

APPENDIX Q
DDT RESULTS – WATER SAMPLES (HIGH RESOLUTION)

Table 1 - Transect BA1 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

<i>Location</i>	<i>Sample ID</i>	<i>Sample collection depth (m)</i>	<i>o,p'-DDD</i>	<i>o,p'-DDE</i>	<i>o,p'-DDT</i>	<i>p,p'-DDD</i>	<i>p,p'-DDE</i>	<i>p,p'-DDT</i>	<i>Total DDTs (ND = 0)</i>	<i>p,p'-DDMU</i>	<i>p,p'-DDNU</i>	<i>Total DDT Compounds (ND = 0)</i>
BA1B												
	BA1B-WO5-0915-1	5	< 0.011 UJ	< 0.005 UJ	< 0.047 UJ	< 0.019 UJ	0.0280 J	< 0.11 UJ	0.0280	< 0.044 UJ	< 0.0014 UJ	0.0280
	BA1B-WO75-0915-1	75	< 0.013 UJ	0.0716 J	< 0.047 UJ	0.0370 J	0.330 J	< 0.088 UJ	0.439	0.315 J	0.0194 J	0.773
	BA1B-WO145-0915-1	147	< 0.017 UJ	0.0394 J	< 0.055 UJ	< 0.022 UJ	0.239 J	< 0.094 UJ	0.278	0.162 J	0.0138 J	0.454
BA1C												
	BA1C-WO5-0915-1	5	< 0.0019 UJ	0.0138 J	< 0.012 UJ	0.012 J	0.0616 J	< 0.060 UJ	0.0874	< 0.013 UJ	0.00222 J	0.0896
	BA1C-WO30-0915-1	30	0.00780 J	0.0463 J	< 0.041 UJ	< 0.021 UJ	0.165 J	< 0.084 UJ	0.219	0.127 J	0.00612 J	0.352
	BA1C-WO55-0915-1	57	< 0.0030 UJ	0.0733 J	< 0.04 UJ	0.0210 J	0.340 J	< 0.065 UJ	0.434	0.267 J	0.0131 J	0.714
	BA1C-WO60-0915-1	59	< 0.0022 UJ	0.0446 J	< 0.012 UJ	0.0186 J	0.193 J	< 0.060 UJ	0.256	0.184 J	0.0138 J	0.454
BA1DC												
	BA1DC-WO5-0915-1	5	< 0.0070 UJ	0.00670 J	< 0.016 UJ	< 0.012 UJ	0.0265 J	< 0.051 UJ	0.0332	< 0.0043 UJ	0.00209 J	0.0353
	BA1DC-WO5-0915-2	5	< 0.0076 UJ	0.00610 J	< 0.018 UJ	< 0.013 UJ	0.0264 J	< 0.070 UJ	0.0325	< 0.0037 UJ	< 0.00051 UJ	0.0325
	BA1DC-WO20-0915-1	20	< 0.0027 UJ	0.0321 J	< 0.019 UJ	0.0235 J	0.150 J	< 0.059 UJ	0.206	0.0820 J	0.00487 J	0.292
	BA1DC-WO35-0915-1	35	< 0.0033 UJ	0.0157 J	< 0.029 UJ	0.0170 J	0.0856 J	< 0.062 UJ	0.118	0.0500 J	0.00239 J	0.171

Abbreviations

AWQC - Ambient Water Quality Criteria
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)
IROD - Interim Record of Decision
m - Meters
NA - Not available
ND - Not detected
ng/L - Nanograms per liter (parts per trillion)
o,p - Ortho or para position of chlorine on phenyl groups
QCSR - Quality Control Summary Report

Notes

- Analytical results for DDT compounds are in **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).

Data Qualifiers

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

Table 2 - Transect BA2 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	<i>o,p'</i> -DDD	<i>o,p'</i> -DDE	<i>o,p'</i> -DDT	<i>p,p'</i> -DDD	<i>p,p'</i> -DDE	<i>p,p'</i> -DDT	Total DDTs (ND = 0)	<i>p,p'</i> -DDMU	<i>p,p'</i> -DDNU	Total DDT Compounds (ND = 0)
BA2B												
	BA2B-WO5-0915-1	5	< 0.0040 UJ	< 0.0022 UJ	< 0.055 UJ	< 0.027 UJ	< 0.010 UJ	< 0.12 UJ	ND	< 0.015 UJ	< 0.00033 UJ	ND
	BA2B-WO75-0915-1	75	0.00730 J	0.0139 J	< 0.028 UJ	< 0.014 UJ	0.0830 J	< 0.11 UJ	0.104	0.0280 J	0.00180 J	0.134
	BA2B-WO145-0915-1	145	< 0.0071 UJ	0.0198 J	< 0.023 UJ	< 0.017 UJ	0.108 J	< 0.089 UJ	0.128	0.135 J	0.0102 J	0.273
BA2C												
	BA2C-WO5-0915-1	5	< 0.0062 UJ	0.00520 J	< 0.023 UJ	< 0.017 UJ	< 0.020 UJ	< 0.093 UJ	0.00520	< 0.017 UJ	< 0.00048 UJ	0.00520
	BA2C-WO30-0915-1	30	0.0160 J	0.0476 J	< 0.026 UJ	0.0330 J	0.204 J	< 0.13 UJ	0.301	0.154 J	0.00585 J	0.460
	BA2C-WO55-0915-1	55	< 0.010 UJ	0.0238 J	< 0.090 UJ	< 0.045 UJ	0.137 J	< 0.30 UJ	0.161	0.113 J	0.00346 J	0.277
BA2DC												
	BA2DC-WO5-0915-1	5	< 0.0068 UJ	0.0169 J	< 0.075 UJ	< 0.038 UJ	0.0820 J	< 0.33 UJ	0.0989	< 0.026 UJ	0.00211 J	0.101
	BA2DC-WO20-0915-1	20	< 0.0040 UJ	0.0337 J	< 0.011 UJ	0.023 J	0.179 J	< 0.031 UJ	0.236	0.0900 J	0.0104 J	0.336
	BA2DC-WO35-0915-1	39	< 0.0041 UJ	0.0286 J	< 0.022 UJ	< 0.017 UJ	0.155 J	< 0.048 UJ	0.184	0.110 J	0.0111 J	0.305

Abbreviations

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DDE - Dichlorodiphenyldichloroethene
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DDNU - 1,1-Bis(4-chlorophenyl)ethene
DDT - Dichlorodiphenyltrichloroethane
EDL - Estimated detection limit (sample specific)
IROD - Interim Record of Decision
m - Meters
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ng/L - Nanograms per liter (parts per trillion)
o,p' - Ortho or para position of chlorine on phenyl groups
QCSR - Quality Control Summary Report

Data Qualifiers

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

Notes

- Analytical results for DDT compounds are in **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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 3 - Transect BA39 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
BA3B	BA3B-WO5-0915-1	5	< 0.0055 UJ	0.0111 J	< 0.028 UJ	< 0.021 UJ	0.0624 J	< 0.13 UJ	0.0735	< 0.025 UJ	0.00228 J	0.0758
	BA3B-WO80-0915-1	80	< 0.0058 UJ	0.0177 J	< 0.019 UJ	< 0.014 UJ	0.0961 J	< 0.068 UJ	0.114	0.0800 J	0.00636 J	0.200
	BA3B-WO145-0915-1	153	0.012 J	0.0546 J	< 0.016 UJ	0.0400 J	0.357 J	< 0.070 UJ	0.464	0.358 J	0.0237 J	0.845
BA3C	BA3C-WO5-0915-1	5	< 0.0040 UJ	0.0103 J	< 0.020 UJ	< 0.015 UJ	0.0652 J	< 0.091 UJ	0.0755	0.0150 J	0.00219 J	0.0927
	BA3C-WO5-1115-1	5	0.0068 J	0.0458 J	0.0021 J	0.0159 J	0.152 J	< 0.0016 U	0.223	0.156 J	0.0230 J	0.402
	BA3C-WO30-0915-1	30	< 0.0069 UJ	0.0666 J	< 0.034 UJ	0.0380 J	0.314 J	< 0.064 UJ	0.419	0.247 J	0.0187 J	0.684
	BA3C-WO55-0915-1	55	< 0.0059 UJ	0.0302 J	< 0.035 UJ	< 0.027 UJ	0.148 J	< 0.087 UJ	0.178	0.116 J	0.00988 J	0.304
	BA3C-WO58-0915-1	58	< 0.0090 UJ	0.0368 J	< 0.052 UJ	< 0.040 UJ	0.211 J	< 0.075 UJ	0.248	0.156 J	0.0124 J	0.416
BA3DC	BA3DC-WO5-0915-1	5	< 0.0088 UJ	< 0.0028 UJ	< 0.029 UJ	< 0.022 UJ	< 0.010 UJ	< 0.10 UJ	ND	< 0.015 UJ	< 0.00030 UJ	ND
	BA3DC-WO20-0915-1	20	< 0.013 UJ	0.113 J	< 0.049 UJ	< 0.039 UJ	0.583 J	< 0.11 UJ	0.696	0.390 J	0.0297 J	1.12
	BA3DC-WO35-0915-1	38	< 0.015 UJ	0.121 J	< 0.058 UJ	0.0570 J	0.587 J	< 0.21 UJ	0.765	0.523 J	0.0454 J	1.33

Abbreviations

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DDE - Dichlorodiphenyldichloroethene
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DDNU - 1,1-Bis(4-chlorophenyl)ethene
DDT - Dichlorodiphenyltrichloroethane
EDL - Estimated detection limit (sample specific)
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Notes

- Analytical results for DDT compounds are in **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).

Table 4 - Transect BA4 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
BA4B	BA4B-WO5-0915-1	5	< 0.0027 UJ	0.0046 J	< 0.017 UJ	< 0.011 UJ	0.0401 J	< 0.037 UJ	0.0447	< 0.019 UJ	< 0.00052 UJ	0.0447
	BA4B-WO75-0915-1	75	0.018 J	0.122 J	< 0.043 UJ	0.0490 J	0.465 J	< 0.017 UJ	0.654	0.383 J	0.0421 J	1.08
	BA4B-WO145-0915-1	141	0.023 J	0.114 J	< 0.041 UJ	0.0460 J	0.441 J	< 0.10 UJ	0.624	0.587 J	0.0615 J	1.27
BA4C	BA4C-WO5-0915-1	5	< 0.0091 UJ	< 0.0049 UJ	< 0.068 UJ	< 0.044 UJ	0.0440 J	< 0.10 UJ	0.0440	< 0.040 UJ	0.00296 J	0.0470
	BA4C-WO30-0915-1	30	< 0.013 UJ	< 0.015 UJ	< 0.12 UJ	< 0.075 UJ	0.0630 J	< 0.25 UJ	0.0630	< 0.092 UJ	0.00540 J	0.0684
	BA4C-WO55-0915-1	55	< 0.046 UJ	< 0.031 UJ	< 0.21 UJ	< 0.14 UJ	0.170 J	< 0.51 UJ	0.170	< 0.19 UJ	< 0.0043 UJ	0.170
	BA4C-WO58-0915-1	58	0.036 J	0.324 J	< 0.045 UJ	0.0860 J	1.14 J	< 0.11 UJ	1.59	1.48 J	0.191 J	3.26
BA4DC	BA4DC-WO5-0915-1	5	< 0.0094 UJ	0.0124 J	< 0.022 UJ	< 0.016 UJ	0.0719 J	< 0.082 UJ	0.0843	0.0300 J	0.00366 J	0.118
	BA4DC-WO20-0915-1	20	0.012 J	0.0305 J	< 0.024 UJ	0.0200 J	0.144 J	< 0.093 UJ	0.206	0.0880 J	0.00785 J	0.302
	BA4DC-WO35-0915-1	36	0.0260 J	0.138 J	< 0.023 UJ	0.0910 J	0.658 J	< 0.072 UJ	0.913	0.550 J	0.0381 J	1.50

Abbreviations

AWQC - Ambient Water Quality Criteria
 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)
 IROD - Interim Record of Decision
 m - Meters
 NA - Not available
 ND - Not detected
 ng/L - Nanograms per liter (parts per trillion)
 o,p - Ortho or para position of chlorine on phenyl groups
 QCSR - Quality Control Summary Report

Notes

- Analytical results for DDT compounds are in **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).
- Underlined cells show Total DDTs greater than the IROD AWQC for saltwater aquatic life (1 ng/L). This criterion has been adopted as the cleanup goal, per the IROD (EPA, 2009).

Data Qualifiers

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

Table 5 - Transect BA5 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
BA5B	BA5B-WO5-0915-1	5	< 0.0029 UJ	< 0.012 UJ	< 0.017 UJ	< 0.0077 UJ	0.0322 J	< 0.029 UJ	0.0322	< 0.13 UJ	< 0.0034 UJ	0.0322
	BA5B-WO75-0915-1	75	0.012 J	0.0502 J	< 0.017 UJ	0.022 J	0.271 J	< 0.035 UJ	0.355	0.194 J	0.0214 J	0.571
	BA5B-WO145-0915-1	145	0.019 J	0.0783 J	< 0.014 UJ	0.0521 J	0.452 J	< 0.040 UJ	0.601	0.470 J	0.0392 J	1.11
BA5C	BA5C-WO5-0915-1	5	0.010 J	< 0.0016 UJ	< 0.016 UJ	< 0.0074 UJ	0.0233 J	< 0.041 UJ	0.033	< 0.014 UJ	0.00113 J	0.034
	BA5C-WO30-0915-1	30	< 0.0059 UJ	0.0190 J	< 0.025 UJ	0.014 J	0.0947 J	< 0.028 UJ	0.128	< 0.014 UJ	0.00528 J	0.133
	BA5C-WO55-0915-1	55	0.015 J	0.0842 J	< 0.014 UJ	0.0482 J	0.414 J	< 0.030 UJ	0.561	0.313 J	0.0232 J	0.898
	BA5C-WO58-0915-1	59	0.0240 J	0.149 J	< 0.014 UJ	0.0815 J	0.749 J	< 0.024 UJ	1.00	0.538 J	0.0457 J	1.59
	BA5C-WO58-0915-2	59	0.0280 J	0.179 J	< 0.010 UJ	0.0907 J	0.902 J	< 0.031 UJ	1.20	0.653 J	0.0395 J	1.89
BA5DC	BA5DC-WO5-0915-1	5	< 0.0029 UJ	< 0.00094 UJ	< 0.023 UJ	< 0.011 UJ	0.0218 J	< 0.049 UJ	0.0218	< 0.014 UJ	< 0.00040 UJ	0.0218
	BA5DC-WO20-0915-1	20	< 0.0020 UJ	< 0.0016 UJ	< 0.016 UJ	< 0.0075 UJ	0.0135 J	< 0.034 UJ	0.0135	< 0.010 UJ	< 0.00038 UJ	0.0135
	BA5DC-WO35-0915-1	35	0.011 J	0.0590 J	< 0.011 UJ	0.0389 J	0.303 J	0.013 J	0.425	0.200 J	0.0155 J	0.640
	BA5DC-WO38-0915-1	38	0.0230 J	0.158 J	0.0150 J	0.0843 J	0.799 J	0.019 J	1.10	0.646 J	0.0616 J	1.81
	BA5DC-WO38-0915-2	38	0.0292 J	0.145 J	< 0.017 UJ	0.0862 J	0.712 J	< 0.067 UJ	0.972	0.625 J	0.0456 J	1.64

Abbreviations

AWQC - Ambient Water Quality Criteria
 DDD - Dichlorodiphenyldichloroethane
 DDE - Dichlorodiphenyldichloroethene
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 DDNU - 1,1-Bis(4-chlorophenyl)ethene
 DDT - Dichlorodiphenyltrichloroethane
 EDL - Estimated detection limit (sample specific)
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Notes

- Analytical results for DDT compounds are in **nanograms per liter (ng/L)**, parts per trillion).
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- An Estimated Maximum Possible Concentration (EMPC) result presented *initalics*, 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).
- Underlined cells show Total DDTs greater than the IROD AWQC for saltwater aquatic life (1 ng/L). This criterion has been adopted as the cleanup goal, per the IROD (EPA, 2009).

Data Qualifiers

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Table 6 - Transect BA6 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
BA6B	BA6B-WO5-0915-1	5	< 0.0013 UJ	0.00549 J	< 0.0028 UJ	0.00530 J	0.0226 J	0.0027 J	0.036	0.0108 J	0.000442 J	0.0473
	BA6B-WO75-0915-1	75	< 0.0019 UJ	0.0118 J	< 0.0048 UJ	< 0.0027 UJ	0.0704 J	0.00470 J	0.0869	0.0537 J	< 0.00089 UJ	0.141
	BA6B-WO145-0915-1	130	< 0.0023 UJ	0.0287 J	< 0.0053 UJ	0.0221 J	0.139 J	0.00580 J	0.196	0.217 J	0.0125 J	0.425
BA6BC	BA6BC-WO5-0915-1	5	0.0076 J	0.0043 J	< 0.0065 UJ	0.00600 J	0.0253 J	< 0.0057 UJ	0.0432	0.0162 J	< 0.00088 UJ	0.0594
	BA6BC-WO50-0915-1	50	0.0066 J	0.0337 J	< 0.0039 UJ	0.0202 J	0.182 J	0.00400 J	0.246	0.152 J	0.0110 J	0.410
	BA6BC-WO95-0915-1	88	0.0553 J	0.0380 J	< 0.0079 UJ	0.123 J	0.253 J	0.00980 J	0.479	0.169 J	0.0223 J	0.670
BA6C	BA6C-WO5-0915-1	5	< 0.0019 UJ	0.00538 J	< 0.0042 UJ	0.00920 J	0.0302 J	< 0.0036 UJ	0.0448	0.0248 J	0.00184 J	0.0714
	BA6C-WO30-0915-1	30	< 0.0020 UJ	0.0533 J	< 0.0047 UJ	0.0491 J	0.268 J	0.011 J	0.381	0.241 J	0.0130 J	0.635
	BA6C-WO55-0915-1	54	0.035 J	0.108 J	< 0.041 UJ	0.0660 J	0.478 J	< 0.12 UJ	0.687	0.371 J	0.0191 J	1.08
BA6DC	BA6DC-WO5-0915-1	5	< 0.0027 UJ	0.00488 J	< 0.0057 UJ	0.00900 J	0.0330 J	< 0.0051 UJ	0.0469	0.0243 J	< 0.00082 UJ	0.0712
	BA6DC-WO20-1115-1	20	< 0.00035 U	0.0318 J	0.0059 J	0.011 J	0.106 J	0.0048 J	0.160	0.0810	0.0435	0.284
	BA6DC-WO35-0915-1	35	0.0320 J	0.160 J	< 0.020 UJ	0.0970 J	0.738 J	< 0.067 UJ	1.03	0.657 J	0.0349 J	1.72

Abbreviations

AWQC - Ambient Water Quality Criteria
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)
IROD - Interim Record of Decision
m - Meters
NA - Not available
ND - Not detected
ng/L - Nanograms per liter (parts per trillion)
o,p - Ortho or para position of chlorine on phenyl groups
QCSR - Quality Control Summary Report

Notes

- Analytical results for DDT compounds are in **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).
- Underlined cells show Total DDTs greater than the IROD AWQC for saltwater aquatic life (1 ng/L). This criterion has been adopted as the cleanup goal, per the IROD (EPA, 2009).

Data Qualifiers

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

Table 7 - Transect BA7 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
BA7B	BA7B-WO5-0915-1	5	< 0.016 UJ	< 0.0050 UJ	< 0.037 UJ	< 0.015 UJ	0.0210 J	< 0.099 UJ	0.0210	< 0.033 UJ	< 0.0012 UJ	0.0210
	BA7B-WO75-0915-1	75	< 0.0096 UJ	0.0161 J	< 0.038 UJ	< 0.015 UJ	0.0899 J	< 0.12 UJ	0.106	< 0.036 UJ	< 0.0014 UJ	0.106
	BA7B-WO145-0915-1	140	< 0.027 UJ	0.0720 J	< 0.053 UJ	0.0520 J	0.348 J	< 0.20 UJ	0.472	0.624 J	0.0407 J	1.14
BA7BC	BA7BC-WO5-0915-1	5	< 0.014 UJ	< 0.0056 UJ	< 0.043 UJ	< 0.017 UJ	0.0150 J	< 0.14 UJ	0.0150	< 0.064 UJ	< 0.0015 UJ	0.0150
	BA7BC-WO50-0915-1	50	0.029 J	0.0768 J	< 0.028 UJ	0.041 J	0.332 J	< 0.094 UJ	0.479	0.296 J	0.0134 J	0.788
	BA7BC-WO95-0915-1	91	0.0520 J	0.202 J	< 0.056 UJ	0.0730 J	0.951 J	< 0.14 UJ	1.28	0.606 J	0.0353 J	1.92
BA7C	BA7C-WO5-0315-1	5	< 0.034 U	0.014 J	< 0.031 U	< 0.019 U	< 0.21 U	< 0.076 U	0.014	< 0.039 U	< 0.0020 U	0.014
	BA7C-WO30-0315-1	30	< 0.064 U	0.198 J	< 0.027 U	0.0770	0.674 J	< 0.047 U	0.949	0.232	0.0417	1.22
	BA7C-WO55-0315-1	55	< 0.0098 U	0.00740 J	< 0.012 U	< 0.0078 U	< 0.21 U	< 0.013 U	0.00740	< 0.023 U	0.00224 J	0.00964
	BA7C-WO58-0315-1	58	< 0.0052 U	< 0.0040 U	< 0.0094 U	< 0.0050 U	< 0.21 U	< 0.021 U	ND	< 0.010 U	< 0.0012 U	ND
BA7DC	BA7DC-WO5-0915-1	5	0.0032 J	0.0047 J	< 0.0047 UJ	0.00550 J	0.0237 J	< 0.0043 UJ	0.0371	< 0.0063 UJ	0.00028 J	0.0374
	BA7DC-WO20-0915-1	20	< 0.013 UJ	0.0286 J	< 0.066 UJ	< 0.026 UJ	0.122 J	< 0.12 UJ	0.151	< 0.060 UJ	0.00790 J	0.159
	BA7DC-WO35-0915-1	35	0.0474 J	0.153 J	< 0.0063 UJ	0.116 J	0.712 J	0.0127 J	1.04	0.589 J	0.0251 J	1.66
	BA7DC-WO38-0915-1	39	0.0240 J	0.116 J	< 0.0097 UJ	0.0821 J	0.566 J	0.0145 J	0.803	0.399 J	0.0207 J	1.22
	BA7DC-WO38-0915-2	39	0.0350 J	0.0958 J	< 0.0056 UJ	0.0808 J	0.477 J	0.0113 J	0.700	0.374 J	0.017 J	1.09
	BA7DC-WO38-0915-3	39	0.0280 J	0.0893 J	< 0.0054 UJ	0.0671 J	0.426 J	0.00850 J	0.619	0.381 J	0.0167 J	1.02

Abbreviations

AWQC - Ambient Water Quality Criteria
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)
IROD - Interim Record of Decision
m - Meters
NA - Not available
ND - Not detected
ng/L - Nanograms per liter (parts per trillion)
o,p - Ortho or para position of chlorine on phenyl groups
QCSR - Quality Control Summary Report

Notes

- Analytical results for DDT compounds are in **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).
- Underlined cells show Total DDTs greater than the IROD AWQC for saltwater aquatic life (1 ng/L). This criterion has been adopted as the cleanup goal, per the IROD (EPA, 2009).

Data Qualifiers

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

Table 8 - Transect BA8 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
BA8B	BA8B-WO5-0915-1	5	< 0.019 UJ	< 0.0064 UJ	< 0.060 UJ	< 0.024 UJ	0.0290 J	< 0.13 UJ	0.0290	< 0.058 UJ	< 0.0016 UJ	0.0290
	BA8B-WO75-0915-1	75	< 0.017 UJ	0.0147 J	< 0.063 UJ	< 0.025 UJ	0.0690 J	< 0.20 UJ	0.0837	< 0.040 UJ	< 0.0015 UJ	0.0837
	BA8B-WO145-0915-1	142	< 0.019 UJ	0.0635 J	< 0.057 UJ	0.040 J	0.263 J	< 0.20 UJ	0.366	0.536 J	0.0361 J	0.939
BA8BC	BA8BC-WO5-0915-1	5	< 0.013 UJ	< 0.0073 UJ	< 0.053 UJ	< 0.021 UJ	0.0260 J	< 0.17 UJ	0.0260	< 0.051 UJ	< 0.0015 UJ	0.0260
	BA8BC-WO50-0915-1	50	0.0085 J	0.0391 J	< 0.0031 UJ	0.0310 J	0.208 J	0.00810 J	0.295	0.143 J	0.00708 J	0.445
	BA8BC-WO95-0915-1	92	0.0226 J	0.103 J	< 0.0038 UJ	0.0626 J	0.538 J	0.00820 J	0.734	0.546 J	0.0268 J	1.31
BA8C	BA8C-WO5-0915-1	5	0.0015 J	0.0020 J	< 0.0022 UJ	0.0028 J	0.0196 J	< 0.0059 UJ	0.0259	0.015 J	0.00039 J	0.042
	BA8C-WO30-0315-1	30	< 0.011 U	0.00740 J	< 0.017 U	< 0.011 U	< 0.21 U	< 0.033 U	0.00740	< 0.015 U	< 0.0011 U	0.00740
	BA8C-WO55-0315-1	55	< 0.011 U	0.00560 J	< 0.017 U	< 0.0090 U	0.286 J	< 0.033 U	0.292	< 0.0089 U	< 0.00073 U	0.292
	BA8C-WO58-0315-1	58	< 0.0088 U	0.0156 J	< 0.018 U	< 0.0070 U	0.367 J	< 0.048 U	0.383	0.0099 J	< 0.00053 UJ	0.39
	BA8C-WO58-0315-2	58	< 0.013 U	0.0247 J	< 0.021 U	< 0.013 U	0.209 J	< 0.036 U	0.234	0.0290 J	0.00214 J	0.265
	BA8C-WO58-0315-3	58	< 0.019 U	0.017 J	< 0.040 U	< 0.019 U	< 0.21 U	< 0.073 U	0.017	< 0.011 UJ	< 0.0013 UJ	0.017
BA8DC	BA8DC-WO5-0915-1	5	0.0016 J	0.0013 J	< 0.0016 UJ	0.00420 J	0.0162 J	< 0.0052 UJ	0.0233	0.013 J	0.000718 J	0.037
	BA8DC-WO20-0915-1	20	0.00320 J	0.0124 J	< 0.035 UJ	0.0142 J	0.0583 J	0.0154 J	0.104	0.0340 J	0.00373 J	0.141
	BA8DC-WO35-0915-1	35	0.0200 J	0.0640 J	0.0068 J	0.0512 J	0.330 J	0.0221 J	0.494	0.159 J	0.0146 J	0.668
	BA8DC-WO38-0915-1	38	0.0166 J	0.0698 J	< 0.0024 UJ	0.0504 J	0.360 J	0.0136 J	0.510	0.205 J	0.0124 J	0.728

Abbreviations

AWQC - Ambient Water Quality Criteria
 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)
 IROD - Interim Record of Decision
 m - Meters
 NA - Not available
 ND - Not detected
 ng/L - Nanograms per liter (parts per trillion)
 o,p - Ortho or para position of chlorine on phenyl groups
 QCSR - Quality Control Summary Report

Data Qualifiers

< - Not detected above the estimated detection limit (EDL) shown
 J - Estimated value (higher 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 **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).

Table 9 - Transect BA9 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
BA9B	BA9B-WO5-0915-1	5	0.0042 J	0.00342 J	< 0.0036 UJ	0.0032 J	0.0192 J	< 0.0037 UJ	0.0300	< 0.0062 UJ	< 0.000031 UJ	0.0300
	BA9B-WO75-0915-1	75	0.0058 J	0.0430 J	< 0.0041 UJ	0.0276 J	0.212 J	0.00930 J	0.298	0.182 J	0.0140 J	0.494
	BA9B-WO145-0915-1	146	0.0109 J	0.0339 J	< 0.0024 UJ	0.0240 J	0.195 J	< 0.0026 UJ	0.264	0.281 J	0.0177 J	0.563
BA9BC	BA9BC-WO5-0915-1	5	0.00290 J	0.0013 J	< 0.0059 UJ	< 0.0037 UJ	0.0116 J	0.0102 J	0.0260	< 0.0083 UJ	< 0.00060 UJ	0.0260
	BA9BC-WO50-0915-1	50	< 0.0013 UJ	0.00484 J	< 0.0035 UJ	0.00500 J	0.0324 J	< 0.0045 UJ	0.0422	0.0253 J	0.00209 J	0.0696
	BA9BC-WO95-0915-1	90	0.00777 J	0.0299 J	< 0.0020 UJ	0.017 J	0.172 J	< 0.0059 UJ	0.227	0.124 J	0.00665 J	0.357
BA9C	BA9C-WO5-0915-1	5	< 0.00070 UJ	0.00087 J	< 0.0019 UJ	< 0.0026 UJ	< 0.0098 UJ	< 0.0032 UJ	0.00087	0.00560 J	0.00027 J	0.00674
	BA9C-WO30-0915-1	30	0.00470 J	0.0146 J	< 0.0027 UJ	0.0119 J	0.0721 J	< 0.0031 UJ	0.103	0.0511 J	0.0027 J	0.157
	BA9C-WO55-0915-1	56	0.0089 J	0.0188 J	< 0.0079 UJ	0.0101 J	0.0937 J	< 0.019 UJ	0.132	0.0582 J	0.00683 J	0.197
	BA9C-WO58-0915-1	58	0.0090 J	0.0301 J	0.0040 J	0.0166 J	0.139 J	< 0.012 UJ	0.199	0.105 J	0.0116 J	0.315
BA9DC	BA9DC-WO5-0315-1	5	< 0.018 U	0.00410 J	< 0.026 U	< 0.015 U	< 0.034 U	< 0.063 U	0.00410	< 0.016 UJ	< 0.0010 U	0.00410
	BA9DC-WO20-0315-1	20	< 0.015 U	0.0109 J	< 0.0073 U	< 0.0059 U	0.143 J	< 0.013 U	0.154	0.0220 J	0.00254 J	0.178
	BA9DC-WO35-0315-1	35	< 0.017 U	0.0173 J	< 0.018 U	< 0.014 U	0.151 J	< 0.023 U	0.168	0.0300 J	0.00346 J	0.202
	BA9DC-WO38-0315-1	38	< 0.011 U	0.0223 J	< 0.0095 U	0.0135 J	0.105 J	< 0.014 U	0.141	0.0299 J	0.00335 J	0.174
	BA9DC-WO38-0315-2	38	< 0.014 U	0.00460 J	< 0.011 U	< 0.0083 U	0.0410 J	< 0.0097 U	0.0456	< 0.0091 UJ	0.00099 J	0.0466
	BA9DC-WO38-0315-3	38	< 0.0060 U	0.0130 J	< 0.0053 U	0.00700 J	0.0611 J	< 0.010 U	0.0811	0.0190 J	0.00229 J	0.102

Abbreviations

AWQC - Ambient Water Quality Criteria
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)
IROD - Interim Record of Decision
m - Meters
NA - Not available
ND - Not detected
ng/L - Nanograms per liter (parts per trillion)
o,p - Ortho or para position of chlorine on phenyl groups
QCSR - Quality Control Summary Report

Data Qualifiers

< - Not detected above the estimated detection limit (EDL) shown
J - Estimated value (higher 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 **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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 10 - Transect BA10 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
BA10B	BA10B-WO5-0915-1	5	< 0.0029 UJ	0.00308 J	< 0.0095 UJ	< 0.0068 UJ	0.0122 J	< 0.045 UJ	0.0153	< 0.0091 UJ	< 0.00030 UJ	0.0153
	BA10B-WO75-0915-1	75	< 0.0030 UJ	< 0.0013 UJ	< 0.016 UJ	< 0.011 UJ	0.0153 J	< 0.060 UJ	0.0153	< 0.012 UJ	< 0.00042 UJ	0.0153
	BA10B-WO145-0915-1	141	< 0.0066 UJ	0.0256 J	< 0.036 UJ	0.0180 J	0.141 J	< 0.068 UJ	0.185	0.0660 J	0.00806 J	0.259
BA10C	BA10C-WO5-0915-1	5	< 0.0049 UJ	< 0.010 UJ	< 0.027 UJ	< 0.010 UJ	0.0224 J	< 0.087 UJ	0.0224	< 0.027 UJ	< 0.00070 UJ	0.0224
	BA10C-WO30-0915-1	30	< 0.0048 UJ	< 0.010 UJ	< 0.023 UJ	< 0.0089 UJ	< 0.022 UJ	< 0.076 UJ	ND	< 0.022 UJ	< 0.00063 UJ	ND
	BA10C-WO55-0915-1	56	< 0.020 UJ	0.0437 J	< 0.021 UJ	0.023 J	0.256 J	0.024 J	0.347	0.0990 J	0.0110 J	0.457
BA10DC	BA10DC-WO5-0915-1	5	< 0.011 UJ	< 0.0088 UJ	< 0.11 UJ	< 0.053 UJ	0.028 J	< 0.23 UJ	0.028	< 0.047 UJ	< 0.00050 UJ	0.028
	BA10DC-WO20-0915-1	20	< 0.016 UJ	< 0.0091 UJ	< 0.10 UJ	< 0.050 UJ	< 0.028 U	< 0.29 UJ	ND	< 0.055 UJ	< 0.00063 UJ	ND
	BA10DC-WO35-0915-1	35	< 0.0094 UJ	0.0226 J	< 0.10 UJ	< 0.052 UJ	0.164 J	< 0.19 UJ	0.187	< 0.043 UJ	0.00261 J	0.189

Abbreviations

AWQC - Ambient Water Quality Criteria
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)
IROD - Interim Record of Decision
m - Meters
NA - Not available
ND - Not detected
ng/L - Nanograms per liter (parts per trillion)
o,p - Ortho or para position of chlorine on phenyl groups
QCSR - Quality Control Summary Report

Data Qualifiers

< - Not detected above the estimated detection limit (EDL) shown
J - Estimated value (higher 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 **nanograms per liter (ng/L)**, parts per trillion).
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).

Table 11 - Transect 11 High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
T11	T11-WO5-0915-1	5	< 0.0061 UJ	< 0.0033 UJ	< 0.024 UJ	< 0.0091 UJ	< 0.022 UJ	< 0.076 UJ	ND	< 0.023 UJ	< 0.00059 UJ	ND
	T11-WO30-0915-1	30	< 0.0068 UJ	< 0.010 UJ	< 0.028 UJ	< 0.011 UJ	0.0308 J	< 0.087 UJ	0.0308	< 0.028 UJ	< 0.00079 UJ	0.0308
	T11-WO55-0915-1	55	< 0.0058 UJ	< 0.0030 UJ	< 0.027 UJ	< 0.010 UJ	< 0.022 UJ	< 0.076 UJ	ND	< 0.038 UJ	< 0.00072 UJ	ND
	T11-WO58-0915-1	58	< 0.0065 UJ	< 0.0027 UJ	< 0.030 UJ	< 0.012 UJ	< 0.022 UJ	< 0.070 UJ	ND	< 0.025 UJ	< 0.00061 UJ	ND

Abbreviations

AWQC - Ambient Water Quality Criteria

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)

IROD - Interim Record of Decision

m - Meters

NA - Not available

ND - Not detected

ng/L - Nanograms per liter (parts per trillion)

o,p - Ortho or para position of chlorine on phenyl groups

QCSR - Quality Control Summary Report

Data Qualifiers

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

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

U - Not detected

UJ - Not detected at an estimated reporting limit

Notes

1. Analytical results for DDT compounds are in **nanograms per liter (ng/L)**, parts per trillion).

2. The data qualifiers are final; associated reason codes are 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. In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.

6. 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 12 - W Series High Resolution DDTs in Water
First MNR Report
Palos Verdes Shelf (OU 5 of the Montrose Chemical Corp. Superfund Site)
Los Angeles County, California

Location	Sample ID	Sample collection depth (m)	o,p'-DDD	o,p'-DDE	o,p'-DDT	p,p'-DDD	p,p'-DDE	p,p'-DDT	Total DDTs (ND = 0)	p,p'-DDMU	p,p'-DDNU	Total DDT Compounds (ND = 0)
W1	W1-WO5-0915-1	5	R	R	R	R	R	R	NA	R	R	NA
	W1-WO30-0915-1	30	< 0.014 UJ	0.0203 J	< 0.070 UJ	< 0.055 UJ	0.122 J	< 0.21 UJ	0.142	< 0.024 UJ	0.00362 J	0.146
	W1-WO55-0915-1	57	< 0.019 UJ	0.0112 J	< 0.094 UJ	< 0.073 UJ	0.0880 J	< 0.20 UJ	0.0992	< 0.038 UJ	0.00235 J	0.102
	W1-WO58-0915-1	60	0.0130 J	0.0224 J	< 0.014 UJ	0.0218 J	0.133 J	0.050 J	0.240	0.0570 J	0.00970 J	0.307
W2	W2-WO5-0915-1	5	< 0.0085 UJ	0.0074 J	< 0.028 UJ	< 0.021 UJ	0.0335 J	< 0.094 UJ	0.0409	< 0.036 UJ	0.0025 J	0.0434
	W2-WO100-0915-1	100	< 0.0079 UJ	0.0123 J	< 0.019 UJ	< 0.014 UJ	0.0763 J	< 0.089 UJ	0.0886	0.0500 J	0.00407 J	0.143
	W2-WO195-0915-1	192	< 0.0089 UJ	0.0326 J	< 0.027 UJ	0.0270 J	0.201 J	< 0.088 UJ	0.261	0.128 J	0.0133 J	0.402
	W2-WO198-0915-1	202	< 0.0081 UJ	0.0301 J	< 0.024 UJ	0.0260 J	0.175 J	< 0.099 UJ	0.231	0.131 J	0.0122 J	0.374
W3	W3-WO5-0915-1	5	< 0.010 UJ	< 0.0073 UJ	< 0.10 UJ	< 0.065 UJ	< 0.031 UJ	< 0.26 UJ	ND	< 0.049 UJ	< 0.0019 UJ	ND
	W3-WO100-0915-1	100	< 0.0064 UJ	0.0334 J	< 0.044 UJ	< 0.028 UJ	0.134 J	< 0.13 UJ	0.167	0.131 J	0.0152 J	0.314
	W3-WO195-0915-1	187	0.019 J	0.0609 J	< 0.023 UJ	0.0390 J	0.385 J	< 0.028 UJ	0.504	0.308 J	0.0240 J	0.836
	W3-WO198-0915-1	200	0.0358 J	0.208 J	< 0.076 UJ	0.0940 J	0.937 J	< 0.087 UJ	1.27	0.769 J	0.110 J	2.15
W4	W4-WO5-0315-1	5	< 0.0067 U	0.00970 J	< 0.0072 UJ	< 0.0045 U	0.0930	< 0.013 U	0.103	0.0062 J	0.00100 J	0.110
	W4-WO100-0315-1	100	< 0.0092 U	0.0181 J	< 0.014 UJ	< 0.010 U	0.123 J	< 0.011 U	0.141	0.0162 J	0.00139	0.159
	W4-WO195-0315-1	195	< 0.013 U	0.0821 J	< 0.019 UJ	0.026 J	0.432 J	< 0.0082 U	0.540	0.142 J	0.0168 J	0.699
	W4-WO198-0315-1	198	< 0.0066 U	0.00440 J	< 0.011 UJ	< 0.0059 U	0.103 J	< 0.0056 U	0.107	0.0260 J	0.00216 J	0.136
W5	W5-WO5-0915-1	5	< 0.0016 UJ	0.00321 J	< 0.0089 UJ	< 0.0063 UJ	0.0122 J	< 0.038 UJ	0.0154	< 0.0078 UJ	0.000940 J	0.0164
	W5-WO30-0915-1	30	< 0.0015 UJ	0.00881 J	< 0.0071 UJ	< 0.0051 UJ	0.0395 J	< 0.037 UJ	0.0483	0.0217 J	0.00182 J	0.0718
	W5-WO58-0915-1	53	< 0.0021 UJ	0.0017 J	< 0.010 UJ	< 0.0074 UJ	0.0111 J	< 0.068 UJ	0.0128	< 0.0063 UJ	< 0.00031 UJ	0.0128
	W5-WO58-0915-2	53	< 0.0052 UJ	< 0.0037 UJ	< 0.035 UJ	< 0.025 UJ	0.0170 J	< 0.19 UJ	0.0170	< 0.029 UJ	< 0.00054 UJ	0.0170
	W5-WO55-0915-1	55	< 0.0016 UJ	0.00365 J	< 0.0049 UJ	< 0.0035 UJ	0.0199 J	< 0.032 UJ	0.0236	< 0.0071 UJ	0.000980 J	0.0245

Abbreviations

AWQC - Ambient Water Quality Criteria
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 DDNU - 1,1-Bis(4-chlorophenyl)ethene
 DDT - Dichlorodiphenyltrichloroethane
 EDL - Estimated detection limit (sample specific)
 IROD - Interim Record of Decision
 m - Meters
 NA - Not available
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 ng/L - Nanograms per liter (parts per trillion)
 o,p - Ortho or para position of chlorine on phenyl groups
 QCSR - Quality Control Summary Report

Notes

- Analytical results for DDT compounds are in **nanograms per liter (ng/L, parts per trillion)**.
- The data qualifiers are final; associated reason codes are 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.
- In calculating summations of Total DDTs and Total DDT Compounds, results reported with U or UJ qualifiers were assumed to have a value of zero.
- 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.
- Shaded cells show p,p'-DDE greater than the IROD AWQC for human health (0.22 ng/L). This criterion has been adopted as the cleanup goal because, in terms of frequency and magnitude of detections, p,p'-DDE is the most prevalent DDT form in the water column at PV Shelf, and its AWQC value is more conservative than that for p,p'-DDD (0.31 ng/L), and equally conservative to that for p,p'-DDT (0.22 ng/L).
- Underlined cells show Total DDTs greater than the IROD AWQC for saltwater aquatic life (1 ng/L). This criterion has been adopted as the cleanup goal, per the IROD (EPA, 2009).

Data Qualifiers

< - Not detected above the estimated detection limit (EDL) shown
 J - Estimated value (higher than EDL), *Estimated Maximum Possible Concentration (EMPC) in italics*
 R - Rejected result due to a laboratory data quality control issue
 U - Not detected
 UJ - Not detected at an estimated reporting limit