

APPENDIX U
DDT RESULTS – FISH SAMPLES

Table 1 - Breakwater Zone High Resolution DDTs in Fish
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Sample ID	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = EDL)	p,p'-DDMU	p,p'-DDNU	Total DDT compounds (ND = EDL)	Lipids (%)
Breakwater Zone											
BWBSB-2014-01	< 6.11 UJ	544 J	< 8.98 UJ	297 J	21,200 J	116 J	22,200	1,410 J	38.7 J	23,600	1.01 J
BWBSB-2014-02	< 6.68 UJ	897 J	< 10.9 UJ	372 J	154,000 J	135 J	155,000	7,790 J	18.4 J	163,000	0.813 J
BWBSB-2014-03	< 4.40 UJ	513 J	< 7.39 UJ	201 J	56,600 J	36.7 J	57,400	3,700 J	< 6.74 UJ	61,100	0.539 J
BWBSB-2014-04	< 5.23 UJ	457 J	< 9.17 UJ	251 J	98,400 J	104 J	99,200	5,300 J	< 6.76 UJ	105,000	0.712 J
BWBSB-2014-05	< 3.41 UJ	642 J	< 5.75 UJ	702 J	69,000 J	143 J	70,500	3,080 J	< 6.95 UJ	73,600	0.871 J
BWBSB-2014-06	< 3.77 UJ	254 J	< 6.42 UJ	300 J	47,400 J	109 J	48,100	3,160 J	28.7 J	51,300	0.587 J
BWBSB-2014-07	< 4.36 UJ	200 J	< 7.92 UJ	176 J	77,900 J	38.4 J	78,300	1,360 J	< 6.69 UJ	79,700	0.722 J
BWBSB-2014-08	< 4.15 UJ	213 J	< 7.74 UJ	212 J	25,700 J	67.8 J	26,200	1,910 J	< 5.61 UJ	28,100	0.923 J
BWBSB-2014-09	< 4.02 UJ	1,210 J	< 6.02 UJ	820 J	199,000 J	256 J	201,000	12,600 J	43.0 J	214,000	1.03 J
BWBSB-2014-10	< 3.58 UJ	251 J	< 6.79 UJ	182 J	31,000 J	70.3 J	31,500	2,080 J	< 6.80 UJ	33,600	0.680 J
BWBSB-2014-11	< 14.8 UJ	408 J	< 21.9 UJ	175 J	91,000 J	< 32.2 UJ	91,700	4,300 J	< 12.3 UJ	96,000	0.712 J
BWBSB-2014-12	< 12.2 UJ	110 J	< 18.0 UJ	527 J	246,000 J	270 J	247,000	9,100 J	< 11.9 UJ	256,000	0.658 J
BWBSB-2014-13	< 13.6 UJ	2,850 J	< 20.9 UJ	840 J	117,000 J	93.3 J	121,000	10,700 J	< 14.0 UJ	132,000	0.900 J
BWBSB-2014-14	< 14.7 UJ	624 J	< 23.9 UJ	275 J	55,500 J	< 28.7 UJ	56,500	5,200 J	< 14.7 UJ	61,700	0.813 J
BWBSB-2014-15	< 22.7 U	84.6 J	< 40.9 U	74.4 J	41,000	< 58.0 U	41,300	1,310 J	< 20.0 U	42,600	1.13
BWBSB-2014-16	< 9.71 U	79.3 J	< 17.6 U	91.6 J	49,300	< 23.2 U	49,500	1,730 J	< 10.5 U	51,300	0.976
BWBSB-2014-17	< 11.2 U	127 J	< 18.7 U	82.7 J	30,700	< 26.8 U	31,000	1,630 J	< 15.7 U	32,600	1.31
BWBSB-2014-18	< 13.2 U	879	< 22.9 U	295	91,700	62.2 J	93,000	4,200	< 29.6 U	97,200	1.51
BWBSB-2014-19	< 15.9 U	92.3 J	< 27.8 U	151 J	45,200	< 37.9 U	45,500	1,750 J	< 34.4 U	47,300	0.911
BWBSB-2014-20	< 8.79 U	219	< 12.8 U	65.8 J	24,300	35.3 J	24,600	870 J	< 9.94 U	25,500	1.22
BWBSB-2014-21	< 10.6 U	284	< 15.7 U	140 J	38,200 J	56.0 J	38,700	2,270	< 14.4 U	41,000	0.931
BWBSB-2014-22	< 11.6 U	737	< 17.9 U	530	159,000 J	161 J	160,000	6,180	< 17.5 U	167,000	1.36
BWBSB-2014-23	< 9.09 U	456	< 13.7 U	390	83,900 J	371	85,100	4,650	< 13.4 U	89,800	1.31
BWBSB-2014-24	< 12.7 U	195 J	< 22.0 U	213	27,100 J	67.5 J	27,600	1,510 J	< 18.3 U	29,100	0.932
BWBSB-2014-25	< 9.35 U	770	< 17.7 U	491	135,000 J	172 J	136,000	4,040	< 14.9 U	141,000	1.24
BWBSB-2014-26	< 3.32 U	74.5	< 10.1 U	88.2	23,700 J	56.9	23,900	1,050	< 5.56 U	25,000	0.783
BWBSB-2014-27	< 3.22 U	47.1	< 10.1 U	163	47,500 J	114	47,800	2,660	< 5.53 U	50,500	0.640
BWBSB-2014-28	< 4.09 U	126	< 12.1 U	119	51,200 J	59.6	51,500	1,740	< 6.81 U	53,300	0.741
BWBSB-2014-29	< 4.55 U	47.9	< 12.4 U	102	37,100 J	116 J	37,400	1,350	< 6.34 U	38,700	0.624
BWBSB-2014-30	< 4.30 U	103	< 11.6 U	196	90,500 J	132	90,900	3,260	< 6.75 U	94,200	0.657
BWBSB-2014-31	< 3.83 U	180	< 9.71 U	204	45,900 J	66.1 J	46,400	2,620	< 6.21 U	49,000	0.772
BWWC-2014-01	342 J	22,500 J	116 J	2,770 J	260,000 J	988 J	287,000	27,400 J	688 J	315,000	2.95 J
BWWC-2014-02	111 J	8,800 J	< 59.4 UJ	1,170 J	94,100 J	295 J	105,000	10,400 J	249 J	115,000	1.94 J
BWWC-2014-03	184 J	18,100 J	< 64.1 UJ	2,430 J	272,000 J	444 J	293,000	24,600 J	267 J	318,000	2.14 J
BWWC-2014-04	< 93.9 UJ	4,240 J	< 189 UJ	485 J	51,800 J	< 225 UJ	57,000	7,820 J	< 33.1 UJ	64,900	0.959 J
BWWC-2014-05	83.4 J	6,360 J	< 21.6 UJ	673 J	74,500 J	188 J	81,800	6,620 J	64.7 J	88,500	1.04 J
BWWC-2014-06	153 J	14,800 J	< 26.8 UJ	2,320 J	148,000 J	378 J	166,000	24,700 J	582 J	191,000	5.34 J
BWWC-2014-07	187 J	21,000 J	< 16.7 UJ	2,400 J	256,000 J	449 J	280,000	25,200 J	518 J	306,000	4.42 J
BWWC-2014-08	317 J	25,700 J	< 21.8 UJ	3,000 J	264,000 J	540 J	294,000	32,600 J	1,120 J	327,000	3.79 J
BWWC-2014-09	199 J	19,200 J	< 28.3 UJ	2,640 J	286,000 J	426 J	308,000	26,400 J	576 J	335,000	3.59 J
BWWC-2014-10	321 J	31,100 J	< 19.8 UJ	4,710 J	384,000 J	675 J	421,000	46,100 J	1,140 J	468,000	3.63 J
BWWC-2014-11	629 J	46,200 J	< 23.4 UJ	7,250 J	567,000 J	1,210 J	622,000	70,900 J	2,390 J	696,000	5.03 J
BWWC-2014-12	319 J	24,700 J	< 23.3 UJ	3,540 J	235,000 J	470 J	264,000	32,400 J	1,200 J	298,000	3.52 J
BWWC-2014-13	305 J	30,700 J	< 18.3 UJ	4,590 J	397,000 J	973 J	434,000	45,900 J	1,000 J	480,000	4.59 J
BWWC-2014-14	553 J	39,000 J	< 18.3 UJ	5,810 J	539,000 J	1,050 J	585,000	58,600 J	2,130 J	646,000	5.88 J
BWWC-2014-15	226 J	20,600 J	11.5 J	2,740 J	209,000 J	533 J	233,000	29,900 J	670 J	264,000	3.47 J
BWWC-2014-16	211 J	22,800 J	< 18.4 UJ	3,450 J	306,000 J	739 J	333,000	37,200 J	540 J	371,000	2.87 J
BWWC-2014-17	265 J	28,600 J	< 17.8 UJ	4,090 J	307,000 J	612 J	341,000	43,600 J	1,100 J	385,000	3.88 J
BWWC-2014-18	422 J	31,300 J	23.7 J	3,930 J	295,000 J	803 J	331,000	47,500 J	1,140 J	380,000	5.83 J
BWWC-2014-19	298 J	31,700 J	< 16.7 UJ	3,740 J	337,000 J	801 J	374,000	41,100 J	682 J	415,000	4.70 J
BWWC-2014-20	294 J	25,800 J	< 12.9 UJ	3,410 J	286,000 J	603 J	316,000	40,800 J	1,090 J	358,000	4.26 J
BWWC-2014-21	115 J	15,200 J	< 14.2 UJ	1,750 J	236,000 J	396 J	253,000	18,000 J	295 J	272,000	2.35 J
BWWC-2014-22	381 J	34,400 J	< 16.5 UJ	4,670 J	477,000 J	905 J	517,000	50,100 J	1,860 J	569,000	4.90 J
BWWC-2014-23	84.6 J	7,570 J	< 15.2 UJ	1,050 J	82,800 J	213 J	91,700	8,360 J	204 J	100,000	3.51 J
BWWC-2014-24	345 J	27,900 J	< 15.5 UJ	3,650 J	350,000 J	687 J	383,000	38,600 J	1,500 J	423,000	4.06 J
BWWC-2014-25	142 J	14,200 J	< 33.7 UJ	1,870 J	170,000 J	315 J	187,000	19,100 J	1,100 J	207,000	2.33 J
BWWC-2014-26	112 J	8,920 J	< 29.0 UJ	1,270 J	109,000 J	240 J	120,000	11,500 J	303 J	131,000	1.22 J
BWWC-2014-27	122 J	14,600 J	< 32.3 UJ	2,010 J	182,000 J	447 J	199,000	20,000 J	749 J	220,000	1.15 J
BWWC-2014-28	413 J	35,200 J	< 30.8 UJ	4,180 J	300,000 J	774 J	341,000	40,700 J	1,650 J	383,000	3.77 J
BWWC-2014-29	101 J	11,100 J	< 34.1 UJ	1,610 J	151,000 J	456 J	164,000	14,900 J	270 J	179,000	1.40 J
BWWC-2014-30	151 J	13,300 J	< 28.0 UJ	1,320 J	114,000 J	260 J	129,000	13,200 J	456 J	143,000	2.41 J
IROD RAO (ingestion) [ng/kg]							400,000	NA			
OEHHA FCG (cancer effects) [ng/kg]							21,000	NA			
OEHHA FCG (noncancer effects) [ng/kg]							1,600,000	NA			

Abbreviations

DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenyldichloroethene
DDMU - 1,1-bis(4-chlorophenyl)-2-chloroethene
DDNU - 1,1-bis(4-chlorophenyl)ethene
DDT - dichlorodiphenyltrichloroethane
EDL - estimated detection limit (sample specific)
FCG - fish contaminant goal
IROD - Interim Record of Decision
m - meters below surface
NA - not applicable
OEHHA - California EPA Office of Environmental Health Hazard Assessment
pg/g - picograms per gram
QCSR - Quality Control Summary Report
RAO - Remedial Action Objective
ug/kg - micrograms per kilogram

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
U - not detected
UJ - not detected at an estimated reporting limit

Notes

- Analytical results for DDT compounds are in **picograms per gram (pg/g, parts per trillion)**.
- The data qualifiers are final; associated reason codes will be presented in the QCSR.
Laboratory qualifiers are included in the laboratory reports (available upon request).
- Total DDTs is the sum of six target DDT isomers (o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT).
- Total DDT Compounds is the sum of the six Total DDTs isomers plus p,p'-DDMU and p,p'-DDNU.
- Shaded cells show Total DDTs greater than the IROD RAO for white croaker ingestion in nanograms per kilogram (ng/kg).
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of EDL.
- An Estimated Maximum Possible Concentration (EMPC) result presented in *italics*, has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.

Table 2 - Huntington Flats High Resolution DDTs in Fish
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Sample ID	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = EDL)	p,p'-DDMU	p,p'-DDNU	Total DDT compounds (ND = EDL)	Lipids (%)
Huntington Flats											
HFBSB-2015-01	< 4.50 U	1,110	20.7 J	955	170,000 J	357	172,000	10,300	< 7.42 U	183,000	1.15
HFBSB 2016-02	< 18.1 U	142	< 28.6 U	277	20,800	< 26.4 U	21,300	1,310	< 8.49 U	22,600	1.01
HFBSB 2016-03	< 13.9 U	1,140	< 20.3 U	2,030 J	120,000	558 J	124,000	8,970	< 6.53 U	133,000	2.33
HFBSB 2016-04	< 15.1 U	1,740	< 23.0 U	1,450	201,000	639 J	205,000	15,100	< 6.69 U	220,000	1.76
HFBSB 2016-05	< 13.5 U	1,030	< 19.0 U	847	132,000	304 J	134,000	7,860	67.7	142,000	2.61
HFBSB 2016-06	< 17.3 U	357	< 26.5 U	1,890	55,800	912 J	59,000	12,000	< 8.24 U	71,000	1.18
HFBSB 2016-07	< 11.6 U	910	< 18.3 U	1,480 J	138,000	801 J	141,000	7,640	< 6.26 U	149,000	1.65
HFBSB 2016-08	< 23.4 U	662	< 35.0 U	519	56,900	223	58,400	4,120	< 13.3 U	62,500	2.27
HFBSB 2016-09	< 15.9 U	618	< 23.9 U	966	45,900	203	47,700	3,580	< 9.47 U	51,300	2.33
HFBSB 2016-10	< 18.6 U	59.4	< 28.5 U	323	27,100	128	27,700	1,640	< 9.85 U	29,300	0.840
HFBSB 2016-11	< 8.01 U	241	< 11.2 U	211	19,800	100 J	20,400	1,390	< 5.13 U	21,800	1.08
HFBSB 2016-12	< 7.18 U	329	16.0 J	392	29,600	239 J	30,600	2,480	< 6.14 U	33,100	1.36
HFBSB 2016-13	< 6.20 U	1,730	83.7	2,820	132,000	634 J	137,000	10,500	83.6	148,000	4.52
HFBSB 2016-14	< 9.25 U	387	< 13.9 U	445	83,800	237	84,900	3,940	< 6.92 U	88,800	1.46
HFBSB 2016-15	< 6.19 U	1,830	41.3	1,810	126,000	672 J	130,000	12,600	28.0 J	143,000	3.75
HFBSB 2016-16	< 3.17 U	476	< 4.84 U	694	61,300	267 J	62,700	4,430	< 2.98 U	67,200	1.86
HFBSB 2016-17	< 6.74 U	742	< 10.2 U	779	62,900	294 J	64,700	3,900	< 5.18 U	68,600	1.27
HFBSB 2016-18	< 7.88 U	262	< 12.0 U	233	19,600	109	20,200	1,290	< 7.06 U	21,500	1.35
HFBSB 2016-19	< 5.33 U	2,280	30.0 J	2,360	537,000	992	543,000	46,100	< 5.89 U	589,000	1.16
HFBSB 2016-20	< 7.19 U	524	< 11.0 U	937 J	93,300	420 J	95,200	10,800	< 6.10 U	106,000	1.28
HFBSB 2016-21	< 5.47 U	141	< 7.80 U	355	28,600	231 J	29,300	2,320	< 4.72 U	31,700	1.91
HFBSB 2016-22	< 3.59 U	1,140	42.8	1,810	116,000	416	119,000	10,100	< 3.29 U	130,000	1.99
HFBSB 2016-23	< 3.22 U	246	< 6.01 U	343	31,900	145	32,600	2,140	< 2.82 U	34,800	1.69
HFBSB 2016-24	< 4.12 U	2,490	47.7	1,710	142,000	636	147,000	16,400	< 3.60 U	163,000	3.84
HFBSB 2016-25	< 3.22 U	661	50.0	1,430	140,000	633	143,000	11,800	< 2.60 U	155,000	3.94
HFBSB 2016-26	< 4.23 U	169	< 7.24 U	208	28,600	126	29,100	1,570	< 3.31 U	30,700	2.03
HFBSB 2016-27	< 5.67 U	245	< 10.8 U	1,150	51,000	144	52,600	3,220	< 4.38 U	55,800	1.49
HFBSB 2016-28	< 6.44 U	64.9	< 11.4 U	115	10,500	< 11.8 U	10,700	767	< 5.53 U	11,500	0.771
HFBSB 2016-29	< 4.77 U	797	< 8.47 U	496	30,000	200	31,500	3,510	< 4.43 U	35,000	1.92
HFBSB 2016-30	< 6.28 U	454	< 12.4 U	386	27,900	111	28,900	3,090	< 4.89 U	32,000	1.51
IROD RAO (ingestion) [ng/kg]							400,000			NA	
OEHHA FCG (cancer effects) [ng/kg]							21,000			NA	
OEHHA FCG (noncancer effects) [ng/kg]							1,600,000			NA	

Abbreviations	Notes
DDD - dichlorodiphenyldichloroethane	1. Analytical results for DDT compounds are in picograms per gram (pg/g) , parts per trillion).
DDE - dichlorodiphenyldichloroethene	2. The data qualifiers are final; associated reason codes will be presented in the QCSR.
DDMU - 1,1-bis(4-chlorophenyl)-2-chloroethene	Laboratory qualifiers are included in the laboratory reports (available upon request).
DDNU - 1,1-bis(4-chlorophenyl)ethene	3. Total DDTs is the sum of six target DDT isomers (o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT).
DDT - dichlorodiphenyltrichloroethane	4. Total DDT Compounds is the sum of the six Total DDTs isomers plus p,p'-DDMU and p,p'-DDNU.
EDL - estimated detection limit (sample specific)	5. Shaded cells show Total DDTs greater than the IROD RAO for white croaker ingestion in nanograms per kilogram (ng/kg)
FCG - fish contaminant goal	6. In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers
IROD - Interim Record of Decision	were assumed to have a value of EDL.
m - meters below surface	7. An Estimated Maximum Possible Concentration (EMPC) result presented in <i>italics</i> , has a quantitation ion signal to noise
NA - not applicable	ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
OEHHA - California EPA Office of Environmental Health Hazard Assessment	
pg/g - picograms per gram	
QCSR - Quality Control Summary Report	
RAO - Remedial Action Objective	
ug/kg - micrograms per kilogram	

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated reporting limit

Table 3 - Redondo Flats High Resolution DDTs in Fish
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Sample ID	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = EDL)	p,p'-DDMU	p,p'-DDNU	Total DDT compounds (ND = EDL)	Lipids (%)
Redondo Flats											
RFBSB-2015-01	< 14.9 U	183 J	< 22.9 U	167 J	30,700	< 36.2 U	31,100	1,060 J	< 34.7 U	32,200	1.39
RFBSB-2015-02	< 18.7 U	234	< 27.6 U	204	35,300	< 41.7 U	35,800	1,970	< 40.0 U	37,800	1.24
RFBSB-2015-03	< 16.6 U	682	< 26.9 U	4,920	106,000	304	112,000	7,950	< 33.8 U	120,000	3.14
RFBSB-2015-04	< 12.5 U	592	< 19.5 U	577	99,300	144 J	101,000	6,320	< 26.8 U	107,000	2.04
RFBSB-2015-05	< 11.9 U	530	< 22.6 U	395	77,200	112 J	78,300	3,350	< 28.7 U	81,700	1.43
RFBSB-2015-06	< 31.2 U	528	< 52.8 U	513	104,000	256	105,000	4,800	< 99.7 U	110,000	1.02
RFBSB-2015-07	< 26.5 U	656	< 47.3 U	412	113,000 J	72.7 J	114,000	5,930	< 81.9 U	120,000	1.28
RFBSB-2015-08	< 36.1 U	654	< 62.7 U	432	121,000	116 J	122,000	6,220	< 114 U	129,000	1.34
RFBSB 2016-09	< 3.01 U	84.5	< 4.86 U	136 J	8,510	35.3 J	8,770	689	< 3.17 U	9,470	1.94
RFBSB 2016-10	< 2.69 U	145	< 5.05 U	127 J	22,100	51.7 J	22,400	1,070	< 2.74 U	23,500	1.04
RFBSB 2016-11	< 2.76 U	1,000	24.8 J	1,010 J	151,000	284 J	153,000	9,360	< 2.72 U	163,000	3.77
RFBSB 2016-12	< 3.01 U	232	< 4.92 U	166 J	15,100	33.9 J	15,500	1,190	< 3.05 U	16,700	1.21
RFBSB 2016-13	< 3.76 U	197	< 6.13 U	245 J	33,700	82.9 J	34,200	1,740	< 3.91 U	36,000	1.39
RFBSB 2016-14	< 4.61 U	521	< 7.56 U	495	49,200	145	50,400	3,170	< 4.74 U	53,500	2.05
RFBSB 2016-15	< 4.66 U	542	< 8.39 U	687	71,600	220	73,100	6,870	< 5.15 U	79,900	1.83
RFBSB 2016-16	< 4.48 U	87.8	< 7.45 U	164	24,800	51.4	25,100	1,470	< 4.05 U	26,600	1.30
RFBSB 2016-17	< 5.67 U	226	< 9.10 U	216	22,200	64.9	22,700	1,680	< 5.32 U	24,400	1.53
RFBSB 2016-18	< 5.97 U	44.3	< 10.5 U	92.8	9,830	< 10.1 UJ	9,990	838	< 6.04 U	10,800	1.13
RFBSB 2016-19	< 6.19 U	435	< 9.30 U	353	66,000	108	66,900	3,980	< 5.74 U	70,900	0.900
RFBSB 2016-20	< 2.06 U	456	< 3.04 U	422 J	35,100	113 J	36,100	3,180	< 2.73 U	39,300	1.58
RFBSB 2016-21	< 2.19 U	364	< 3.26 U	388 J	38,700	110	39,600	3,230	< 2.74 U	42,800	1.15
RFBSB 2016-22	< 2.48 U	319	12.3 J	314 J	24,900	83.3 J	25,600	2,310	< 3.54 U	27,900	1.93
RFBSB 2016-23	< 2.04 U	498	< 3.16 U	420 J	45,100	106 J	46,100	3,270	< 2.43 U	49,400	1.69
RFBSB 2016-24	< 1.64 U	232	< 2.39 U	281 J	25,500	55.5 J	26,100	2,070	< 2.54 U	28,100	1.59
RFBSB 2016-25	< 2.55 U	960	< 3.72 U	419 J	45,600	84.0 J	47,100	3,520	< 3.28 U	50,600	1.65
RFBSB 2016-26	< 3.33 U	97.7	< 5.32 U	102 J	14,900	< 5.47 U	15,100	1,220	< 3.53 U	16,300	0.753
RFWC-2015-01	637	21,600	< 72.0 U	3,830	355,000 J	620	382,000	34,200	823	417,000	4.91
RFWC-2015-02	330	22,300	< 41.4 U	3,750	481,000 J	451	508,000	36,800	431	545,000	3.65
RFWC-2015-03	384	11,500	< 66.6 U	2,030	149,000 J	217	163,000	16,700	465	180,000	3.62
RFWC-2015-04	302	7,870	< 32.5 U	1,590	108,000 J	251	118,000	9,790	172 J	128,000	4.03
RFWC-2015-05	251	12,300	< 16.0 U	2,320	180,000 J	267	195,000	14,700	201	210,000	4.72
RFWC 2016-06	249	14,200	12.3 J	2,190 J	230,000	336 J	247,000	21,000	169	268,000	1.99
RFWC 2016-07	223	6,220	< 4.62 U	1,400 J	71,800	159	79,800	12,200	171	92,200	1.68
RFWC 2016-08	136	5,080	< 3.03 U	1,280 J	76,200	210 J	82,900	9,690	265	92,900	3.76
IROD RAO (ingestion) [ng/kg]										400,000	NA
OEHHA FCG (cancer effects) [ng/kg]										21,000	NA
OEHHA FCG (noncancer effects) [ng/kg]										1,600,000	NA

Abbreviations	Notes
DDD - dichlorodiphenyldichloroethane	1. Analytical results for DDT compounds are in picograms per gram (pg/g) , parts per trillion).
DDE - dichlorodiphenyldichloroethene	2. The data qualifiers are final; associated reason codes will be presented in the QCSR.
DDMU - 1,1-bis(4-chlorophenyl)-2-chloroethene	Laboratory qualifiers are included in the laboratory reports (available upon request).
DDNU - 1,1-bis(4-chlorophenyl)ethene	3. Total DDTs is the sum of six target DDT isomers (o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT).
DDT - dichlorodiphenyltrichloroethane	4. Total DDT Compounds is the sum of the six Total DDTs isomers plus p,p'-DDMU and p,p'-DDNU.
EDL - estimated detection limit (sample specific)	5. Shaded cells show Total DDTs greater than the IROD RAO for white croaker ingestion in nanograms per kilogram.
FCG - fish contaminant goal	6. In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of EDL.
IROD - Interim Record of Decision	7. An Estimated Maximum Possible Concentration (EMPC) result presented in <i>italics</i> , has a quantitation ion signal to ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
m - meters below surface	
NA - not applicable	
OEHHA - California EPA Office of Environmental Health Hazard Assessment	
pg/g - picograms per gram	
QCSR - Quality Control Summary Report	
RAO - Remedial Action Objective	
ug/kg - micrograms per kilogram	

Data Qualifiers
< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
U - not detected
UJ - not detected at an estimated reporting limit

Table 4 - Ventura Flats High Resolution DDTs in Fish
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Sample ID	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = EDL)	p,p'-DDMU	p,p'-DDNU	Total DDT compounds (ND = EDL)	Lipids (%)
Ventura Flats											
VFWC-2015-01	16.8 J	162 J	< 10.0 U	270	10,500	66.3 J	11,000	553 J	< 22.3 U	11,600	1.13
VFWC-2015-02	18.8 J	185 J	< 9.25 U	284	10,200	75.7 J	10,800	507 J	< 18.7 U	11,300	1.20
VFWC-2015-03	17.1 J	142 J	< 11.6 U	205	5,290	44.3 J	5,710	368 J	< 19.1 U	6,100	0.931
VFWC-2015-04	44.0 J	397	< 10.8 U	647	15,900	121 J	17,100	1,090 J	< 20.2 U	18,200	1.38
VFWC-2015-05	16.7 J	187 J	< 11.2 U	199	7,260	49.5 J	7,720	456 J	< 23.0 U	8,200	0.975
VFWC-2015-06	19.2 J	245	< 9.91 U	311	8,410	64.5 J	9,060	696 J	< 24.1 U	9,780	1.35
VFWC-2015-07	33.1 J	267	< 9.44 U	216	7,510	77.8 J	8,110	491 J	< 19.4 U	8,620	1.23
VFWC-2015-08	15.7 J	127 J	< 8.69 U	225	6,070	61.1 J	6,510	318 J	< 18.2 U	6,840	1.12
VFWC-2015-09	< 99.3 U	236	< 154 U	493	11,300	< 172 U	12,500	< 748 U	< 55.0 U	13,300	1.18
VFWC-2015-10	< 75.0 U	366	< 116 U	902	14,000	648	16,100	< 625 U	< 46.1 U	16,800	1.59
VFWC-2015-11	< 61.9 U	248	< 100 U	183 J	7,450	< 91.4 U	8,130	< 535 U	< 43.6 U	8,710	1.24
VFWC-2015-12	< 72.5 U	150 J	< 99.4 U	169 J	5,860	< 110 U	6,460	< 480 U	< 39.3 U	6,980	1.13
VFWC-2015-13	< 50.0 U	140 J	< 64.9 U	164 J	4,340	< 74.6 U	4,830	< 358 U	< 30.4 U	5,220	1.15
VFWC-2015-14	< 46.0 U	154 J	< 64.3 U	263	6,340	< 74.6 U	6,940	< 419 U	< 34.6 U	7,400	1.13
VFWC-2015-15	< 37.0 U	217	< 56.7 U	294	6,660	< 55.9 U	7,320	< 392 U	< 29.0 U	7,740	1.26
VFWC-2015-16	< 47.5 U	181 J	< 72.4 U	596 J	16,700 J	< 69.3 U	17,700	980 J	< 30.0 U	18,700	1.18
VFWC-2015-17	< 40.8 U	202	< 60.2 U	221	6,920	< 54.7 U	7,500	< 400 U	< 33.1 U	7,930	1.59
VFWC-2015-18	< 40.4 U	199	< 59.7 U	263	7,150	< 62.5 U	7,770	461 J	< 34.2 U	8,270	1.21
VFWC-2015-19	< 24.2 U	144 J	< 37.8 U	148 J	4,100	< 40.5 U	4,490	< 247 U	< 21.5 U	4,760	1.19
VFWC-2015-20	< 19.2 U	94.1 J	< 28.0 U	142 J	5,340	< 33.6 U	5,660	< 216 U	< 25.4 U	5,900	1.29
VFWC-2015-21	< 28.1 U	312	< 40.7 U	961	18,900 J	179 J	20,400	966 J	< 87.0 U	21,500	2.20
VFWC-2015-22	< 36.4 U	450	< 45.4 U	506	20,200	< 66.4 U	21,300	1,030 J	< 96.5 U	22,400	1.62
VFWC-2015-23	< 33.6 U	376	< 50.6 U	432 J	15,200 J	< 68.3 U	16,200	582 J	< 102 U	16,800	1.65
VFWC-2015-24	< 29.5 U	460	< 49.5 U	393	17,800	< 69.8 U	18,800	979 J	< 100 U	19,900	2.37
VFWC-2015-25	< 27.3 U	382	< 43.5 U	467	15,100	< 61.5 U	16,100	584 J	< 95.9 U	16,800	1.77
VFWC-2015-26	< 26.8 U	376	< 47.4 U	451	16,400	< 58.9 U	17,400	785 J	< 115 U	18,300	2.06
VFWC-2015-27	< 40.5 U	403	< 52.0 U	422	15,200	68.6 J	16,200	632 J	< 85.4 U	16,900	1.74
VFWC-2015-28	33.0 J	371	< 36.6 U	470	16,500	215	17,600	794 J	< 111 U	18,500	1.61
VFWC-2015-29	44.6 J	423	< 16.8 U	524	16,300	126 J	17,400	874 J	< 34.1 U	18,300	1.52
VFWC-2015-30	26.0 J	288	< 21.1 U	256	9,320	55.3 J	9,970	617 J	< 29.0 U	10,600	1.86 J
IROD RAO (ingestion) [ng/kg]										400,000	NA
OEHHA FCG (cancer effects) [ng/kg]										21,000	NA
OEHHA FCG (noncancer effects) [ng/kg]										1,600,000	NA

Abbreviations	Notes
DDD - dichlorodiphenyldichloroethane	1. Analytical results for DDT compounds are in picograms per gram (pg/g) , parts per trillion).
DDE - dichlorodiphenyldichloroethene	2. The data qualifiers are final; associated reason codes will be presented in the QCSR.
DDMU - 1,1-bis(4-chlorophenyl)-2-chloroethene	Laboratory qualifiers are included in the laboratory reports (available upon request).
DDNU - 1,1-bis(4-chlorophenyl)ethene	3. Total DDTs is the sum of six target DDT isomers (o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT).
DDT - dichlorodiphenyltrichloroethane	4. Total DDT Compounds is the sum of the six Total DDTs isomers plus p,p'-DDMU and p,p'-DDNU.
EDL - estimated detection limit (sample specific)	5. Shaded cells show Total DDTs greater than the IROD RAO for white croaker ingestion in nanograms per kilogram
FCG - fish contaminant goal	6. In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers
IROD - Interim Record of Decision	were assumed to have a value of EDL.
m - meters below surface	7. An Estimated Maximum Possible Concentration (EMPC) result presented in <i>italics</i> , has a quantitation ion signal to
NA - not applicable	ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
OEHHA - California EPA Office of Environmental Health Hazard Assessment	
pg/g - picograms per gram	
QCSR - Quality Control Summary Report	
RAO - Remedial Action Objective	
ug/kg - micrograms per kilogram	

Data Qualifiers
< - not detected above the estimated detection limit (EDL) shown
J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
U - not detected
UJ - not detected at an estimated reporting limit

Table 5 - Zone 1 High Resolution DDTs in Fish
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Sample ID	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = EDL)	p,p'-DDMU	p,p'-DDNU	Total DDT compounds (ND = EDL)	Lipids (%)
Zone 1											
Z1BSB-2014-01	< 4.20 UJ	986 J	< 6.46 UJ	1,910 J	152,000 J	310 J	155,000	17,200 J	36.7 J	172,000	0.990 J
Z1BSB-2014-02	< 2.76 UJ	737 J	< 5.22 UJ	804 J	144,000 J	158 J	146,000	12,500 J	< 4.16 UJ	158,000	0.659 J
Z1BSB-2014-03	< 2.71 UJ	498 J	5.76 J	1,300 J	103,000 J	364 J	105,000	9,030 J	12.5 J	114,000	0.863 J
Z1BSB-2014-04	< 2.49 UJ	905 J	< 4.12 UJ	1,040 J	135,000 J	372 J	137,000	13,700 J	19.7 J	151,000	0.904 J
Z1BSB-2014-05	< 2.14 UJ	458 J	< 3.54 UJ	1,090 J	329,000 J	718 J	331,000	28,700 J	< 3.43 UJ	360,000	0.611 J
Z1BSB-2014-06	< 3.66 UJ	238 J	< 6.95 UJ	613 J	99,000 J	627 J	100,000	5,780 J	< 5.31 UJ	106,000	0.612 J
Z1BSB-2014-07	< 16.6 UJ	1,940 J	< 25.2 UJ	1,920 J	497,000 J	575 J	501,000	55,200 J	< 14.8 UJ	557,000	0.555 J
Z1BSB-2014-08	< 13.3 UJ	1,100 J	< 22.1 UJ	670 J	204,000 J	152 J	206,000	12,400 J	< 12.1 UJ	218,000	0.615 J
Z1BSB-2014-09	< 14.9 UJ	453 J	< 28.2 UJ	398 J	71,500 J	160 J	72,600	7,930 J	< 14.0 UJ	80,500	0.635 J
Z1BSB-2014-10	< 25.5 UJ	526 J	< 43.1 UJ	1,250 J	131,000 J	400 J	133,000	17,900 J	< 14.9 UJ	151,000	0.825 J
Z1BSB-2014-11	< 10.2 UJ	2,590 J	< 15.1 UJ	1,140 J	187,000 J	125 J	191,000	17,500 J	28.8 J	208,000	0.635 J
Z1BSB-2014-12	295 J	15,800 J	< 16.3 UJ	8,420 J	540,000 J	691 J	565,000	107,000 J	89.9 J	672,000	0.652 J
Z1BSB-2014-13	< 13.8 UJ	2,700 J	< 22.3 UJ	3,640 J	511,000 J	406 J	518,000	73,700 J	30.2 J	592,000	0.573 J
Z1BSB-2014-14	< 10.5 UJ	1,790 J	< 19.4 UJ	3,020 J	546,000 J	379 J	551,000	103,000 J	< 10.2 UJ	654,000	0.666 J
Z1BSB-2014-15	< 7.93 UJ	7,230 J	< 13.9 UJ	3,490 J	517,000 J	1,010 J	529,000	78,600 J	40.3 J	607,000	0.751 J
Z1BSB-2014-16	< 10.1 UJ	3,270 J	< 16.4 UJ	7,280 J	289,000 J	2,030 J	302,000	58,700 J	49.1 J	360,000	0.826 J
Z1BSB-2014-17	< 9.59 UJ	6,400 J	< 14.1 UJ	10,800 J	518,000 J	934 J	536,000	103,000 J	74.3 J	639,000	0.890 J
Z1BSB-2014-18	< 5.73 UJ	555 J	< 9.85 UJ	937 J	114,000 J	187 J	116,000	18,800 J	< 7.90 UJ	135,000	0.575 J
Z1BSB-2014-19	348 J	6,850 J	< 12.2 UJ	3,040 J	204,000 J	135 J	214,000	19,100 J	130 J	234,000	0.545 J
Z1BSB-2014-20	< 13.5 UJ	423 J	< 23.7 UJ	392 J	73,500 J	155 J	74,500	5,470 J	< 7.29 UJ	80,000	1.06 J
Z1BSB-2014-21	< 13.2 UJ	601 J	< 21.4 UJ	437 J	16,400 J	97.9 J	17,600	4,590 J	28.5 J	22,200	0.594 J
Z1BSB-2014-22	< 11.0 UJ	338 J	< 17.1 UJ	314 J	90,300 J	78.7 J	91,100	3,750 J	< 7.78 UJ	94,800	0.673 J
Z1BSB-2014-23	< 13.2 UJ	12,400 J	< 20.2 UJ	5,640 J	643,000 J	784 J	662,000	134,000 J	92.6 J	796,000	0.752 J
Z1BSB-2014-24	< 20.4 UJ	287 J	< 42.0 UJ	370 J	36,800 J	120 J	37,600	2,160 J	< 12.0 UJ	39,800	1.19 J
Z1BSB-2014-25	< 22.0 UJ	802 J	< 42.6 UJ	1,070 J	295,000 J	< 57.0 UJ	297,000	17,600 J	< 11.7 UJ	315,000	0.972 J
Z1BSB-2014-26	< 17.7 UJ	493 J	< 36.1 UJ	522 J	106,000 J	< 51.9 UJ	107,000	10,800 J	< 11.0 UJ	118,000	0.987 J
Z1BSB-2014-27	< 25.6 UJ	1,640 J	< 44.8 UJ	470 J	506,000 J	132 J	508,000	40,000 J	< 19.0 UJ	548,000	0.988 J
Z1BSB-2014-28	< 31.4 UJ	4,080 J	< 66.5 UJ	6,360 J	690,000 J	694 J	701,000	109,000 J	< 20.1 UJ	810,000	1.24 J
Z1BSB-2014-29	< 25.4 UJ	604 J	< 53.3 UJ	2,400 J	321,000 J	730 J	325,000	36,400 J	< 20.3 UJ	361,000	1.27 J
Z1BSB-2014-30	< 17.9 UJ	2,130 J	< 35.6 UJ	5,330 J	331,000 J	915 J	339,000	42,700 J	< 15.9 UJ	382,000	1.37 J
Z1WC-2014-01	1,210 J	59,300 J	< 181 UJ	9,970 J	531,000 J	976 J	603,000	230,000 J	1,700 J	834,000	2.02 J
Z1WC-2014-02	1,630 J	108,000 J	< 193 UJ	27,400 J	1,140,000 J	3,580 J	1,280,000	405,000 J	1,480 J	1,690,000	1.89 J
Z1WC-2014-03	2,110 J	132,000 J	< 149 UJ	37,800 J	1,000,000 J	3,670 J	1,180,000	459,000 J	1,550 J	1,640,000	2.52 J
Z1WC-2014-04	575 J	30,000 J	< 44.2 UJ	5,330 J	311,000 J	857 J	348,000	65,500 J	1,310 J	415,000	1.60 J
Z1WC-2014-05	740 J	33,600 J	< 119 UJ	8,810 J	406,000 J	1,240 J	451,000	84,900 J	760 J	536,000	2.92 J
Z1WC-2014-06	677 J	40,000 J	< 84.7 UJ	10,800 J	526,000 J	2,130 J	580,000	110,000 J	554 J	690,000	2.00 J
Z1WC-2014-07	1,370 J	46,600 J	< 84.1 UJ	11,000 J	340,000 J	1,960 J	401,000	134,000 J	1,240 J	536,000	4.53 J
Z1WC-2014-08	530 J	24,600 J	< 74.8 UJ	3,760 J	206,000 J	656 J	236,000	44,800 J	1,530 J	282,000	2.73 J
Z1WC-2014-09	1,020 J	41,600 J	< 70.9 UJ	6,560 J	366,000 J	991 J	416,000	76,100 J	2,690 J	495,000	4.05 J
Z1WC-2014-10	1,880 J	114,000 J	< 70.1 UJ	28,800 J	1,140,000 J	2,280 J	1,290,000	472,000 J	1,870 J	1,760,000	2.07 J
Z1WC-2014-11	525 J	25,500 J	< 73.5 UJ	4,640 J	234,000 J	549 J	265,000	53,200 J	934 J	319,000	2.51 J
Z1WC-2014-12	3,580 J	254,000 J	< 74.0 UJ	59,000 J	1,760,000 J	5,000 J	2,080,000	776,000 J	3,350 J	2,860,000	2.60 J
Z1WC-2014-13	854 J	43,900 J	< 61.7 UJ	8,630 J	638,000 J	1,060 J	693,000	94,000 J	2,100 J	789,000	3.83 J
Z1WC-2014-14	692 J	27,600 J	< 61.3 UJ	5,770 J	260,000 J	563 J	295,000	72,000 J	1,360 J	368,000	3.04 J
Z1WC-2014-15	1,960 J	65,600 J	< 60.5 UJ	14,700 J	597,000 J	988 J	680,000	172,000 J	1,940 J	854,000	3.29 J
Z1WC-2014-16	720 J	24,700 J	< 61.7 UJ	6,180 J	153,000 J	1,930 J	187,000	71,400 J	1,060 J	259,000	1.63 J
Z1WC-2014-17	944 J	33,600 J	< 67.3 UJ	8,020 J	344,000 J	2,500 J	389,000	99,900 J	1,240 J	490,000	2.97 J
Z1WC-2014-18	533 J	27,400 J	< 76.9 UJ	4,840 J	196,000 J	598 J	229,000	60,200 J	993 J	291,000	2.20 J
Z1WC-2014-19	4,940 J	279,000 J	< 68.8 UJ	59,400 J	2,010,000 J	3,990 J	2,360,000	870,000 J	2,940 J	3,230,000	2.27 J
Z1WC-2014-20	565 J	28,800 J	< 58.6 UJ	6,370 J	310,000 J	869 J	347,000	85,900 J	507 J	433,000	2.79 J
Z1WC-2014-21	1,300 J	72,500 J	< 62.6 UJ	21,200 J	738,000 J	3,190 J	836,000	204,000 J	1,520 J	1,040,000	2.72 J
Z1WC-2014-22	4,860 J	197,000 J	< 64.4 UJ	75,900 J	1,400,000 J	17,200 J	1,700,000	729,000 J	3,560 J	2,430,000	2.37 J
Z1WC-2014-23	836 J	27,600 J	< 46.9 UJ	6,130 J	276,000 J	510 J	311,000	64,700 J	1,530 J	377,000	1.80 J
Z1WC-2014-24	2,130 J	136,000 J	< 52.0 UJ	35,000 J	1,220,000 J	4,420 J	1,400,000	415,000 J	1,610 J	1,810,000	2.56 J
Z1WC-2014-25	1,220 J	63,400 J	< 42.6 UJ	17,100 J	594,000 J	1,870 J	678,000	248,000 J	2,520 J	928,000	2.41 J
Z1WC-2014-26	527 J	32,000 J	< 40.2 UJ	5,200 J	352,000 J	698 J	390,000	55,000 J	1,670 J	447,000	2.19 J
Z1WC-2014-27	2,700 J	90,300 J	< 46.4 UJ	29,500 J	709,000 J	2,140 J	834,000	380,000 J	1,760 J	1,220,000	1.97 J
Z1WC-2014-28	4,780 J	196,000 J	< 159 UJ	70,600 J	1,830,000 J	9,140 J	2,110,000	897,000 J	2,950 J	3,010,000	2.70 J
Z1WC-2014-29	403 J	17,100 J	< 103 UJ	3,260 J	135,000 J	681 J	157,000	36,800 J	634 J	194,000	4.29 J
Z1WC-2014-30	462 J	21,000 J	< 69.5 UJ	4,270 J	199,000 J	539 J	225,000	46,200 J	976 J	273,000	2.13 J
IROD RAO (ingestion) [ng/kg]							400,000			NA	
OEHHA FCG (cancer effects) [ng/kg]							21,000			NA	
OEHHA FCG (noncancer effects) [ng/kg]							1,600,000			NA	
Abbreviations											
Notes											
1. Analytical results for DDT compounds are in picograms per gram (pg/g) , parts per trillion).											
2. The data qualifiers are final; associated reason codes will be presented in the QCSR.											
Laboratory qualifiers are included in the laboratory reports (available upon request).											
3. Total DDTs is the sum of six target DDT isomers (o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT).											
4. Total DDT Compounds is the sum of the six Total DDTs isomers plus p,p'-DDMU and p,p'-DDNU.											
5. Shaded cells show Total DDTs greater than the IROD RAO for white croaker ingestion in nanograms per kilogram (ng/kg).											
6. In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers											
were assumed to have a value of EDL.											
7. An Estimated Maximum Possible Concentration (EMPC) result presented in <i>italics</i> , has a quantitation ion signal to noise											
ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.											
Data Qualifiers											
< - not detected above the estimated detection limit (EDL) shown											
J - estimated value (greater than EDL), <i>Estimated Maximum Possible Concentration (EMPC) in italics</i>											
U - not detected											

Table 6 - Zone 2 High Resolution DDTs in Fish
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Sample ID	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = EDL)	p,p'-DDMU	p,p'-DDNU	Total DDT compounds (ND = EDL)	Lipids (%)
Zone 2											
Z2BSB-2014-01	< 5.32 UJ	149 J	< 7.58 UJ	293 J	38,600 J	109 J	39,200	3,740 J	< 6.61 UJ	42,900	0.639 J
Z2BSB-2014-02	< 6.13 UJ	459 J	< 9.07 UJ	644 J	92,100 J	82.4 J	93,300	14,100 J	< 6.10 UJ	107,000	0.871 J
Z2BSB-2014-03	< 2.41 UJ	267 J	11.1 J	345 J	63,600 J	144 J	64,400	4,530 J	22.2 J	68,900	0.568 J
Z2BSB-2014-04	< 9.65 U	250	< 14.6 U	235	224,000	59.2 J	225,000	11,400	< 12.5 U	236,000	1.01
Z2BSB-2014-05	< 11.7 U	2,100	< 22.6 U	1,010	368,000	207 J	371,000	36,500	110 J	408,000	1.50
Z2BSB-2014-06	< 11.4 U	722	< 19.0 U	613	197,000	131 J	198,000	29,200	< 13.5 U	228,000	1.26
Z2BSB-2014-07	< 16.3 U	27.4 J	< 24.3 U	155 J	44,600	< 33.1 U	44,900	4,820	< 17.6 U	49,700	1.08
Z2BSB-2014-08	< 11.8 U	226	< 18.8 U	300 J	60,200	64.6 J	60,800	7,570	< 15.9 U	68,400	1.37
Z2BSB-2014-09	< 10.4 U	2,720	< 16.4 U	975 J	292,000	227 J	296,000	34,600	< 14.2 U	331,000	1.36
Z2BSB-2014-10	< 11.5 U	218	< 20.3 U	369 J	83,200	< 26.3 U	83,800	10,300	< 16.4 U	94,200	1.10
Z2BSB-2014-11	< 11.0 U	188 J	< 19.8 U	440 J	113,000	< 25.6 U	114,000	21,100	< 15.3 U	135,000	1.02
Z2BSB-2014-12	< 12.9 U	53.2 J	< 20.9 U	145 J	40,100	< 28.3 U	40,400	2,250	< 24.7 U	42,600	0.861
Z2WC-2014-01	1,250 J	63,100 J	< 56.9 UJ	21,200 J	508,000 J	4,780 J	598,000	197,000 J	1,160 J	797,000	3.22 J
Z2WC-2014-02	532 J	58,500 J	< 67.5 UJ	13,900 J	963,000 J	2,830 J	1,040,000	316,000 J	3,290 J	1,360,000	1.59 J
Z2WC-2014-03	613 J	56,300 J	< 73.2 UJ	15,900 J	782,000 J	1,450 J	856,000	477,000 J	1,470 J	1,330,000	1.64 J
Z2WC-2014-04	905 J	41,400 J	< 65.1 UJ	12,300 J	354,000 J	1,200 J	410,000	151,000 J	1,690 J	563,000	3.17 J
Z2WC-2014-05	659 J	50,000 J	< 57.1 UJ	9,980 J	549,000 J	917 J	611,000	274,000 J	1,010 J	886,000	2.13 J
Z2WC-2014-06	462 J	27,800 J	< 59.1 UJ	5,200 J	307,000 J	475 J	341,000	146,000 J	2,300 J	489,000	2.05 J
Z2WC-2014-07	761 J	54,600 J	< 19.3 UJ	10,300 J	644,000 J	1,250 J	711,000	282,000 J	292 J	993,000	1.98 J
Z2WC-2014-08	1,330 J	84,200 J	< 38.3 UJ	16,100 J	762,000 J	1,410 J	865,000	497,000 J	1,010 J	1,360,000	3.38 J
Z2WC-2014-09	566 J	39,500 J	< 35.3 UJ	6,140 J	81,700 J	618 J	129,000	185,000 J	1,720 J	315,000	1.96 J
Z2WC-2014-10	356 J	28,400 J	< 40.4 UJ	5,700 J	311,000 J	1,140 J	347,000	100,000 J	922 J	448,000	2.17 J
Z2WC-2014-11	277 J	12,300 J	< 17.6 UJ	2,250 J	121,000 J	145 J	136,000	30,000 J	899 J	167,000	2.13 J
Z2WC-2014-12	304 J	14,000 J	< 12.8 UJ	3,410 J	164,000 J	368 J	182,000	41,900 J	1,290 J	225,000	2.07 J
Z2WC-2014-13	160 J	8,690 J	< 24.0 UJ	1,370 J	100,000 J	136 J	110,000	20,000 J	740 J	131,000	1.61 J
Z2WC-2014-14	1,070 J	56,900 J	< 28.4 UJ	10,600 J	688,000 J	1,900 J	758,000	124,000 J	4,940 J	887,000	6.06 J
Z2WC-2014-15	2,080 J	113,000 J	< 27.9 UJ	22,300 J	1,860,000 J	2,480 J	2,000,000	613,000 J	7,670 J	2,620,000	4.93 J
Z2WC-2014-16	1,130 J	72,300 J	< 20.4 UJ	15,900 J	900,000 J	1,610 J	991,000	405,000 J	6,050 J	1,400,000	3.88 J
Z2WC-2014-17	2,960 J	189,000 J	< 28.0 UJ	41,800 J	1,790,000 J	2,310 J	2,030,000	558,000 J	2,150 J	2,590,000	4.32 J
Z2WC-2014-18	429 J	50,900 J	< 20.1 UJ	11,800 J	1,610,000 J	2,440 J	1,680,000	276,000 J	1,130 J	1,950,000	4.12 J
Z2WC-2014-19	1,460 J	85,500 J	< 12.7 UJ	19,100 J	953,000 J	2,180 J	1,060,000	398,000 J	7,540 J	1,470,000	4.40 J
Z2WC-2014-20	960 J	43,500 J	< 14.8 UJ	6,890 J	579,000 J	1,170 J	632,000	101,000 J	3,210 J	736,000	6.06 J
Z2WC-2014-21	1,310 J	122,000 J	< 21.3 UJ	27,700 J	1,440,000 J	3,980 J	1,600,000	337,000 J	10,500 J	1,940,000	3.78 J
Z2WC-2014-22	505 J	25,200 J	< 14.2 UJ	5,590 J	323,000 J	501 J	355,000	53,300 J	2,430 J	411,000	5.79 J
Z2WC-2014-23	386 J	31,400 J	< 21.4 UJ	7,090 J	512,000 J	1,090 J	552,000	194,000 J	1,460 J	747,000	2.02 J
Z2WC-2014-24	797 J	34,800 J	< 13.9 UJ	7,630 J	428,000 J	610 J	472,000	79,700 J	2,510 J	554,000	3.51 J
Z2WC-2014-25	1,110 J	66,500 J	< 23.8 UJ	12,500 J	771,000 J	1,030 J	852,000	330,000 J	4,970 J	1,190,000	3.02 J
Z2WC-2014-26	354 J	32,000 J	< 16.9 UJ	6,140 J	469,000 J	739 J	508,000	171,000 J	1,870 J	681,000	2.75 J
Z2WC-2014-27	1,220 J	50,700 J	< 14.9 UJ	14,800 J	483,000 J	1,340 J	551,000	147,000 J	2,530 J	701,000	2.06 J
Z2WC-2014-28	1,370 J	78,300 J	< 17.7 UJ	19,000 J	1,080,000 J	1,770 J	1,180,000	406,000 J	6,480 J	1,590,000	3.21 J
Z2WC-2014-29	2,130 J	122,000 J	< 21.3 UJ	24,100 J	1,260,000 J	3,050 J	1,410,000	517,000 J	9,950 J	1,940,000	4.17 J
Z2WC-2014-30	245 J	13,800 J	< 83.5 UJ	2,780 J	198,000 J	452 J	215,000	32,900 J	850 J	249,000	1.96 J
IROD RAO (ingestion) [ng/kg]							400,000	NA			
OEHHA FCG (cancer effects) [ng/kg]							21,000	NA			
OEHHA FCG (noncancer effects) [ng/kg]							1,600,000	NA			

Abbreviations	Notes
DDD - dichlorodiphenyldichloroethane	1. Analytical results for DDT compounds are in picograms per gram (pg/g) , parts per trillion).
DDE - dichlorodiphenyldichloroethene	2. The data qualifiers are final; associated reason codes will be presented in the QCSR.
DDMU - 1,1-bis(4-chlorophenyl)-2-chloroethene	Laboratory qualifiers are included in the laboratory reports (available upon request).
DDNU - 1,1-bis(4-chlorophenyl)ethene	3. Total DDTs is the sum of six target DDT isomers (o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT).
DDT - dichlorodiphenyltrichloroethane	4. Total DDT Compounds is the sum of the six Total DDTs isomers plus p,p'-DDMU and p,p'-DDNU.
EDL - estimated detection limit (sample specific)	5. Shaded cells show Total DDTs greater than the IROD RAO for white croaker ingestion in nanograms per kilogram (ng/kg).
FCG - fish contaminant goal	6. In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers
IROD - Interim Record of Decision	were assumed to have a value of EDL.
m - meters below surface	7. An Estimated Maximum Possible Concentration (EMPC) result presented in <i>italics</i> , has a quantitation ion signal to noise
NA - not applicable	ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
OEHHA - California EPA Office of Environmental Health Hazard Assessment	
pg/g - picograms per gram	
QCSR - Quality Control Summary Report	
RAO - Remedial Action Objective	
ug/kg - micrograms per kilogram	
Data Qualifiers	
< - not detected above the estimated detection limit (EDL) shown	
J - estimated value (greater than EDL), <i>Estimated Maximum Possible Concentration (EMPC) in italics</i>	
U - not detected	
UJ - not detected at an estimated reporting limit	

Table 7 - Zone 3 High Resolution DDTs in Fish
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Sample ID	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = EDL)	p,p'-DDMU	p,p'-DDNU	Total DDT compounds (ND = EDL)	Lipids (%)
Zone 3											
Z3BSB-2014-01	< 7.58 U	29.6 J	< 15.4 U	62.9 J	19,400 J	< 18.6 U	19,500	851 J	< 11.9 U	20,400	0.806
Z3BSB-2014-02	< 23.5 U	142 J	< 38.3 U	120 J	34,600 J	< 51.2 U	35,000	1,110 J	< 20.2 U	36,100	0.947
Z3BSB-2014-03	< 25.0 U	286	< 47.9 U	513	244,000 J	163 J	245,000	10,800	< 22.8 U	256,000	0.989
Z3BSB-2014-04	< 18.1 U	576	< 35.0 U	578	218,000 J	137 J	219,000	10,700	< 17.9 U	230,000	0.832
Z3BSB-2014-05	< 3.59 U	786	< 9.70 U	884	248,000 J	184 J	250,000	11,400	< 5.54 U	261,000	1.92
Z3BSB-2014-06	< 3.27 U	155	< 9.01 U	152	32,200 J	131 J	32,700	1,150	< 5.05 U	33,800	0.921
Z3BSB-2014-07	< 3.62 U	327	< 8.41 U	421 J	57,800 J	122 J	58,700	3,950	< 5.82 U	62,600	0.977
Z3BSB-2014-08	< 3.98 U	647	< 8.13 U	478	59,700 J	148 J	61,000	3,490	54.9	64,500	1.19
Z3BSB-2014-09	< 3.65 U	178	< 9.27 U	72.8	18,300 J	< 13.2 U	18,600	936	< 5.02 U	19,500	0.828
Z3BSB-2014-10	< 3.26 U	154	< 8.25 U	118	13,100 J	35.5 J	13,400	967	< 5.10 U	14,400	1.01
Z3BSB-2014-11	< 4.77 U	526	< 11.4 U	831	175,000 J	155 J	177,000	10,100	< 7.09 U	187,000	1.14
Z3BSB-2014-12	7.38 J	1,410	11.0 J	850 J	154,000 J	142 J	156,000	8,260	54.0	165,000	2.73
Z3BSB-2014-13	< 3.48 U	101	< 8.38 U	165 J	32,500 J	53.4 J	32,800	1,330	< 5.42 U	34,200	1.10
Z3BSB-2014-14	< 3.58 U	105	< 8.26 U	144	37,200 J	55.2 J	37,500	1,300	< 5.97 U	38,800	1.31
Z3WC-2014-01	591 J	35,200 J	< 33.3 UJ	7,370 J	536,000 J	1,100 J	580,000	90,700 J	1,640 J	673,000	1.73 J
Z3WC-2014-02	309 J	24,300 J	< 24.3 UJ	3,810 J	499,000 J	441 J	528,000	55,300 J	611 J	584,000	1.70 J
Z3WC-2014-03	195 J	13,800 J	< 20.5 UJ	2,600 J	228,000 J	244 J	245,000	41,500 J	627 J	287,000	1.15 J
Z3WC-2014-04	178 J	28,600 J	< 20.1 UJ	3,960 J	652,000 J	497 J	685,000	134,000 J	135 J	819,000	1.08 J
Z3WC-2014-05	282 J	17,200 J	< 20.2 UJ	3,370 J	247,000 J	384 J	268,000	38,300 J	300 J	307,000	1.68 J
Z3WC-2014-06	398 J	30,000 J	< 54.2 UJ	5,400 J	460,000 J	495 J	496,000	67,100 J	672 J	564,000	2.07 J
Z3WC-2014-07	629 J	34,800 J	< 52.7 UJ	8,810 J	387,000 J	1,350 J	433,000	116,000 J	2,040 J	551,000	1.85 J
Z3WC-2014-08	450 J	30,100 J	< 39.3 UJ	5,640 J	432,000 J	312 J	469,000	64,800 J	628 J	534,000	2.66 J
Z3WC-2014-09	443 J	18,500 J	< 40.1 UJ	3,650 J	225,000 J	288 J	248,000	28,600 J	1,650 J	278,000	3.20 J
Z3WC-2014-10	557 J	14,900 J	< 41.0 UJ	2,670 J	165,000 J	186 J	183,000	19,300 J	1,050 J	204,000	4.22 J
Z3WC-2014-11	431 J	24,000 J	< 13.3 UJ	4,090 J	395,000 J	307 J	424,000	49,100 J	548 J	473,000	2.96 J
Z3WC-2014-12	220 J	17,000 J	< 9.90 UJ	4,570 J	493,000 J	532 J	515,000	47,900 J	301 J	564,000	1.37 J
Z3WC-2014-13	1,670 J	101,000 J	< 16.3 UJ	21,700 J	1,400,000 J	3,150 J	1,530,000	438,000 J	3,610 J	1,970,000	4.07 J
Z3WC-2014-14	515 J	33,600 J	< 29.9 UJ	5,660 J	510,000 J	780 J	551,000	60,200 J	347 J	611,000	3.45 J
Z3WC-2014-15	244 J	21,100 J	< 124 UJ	3,640 J	340,000 J	310 J	365,000	83,600 J	651 J	450,000	1.70 J
Z3WC-2014-16	358 J	13,500 J	< 93.7 UJ	5,830 J	187,000 J	< 103 UJ	207,000	27,200 J	471 J	235,000	2.33 J
Z3WC-2014-17	< 66.4 UJ	5,560 J	< 125 UJ	1,030 J	77,500 J	< 134 UJ	84,400	10,000 J	220 J	94,600	1.60 J
Z3WC-2014-18	1,130 J	83,300 J	< 182 UJ	26,100 J	903,000 J	3,350 J	1,020,000	238,000 J	3,920 J	1,260,000	1.28 J
Z3WC-2014-19	183 J	6,460 J	< 145 UJ	1,150 J	73,600 J	< 164 UJ	81,700	9,980 J	274 J	92,000	1.38 J
Z3WC-2014-20	177 J	14,200 J	< 94.8 UJ	1,820 J	265,000 J	< 102 UJ	281,000	23,800 J	160 J	305,000	0.947 J
Z3WC-2014-21	361 J	26,200 J	< 102 UJ	3,390 J	523,000 J	361 J	553,000	52,100 J	241 J	606,000	2.28 J
Z3WC-2014-22	223 J	14,900 J	< 108 UJ	2,820 J	241,000 J	< 133 UJ	259,000	37,500 J	434 J	297,000	1.43 J
Z3WC-2014-23	261 J	14,100 J	< 99.6 UJ	2,580 J	149,000 J	< 183 UJ	166,000	40,900 J	798 J	208,000	2.21 J
Z3WC-2014-24	228 J	18,600 J	< 92.1 UJ	3,260 J	313,000 J	< 100 UJ	335,000	59,000 J	261 J	395,000	1.43 J
Z3WC-2014-25	252 J	15,900 J	< 79.0 UJ	2,640 J	362,000 J	509 J	381,000	40,800 J	321 J	423,000	2.09 J
Z3WC-2014-26	424 J	22,000 J	< 84.0 UJ	4,000 J	326,000 J	< 106 UJ	353,000	58,500 J	520 J	412,000	2.13 J
Z3WC-2014-27	280 J	27,100 J	< 56.8 UJ	9,030 J	523,000 J	1,350 J	561,000	109,000 J	171 J	670,000	1.37 J
Z3WC-2014-28	280 J	16,400 J	< 77.2 UJ	2,810 J	261,000 J	239 J	281,000	33,300 J	368 J	314,000	1.35 J
Z3WC-2014-29	158 J	8,000 J	< 73.4 UJ	1,810 J	150,000 J	< 76.1 UJ	160,000	16,700 J	137 J	177,000	1.76 J
Z3WC-2014-30	265 J	15,600 J	< 72.4 UJ	2,170 J	238,000 J	145 J	256,000	27,800 J	379 J	284,000	1.40 J
IROD RAO (ingestion) [ng/kg]							400,000				NA
OEHHA FCG (cancer effects) [ng/kg]							21,000				NA
OEHHA FCG (noncancer effects) [ng/kg]							1,600,000				NA

Abbreviations	Notes
DDD - dichlorodiphenyldichloroethane	1. Analytical results for DDT compounds are in picograms per gram (pg/g) , parts per trillion).
DDE - dichlorodiphenyldichloroethene	2. The data qualifiers are final; associated reason codes will be presented in the QCSR.
DDMU - 1,1-bis(4-chlorophenyl)-2-chloroethene	Laboratory qualifiers are included in the laboratory reports (available upon request).
DDNU - 1,1-bis(4-chlorophenyl)ethene	3. Total DDTs is the sum of six target DDT isomers (o,p'-DDD, o,p'-DDE, o,p'-DDT, p,p'-DDD, p,p'-DDE, p,p'-DDT).
DDT - dichlorodiphenyltrichloroethane	4. Total DDT Compounds is the sum of the six Total DDTs isomers plus p,p'-DDMU and p,p'-DDNU.
EDL - estimated detection limit (sample specific)	5. Shaded cells show Total DDTs greater than the IROD RAO for white croaker ingestion in nanograms per kilogram (ng/kg).
FCG - fish contaminant goal	6. In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of EDL.
IROD - Interim Record of Decision	7. An Estimated Maximum Possible Concentration (EMPC) result presented in <i>italics</i> , has a quantitation ion signal to noise ratio greater than 2.5, but does not meet ion abundance ratio criteria. It is a calculated estimated maximum result.
m - meters below surface	
NA - not applicable	
OEHHA - California EPA Office of Environmental Health Hazard Assessment	
pg/g - picograms per gram	
QCSR - Quality Control Summary Report	
RAO - Remedial Action Objective	
ug/kg - micrograms per kilogram	

Data Qualifiers

< - not detected above the estimated detection limit (EDL) shown

J - estimated value (greater than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*

U - not detected

UJ - not detected at an estimated reporting limit