

Testing file

DIOXIN AND FURAN RESIDUES IN FISH/SHELLFISH FROM THE VICINITY OF ELK FALLS PULP MILL (BC) - PARTS PER TRILLION

SAMIS

Aug 26/93

NO.	SITE	LAB ID NO	% LIPID	SPECIES/TISSUE	IND. PER COMP.	2,3,7,8 SUBST. TCDD	TOTAL TCDD	2,3,7,8 SUBST. PCDD	TOTAL PCDD	2,3,7,8 SUBST. H6CDD	TOTAL H6CDD	2,3,7,8 SUBST. H7CDD	TOTAL H7CDD	OCDD	2,3,7,8 SUBST. TCDF	TOTAL TCDF	1,2,3,7,8 PCDF	2,3,4,7,8 PCDF	2,3,7,8 SUBST. PCDF	TOTAL PCDF	2,3,7,8 SUBST. H6CDF	TOTAL H6CDF	2,3,7,8 SUBST. H7CDF	TOTAL H7CDF	OCDF
1	DUNCAN BAY C4-1 0.7 KM W of OUTFALL	2604-07	0.79	Dungeness Crab - leg muscle	1	<0.5	<0.5	<0.7	<0.7	<1.1	<1.1	<1.8	<1.8	<3.3	4.8	5.6	<0.4	<0.4	<0.4	<0.4	<1.2	<1.2	<2.1	<2.1	<3.3
2	DUNCAN BAY C4-2 0.7 KM W of OUTFALL	2604-08	0.69	Dungeness Crab - leg muscle	1	<0.7	<0.7	<1.2	<1.2	<1.4	<1.4	<2.4	<2.4	<5.2	2.1	2.1	<0.6	<0.6	<0.6	<0.6	<1.3	<1.3	<2.2	<2.2	<4.4
3	DUNCAN BAY C4-3 0.7 KM W of OUTFALL	2604-09	0.68	Dungeness Crab - leg muscle	1	<0.6	<0.6	<0.9	<0.9	<0.9	<0.9	<1.5	<1.5	<2.4	2.5	2.5	<0.5	<0.5	<0.5	<0.5	<0.8	<0.8	<1.5	<1.5	<2.3
	AVERAGE OF SAMPLES 1, 2, 3			Dungeness Crab - leg muscle		<0.7	<0.7	<1.2	<1.2	<1.4	<1.4	<2.4	<2.4	<5.2	3.1	3.4	<0.6	<0.6	<0.6	<0.6	<1.3	<1.3	<2.2	<2.2	<4.4
4	DUNCAN BAY C4 0.7 KM W of OUTFALL	2645-03A	1.01	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.4	<0.4	0.9	1.0	<4.5	<4.5	<6.3	7.4	10	0.6	0.4	1.0	1.5	<0.8	<0.8	<1.2	<1.2	<1.2
5	DUNCAN BAY C4 0.7 KM W of OUTFALL	2645-03B Duplicate	1.06	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.4	<0.4	0.9	0.9	<3.6	<3.6	<6.5	5.6	7.5	0.5	0.3	0.8	0.8	<0.9	<0.9	<1.3	<1.3	<1.3
	AVERAGE OF SAMPLES 4 & 5			Dungeness Crab - leg muscle		<0.2	<0.2	<0.4	<0.4	0.9	1.0	<4.5	<4.5	<6.5	6.5	8.8	0.6	0.4	1.0	1.2	<0.9	<0.9	<1.3	<1.3	<1.3
6	DUNCAN BAY C4 0.7 KM W of OUTFALL	2645-04	1.02	Dungeness Crab - leg muscle	1	<0.2	<0.2	<0.4	<0.4	1.0	5.0	<5.2	<5.2	<12	8.2	11	<0.4	<0.4	<0.4	1.2	<0.8	2.4	<1.7	<1.7	<1.7
7	DUNCAN BAY C4 0.7 KM W of OUTFALL	2645-05	0.86	Dungeness Crab - leg muscle	1	<0.1	<0.1	<0.2	<0.2	<0.8	<0.8	<3.4	<3.4	<12	4.4	5.9	<0.6	<0.6	<0.6	<0.6	<0.8	<0.8	<1.5	<1.5	<1.5
	AVERAGE OF SAMPLES 4 & 5, 6, 7			Dungeness Crab - leg muscle		<0.2	<0.2	<0.4	<0.4	0.6	2.0	<5.2	<5.2	<12.0	6.4	8.6	0.2	0.1	0.3	0.8	<0.9	0.8	<1.7	<1.7	<1.7
8	MAY ISLAND C2 4.4 KM NE of OUTFALL	2604-05	12.80	Dungeness Crab - hepatopancreas	3	6.3	8.1	44.0	100.0	265.5	570.0	16.0	23.0	4.2	350.0	480.0	5.8	16.0	21.8	61.0	<1.0	15.0	2.8	3.8	<3.3
9	MAY ISLAND C2 4.4 KM NE of OUTFALL	2604-11	3.73	Dungeness Crab - hepatopancreas	3	8.5	8.5	16.0	29.0	95.0	220.0	8.1	14.0	<5.1	810.0	980.0	7.4	24.0	31.4	58.0	<1.8	15.0	<2.8	<2.8	<4.7
	AVERAGE OF SAMPLES 8 & 9			Dungeness Crab - hepatopancreas		7.4	8.3	30.0	64.5	180.3	395.0	12.1	18.5	2.1	580.0	730.0	6.6	20.0	26.6	59.5	<1.8	15.0	1.4	1.9	<4.7
10	DUNCAN BAY C4 0.7 KM W of OUTFALL	2604-06	15.30	Dungeness Crab - hepatopancreas	3	7.8	9.5	21.0	38.0	112.0	210.0	30.0	49.0	24.0	640.0	810.0	13.0	22.0	35.0	130.0	<1.0	130.0	30.0	46.0	<4.4
11	GOWLLAND HARBOUR C5 5.5 KM SE of OUTFALL	2604-10	13.50	Dungeness Crab - hepatopancreas	3	6.1	6.1	28.0	59.0	179.0	380.0	12.0	23.0	5.8	470.0	570.0	5.9	22.0	27.9	49.0	<1.5	7.5	2.5	3.4	<1.9
12	TYEE SPIT C7 4.4 KM S of OUTFALL	2604-11	3.73	Dungeness Crab - hepatopancreas	3	8.5	8.5	16.0	29.0	95.0	220.0	8.1	14.0	<5.1	810.0	980.0	7.4	24.0	31.4	58.0	<1.8	15.0	<2.8	<2.8	<4.7

DIOXIN AND FURAN RESIDUES IN FISH/SHELLFISH FROM THE VICINITY OF ELK FALLS PULP MILL (BC) - PARTS PER TRILLION

NO.	SITE	LAB ID NO	% LIPID	SPECIES/TISSUE	IND. PER COMP.	2,3,7,8 SUBST. TCDD	TOTAL TCDD	2,3,7,8 SUBST. PCDD	TOTAL PCDD	2,3,7,8 SUBST. H6CDD	TOTAL H6CDD	2,3,7,8 SUBST. H7CDD	TOTAL H7CDD	OCDD	2,3,7,8 SUBST. TCDF	TOTAL TCDF	1,2,3,7,8 PCDF	2,3,4,7,8 PCDF	2,3,7,8 SUBST. PCDF	TOTAL PCDF	2,3,7,8 SUBST. H6CDF	TOTAL H6CDF	2,3,7,8 SUBST. H7CDF	TOTAL H7CDF	OCDF
13 2854-2 27-02-92	MAY ISLAND C2 4.4 KM NE of OUTFALL	2645-02	11.7	Dungeness Crab - hepatopancreas	3	3.3	10	29	92	228	620	16	24	<17	270	360	5.6	15	22	58	4.9	26	4.9	7.6	<1.5
14 2854-8 27-02-92	CAMPBELL RIVER C2* 4.4 KM NE of OUTFALL	2645-08	12.9	Dungeness Crab - hepatopancreas	3	3.7	3.7	12	19	73	220	12	27	12	490	580	5.7	14	20	39	<1.7	47	9.8	9.8	<2.2
AVERAGE OF SAMPLES 13 & 14				Dungeness Crab - hepatopancreas		3.5	6.9	20.5	55.5	150.5	420.0	14.0	25.5	6.0	380.0	470.0	5.7	14.5	21.0	48.5	2.5	36.5	7.4	8.7	<2.2
15 2854-6 27-02-92	DUNCAN BAY C4 0.7 KM W of OUTFALL	2645-06	12.6	Dungeness Crab - hepatopancreas	3	4.7	9.7	16	39	89	190	19	31	<13	570	700	24	29	53	110	11	70	16	19	<1.5
16 2854-7 27-02-92	GOWLLAND HARBOUR C5 5.5 KM SE of OUTFALL	2645-07	7.72	Dungeness Crab - hepatopancreas	3	2.2	5.6	14	46	86	260	5.7	12	<13	130	160	2.2	5.4	7.6	22	1.0	9.0	1.9	1.9	<1.7
17 2854-8 27-02-92	TYEE SPIT C7 4.4 KM S of OUTFALL	2645-08	12.9	Dungeness Crab - hepatopancreas	3	3.7	3.7	12	19	73	220	12	27	12	490	580	5.7	14	20	39	<1.7	47	9.8	9.8	<2.2
18 2854-9 25-02-92	SUTIL CHANNEL C9 19.8 KM SE of OUTFALL (TRAVELLING DISTANCE)	2645-09	0.66	Box Crab - leg muscle	1	NDR(0.2)	<0.1	<0.2	<0.2	<0.2	2.2	NDR(0.9)	1.4	3.8	5.0	5.3	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.4	<0.4	<0.6
19 2854-10 25-02-92	SUTIL CHANNEL C9 19.8 KM SE of OUTFALL (TRAVELLING DISTANCE)	2645-10	0.70	Box Crab - leg muscle	1	NDR(0.2)	<0.1	<0.3	<0.3	3.3	9.6	4.2	11	21	6.6	6.9	<0.2	<0.2	<0.2	<0.2	<0.9	<0.9	<0.9	<0.9	<0.9
20 2854-11 25-02-92	SUTIL CHANNEL C9 19.8 KM SE of OUTFALL (TRAVELLING DISTANCE)	2645-11	0.63	Box Crab - leg muscle	1	<0.1	<0.1	0.3	0.7	1.3	1.3	3.0	6.7	4.9	5.6	6.1	<0.2	<0.2	<0.2	<0.2	<0.2	1.8	0.8	0.8	<1.0
AVERAGE OF SAMPLES 18, 19, 20				Box Crab - leg muscle		NDR(0.2)	<0.1	0.1	0.2	1.5	4.4	2.4	6.4	9.9	5.7	6.1	<0.2	<0.2	<0.2	<0.2	<0.9	0.6	0.3	0.3	<1.0
21 2854-12 25-02-92	SUTIL CHANNEL C9 19.8 KM SE of OUTFALL (TRAVELLING DISTANCE)	2645-12	3.95	Box Crab - hepatopancreas	3	NDR(1.3)	<0.4	4.4	7.0	39	80	<2.4	4.2	NDR(8.6)	78	85	<0.5	<0.5	<0.5	<0.5	<1.1	<1.1	<2.2	<2.2	<1.9
22	MENZIES BAY C10-1 10.0 KM NW of OUTFALL	2604-13	0.89	Dungeness Crab - leg muscle	1	<0.4	<0.4	<1.0	<1.0	<1.2	<1.2	<2.6	<2.6	<6.4	1.5	1.5	<0.4	<0.4	<0.4	<0.4	<1.1	<1.1	<2.2	<2.2	<5.1
23	MENZIES BAY C10-2 10.0 KM NW of OUTFALL	2604-14	0.74	Dungeness Crab - leg muscle	1	<0.5	<0.5	<1.0	<1.0	<1.1	<1.1	<2.0	<2.0	<4.7	6.1	7.1	<0.5	<0.5	<0.5	<0.5	<1.1	<1.1	<2.0	<2.0	<4.1
24	MENZIES BAY C10-3 10.0 KM NW of OUTFALL	2604-15	0.84	Dungeness Crab - leg muscle	1	<0.3	<0.3	<0.7	<0.7	<1.2	<1.2	<1.7	<1.7	<4.0	4.8	5.5	<0.4	<0.4	<0.4	<0.4	<0.8	<0.8	<1.7	<1.7	<3.7

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NO.	SITE	LAB ID NO	% LIPID	SPECIES/TISSUE	IND. PER COMP.	2,3,7,8 SUBST. TCDD	TOTAL TCDD	2,3,7,8 SUBST. PCDD	TOTAL PCDD	2,3,7,8 SUBST. H6CDD	TOTAL H6CDD	2,3,7,8 SUBST. H7CDD	TOTAL H7CDD	OCDD	2,3,7,8 SUBST. TCDF	TOTAL TCDF	1,2,3,7,8 PCDF	2,3,4,7,8 PCDF	2,3,7,8 SUBST. PCDF	TOTAL PCDF	2,3,7,8 SUBST. H6CDF	TOTAL H6CDF	2,3,7,8 SUBST. H7CDF	TOTAL H7CDF	OCDF
AVERAGE OF SAMPLES 22, 23, 24				Dungeness Crab - leg muscle	3	<0.5	<0.5	<1.0	<1.0	<1.2	<1.2	<2.6	<2.6	<6.4	4.1	4.7	<0.5	<0.5	<0.5	<0.5	<1.1	<1.1	<2.2	<2.2	<5.1
25	MENZIES BAY C10 10.0 KM NW of OUTFALL	2604-12	9.14	Dungeness Crab - hepatopancreas	3	4.9	6.4	22.0	46.0	119.0	280.0	11.0	19.0	<3.7	250.0	360.0	2.8	9.1	11.9	36.0	<1.5	5.5	<2.3	<2.3	<3.7
26 2854-13 01-03-92	MENZIES BAY C10 10.0 KM NW of OUTFALL	2645-13	11.6	Dungeness Crab - hepatopancreas	3	3.0	8.4	22	66	220	720	16	31	6.6	280	360	5.1	11	16	40	2.3	33	8.9	11	<1.7
27 2854-14 01-03-92	PLUMPER BAY C12 13.0 KM N of OUTFALL	2645-14	18.3	Dungeness Crab - hepatopancreas	2	2.8	6.3	20	42	166	510	NDR(9.7)	<3.4	NDR(9.8)	270	330	3.7	9.6	13	24	<1.4	14	<2.9	<2.9	<4.5
28	MAUD ISLAND C1 8.8 KM NW of OUTFALL	2604-04	9.14	Dungeness Crab - hepatopancreas	1	1.2	1.2	14.0	24.0	96.0	260.0	8.9	14.0	<7.0	130.0	170.0	<1.0	3.0	3.0	5.7	<3.0	<3.0	<3.0	<3.0	<6.2
29 2854-1 01-03-92	MAUD ISLAND C1 8.8 KM NW of OUTFALL	2645-01	15.6	Dungeness Crab - hepatopancreas	1	2.3	6.2	11	32	66	210	12	20	<12	180	230	2.2	6.7	8.9	20	<0.9	7.1	1.6	2.7	<1.5
30 2854-15 01-03-92	KANISH BAY C13 24.2 KM N of OUTFALL	2645-15A	6.01	Dungeness Crab - hepatopancreas	3	1.4	6.3	13	35	142	470	14	28	16	110	140	1.7	3.4	5.1	10	<0.8	10	5.0	8.6	<3.4
31 2854-15 01-03-92	KANISH BAY C13 24.2 KM N of OUTFALL	2645-15B Duplicate	6.01	Dungeness Crab - hepatopancreas	3	1.4	6.3	14	43	144	500	11	20	NDR(8.9)	110	140	2.5	3.8	6.3	13	<1.1	14	6.4	6.4	<2.5
AVERAGE OF SAMPLES 30 & 31				Dungeness Crab - hepatopancreas		1.4	6.3	13.5	39.0	143.0	485.0	12.5	24.0	8.0	110.0	140.0	2.1	3.6	5.7	11.5	<1.1	12.0	5.7	7.5	<3.4
32	SUTIL CHANNEL C9 19.8 KM SE of OUTFALL (TRAVELLING DISTANCE)	2604-16	NA	Dungeness Crab - hepatopancreas	1	14.0	14.0	41.0	66.0	239.0	410.0	11.0	11.0	<8.6	1200.0	1400.0	6.6	26.0	32.6	55.0	<6.6	<6.6	<3.8	<3.8	<5.4
33 2854-16 25-02-92	NEAR MARINA ISLAND C15 24.0 KM SE of OUTFALL	2645-16	12.0	Dungeness Crab - hepatopancreas	1	1.9	6.5	6.4	12	35	100	NDR(6.0)	5.1	<5.2	150	190	1.4	3.3	4.7	6.7	<1.5	<1.5	<3.6	<3.6	<3.3
34 2854-17 25-02-92	EAST OF QUADRA ISLAND C16 30.8 KM E of OUTFALL (TRAVELLING DISTANCE)	2645-17	9.37	Dungeness Crab - hepatopancreas	1	2.2	5.4	11	41	15	490	40	88	34	120	140	<1.5	<1.5	<1.5	<1.5	<3.8	34	9.8	29	<6.5

THIS SITE IS SHARED WITH FLETCHER CHALLENGE CANADA (SITE C7), ELK FALLS PULP AND PAPER, CAMPBELL RIVER, B.C.