

<b>OPHA Sample No. FERA LIMS No. Sample Details:</b>	19831	19832	19833	19834	19835	19836	19837	19838
	S11-020943	S11-020944	S11-020945	S11-020946	S11-020947	S11-020948	S11-020949	S11-020950
	Mussels, PL54137, Dougold, 8/2/11	Mussels, PL54138, Donaghdee Sound, 8/2/11	Mussels, PL54143, Killough, 10/2/11	Mussels, PL54156, Narrow water, 14/2/11	Mussels, PL54177, Dundrum Inner South, 16/2/11	Mussels, PL54185, Mill Bay, 21/2/11	Mussels, PL54201, Foyle RMP 3, 22/2/11	Oysters, PL54302, Reagh Bay, 22/2/11
<b>ug/kg whole weight</b>								
PCB18	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB28	0.03	<0.01	<0.01	0.03	<0.01	0.04	<0.01	0.02
PCB31	0.02	<0.01	<0.01	0.03	<0.01	0.03	<0.01	0.01
PCB47	0.03	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.01
PCB49	0.07	<0.01	<0.01	0.02	<0.01	0.05	0.01	0.02
PCB51	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB52	0.14	0.02	<0.01	0.04	0.01	0.07	0.01	0.03
PCB99	0.27	0.04	0.01	0.03	0.02	0.10	0.03	0.07
PCB101	0.54	0.08	0.02	0.07	0.05	0.19	0.06	0.12
PCB105	0.13	0.03	<0.01	0.02	0.02	0.05	0.01	0.03
PCB114	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB118	0.43	0.07	0.02	0.07	0.05	0.16	0.04	0.12
PCB123	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB128	0.14	0.03	<0.01	0.02	0.02	0.04	0.01	0.02
PCB138	1.17	0.26	0.07	0.12	0.12	0.35	0.12	0.20
PCB153	1.57	0.30	0.09	0.14	0.14	0.44	0.16	0.31
PCB156	0.05	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
PCB157	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB167	0.04	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
PCB180	0.11	0.03	<0.01	<0.01	<0.01	0.04	0.01	0.03
PCB189	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
<b>WHO TEQ (pg/g whole) lower</b>	<b>0.09</b>	<b>0.02</b>	<b>&lt;0.01</b>	<b>0.01</b>	<b>0.01</b>	<b>0.03</b>	<b>0.01</b>	<b>0.02</b>
<b>WHO TEQ (pg/g whole) upper</b>	<b>0.10</b>	<b>0.03</b>	<b>0.02</b>	<b>0.03</b>	<b>0.02</b>	<b>0.04</b>	<b>0.02</b>	<b>0.03</b>
<b>ug/kg fat weight</b>								
PCB18	1.29	0.51	0.50	3.63	0.52	0.91	0.47	0.39
PCB28	4.87	1.81	1.37	10.89	1.56	3.86	1.33	1.41
PCB31	4.02	1.41	1.08	11.04	1.30	3.01	1.09	1.07

PCB47	5.69	1.34	0.73	3.80	1.01	2.95	1.06	1.00
PCB49	10.71	2.26	1.27	8.86	1.68	5.31	2.14	1.58
PCB51	0.30	0.07	0.07	0.45	0.07	0.09	0.09	0.11
PCB52	22.37	3.80	2.12	14.17	2.71	7.18	3.00	2.59
PCB99	44.90	9.49	4.06	13.23	4.88	10.04	5.99	5.54
PCB101	89.11	18.49	7.84	25.69	9.35	19.60	11.25	9.24
PCB105	21.83	5.94	2.67	8.21	3.13	4.90	2.10	2.35
PCB114	1.15	0.29i	0.08i	0.39	0.09i	0.26i	0.06i	0.08i
PCB118	71.20	17.51	8.21	25.29	9.72	15.63	8.08	8.68
PCB123	0.71	0.20	0.15	0.27	0.10	0.37	0.17	0.10
PCB128	22.60	8.17	2.97	5.80	3.15	4.11	2.26	1.38
PCB138	192.67	62.45	23.78	45.24	24.84	35.40	23.60	14.93
PCB153	259.36	70.56	28.25	54.22	28.96	43.89	33.10	23.10
PCB156	7.99	2.55	1.05	2.31	0.98	1.59	1.30	0.44
PCB157	2.89	1.38i	0.48i	0.97i	0.44	0.67i	0.43i	0.31i
PCB167	7.18	2.08	0.92	1.98	0.96	1.39	1.09	0.64
PCB180	18.51	6.32	1.95	3.60	1.88	3.75	2.67	1.93
PCB189	0.74	0.27	0.12i	0.20	0.13	0.17	0.14	0.04
<b>WHO TEQ (pg/g fat) lower</b>	<b>15.53</b>	<b>4.52</b>	<b>1.93</b>	<b>5.25</b>	<b>2.07</b>	<b>3.38</b>	<b>1.95</b>	<b>1.54</b>
<b>WHO TEQ (pg/g fat) upper</b>	<b>15.53</b>	<b>4.52</b>	<b>1.93</b>	<b>5.25</b>	<b>2.07</b>	<b>3.38</b>	<b>1.95</b>	<b>1.54</b>

i = indicative result only

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<b>FERA LIMS No.</b>	S11-020943	S11-020944	S11-020945	S11-020946	S11-020947	S11-020948	S11-020949	S11-020950
<b>Sample Details:</b>	Mussels, PL54137, Dougold, 8/2/11	Mussels, PL54138, Donaghdee Sound, 8/2/11	Mussels, PL54143, Killough, 10/2/11	Mussels, PL54156, Narrow water, 14/2/11	Mussels, PL54177, Dundrum Inner South, 16/2/11	Mussels, PL54185, Mill Bay, 21/2/11	Mussels, PL54201, Foyle RMP 3, 22/2/11	Oysters, PL54302, Reagh Bay, 22/2/11
<b>pg/g whole weight</b>								
PCB77	25.84	4.29	1.34	4.74	2.85	11.68	2.20	6.46
PCB81	0.75	0.20	0.08	0.27	0.18	0.65	0.10	0.45
PCB126	2.45	0.79	0.30	0.49	0.57	1.33	0.31	1.19
PCB169	0.29	0.22	0.07	0.08	0.15	0.28	0.09	0.21
<b>WHO TEQ (ng/kg whole) lower</b>	<b>0.25</b>	<b>0.08</b>	<b>0.03</b>	<b>0.05</b>	<b>0.06</b>	<b>0.14</b>	<b>0.03</b>	<b>0.12</b>
<b>WHO TEQ (ng/kg whole) upper</b>	<b>0.25</b>	<b>0.08</b>	<b>0.03</b>	<b>0.05</b>	<b>0.06</b>	<b>0.14</b>	<b>0.03</b>	<b>0.12</b>
<b>pg/pg fat weight</b>								
PCB77	4255.87	1015.10	442.98	1804.32	578.76	1177.63	447.51	481.84
PCB81	123.26	47.67	26.93	103.66	36.96	65.71	20.48	33.88
PCB126	404.00	187.54	98.56	184.63	115.54	133.93	62.58	88.44
PCB169	48.39	51.56	24.75	31.59	30.17	28.38	18.07	15.98
<b>WHO TEQ (ng/kg fat) lower</b>	<b>41.32</b>	<b>19.38</b>	<b>10.15</b>	<b>18.97</b>	<b>11.92</b>	<b>13.80</b>	<b>6.49</b>	<b>9.06</b>
<b>WHO TEQ (ng/kg fat) upper</b>	<b>41.32</b>	<b>19.38</b>	<b>10.15</b>	<b>18.97</b>	<b>11.92</b>	<b>13.80</b>	<b>6.49</b>	<b>9.06</b>

NA = not available, re-run required

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<b>FERA LIMS No.</b>	S11-020943	S11-020944	S11-020945	S11-020946	S11-020947	S11-020948	S11-020949	S11-020950
<b>Sample Details:</b>	Mussels, PL54137, Dougold, 8/2/11	Mussels, PL54138, Donaghdee Sound, 8/2/11	Mussels, PL54143, Killough, 10/2/11	Mussels, PL54156, Narrow water, 14/2/11	Mussels, PL54177, Dundrum Inner South, 16/2/11	Mussels, PL54185, Mill Bay, 21/2/11	Mussels, PL54201, Foyle RMP 3, 22/2/11	Oysters, PL54302, Reagh Bay, 22/2/11
<b>pg/g whole weight</b>								
2,3,7,8-TCDD	0.02	0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.03
1,2,3,7,8-PeCDD	0.05i	0.04i	0.02i	0.02i	0.03i	0.04	<0.01	0.11i
1,2,3,4,7,8-HxCDD	0.03	0.02	<0.01	0.01	0.02	0.02	0.01	0.03
1,2,3,6,7,8-HxCDD	0.06	0.04	0.02	0.02	0.03	0.04	0.02	0.06
1,2,3,7,8,9-HxCDD	0.04	0.03	0.02	0.02	0.02	0.03	0.02	0.04
1,2,3,4,6,7,8-HpCDD	0.65	0.45	0.20	0.22	0.32	0.23	0.25	0.15
OCDD	3.14	2.36	1.17	1.30	1.75	1.13	1.60	0.43
2,3,7,8-TCDF	0.39	0.23	0.09	0.09	0.14	0.32	0.08	0.45
1,2,3,7,8-PeCDF	0.03	0.05	0.01	0.03	0.03	0.04	0.03	0.07
2,3,4,7,8-PeCDF	0.12	0.10	0.03	0.04	0.05	0.09	0.05	0.17
1,2,3,4,7,8-HxCDF	0.03i	0.03	<0.01	0.01	0.01	0.01	0.02	<0.01
1,2,3,6,7,8-HxCDF	0.02	0.02	<0.01	<0.01	<0.01	0.01	0.01	0.02
1,2,3,7,8,9-HxCDF	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2,3,4,6,7,8-HxCDF	0.03	0.03	0.01	0.01	0.02	0.03	0.02	0.05
1,2,3,4,6,7,8-HpCDF	0.12	0.09	0.04	0.05	0.05	0.03	0.11	0.02
1,2,3,4,7,8,9-HpCDF	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
OCDF	0.20	0.15	0.06	0.08	0.08	0.05	0.16	0.02
<b>WHO TEQ (pg/g whole) lower</b>	<b>0.20</b>	<b>0.15</b>	<b>0.05</b>	<b>0.06</b>	<b>0.08</b>	<b>0.16</b>	<b>0.05</b>	<b>0.30</b>
<b>WHO TEQ (pg/g whole) upper</b>	<b>0.20</b>	<b>0.15</b>	<b>0.07</b>	<b>0.07</b>	<b>0.10</b>	<b>0.16</b>	<b>0.07</b>	<b>0.30</b>
<b>pg/g fat weight</b>								
2,3,7,8-TCDD	3.42	3.21	1.69	2.61	1.68	1.83	1.14	2.04
1,2,3,7,8-PeCDD	7.41i	9.76i	6.09i	8.44i	5.75i	4.27	1.56i	8.40i
1,2,3,4,7,8-HxCDD	4.76	5.27	3.29	5.09	3.64	1.77	2.16	2.00
1,2,3,6,7,8-HxCDD	10.59	10.61	5.82	9.50	6.51	4.22	4.23	4.73

1,2,3,7,8,9-HxCDD	6.34	7.62	5.97	8.24	4.84	2.86	3.19	3.20
1,2,3,4,6,7,8-HpCDD	106.80	105.26	64.83	84.94	65.72	23.56	51.34	11.01
OCDD	517.57	557.04	385.47	496.30	356.54	114.14	324.20	32.01
2,3,7,8-TCDF	65.02	54.26	29.12	33.57	27.86	32.42	15.64	33.78
1,2,3,7,8-PeCDF	5.48i	11.90	4.92	9.76	5.55	4.04	5.26	5.36
2,3,4,7,8-PeCDF	20.16	24.49	11.31	15.48	10.99	9.28	9.32	12.38
1,2,3,4,7,8-HxCDF	4.92	7.08	2.85	4.24	2.08	1.18	4.30	0.15
1,2,3,6,7,8-HxCDF	3.08	3.88	2.20	3.12	1.84	1.25	2.93	1.62
1,2,3,7,8,9-HxCDF	0.19	0.40i	<0.15	0.25	<0.16	0.14	0.36i	<0.05
2,3,4,6,7,8-HxCDF	5.00	7.19	4.11	5.61	3.77	2.60	4.67	3.42
1,2,3,4,6,7,8-HpCDF	20.51	22.26	12.18	18.88	11.01	3.38	22.05	1.61
1,2,3,4,7,8,9-HpCDF	1.61	2.06	1.18	1.46	0.92	0.43	1.93	0.13
OCDF	33.61	34.47	20.43	30.53	16.89	5.31	32.93	1.47
<b>WHO TEQ (pg/g fat) lower</b>	<b>32.52</b>	<b>36.80</b>	<b>19.84</b>	<b>27.35</b>	<b>19.07</b>	<b>15.87</b>	<b>12.16</b>	<b>21.92</b>
<b>WHO TEQ (pg/g fat) upper</b>	<b>32.52</b>	<b>36.80</b>	<b>19.85</b>	<b>27.35</b>	<b>19.09</b>	<b>15.87</b>	<b>12.16</b>	<b>21.92</b>

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<b>WHO TEQ pg/g whole</b>								
Dioxin	0.20	0.15	0.07	0.07	0.10	0.16	0.07	0.30
non ortho-PCB	0.25	0.08	0.03	0.05	0.06	0.14	0.03	0.12
ortho-PCB	0.10	0.03	0.02	0.03	0.02	0.04	0.02	0.03
<b>Sum of WHO TEQs (whole-upper)</b>	<b>0.55</b>	<b>0.26</b>	<b>0.12</b>	<b>0.15</b>	<b>0.18</b>	<b>0.34</b>	<b>0.12</b>	<b>0.45</b>
<b>WHO TEQ pg/g fat</b>								
Dioxin	32.52	36.80	19.85	27.35	19.09	15.87	12.16	21.92
non ortho-PCB	41.32	19.38	10.15	18.97	11.92	13.80	6.49	9.06
ortho-PCB	15.53	4.52	1.93	5.25	2.07	3.38	1.95	1.54
<b>Sum of WHO TEQs (fat-upper)</b>	<b>89.37</b>	<b>60.70</b>	<b>31.93</b>	<b>51.57</b>	<b>33.08</b>	<b>33.05</b>	<b>20.60</b>	<b>32.52</b>