. pg/L	DL pg/L	Flag	EQL pg/L
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Standard Recoveries		
Chemical Name	IUPAC #	%
¹³ C ₁₂ -4,4'-DiBDE	15L	77
¹³ C ₁₂ -2,4,4'-TrBDE	28L	90
¹³ C ₁₂ -2,2',4,4'-TeBDE	47L	88
¹³ C ₁₂ -3,3',4,4'-TeBDE	77L	93
¹³ C ₁₂ -2,2',4,4',6-PeBDE	100L	83
¹³ C ₁₂ -2,2',4,4',5-PeBDE	99L	96
¹³ C ₁₂ -3,3',4,4',5-PeBDE	126L	99
¹³ C ₁₂ -2,2',4,4',5,6'-HxBDE	154L	73
¹³ C ₁₂ -2,2',4,4',5,5'-HxBDE	153L	82
¹³ C ₁₂ -3,3',4,4',5,5'-HxBDE	169L	76
¹³ C ₁₂ -2,2',3,4,4',5',6-HpBDE	183L	82
¹³ C ₁₂ -2,2',3,3',4,4',6,6'-OcBDE	197L	150
¹³ C ₁₂ -2,3,3',4,4',5,5',6-OcBDE	205L	136
¹³ C ₁₂ -2,2',3,3',4,4',5,6,6'-NoBD	207L	98
¹³ C ₁₂ -DeBDE	209L	55
¹³ C ₁₂ -2,2',3,4,4',5'-HxBDE	138L	88

QC REPORT - SPIKE

Client: Liberty Lake Sewer and Water Dist.
 Client ID: SPIKE (LCS)
 Field ID:
 PRL ID: BDE240597S

Contact: Greg Sattler
 Date Extracted: 9/4/2024
 Date Analysed: 9/10/2024
 HRMS File: FS09102409

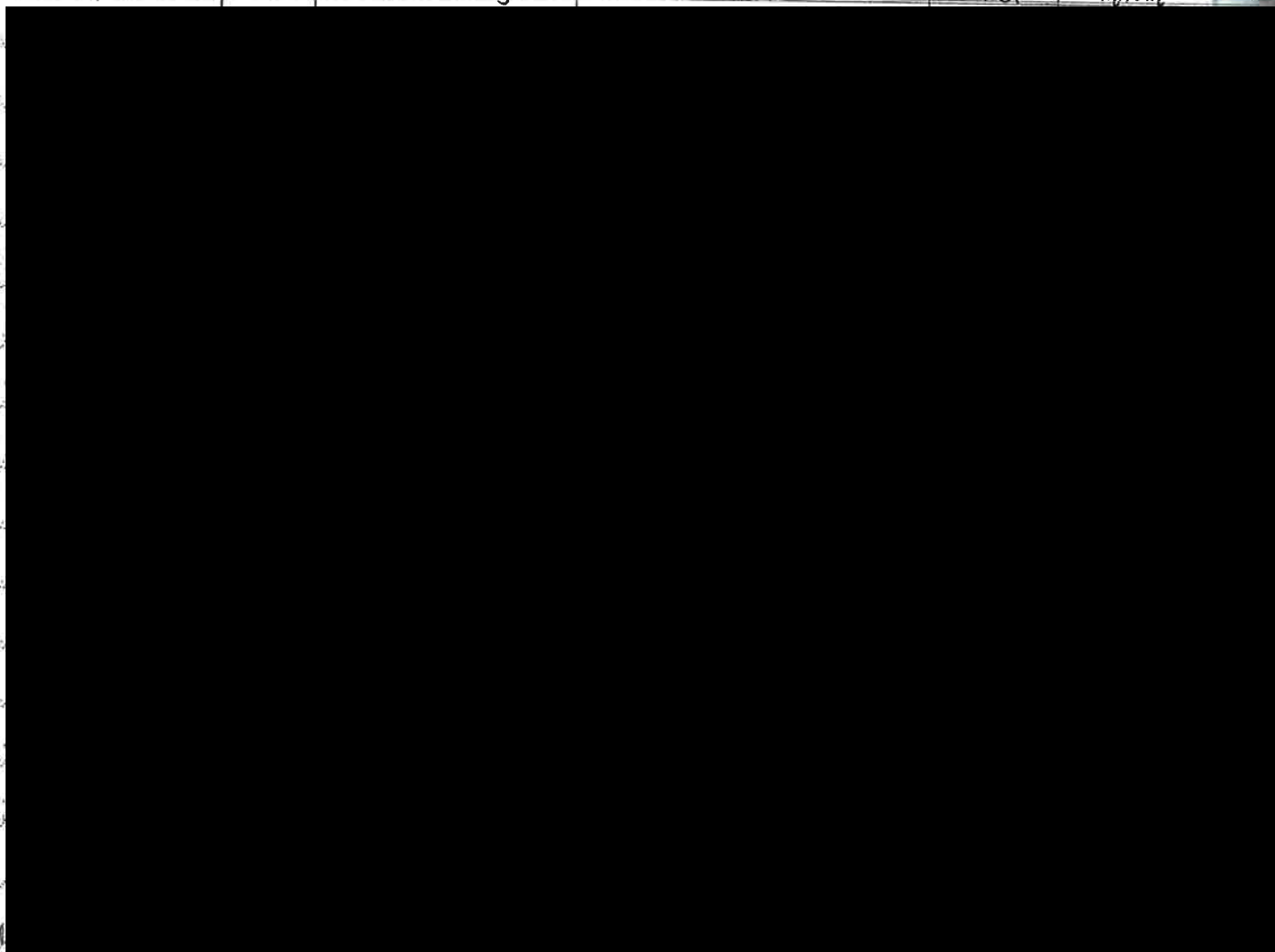
Polybrominated Diphenyl Ethers					Accept. Recovery		Pass/Fail	Surrogate Recoveries
Chemical Name	IUPAC #	CAS No.	LOF pg/L	Recovery %	Min %	Max %		%
2,6-DiBDE	BDE010		1000	15				
2,4-DiBDE	BDE007		1000	39				
4,4'-DiBDE	BDE015	2050-47-7	1000	87	50	150	Pass	74
2,4,6-TrBDE	BDE-030		1000	57				-
2,2',4-TrBDE	BDE-017	147217-75-2	1000	104				-
2,4,4'-TrBDE	BDE-028	41318-75-6	1000	102	50	150	Pass	76
2,2',4,5'-TeBDE	BDE-049	243982-82-3	2000	80				-
2,3',4',6-TeBDE	BDE-071	189084-62-6	2000	128				-
2,2',4,4'-TeBDE	BDE-047	5436-43-1	2000	101	50	150	Pass	72
2,3',4,4'-TeBDE	BDE-066	189084-61-5	2000	101				-
3,3',4,4'-TeBDE	BDE-077	93703-48-1	2000	92	50	150	Pass	74
2,2',4,4',6-PeBDE	BDE-100	189084-64-8	2000	104	50	150	Pass	68
2,3',4,4',6-PeBDE	BDE-119	189084-66-0	2000	102				-
2,2',4,4',5-PeBDE	BDE-099	60348-60-9	2000	105	50	150	Pass	79
2,2',3,4,4'-PeBDE	BDE-085	182346-21-0	2000	111				-
3,3',4,4',5-PeBDE	BDE-126	366791-32-4	2000	103	50	150	Pass	83
2,2',4,4',5,6'-HxBDE	BDE-154	207122-15-4	2000	113	50	150	Pass	64
2,2',4,4',5,5'-HxBDE	BDE-153	68631-49-2	2000	98	50	150	Pass	76
2,2',3,4,4',6-HxBDE	BDE-139		2000	104				-
2,2',3,4,4',6'-HxBDE	BDE-140	243982-83-4	2000	108				-
2,2',3,4,4',5'-HxBDE	BDE-138	182677-30-1	2000	101				-
2,3,3',4,4',5/3,3',4,4',5,5'-HxBDE	BDE-156/169		4000	99	50	150	Pass	77
2,2',3,4,4',6,6'-HpBDE	BDE-184		4000	112				-
2,2',3,4,4',5',6-HpBDE	BDE-183	207122-16-5	4000	110	50	150	Pass	69
2,3,3',4,4',5',6-HpBDE	BDE-191		4000	108				-
2,2',3,4,4',5,5'-HpBDE	BDE-180		4000	102				-
2,2',3,3',4,4',6-HpBDE	BDE-171		4000	108				-
2,2',3,3',4,5',6,6'-OcBDE	BDE-201		4000	99				-
2,2',3,3',4,4',6,6'-OcBDE/2,2',3,4,4',5,5',6-OcBDE	BDE197/204		8000	104	50	150	Pass	119
2,2',3,4,4',5,5',6-OcBDE	BDE-203	337513-72-1	4000	98				-
2,2',3,3',4,4',5,6'-OcBDE	BDE-196		4000	114				-
2,3,3',4,4',5,5',6-OcBDE	BDE-205	446255-56-7	4000	99	50	150	Pass	104
2,2',3,3',4,5,5',6,6'-NoBDE	BDE-208		10000	111				-
2,2',3,3',4,4',5,6,6'-NoBDE	BDE-207	437701-79-6	10000	111	50	150	Pass	71
2,2',3,3',4,4',5,5',6-NoBDE	BDE-206	63387-28-0	10000	115				-
2,2',3,3',4,4',5,5',6,6'-DeBDE	BDE-209	1163-19-5	10000	108	50	150	Pass	50

LOF - level of fortification

196

SMP - 054

Sample ID	Date	Quantity	Spike	Extraction	
				Soxhlet	Liq./Liq.



		(g)			
	23 Aug 24		1.0 mL PCSS-2830 [5.0 ng/mL] PRL-S-119 23 Aug 24 TN		100 mL Hexane Roller on 23 Aug 24 TN
PR242287 PC		834.70			
PR242289 PC		833.65	500 µL PCEN-1092 [10 ng/mL] PRL-S-127 26 Aug 24 CJ		
PC240556B PC		806.02			
PC240557S PC		818.82	1.0 mL PCST-1388 [1.0 ng/mL] PRL-S-119 23 Aug 24 TN		

197

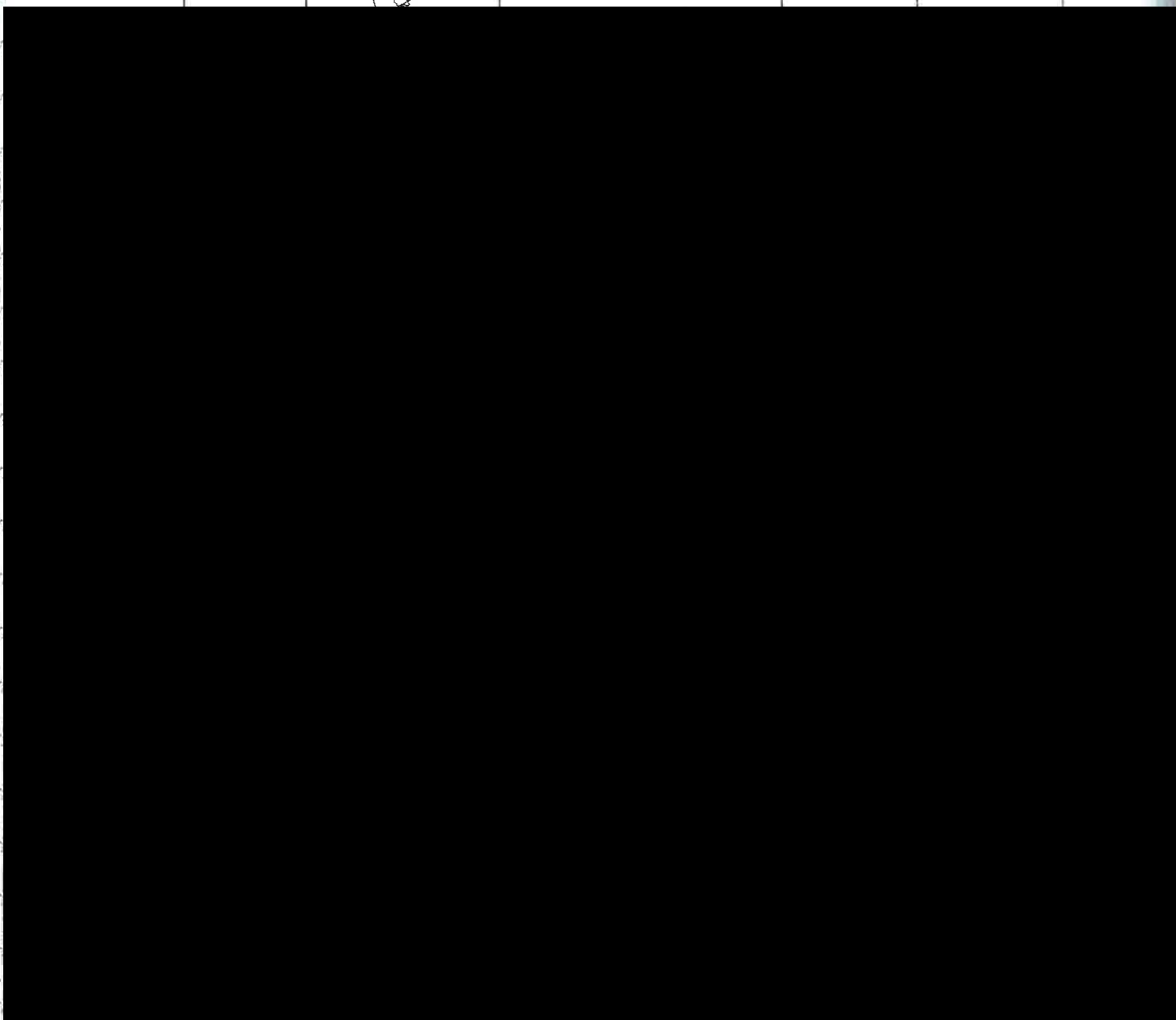


PACIFIC RIM
LABORATORIES INC

204

SMP - 054

SAMPLE ID	DATE	QTY	SPIKE	EXTRACTION		
				SOXHLET	LIG/LIQ	OTHERS

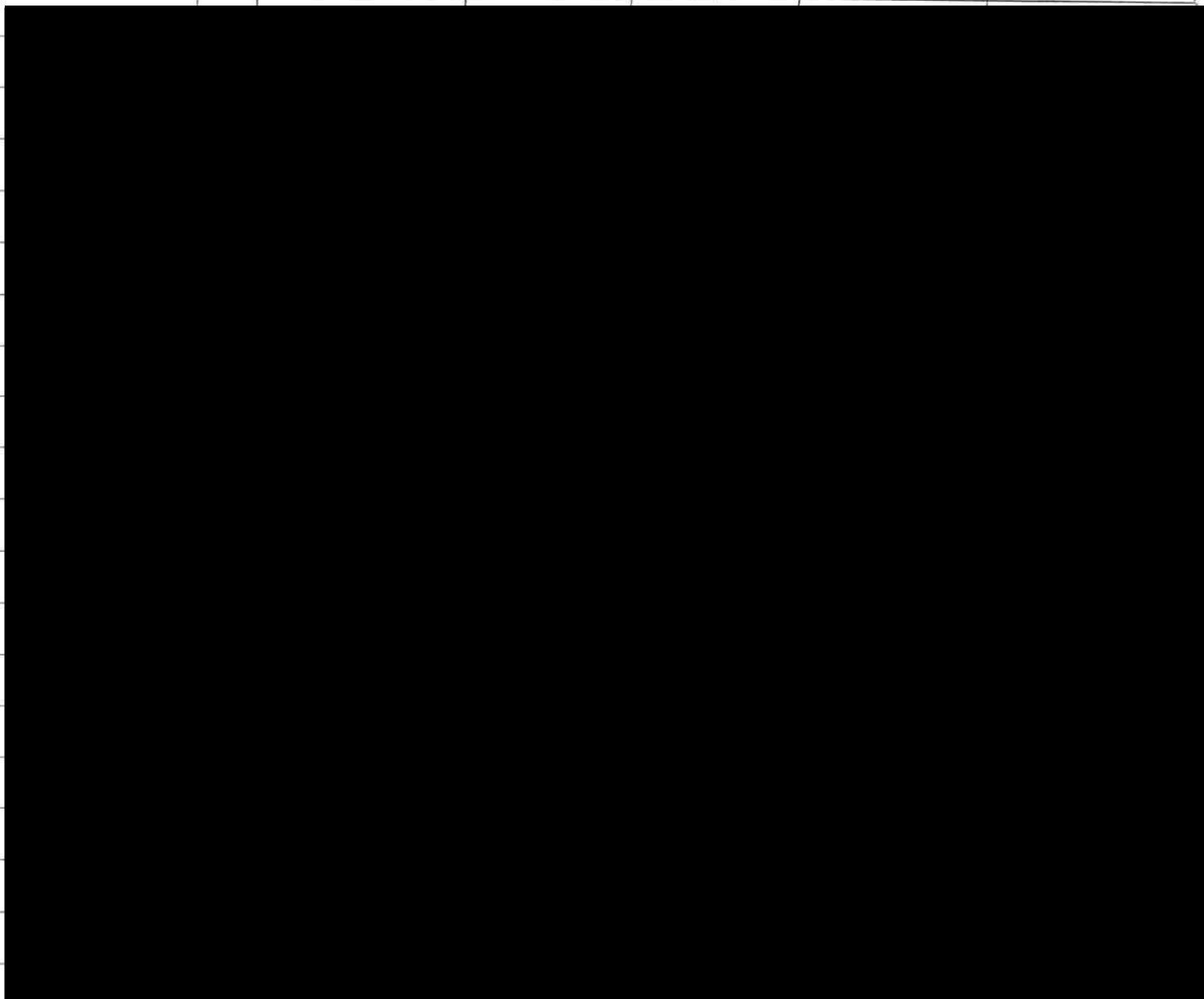


PR242288	04 Sept 24	950 mL	110µL BDESS-282 [100-2000 ng/mL]			DCM shake
PR242290		976 mL	PRL-S-124 04 Sept 24			04 Sept 24
BDE240596B		1 L	5µL BDECN [4000 ng/mL] PRL-S-124 03 Sept 24 CS			CS
BDE240597S		1 L	5µL BDEST-1184 [200-4000 ng/mL] PRL-S-124 04 Sept 24 CS			

A-00SMP-054

205

RS	CLEAN-UP			FINAL VOLUME	INTERNAL STANDARD	COMMENTS
	ACID WASH	CAPE	OTHERS			

H₂SO₄

05 Sept 24 CJ

Acid silica

All extract

AS15-22524

06 Sept 24 CJ

Alumina

09 Sept 24 CJ

100 mL Toluene

09 Sept 24 CJ

5 µL BDEIS-09381

[200-1000 ng/mL]

PRL-S-128

09 Sept 24 CJ

Liberty Lake

PBDE w



Page 30 of 30


COMPANY: Liberty Lake Sewer and Water District PHONE: 509-368-4593 or 509-922-5443

ADDRESS: 22510 E. Mission Ave EMAIL: gsattler@libertylake.org

Liberty Lake, WA 99019
DATE: 8/13/2024 PO #: 24659

CONTACT: Greg Sattler PROJECT: AUG 2024 PCB (Inf+Err) And PBDE (Inf+Err)

[illegible]

Sampler's Signature 	Relinquished by: AARON ROBERTS	Company LLSUND	Date 8/13/2024	Time 1200	Received by: CJ
Comments:	Method of Shipment FedEx	Waybill No.:	Rec'd for PRL:	Date 19AUG24	Time 1:25 pm
	Shipment Condition	Temp.: 24.1°C	Cooler Opened By: CJ		