Table 3-1 Groundwater Monitor Well Construction

Downgradient Study Area Sampling Event

			Well Information						Lithologic Information		
Well ID	**Well Owner**	**Reference Point Elevation (feet)**	**Depth to Bottom (ft)[1]**	**Depth to Water (ft)**	**GW Elevation (ft)**	**Screen Range (feet)**	**Diameter (in)**	**Material**	**Qal Only[2]**	**Qal & MCF[3]**	**Depth to MCF**
Primary Sampling Wells											
ARP-6A	KMCC/Tronox	1614.32	38 (37.44)	28.52	1585.80	14-39	2	PVC	✓		
H-56A	Montrose	1681.80	60 (60.04)	25.18	1656.62	28-58	4	PVC	✓		**59**
MW-AJ	Ampac	1649.64	31 (30.10)	9.18	1640.46	10-31	2	PVC	✓		
MW-APX-5-16	Ampac	1613.90	(21.34)	7.81	1606.09	16-21	2	PVC	✓		**9**
MW-K1	Ampac	1633.98	23.5 (20.61)	9.60	1624.38	8.5-23.5	2	PVC	✓		**--**
MW-K5	Ampac	1598.81	43.5 (46.19)	28.18	1570.63	28.5-43.5	2	PVC		✓	**38**
MW-R	Ampac	1667.90	38 (38.00)	13.87	1654.03	16-36	2	PVC	✓		**--**
MW-S	Ampac	1609.02	45 (42.29)	16.29	1592.73	15-45	2	PVC		✓	**42**
TWE-15	Ampac	1633.28	(17.51)	10.08	1623.20	15-18	4	PVC	✓		
MW-U	Ampac	1590.96	43 (37.62)	17.48	1573.48	13-43	2	PVC		✓	**38**
PC-004	KMCC/Tronox	1597.13	45 (43.39)	25.84	1571.29	17.7-42.7	2	PVC	✓		**43.5**
PC-028	KMCC/Tronox	1650.80	22 (19.74)	11.88	1638.92	10-19.5	2	PVC		✓	**18**
PC-031	KMCC/Tronox	1657.91	52	11.47	1646.44	15-49.5	2	PVC	✓		**50**
PC-040	KMCC/Tronox	1677.05	60 (57.41)	23.21	1653.84	15-55	2	PVC	✓		**56**
PC-055	KMCC/Tronox	1617.60	55 (50.63)	25.96	1591.64	14-54	6	PVC	✓		**55**
PC-056	KMCC/Tronox	1568.99	58 (54.70)	12.44	1556.55	4.8-54.8	2	PVC	✓		**58**
PC-064	KMCC/Tronox	1675.25	20 (18.37)	6.91	1668.34	4-19	2	PVC	✓		**19**
PC-067	KMCC/Tronox	1673.91	38 (35.50	10.97	1662.94	11-38.6	2	PVC		✓	**36**
PC-077	KMCC/Tronox	1566.71	45 (39.07)	8.67	1558.04	29.5-39.5	2	PVC	✓		**--**
PC-086	KMCC/Tronox	1553.66	30 (26.72)	6.39	1547.27	17.5-27.5	2	PVC	✓		**--**
PC-097	KMCC/Tronox	1548.78	45(32.72)	6.16	1542.62	23-33	2	PVC	✓		
PC-124	KMCC/Tronox	1635.73	35.5 (35.47)	25.04	1610.69	20.3-35.3	2	PVC		✓	

Note:

[1] 38 (37.44) Well completion depth (Observed depth from field measurements)

[2] Well screened in quaternary alluvium (Qal) only

[3] Well screened in Qal and Muddy Creek Formation (MCF)

NA - Information currently Not Available.

Table 3-2 Monitor Well Rationale for Selection

Downgradient Study Area Sampling Event

Monitor Well	Selection Rationale
1. H-56A	-Well construction well known; new well installed 8/2004. -Completed to the top of the Muddy Creek Formation (MCF). -Location selected to bound the main paleochannel to the west, downgradient of the GWTS. -Last sampled 10/2005.
2. PC-040	-Well construction well known; completed to top of MCF. -Location selected to bound the main paelochannel to the east, downgradient of the GWTS, and to form an east-west transect with H-56A, PC-064, and PC-067. -Last sampled in 5/2005.
3. PC-064	-Well construction well known; completed to top of MCF. -Location selected to form east-west transect with H-56A, PC-040 and PC-067, between interpreted paleochannels. -Last sampled 5/2005.
4.PC-067	-Well construction well known; completed 2 feet into the MCF, but the majority of the screened interval is in the alluvium. -Location selected to target interpreted paleochannel to the east and form a transect with H-56A, PC-040 and PC-064. -Last sampled 5/2005.
5. MW-R	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the west and form a transect with PC-031 and PC-028 to the east. -Last sampled 5/2005.
6. PC-031	-Well construction well known; completed 2 feet into the MCF, but the majority of the screened interval is in the alluvium. -Location selected to target interpreted paleochannel downgradient from the "H-56A-PC-040-PC-064-PC-067" transect. -Last sampled 5/2005.
7. PC-028	-Well construction well known; completed 2 feet into the MCF, but the majority of the screened interval is in the alluvium -Location selected to target area between interpreted paleochannels downgradient from the "H-56A, PC-040, PC-064, PC-067" transect. -Last sampled 5/2005.
8. MW-AJ	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the west and form a transect with MW-K1 and PC-124. -Last sampled 4/2004.
9. MW-K1	-Well construction well known; completed in the alluvium although depth to the MCF not documented. -Location selected to target main paleochannel further downgraident toward the central portion of offsite downgradient area. -Last sampled 5/2005.
10. PC-124 replaces PC-024	-Original primary well PC-024 replaced by PC-124, because PC-024 was submerged by water. -Location selected to provide data toward the eastern boundary of the offsite downgradient area, proximal to the eastern interpreted paleochannel.
11. TWE-15 replaces L645	-Original primary well L645 replaced by TWE-15, because L645 could not be located in the field. -Well construction well known; screened in alluvium. -Is the most serviceable well across the central portion of the offsite downgradient area, the "Pittman Lateral" Area.
12. PC-055	-Well construction known, completed to the top of the MCF. -Location selected to target convergence of interpreted paleochannels in the central portion of the offsite downgradient area. -Last sampled 5/1998 and not in 5/2005. Well reconnaissance will determine whether access is good; if not, PC-019 is designated as its alternate.
13. ARP-6A replaces PC-010	-Original primary well PC-010 replaced by ARP-6A, because PC-010 was not found. -Well construction of ARP-6A well known; screened in alluvium. -Location selected to provide data to the east of the paleochannel convergence and form a transect with TWE-15 and PC-055.

Table 3-2 Monitor Well Rationale for Selection

Downgradient Study Area Sampling Event

Monitor Well	Selection Rationale
14. MW-APX-5-16 replaces (MW-APX-5-7)	-Original primary well MW-APX-5-7 replaced by MW-APX-5-16, because MW-APX-5-7 was found to be too shallow. -Well construction of MW-APX-5-16 is well known. -Location selected to the west of the main paleochannel downgradient of the Pittman Lateral Area. -Well installed in 9/2004
15. MW-S	-Well construction well known; completed 3 feet into the top of the MCF, but the majority of the screened interval is within the alluvium. -Location selected toward the western portion of the offsite downgradient area and proximal to the western paleochannel area in the downgradient portion of the offsite downgradient area.
16. MW-K5	-Well construction well known; completed approximately 5 feet into the MCF, but approximately 2/3 of the screened interval is in the alluvium. -Location selected to intersect the interpreted paleochannel about midway between the upgradient paleochannel convergence (at well PC-055) and the Las Vegas Wash.
17. PC-004 replaces PC-002	-Original primary well PC-002 replaced by PC-004, because PC-002 could not be located in the field. -Well construction well known; completed to the top of the MCF. (Pittman Lateral Study Well). -Location selected to bound the main paleochannel to the east of MW-K5.
18. PC-056	-Well construction well known; completed to the top of the MCF. -Location selected to intersect the main paleochannel downgraident from MW-K5 and the area where the eastern paelochannel converges with the main one. -Last sampled in 5/2005.
19. MW-U	-Well construction well known; completed 5 feet into the MCF, but the majority of the screened interval is in the alluvium. -Location selected to bound the offsite downgradient area to the west and north, toward the Las Vegas Wash. -Last sampled in 5/2005.
20. PC-077	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the north toward the Last Vegas Wash, proximal to one of the interpreted western paleochannels. -Last sampled 5/2005.
21. PC-086	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the east and north toward the Las Vegas Wash and the Tronox Seep. It also is is proximal to the downgradient extension of the main paelochannel. -Last sampled 5/2005.
22. PC-097	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the east and north toward the Las Vegas Wash and the Tronox Seep. It also is proximal to the downgradient extension of the main paelochannel.

Table 3-2 Monitor Well Rationale for Selection

Downgradient Study Area Sampling Event

Monitor Well	Selection Rationale
1. H-56A	-Well construction well known; new well installed 8/2004. -Completed to the top of the Muddy Creek Formation (MCF). -Location selected to bound the main paleochannel to the west, downgradient of the GWTS. -Last sampled 10/2005.
2. PC-040	-Well construction well known; completed to top of MCF. -Location selected to bound the main paelochannel to the east, downgradient of the GWTS, and to form an east-west transect with H-56A, PC-064, and PC-067. -Last sampled in 5/2005.
3. PC-064	-Well construction well known; completed to top of MCF. -Location selected to form east-west transect with H-56A, PC-040 and PC-067, between interpreted paleochannels. -Last sampled 5/2005.
4.PC-067	-Well construction well known; completed 2 feet into the MCF, but the majority of the screened interval is in the alluvium. -Location selected to target interpreted paleochannel to the east and form a transect with H-56A, PC-040 and PC-064. -Last sampled 5/2005.
5. MW-R	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the west and form a transect with PC-031 and PC-028 to the east. -Last sampled 5/2005.
6. PC-031	-Well construction well known; completed 2 feet into the MCF, but the majority of the screened interval is in the alluvium. -Location selected to target interpreted paleochannel downgradient from the "H-56A-PC-040-PC-064-PC-067" transect. -Last sampled 5/2005.
7. PC-028	-Well construction well known; completed 2 feet into the MCF, but the majority of the screened interval is in the alluvium -Location selected to target area between interpreted paleochannels downgradient from the "H-56A, PC-040, PC-064, PC-067" transect. -Last sampled 5/2005.
8. MW-AJ	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the west and form a transect with MW-K1 and PC-124. -Last sampled 4/2004.
9. MW-K1	-Well construction well known; completed in the alluvium although depth to the MCF not documented. -Location selected to target main paleochannel further downgraident toward the central portion of offsite downgradient area. -Last sampled 5/2005.
10. PC-124 replaces PC-024	-Original primary well PC-024 replaced by PC-124, because PC-024 was submerged by water. -Location selected to provide data toward the eastern boundary of the offsite downgradient area, proximal to the eastern interpreted paleochannel.
11. TWE-15 replaces L645	-Original primary well L645 replaced by TWE-15, because L645 could not be located in the field. -Well construction well known; screened in alluvium. -Is the most serviceable well across the central portion of the offsite downgradient area, the "Pittman Lateral" Area.
12. PC-055	-Well construction known, completed to the top of the MCF. -Location selected to target convergence of interpreted paleochannels in the central portion of the offsite downgradient area. -Last sampled 5/1998 and not in 5/2005. Well reconnaissance will determine whether access is good; if not, PC-019 is designated as its alternate.
13. ARP-6A replaces PC-010	-Original primary well PC-010 replaced by ARP-6A, because PC-010 was not found. -Well construction of ARP-6A well known; screened in alluvium. -Location selected to provide data to the east of the paleochannel convergence and form a transect with TWE-15 and PC-055.

Table 3-2 Monitor Well Rationale for Selection

Downgradient Study Area Sampling Event

Monitor Well	Selection Rationale
14. MW-APX-5-16 replaces (MW-APX-5-7)	-Original primary well MW-APX-5-7 replaced by MW-APX-5-16, because MW-APX-5-7 was found to be too shallow. -Well construction of MW-APX-5-16 is well known. -Location selected to the west of the main paleochannel downgradient of the Pittman Lateral Area. -Well installed in 9/2004
15. MW-S	-Well construction well known; completed 3 feet into the top of the MCF, but the majority of the screened interval is within the alluvium. -Location selected toward the western portion of the offsite downgradient area and proximal to the western paleochannel area in the downgradient portion of the offsite downgradient area.
16. MW-K5	-Well construction well known; completed approximately 5 feet into the MCF, but approximately 2/3 of the screened interval is in the alluvium. -Location selected to intersect the interpreted paleochannel about midway between the upgradient paleochannel convergence (at well PC-055) and the Las Vegas Wash.
17. PC-004 replaces PC-002	-Original primary well PC-002 replaced by PC-004, because PC-002 could not be located in the field. -Well construction well known; completed to the top of the MCF. (Pittman Lateral Study Well). -Location selected to bound the main paleochannel to the east of MW-K5.
18. PC-056	-Well construction well known; completed to the top of the MCF. -Location selected to intersect the main paleochannel downgraident from MW-K5 and the area where the eastern paelochannel converges with the main one. -Last sampled in 5/2005.
19. MW-U	-Well construction well known; completed 5 feet into the MCF, but the majority of the screened interval is in the alluvium. -Location selected to bound the offsite downgradient area to the west and north, toward the Las Vegas Wash. -Last sampled in 5/2005.
20. PC-077	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the north toward the Last Vegas Wash, proximal to one of the interpreted western paleochannels. -Last sampled 5/2005.
21. PC-086	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the east and north toward the Las Vegas Wash and the Tronox Seep. It also is is proximal to the downgradient extension of the main paelochannel. -Last sampled 5/2005.
22. PC-097	-Well construction well known; completed within the alluvium. -Location selected to bound the offsite downgradient area to the east and north toward the Las Vegas Wash and the Tronox Seep. It also is proximal to the downgradient extension of the main paelochannel.

Table 3-3 Site Related Chemicals (SRCs) Requiring Certification
Downgradient Study Area Sampling Event

Table indicates certification status for analytes that were not appoved by NDEP as of March 12, 2007

TestAmerica

				SRC	
Dept	Method	Parameter	NV Cert Status	Montrose	SMC
GCMS-VOL	8260	1,1-Dichloropropene	IDC Submitted	X	
	8260	1,2,3-Trichloropropane	IDC Submitted	X	
	8260	1,2,4-Trichlorobenzene	IDC Submitted	X	
	8260	1,2,4-Trimethylbenzene	IDC Submitted	X	
	8260	1,3,5-Trimethylbenzene	IDC Submitted	X	
	8260	1,3-Dichloropropane	IDC Submitted	X	
	8260	2-Chlorotoluene	IDC Submitted	X	
	8260	4-Chlorotoluene	IDC Submitted	X	
	8260	Carbon disulfide	IDC Submitted		X
	8260	Dibromochloropropane (DBCP)	IDC Submitted	X	
	8260	Ethyl Alcohol	IDC Submitted	X	X
	8260	Isopropyltoluene	IDC Submitted	X	
	8260	n-Butylbenzene	IDC Submitted	X	
	8260	n-Propylbenzene	IDC Submitted	X	
	8260	sec-Butylbenzene	IDC Submitted	X	
	8260	Styrene	IDC Submitted	X	
	8260	tert-Butylbenzene	IDC Submitted	X	
	8260	1,3,5-Trichlorobenzene	IDC submitted 06/16/06	X	X
	8260	2,2,3-Trimethylbutane	IDC submitted 06/16/06		X
	8260	2,2-Dimethylpentane	IDC submitted 06/16/06		X
	8260	2,3-Dimethylpentane	IDC submitted 06/16/06		X
	8260	2,4-Dimethylpentane	IDC submitted 06/16/06		X
	8260	2-Methylhexane	IDC submitted 06/16/06		X
	8260	3,3-Dimethylpentane	IDC submitted 06/16/06		X
	8260	3-Ethylpentane	IDC submitted 06/16/06		X
	8260	3-Methylhexane	IDC submitted 06/16/06		X
	8260	Dimethyl Disulfide	IDC submitted 06/16/06		X
	8260	n-Heptane	IDC submitted 06/16/06		X
	8260	Nonanal	IDC Submitted		X
GCMS-SEMI	8270	2,4,6-Trichlorophenol	IDC Submitted	X	X
	8270	4,4'-Dichlorobenzil	IDC Submitted	X	
	8270	4-Nitrophenol	IDC Submitted	X	
	8270	Benzo(a)anthracene	IDC Submitted		X
	8270	Benzo(a)pyrene	IDC Submitted	X	X
	8270	Benzoic Acid	IDC Submitted	X	X
	8270	Bis(2-ethylhexyl)phthalate	IDC Submitted	X	X
	8270	Di-n-octyl phthalate	IDC Submitted	X	
	8270	Indeno(1,2,3-cd)pyrene	IDC Submitted		X
	8270	1,4-Dioxane	IDC submitted 06/16/06	X	
	8270	1,2,4,5-Tetrachlorobenzene	IDC submitted 06/16/06	X	X
	8270	4,4'-Dichlorobenzophenone	IDC submitted 06/16/06	X	X
	8270	Benzophenone	IDC submitted 06/16/06		X
	8270	bis(4-chorophenyl)disulfide	IDC submitted 06/16/06		X
	8270	n-Hydroxymethylphthalimide	IDC Submitted		X
	8270	1,1'-Sulfonybis benzene	IDC Submitted		X
	8270	1-chloro-4-(methylsulfonyl) benzene	IDC Submitted		X
	8270	Chlorobenzenethiol	IDC Submitted		X
	8270	Octachlorostyrene	IDC submitted 06/16/06	X	X
	8270	p-Chlorophenyl methyl sulfide	IDC submitted 06/16/06		X
	8270	p-Chlorophenyl sulfone	IDC submitted 06/16/06		X
	8270	Pentachlorobenzene	IDC submitted 06/16/06	X	X
	8270	Phenyl disulfide	IDC submitted 06/16/06		X
	8270	Phenyl sulfide	IDC submitted 06/16/06		X
	8270	Thiophenol	IDC Submitted		X

Table 3-3 Site Related Chemicals (SRCs) Requiring Certification
Downgradient Study Area Sampling Event

Table indicates certification status for analytes that were not appoved by NDEP as of March 12, 2007

TestAmerica

				SRC	
Dept	**Method**	**Parameter**	**NV Cert Status**	Montrose	SMC
GCMS-SEMI	8270M	Chloral (trichloroacetaldehyde)	MDLs completed; IDC pending	x	
	8270M	Dichloroacetaldehyde	MDLs completed; IDC pending	x	
WETCHEM	300.1	Chlorate	IDC Submitted for water		x
	~~314.0~~	~~pCBSA~~	~~IDC submitted 06/16/06~~	to be done by HPLC or	
PEST	8081A	2,4-DDT	IDC submitted 06/16/06	x	
	8081A	2,4-DDE	IDC submitted 06/16/06	x	x
	8081A	2,4-DDD	IDC submitted 06/16/06	x	x
	8141	Phosmet	IDC submitted 06/5/06		x
	8141	Methyl Carbophenothion	IDC submitted 06/5/06		x
	8141	Carbophenothion	IDC submitted 06/5/06		x
GC	8015	Methanol	IDC submitted 06/02/06		x
GC	8015	Ethanol	IDC submitted 06/02/06	x	x

Subcontract Laboratories

Laboratory	**Method**	**Parameter**	**NV Cert Status**		
Alpha Analytical	HPLC	Organic Acids	Curretly certified		x
Maxxam	1668	PCB Congeners	Curretly certified		
Maxxam	6010B	Sulfur	IDC submitted	x	
Weck	300	Iodide	Certified for soil added, checking on Water		x
EMSL		Asbestos in Soil	Curretly certified		x

Clarification required for soil certification for all 300 series Inorganics (Chlorate, Ammonia, Alkalinity, Total Phos., Iodide) as well as TOC by 415.1. No soil IDCs submitted.
These are water methods, No soil MDLs are performed - a dilution factor is applied to water MDL/RL based upon soil being "extracted" with water.
TOC by 9060 - IDCs submitted, tables indicate 415.1 currently

Table 4-1 - Prevalence Table of Detected Compounds

Downgradient Study Area Sampling Event

GROUP	ANALYTE	SRC	Units	Tap Water PRG Exceedance	Federal MCL Exceedance	Number of Analysis	Number of Detects[1]	Number of Well Detects[2]	FOD	Min	Max	Avg	Std Dev	Location of Max Detect	MCL
ALDEHYDES	Chloroacetaldehyde	✓	ug/l			24	1	1	4.2%	3.9	3.9	3.9		PC-097	
	Formaldehyde	✓	ug/l			24	3	3	12.5%	24	44	36.0	10.6	PC-064	
DIOXIN/FURANS	Total Hepta CDD		pg/L			24	1	1	4.2%	1.01	1.01	1.0		PC-077	
	Total Hepta CDF		pg/L			24	1	1	4.2%	1.23	1.23	1.2		H-56A	
	Total Hexa CDF		pg/L			24	1	1	4.2%	0.63	0.63	0.6		H-56A	
	Total Penta CDD		pg/L			24	1	1	4.2%	1.92	1.92	1.9		PC-077	
	Total Penta CDF		pg/L			24	13	12	54.2%	0.55	6.46	1.3	1.6	PC-067	
	Total Tetra CDD		pg/L			24	5	5	20.8%	1.05	23	6.6	9.3	PC-077	
	Total Tetra CDF		pg/L			24	18	17	75.0%	0.75	22.5	4.4	5.7	MW-K5	
	1,2,3,4,7,8,9-Hepta CDF	✓	pg/L			24	1	1	4.2%	0.68	0.68	0.7		H-56A	
	1,2,3,4,7,8-Hexa CDF	✓	pg/L			24	1	1	4.2%	0.63	0.63	0.6		H-56A	
	2,3,4,7,8-Penta CDF	✓	pg/L			24	7	6	29.2%	0.55	1.02	0.8	0.2	PC-040	
	2,3,7,8-Tetra CDF	✓	pg/L			24	5	5	20.8%	0.83	3.8	2.4	1.3	MW-K1	
INORGANICS	Alkalinity as CaCO3	✓	mg/l			48	48	44	100.0%	56	320	190.5	85.9	PC-086	
	Ammonia-N	✓	mg/l			24	13	12	54.2%	0.075	0.38	0.2	0.1	PC-086	
	Bicarbonate	✓	mg/l			24	24	22	100.0%	68	400	233.3	107.0	PC-086	
	Bicarbonate Alkalinity as CaCO3	✓	mg/l			24	24	22	100.0%	56	320	190.3	87.0	PC-086	
	Chlorate	✓	ug/l			25	15	14	60.0%	130	900000	166200.0	258344.6	PC-028	
	Chloride	✓	mg/l			24	24	22	100.0%	530	5700	1931.3	1399.8	PC-067	
	Fluoride	✓	mg/l	✓	✓	24	16	15	66.7%	1.8	11	4.2	2.8	H-56A	4
	Iodide	✓	ug/l			24	7	7	29.2%	88	2100	742.6	670.2	PC-040	
	Nitrate-N	✓	mg/l	✓	✓	24	15	13	62.5%	4.9	67	22.4	20.5	PC-064	10
	pH	✓	pH Units			24	23	21	95.8%	7	8.24	7.4	0.3	MW-K1	
	Sulfate	✓	mg/l			24	24	22	100.0%	710	2900	1827.1	578.4	PC-067	
	Sulphur (S)	✓	mg/L			24	18	17	75.0%	274	1030	625.9	190.0	PC-067	
	Total Cyanide	✓	mg/l			24	1	1	4.2%	0.023	0.023	0.0		MW-APX-5-16	0.2
	Total Dissolved Solids	✓	mg/l			24	24	22	100.0%	1800	16000	6537.5	3887.8	PC-067	
METALS	Boron		mg/l			24	24	22	100.0%	1	14	3.1	2.7	PC-064	
	Antimony	✓	ug/l			24	1	1	4.2%	0.61	0.61	0.6		H-56A	6
	Arsenic	✓	ug/l	✓	✓	24	18	17	75.0%	9.4	270	129.0	73.2	PC-028	10
	Barium	✓	ug/l			24	24	22	100.0%	12	45	25.0	8.6	PC-067	2000
	Cadmium	✓	ug/l			24	13	11	54.2%	0.092	0.69	0.3	0.2	PC-004	5
	Calcium	✓	mg/l			24	24	22	100.0%	97	940	428.2	252.3	ARP-6A	
	Chromium	✓	ug/l			24	1	1	4.2%	53	53	53.0		MW-K5	100
	Chromium VI	✓	mg/l	✓	✓	24	12	11	50.0%	0.00097	5.1	0.6	1.4	PC-064	0.1
	Cobalt	✓	ug/l			24	22	20	91.7%	0.42	11	2.9	3.0	PC-097	
	Copper	✓	ug/l			24	16	14	66.7%	4.5	11	6.5	1.7	MW-S	
	Iron	✓	mg/l			24	1	1	4.2%	0.13	0.13	0.1		PC-031	
	Lead	✓	ug/l			24	1	1	4.2%	0.18	0.18	0.2		PC-086	
	Magnesium	✓	mg/l			24	23	21	95.8%	49	480	207.1	121.3	PC-067	
	Manganese	✓	ug/l	✓		24	10	9	41.7%	6.8	1600	583.1	583.5	MW-K1	
	Molybdenum	✓	ug/l	✓		24	24	22	100.0%	16	310	84.8	70.9	PC-004	
	Phosphorus	✓	mg/l	✓		24	18	17	75.0%	0.018	0.32	0.1	0.1	PC-086	
	Potassium	✓	mg/l			24	19	17	79.2%	16	90	32.8	16.2	PC-004	
	Selenium	✓	ug/l			24	18	17	75.0%	1.6	15	7.2	3.9	MW-U	50
	Silver	✓	ug/l			24	9	8	37.5%	0.025	0.78	0.2	0.2	PC-124	50
	Sodium	✓	mg/l			24	24	22	100.0%	490	3400	1402.1	770.4	PC-067	
	Thallium	✓	ug/l			24	7	7	29.2%	0.26	1.5	0.7	0.5	MW-S	2
	Tin	✓	mg/l			24	9	8	37.5%	0.0033	0.023	0.0	0.0	PC-028	
	Titanium	✓	mg/l			24	13	12	54.2%	0.0026	0.0092	0.0	0.0	PC-031	
	Vanadium	✓	ug/l	✓		24	17	15	70.8%	8.4	270	77.7	75.2	MW-R	
	Zinc	✓	ug/l			24	2	2	8.3%	17	23	20.0	4.2	PC-064	

Table 4-1 - Prevalence Table of Detected Compounds

Downgradient Study Area Sampling Event

GROUP	ANALYTE	SRC	Units	Tap Water PRG Exceedance	Federal MCL Exceedance	Number of Analysis	Number of Detects[1]	Number of Well Detects[2]	FOD	Min	Max	Avg	Std Dev	Location of Max Detect	MCL
ORGANICS	Total Organic Carbon		mg/l			24	15	14	62.5%	1.4	6.2	3.6	1.5	MW-R	
ORGANIC ACIDS	Diethyl phosphorodithioic acid	✓	mg/L			24	9	8	37.5%	0.065	0.41	0.2	0.1	PC-040	
	Dimethyl phosphorodithioic acid	✓	mg/L			24	5	5	20.8%	0.42	8.5	3.5	3.3	PC-067	
	Phthalic acid	✓	mg/L			24	17	16	70.8%	0.05	0.26	0.1	0.1	MW-R	
PCBs	22'33'44'5-HeptaCB-(170)		ng/L			24	8	8	33.3%	0.0145	0.0261	0.0	0.0	PC-040	
	2-MonoCB-(1)		ng/L			24	21	20	87.5%	0.0159	23.5	4.6	6.6	MW-K1	
	3-MonoCB-(2)		ng/L			22	17	16	77.3%	0.004	4.28	0.4	1.1	PC-077	
	4-MonoCB-(3)		ng/L			24	15	13	62.5%	0.0062	4.31	0.7	1.2	PC-077	
	HexaCB-(156)+(157)		ng/L			24	5	5	20.8%	0.0074	0.0099	0.0	0.0	PC-040	
	2,3-DiCB-(5)	✓	ng/L			24	4	4	16.7%	0.039	13	4.0	6.1	PC-077	
	2,3'-DiCB-(6)	✓	ng/L			24	11	10	45.8%	0.016	36.4	6.2	11.7	PC-077	
	2,4-DiCB-(7)	✓	ng/L			24	9	8	37.5%	0.0127	1.84	0.4	0.6	PC-077	
	2,4'-DiCB-(8)	✓	ng/L			24	14	12	58.3%	0.0172	41.4	5.1	11.7	PC-077	
	2,5-DiCB-(9)	✓	ng/L			24	10	9	41.7%	0.0201	29.2	3.9	9.1	PC-077	
	2,6-DiCB-(10)	✓	ng/L			24	7	6	29.2%	0.0263	1.47	0.3	0.5	PC-077	
	22'-DiCB-(4)	✓	ng/L			24	16	15	66.7%	0.046	104	12.7	28.1	PC-077	
	233'44'55'-HeptaCB-(189)	✓	ng/L			22	3	3	13.6%	0.0016	0.0026	0.0	0.0	MW-S	500
	233'44'-PentaCB-(105)	✓	ng/L			24	2	2	8.3%	0.0083	0.0143	0.0	0.0	PC-028	500
	23'44'55'-HexaCB-(167)	✓	ng/L			24	6	6	25.0%	0.0032	0.0052	0.0	0.0	PC-028	500
	23'44'5-PentaCB-(118)	✓	ng/L			24	8	8	33.3%	0.0188	0.0451	0.0	0.0	PC-028	500
	3,3'-DiCB-(11)	✓	ng/L			24	13	11	54.2%	0.0343	0.488	0.1	0.2	PC-086	
	3,5-DiCB-(14)	✓	ng/L			24	3	3	12.5%	0.044	0.313	0.1	0.1	PC-077	
	33'44'-TetraCB-(77)	✓	ng/L			24	3	3	12.5%	0.0013	0.0023	0.0	0.0	PC-077	500
	4,4'-DiCB-(15)	✓	ng/L			24	10	8	41.7%	0.018	0.901	0.2	0.3	MW-S	
	DiCB-(12)+(13)	✓	ng/L			24	9	9	37.5%	0.0102	1.77	0.7	0.8	PC-086	
PESTICIDES	Diazinon		ug/l			25	1	1	4.0%	0.22	0.22	0.2		PC-086	
	O,O,O-Triethylphosphorothioate		ug/l			25	1	1	4.0%	0.44	0.44	0.4		PC-031	
	alpha-BHC	✓	ug/l	✓		24	12	11	50.0%	0.021	1.5	0.5	0.4	PC-040	
	beta-BHC	✓	ug/l	✓		24	15	14	62.5%	0.047	7.6	1.5	2.2	PC-031	
	delta-BHC	✓	ug/l			24	16	15	66.7%	0.047	4.3	1.3	1.4	MW-R	
	gamma-BHC (Lindane)	✓	ug/l	✓	✓	24	2	2	8.3%	0.044	0.23	0.1	0.1	PC-040	0.2
SVOCs	1,4-Dioxane		ug/l			24	11	10	45.8%	0.41	2	0.8	0.5	PC-040	
	Tetracosane		ug/l			1	1	1	100.0%	75	75	75.0		MW-APX-5-16	
	1,2,4-Trichlorobenzene	✓	ug/l	✓		24	3	3	12.5%	9.1	15	12.7	3.2	MW-K1 / PC-031	70
	1,2-Dichlorobenzene	✓	ug/l			24	2	2	8.3%	10	10	10.0	0.0	MW-K1 / PC-031	600
	1,3-Dichlorobenzene	✓	ug/l			24	1	1	4.2%	4	4	4.0		MW-K1	1600
	1,4-Dichlorobenzene	✓	ug/l	✓		24	4	3	16.7%	4.1	15	9.4	5.9	MW-K1 / PC-031	75
	Hexachlorobenzene	✓	mg/l			22	1	1	4.5%	0.000018	0.000018	0.0		PC-040	0.001
	Pentachlorophenol	✓	ug/l			22	5	4	22.7%	0.014	0.02	0.0	0.0	MW-R	1
TICs	2-methyl-6-propyldodecane		ug/l			2	2	2	100.0%	54	64	59.0	7.1	MW-K5	
	7-Hexyl tridecane isomer		ug/l			1	1	1	100.0%	190	190	190.0		ARP-6A	
	Docosane		ug/l			1	1		100.0%	180	180	180.0		ARP-6A DUP	
	docosane isomer		ug/l			1	1		100.0%	160	160	160.0		ARP-6A DUP	
	Heptacosane		ug/l			4	4	3	100.0%	52	110	78.8	27.4	ARP-6A DUP	
	Hexacosane		ug/l			2	2	1	100.0%	60	72	66.0	8.5	ARP-6A DUP	
	Hexatriacontane		ug/l			2	2	2	100.0%	49	130	89.5	57.3	ARP-6A	
	Hexatriacontane isomer		ug/l			1	1	1	100.0%	77	77	77.0		ARP-6A	
	Nonadecane		ug/l			1	1		100.0%	97	97	97.0		ARP-6A DUP	
	Octacosane		ug/l			1	1	1	100.0%	48	48	48.0		PC-077	
	Pentacosane		ug/l			1	1		100.0%	52	52	52.0		ARP-6A DUP	
	Triacontane		ug/l			3	3	2	100.0%	49	200	136.3	78.2	ARP-6A DUP	
	7-Hexyl tridecane	✓	ug/l			2	2	2	100.0%	87	140	113.5	37.5	ARP-6A	

Table 4-1 - Prevalence Table of Detected Compounds
Downgradient Study Area Sampling Event

GROUP	ANALYTE	SRC	Units	Tap Water PRG Exceedance	Federal MCL Exceedance	Number of Analysis	Number of Detects[1]	Number of Well Detects[2]	FOD	Min	Max	Avg	Std Dev	Location of Max Detect	MCL
TICs	9-Octyl heptadecane	✓	ug/l			1	1		100.0%	240	240	240.0		ARP-6A DUP	
TPH	EFH (C8 - C40)		mg/l			24	3	2	12.5%	0.066	0.081	0.1	0.0	MW-R	
	Methanol	✓	mg/l	✓		23	3	3	13.0%	0.81	0.88	0.9	0.0	MW-S	
	Volatile Fuel Hydrocarbons (C6-C12)	✓	ug/l			24	15	13	62.5%	25	170	71.9	47.2	MW-K1 / PC-067	
VOCs	Bromodichloromethane		ug/l			24	1	1	4.2%	1.4	1.4	1.4		PC-064	
	1,1-Dichloroethane	✓	ug/l			24	14	13	58.3%	0.3	23	3.9	5.8	PC-040	
	1,1-Dichloroethene	✓	ug/l			24	4	3	16.7%	0.42	2	1.2	0.8	ARP-6A	7
	1,2,3-Trichlorobenzene	✓	ug/l			24	5	4	20.8%	0.73	5.6	1.9	2.1	H-56A	
	1,2,4-Trichlorobenzene	✓	ug/l	✓		24	8	7	33.3%	0.64	22	6.8	7.8	MW-K1 / PC-031	70
	1,2-Dibromo-3-chloropropane	✓	ug/l			22	7	7	31.8%	0.0034	0.018	0.0	0.0	PC-064 / PC-067	0.2
	1,2-Dichlorobenzene	✓	ug/l			24	6	5	25.0%	0.97	18	6.9	6.1	MW-K1 / PC-031	600
	1,2-Dichlorobenzene	✓	ug/l			24	6	5	25.0%	0.97	18	6.9	6.1	PC-031	600
	1,2-Dichloroethane	✓	ug/l	✓		24	9	8	37.5%	0.28	1.6	0.8	0.5	PC-040	5
	1,3,5-Trichlorobenzene	✓	ug/l			24	5	5	20.8%	0.18	0.48	0.3	0.1	PC-097	
	1,3-Dichlorobenzene	✓	ug/l			24	9	8	37.5%	0.83	6.8	1.9	2.0	MW-K1	1600
	1,4-Dichlorobenzene	✓	ug/l	✓		24	9	8	37.5%	0.37	27	6.2	8.4	MW-K1 / PC-031	75
	2,3-Dimethylpentane	✓	ug/l			24	1	1	4.2%	0.58	0.58	0.6		MW-K1	
	2,4-Dimethylpentane	✓	ug/l			24	1	1	4.2%	0.83	0.83	0.8		MW-K1	
	Benzene	✓	ug/l	✓		24	1	1	4.2%	0.5	0.5	0.5		MW-K1	5
	Bromoform	✓	ug/l			24	1	1	4.2%	6.6	6.6	6.6		PC-064	
	Carbon tetrachloride	✓	ug/l	✓	✓	24	5	4	20.8%	0.67	11	6.1	3.7	PC-028	5
	Chlorobenzene	✓	ug/l			24	2	2	8.3%	0.43	89	44.7	62.6	MW-K1	100
	Chloroform	✓	ug/l	✓	✓	24	18	16	75.0%	0.35	1400	231.7	409.2	PC-067	80
	Dibromochloromethane	✓	ug/l	✓		24	1	1	4.2%	2.8	2.8	2.8		PC-064	
	Methylene chloride	✓	ug/l			24	1	1	4.2%	0.94	0.94	0.9		PC-056	5
	p-Isopropyltoluene	✓	ug/l			24	1	1	4.2%	0.31	0.31	0.3		PC-040	
	sec-Butylbenzene	✓	ug/l			24	1	1	4.2%	0.41	0.41	0.4		MW-K1	
	Tetrachloroethene	✓	ug/l	✓	✓	24	15	13	62.5%	0.32	6.7	1.2	1.6	PC-040	5
	Trichloroethene	✓	ug/l	✓		24	14	12	58.3%	0.26	4.7	1.4	1.4	PC-040	5

Notes:
[1] Number of primary detections including field duplicates
[2] Number of well detections excluding field duplicates
General Comment: Analytical results qualified as Rejected or J-Value are not included in prevalence calculations

Table 4-2 Summary of Downgradient Sampling Results

Downgradient Study Area Sampling Event

						Well Sample Results																					
GROUP	SRC	LAB ANALYTE	CAS #	UNITS	Federal MCL[1]	ARP-6A	H-56A	MW-AJ	MW-APX-5-16	MW-K1	MW-K5	MW-R	MW-S	MW-V	PC-004	PC-028	PC-031	PC-040	PC-055	PC-056	PC-064	PC-067	PC-077	PC-086	PC-097	PC-124	TWE-15
ALDEHYDE	✓	Acetaldehyde	75-07-0	ug/l		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
	✓	Chloroacetaldehyde	107-20-0	ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	3.9	<10	<10
	✓	Formaldehyde	50-00-0	ug/l		<60	<60	<60	<60	<60	<60	<60	<60	<60	<60	40	<60	24	<60	<60	44	<60	<60	<60	<60	<60	<60
ASBESTOS	✓	Asbestos	1332-21-4	MFL	7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
INORGANICS	✓	Alkalinity as CaCO3	471-34-1	mg/l		72	210	300	230	220	220	310	230	120	96	76	260	200	260	150	56	130	150	320	270	76	250
	✓	Ammonia-N	7664-41-7	mg/l		<0.5	<0.5	0.18	<0.5	0.17	<0.5	<0.5	<0.5	<0.5	0.12	0.09	0.17	0.082	0.16	0.33	0.077	0.21	<0.5	0.38	<0.5	<0.5	0.075
	✓	Bicarbonate	71-52-3	mg/l		88	250	370	280	270	270	380	280	140	120	93	310	240	320	190	68	160	180	400	330	93	310
	✓	Bicarbonate Alkalinity as CaCO3	71-52-3	mg/l		72	210	300	230	220	220	310	230	120	96	76	260	200	260	150	56	130	140	320	270	76	250
		Carbonate	3812-32-6	mg/l		<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
		Carbonate Alkalinity as CaCO3	3812-32-6	mg/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	✓	Chlorate	7775-09-9	ug/l		330000	100J	1600J	3800	<100	79000	3200	130	170	93000	900000	<40	52000	200J	90000	2300000J	540000	300J	1700	<200	59000	11000
	✓	Chloride	16887-00-6	mg/l		3600	2400	1200	880	3000	2500	1300	530	840	1200	1000	1900	5200	2500	1400	1600	5700	1100	730	570	1300	1100
	✓	Fluoride	16984-48-8	mg/l	4	1.8	11	<2.5	2.2	<5	<5	3.6	<1	<2.5	3.7	3.5	8.2	<25	7.3	3.7	3.4	7.6	2.3	2.6	1.9	<10	2
		Hydroxide	14280-30-9	mg/l		<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
	✓	Hydroxide Alkalinity as CaCO3	11-60-9	mg/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	✓	Iodide	Iodide	ug/l		<1000	910	1700J	<100	7200J	<250	380	130J	<250	<100	<1000	3000J	2100	<1000	88	<1000	<1000	250	840	630	<1000	66J
	✓	Nitrate-N	14797-55-8	mg/l	10	43	<3	5.1	8.5	<1.5	13	6.9	9.4	13	25J	30	<1.5	5.9	<1.5	13J	67	56	5.2J	0.65J	<0.3	12	17
	✓	pH	12408-02-5	pH Units		7.18	7.23	7.2	8.13	8.24	7.11	7	7.04	7.12	7.24	7.37	7.39	7.66	7.39	7.08	7.44J	7.22	7.19	7.28	7.23	7.4	7.99
	✓	Sulfate	14808-79-8	mg/l		2200	1700	1400	1100	1800	2000	1500	1800	2500	2800	2300	1300	2300	1700	1800	2300	2900	2000	710	740	2100	1200
	✓	Sulphur (S)	7704-34-9	mg/L		726J	597	483	393	592	671	594	575	808	935J	782	481	784	583J	635J	786	1030	714	246J	274	818	404
	✓	Total Cyanide	57-12-5	mg/l	0.2	<0.025	<0.025	<0.025	0.023	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
	✓	Total Dissolved Solids	TDS	mg/l		13000	6400	4800	3600	7800	9800	5400	3700	4100	1800	6000	4600	13000	7800	3500	9200	16000	3900	2800	2300	5600	4000
	✓	White Phosphorus	7723-14-0	UG/L		<0.2	<100	<100	R	R	<0.2	<100	<0.2	<0.2	<100	<100	<100	<100	<0.2	<100	<100	<100	<100	<100	<100	<100	R
METALS	✓	Aluminum	7429-90-5	mg/l		<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	0.18J	<0.05	<0.05	<0.05	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05
	✓	Antimony	7440-36-0	ug/l	6	<10	0.61	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2	<8	<2	<10	<10	<10	<10	<2	<10	<10	<10
	✓	Arsenic	7440-38-2	ug/l	10	90	260	89J	87J	130J	150	100J	190	47	9.4	270	110	210	120	50	190	160	49	120	110	98	84J
	✓	Barium	7440-39-3	ug/l	2000	23	37	30	15	31	28	30	12	13	17	14	22	31	31	35	17	45	18	27	25	16	30
	✓	Beryllium	7440-41-7	ug/l	4	<2.5	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2	<0.5	<2.5	<2.5	<2.5	<2.5	<0.5	<2.5	<2.5	<2.5
		Boron	7440-42-8	mg/l		4.7	1.4	1.6	1.1	2.3	3	1.9	1.1	2.8	4	4.9	1.8	2.3	2.5	3.1	14	4.1	2.3	1.1	1	4.6	1.4
	✓	Cadmium	7440-43-9	ug/l	5	0.31	0.25	0.15	<5	0.18	<5	<5	<5	<5	0.69	<5	0.19	<4	0.21	0.43	<5	0.58	<5	0.092	0.14	<5	<5
	✓	Calcium	7440-70-2	mg/l		940	210	220	210	220	400	350	390	440	570	630	97	470	180	590	780	800	450	160	170	610	250
	✓	Chromium	7440-47-3	ug/l	100	280J	<2	<10	<10	<10	53	<10	<10	<10	89J	1100J	<2	<8	<2	20J	4300J	520J	<10	<2	<10	18J	<10
	✓	Chromium VI	18540-29-9	mg/l		0.26	<0.002	<0.002	0.0076	<0.002	0.032	<0.002	<0.002	0.0049	0.053	1	<0.002	<0.002	<0.002	0.02	5.1	0.49	<0.002	<0.002	<0.002	0.012	0.00097
	✓	Cobalt	7440-48-4	ug/l		2.5	0.81	0.6	0.44	2	<5	0.9	7.2	<5	1.5	0.96	1.5	2.7	0.42	5.5	2.9	4.6	3.8	10	11	1.2	0.58
	✓	Copper	7440-50-8	ug/l		6.5	120J	5.5	4.5	6.2	6.1	6.9	11	5.2	7.5	6.6J	3.2J	5.9J	3.5J	6.6	6.9J	7J	5.4	5.2	9.5	4.6J	5.1
	✓	Iron	7439-89-6	mg/l		<0.08	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.08	0.13	<0.04	<0.04	<0.04	<0.08	<0.08	<0.04	<0.04	<0.04	<0.04	<0.04
	✓	Lead	7439-92-1	ug/l		<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<4	<1	<5	<5	<5	<5	0.18	<5	<5	<5
	✓	Magnesium	7439-95-4	mg/l		410	89	110	120	130	160	<0.02	180	260	340	240	49	280	84	240	290	480	240	74	68	270	140
	✓	Manganese	7439-96-5	ug/l		<5	170J	100	<5	1600	6.8	27	<5	<5	<5	<5	740J	720J	5.5J	1200	87	18J	940	860	900	<5	<5
	✓	Mercury	7439-97-6	mg/l	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	✓	Molybdenum	7439-98-7	ug/l		150	96	65	23	80	89	45	40	75	310	48	86	52	78	110	49	260	32	30	29	62	16
	✓	Nickel	7440-02-0	ug/l		2.3J	<2	4.3J	2.9J	5.8J	7.5J	7.4J	18J	6.6J	5.8J	<10	2.5J	<8	<2	12J	5.2J	6J	14J	24J	31J	<10	4.8J
	✓	Phosphorus	7723-14-0	mg/l		0.071	0.13	0.023	0.025	<0.05	0.05	0.042	0.068	<0.05	0.022	0.13	0.088	0.12	0.045	0.15	<0.05	0.018	0.018	0.32	<0.05	0.077	<0.05
	✓	Potassium	7440-09-7	mg/l		25	21	28	32	45	30	30	30	51	90	8.6J	19J	36	32J	26	16	28J	34	27	16	18J	33
	✓	Selenium	7782-49-2	ug/l	50	11J	3.2	3.9	8.7	3.4	14	7.8	7.2	15	41J	8.5	1.6	3.6	9.5	30J	9.8	9.3	12J	1.7J	2.1	8.1	9.4
	✓	Silver	7440-22-4	ug/l		0.13	0.076	<5	<5	<5	<5	<5	0.14	<5	<5	0.16	<1	<4	0.025	<5	0.2	0.34	<5	<1	<5	0.78	<5
	✓	Sodium	7440-23-5	mg/l		1800	1900	1100	800	2300	1900	1000	490	730	1100	1100	1900	3000	2100	840	1700	3400	810	670	610	750	850
	✓	Thallium	7440-28-0	ug/l	2	<5	0.31	<5	<5	<5	<5	<5	1.5	<5	<5	<5	0.3	0.85	0.26	<5	<5	<5	<5	0.41	1.3	<5	<5
	✓	Tin	7440-31-5	mg/l		0.022	0.0033	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.023	0.013	<0.1	0.01	<0.1	0.016	0.0085	<0.1	0.018	<0.1	<0.1	<0.1
	✓	Titanium	7440-32-6	mg/l		<0.01	<0.005	0.0034	0.003	0.0041	0.0051	0.0052	0.0048	0.0048	<0.005	<0.01	0.0092	<0.005	<0.005	<0.005	0.007	0.005	<0.005	<0.005	0.0026	<0.005	0.0041
	✓	Vanadium	7440-62-2	ug/l		23	300J	150	56	15	97	270	73	21	8.4	130J	5.1J	220J	110J	36	200	40J	17	78	58	31J	39
	✓	Zinc	7440-66-6	ug/l		<100	4.1J	<100	<100	17	<100	<100	<100	<100	<100	6.3J	3.9J	5.6J	3.6J	<100	23	8.1J	<100	<20	23J	5.2J	<100
ORGANICS		Total Organic Carbon	TOC	mg/l		<1	2.8	4.6	3	2.7	<1	6.2	8.2J	<1	1.8	<1	<1	3.6	<1	2.7	<1	2.7	2.6	5.2	4.8	1.4	5.9
ORGANIC ACIDS	✓	4-Chlorobenzenesulfonic acid	98-66-8	mg/L		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	✓	Benzenesulfonic acid	98-11-3	mg/L		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	✓	Diethyl phosphorodithioic acid	298-06-6	mg/L		<0.05	0.17	0.068	0.13	0.14	0.15	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	0.41	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.065
	✓	Dimethyl phosphorodithioic acid	756-80-9	mg/L		<10	0.42	<2.5	3.4	<2.5	<2.5	4.4	<2.5	<2.5	<5	<1	<0.25	0.6	<0.25	<5	<5	8.5	<2.5	<0.5	0.56J	<1	<2.5
	✓	Phthalic acid	88-99-3	mg/L		<0.05	0.097	0.15	0.056	<0.05	0.073	0.26	0.18	0.05	<0.05	0.13	0.12	0.065	0.051	<0.05	0.059	0.083	<0.05	0.18	0.17	0.064	<0.05
PCBs	✓	Aroclor 1016	12674-11-2	ug/l	0.5	<0.95	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.96	<0.95	<0.94	<0.98	<0.95	<0.96	<0.95	<0.94
	✓	Aroclor 1221	11104-28-2	ug/l	0.5	<0.95	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.96	<0.95	<0.94	<0.98	<0.95	<0.96	<0.95	<0.94
	✓	Aroclor 1232	11141-16-5	ug/l	0.5	<0.95	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.96	<0.95	<0.94	<0.98	<0.95	<0.96	<0.95	<0.94
	✓	Aroclor 1242	53469-21-9	ug/l	0.5	<0.95	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.96	<0.95	<0.94	<0.98	<0.95	<0.96	<0.95	<0.94
	✓	Aroclor 1248	12672-29-6	ug/l	0.5	<0.95	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.96	<0.95	<0.94	<0.98	<0.95	<0.96	<0.95	<0.94
	✓	Aroclor 1254	11097-69-1	ug/l	0.5	<0.95	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.96	<0.95	<0.94	<0.98	<0.95	<0.96	<0.95	<0.94
	✓	Aroclor 1260	11096-82-5	ug/l	0.5	<0.95	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.96	<0.95	<0.94	<0.98	<0.95	<0.96	<0.95	<0.94
	✓	2,3-DiCB-(5)	16605-91-7	ng/L		<0.0091	<0.1	<0.012	<0.0057	<0.036	<0.02	<0.0091	<0.0093	<0.014	<0.011	<0.18	<0.29	<0.059	<0.17	0.039	<0.05	<0.078	13	1.74	1.14	<0.14	<0.0078

Table 4-2 Summary of Downgradient Sampling Results

Downgradient Study Area Sampling Event

						Well Sample Results																					
GROUP	SRC	LAB ANALYTE	CAS #	UNITS	Federal MCL[1]	ARP-6A	H-56A	MW-AJ	MW-APX-5-16	MW-K1	MW-K5	MW-R	MW-S	MW-V	PC-004	PC-028	PC-031	PC-040	PC-055	PC-056	PC-064	PC-067	PC-077	PC-086	PC-097	PC-124	TWE-15
PCBs	✓	2,3'-DiCB-(6)	25569-80-6	ng/L		<0.0095	<0.098	0.072	<0.0062	0.442	<0.037	0.122	0.338	<0.015	<0.02	<0.16	0.69	<0.057	<0.15	0.226	<0.049	<0.075	36.4	17.6	12.6	<0.12	0.016
	✓	2,4-DiCB-(7)	33284-50-3	ng/L		<0.0094	<0.096	0.018	<0.0055	0.354	<0.02	<0.0095	0.0127	<0.014	<0.012	<0.15	0.49	<0.056	<0.14	0.016	<0.048	<0.074	1.84	0.41	0.213	<0.12	<0.0075
	✓	2,4'-DiCB-(8)	34883-43-7	ng/L		<0.0097	<0.095	0.037	0.0184	0.392	<0.026	0.153	0.549	<0.014	0.065	<0.14	0.46	<0.055	<0.13	0.567	<0.047	<0.073	41.4	18.3	8.81	<0.11	0.0172
	✓	2,5-DiCB-(9)	34883-39-1	ng/L		<0.009	<0.096	0.024	<0.0054	0.267	<0.019	0.0241	0.0459	<0.014	<0.011	<0.16	0.4	<0.056	<0.15	0.073	<0.048	<0.073	29.2	5.37	3.92	<0.12	<0.0074
	✓	2,6-DiCB-(10)	33146-45-1	ng/L		<0.011	<0.067	0.027	<0.0048	0.036	<0.027	<0.013	0.035	<0.012	<0.013	<0.16	<0.25	<0.035	<0.097	<0.0089	<0.076	<0.045	1.47	0.268	0.257	<0.13	<0.0081
		22'33'44'5-HeptaCB-(170)	35065-30-6	ng/L		<0.0026	0.0201	<0.0017	<0.0005	<0.0018	<0.001	<0.00092	<0.0012	<0.0013	0.0198	0.0229	<0.021	0.0261	0.0145	0.0168	0.0196	<0.016	<0.00085	0.0187	<0.00061	<0.018	<0.00066
	✓	22'-DiCB-(4)	13029-08-8	ng/L		<0.0099	0.445	1.23	0.254	2.07	0.471	0.401	2.32	0.046	<0.011	<0.18	3.58	<0.036	0.88	0.29	<0.077	<0.045	104	40.7	43.7	<0.15	0.939
	✓	233'44'55'-HeptaCB-(189)	39635-31-9	ng/L	500	<0.0015	<0.0033	<0.0009	<0.001		<0.0013	<0.00089	0.0026	0.0016	<0.0015	<0.0044	<0.0039	<0.0035	<0.0034	<0.0012	<0.001	<0.0037	0.00175	<0.00085	<0.001	<0.0038	
	✓	233'44'-PentaCB-(105)	32598-14-4	ng/L	500	<0.0026	<0.0089	<0.0025	<0.0013	<0.0028	<0.0087	<0.0033	<0.021	<0.0046	<0.026	0.0143	<0.013	0.0083	<0.0083	<0.021	<0.0079	<0.008	<0.0021	<0.0046	<0.0015	<0.014	<0.0015
	✓	23'44'55'-HexaCB-(167)	52663-72-6	ng/L	500	<0.0028	<0.0025	<0.0014	<0.00054	<0.0013	0.00387	<0.0026	0.0047	0.0032	<0.0018	0.0052	0.0047	<0.0025	<0.0024	<0.0025	0.005	<0.0027	<0.00088	<0.0026	<0.00069	<0.0031	<0.00051
	✓	2344'5-PentaCB-(114)	74472-37-0	ng/L	500	<0.0026	<0.009	<0.0026	<0.0013	<0.0028	<0.0017	<0.0034	<0.006	<0.0015	<0.0045	<0.007	<0.0083	<0.007	<0.0084	<0.0027	<0.0069	<0.0081	<0.0021	<0.0024	<0.0015	<0.014	<0.0015
	✓	23'44'5-PentaCB-(118)	31508-00-6	ng/L	500	<0.0026	0.0291	<0.0025	<0.0013	<0.0028	<0.0016	<0.0033	<0.0059	<0.0015	<0.0045	0.0451	0.0386	0.0311	0.0188	<0.0026	0.0281	0.0231	<0.0021	<0.0024	<0.0015	0.024	<0.0015
	✓	23'44'5'-PentaCB-(123)	65510-44-3	ng/L	500	<0.0027	<0.0091	<0.0026	<0.0013	<0.0028	<0.0017	<0.0034	<0.006	<0.0016	<0.0046	<0.0071	<0.0084	<0.0071	<0.0085	<0.0027	<0.007	<0.0082	<0.0021	<0.0024	<0.0015	<0.015	<0.0015
		2-MonoCB-(1)	2051-60-7	ng/L		<0.0059	7.14	4.7	0.0166	23.5	2.16	0.544	0.534	0.0889	<0.012	0.259	15.1	2.07	0.79	0.115	0.035	0.0195	9.11	11.2	14.5	0.0159	0.0981
	✓	3,3'-DiCB-(11)	2050-67-1	ng/L		0.0343	<0.099	0.055	0.047	<0.036	<0.045	0.0514	0.287	0.038	0.053	<0.16	<0.26	<0.058	<0.15	0.235	<0.049	<0.076	<0.3	0.488	0.403	<0.13	0.0351
	✓	3,5-DiCB-(14)	34883-41-5	ng/L		<0.0096	<0.097	<0.012	<0.0056	<0.036	<0.02	<0.0096	<0.0096	<0.014	<0.012	<0.16	<0.25	<0.057	<0.15	<0.013	<0.048	<0.075	0.313	0.079	0.044	<0.12	<0.0076
	✓	33'44'55'-HexaCB-(169)	32774-16-6	ng/L	500	<0.0025	<0.0025	<0.0014	<0.00055	<0.0014	<0.00073	<0.0027	<0.0031	<0.0029	<0.0018	<0.0023	<0.0039	<0.0025	<0.002	<0.0017	<0.0017	<0.0027	<0.00091	<0.0026	<0.0007	<0.0031	<0.00052
	✓	33'44'5-PentaCB-(126)	57465-28-8	ng/L	500	<0.0025	<0.0085	<0.0024	<0.0012	<0.0027	<0.0016	<0.0032	<0.0057	<0.0015	<0.0043	<0.0066	<0.0079	<0.0066	<0.0079	<0.0025	<0.0065	<0.0076	<0.002	<0.0023	<0.0014	<0.014	<0.0014
	✓	33'44'-TetraCB-(77)	32598-13-3	ng/L	500	<0.0053	<0.0053	<0.0034	<0.0014	<0.0062	<0.0021	<0.0031	<0.0062	<0.0023	0.0018	<0.012	<0.0069	<0.0024	<0.0042	<0.0027	<0.002	<0.0034	0.0023	<0.0041	<0.003	<0.0067	0.0013
	✓	344'5-TetraCB-(81)	70362-50-4	ng/L	500	<0.0056	<0.0055	<0.0036	<0.0011	<0.0065	<0.0022	<0.0032	<0.0064	<0.0024	<0.0018	<0.013	<0.0073	<0.0025	<0.0044	<0.0048	<0.0021	<0.0036	<0.0018	<0.0043	<0.0031	<0.007	<0.0013
		3-MonoCB-(2)	2051-61-8	ng/L			0.139	0.0521	<0.0045	1.16	0.0417	0.0128	0.0381	0.0084	<0.0073	0.0217	1.1	0.0354	0.04	0.0362	0.004	<0.0083	4.28	0.137	0.16	<0.0077	<0.0052
	✓	4,4'-DiCB-(15)	2050-68-2	ng/L		<0.014	<0.17	<0.022	0.0264	<0.052	<0.03	0.025	0.901	<0.021	<0.018	<0.24	<0.39	<0.097	<0.23	0.655	<0.083	<0.13	0.164	0.429	0.232	<0.19	0.018
		4-MonoCB-(3)	2051-62-9	ng/L		<0.005	0.316	0.112	0.0332	<0.76	<0.12	0.0607	<0.11	<0.0069	<0.01	0.0157	0.621	<0.13	0.174	0.162	<0.044	0.0215	4.31	2.38	1.5	<0.0072	0.0362
	✓	DiCB-(12)+(13)	2974-92-7/90-5	ng/L		<0.0093	<0.1	<0.012	0.0102	<0.035	<0.019	0.033	1.16	<0.014	0.038	<0.17	<0.27	<0.058	<0.16	1.68	<0.05	<0.077	0.579	1.77	1.45	<0.13	0.0168
		HexaCB-(156)+(157)		ng/L		<0.0024	0.0074	<0.0013	<0.00053	<0.0013	<0.00069	<0.0025	<0.003	<0.0028	<0.0065	0.0087	0.0095	0.0099	<0.0052	<0.0016	0.0075	<0.006	<0.00086	<0.0025	<0.00067	<0.0073	<0.0005
PESTICIDES	✓	2,4'-DDD	53-19-0	ug/l	70	<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	2,4'-DDE	3424-82-6	ug/l	70	<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	2,4'-DDT	789-02-6	ug/l	70	<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	4,4'-DDD	72-54-8	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	4,4'-DDE	72-55-9	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	4,4'-DDT	50-29-3	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	Aldrin	309-00-2	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	alpha-BHC	319-84-6	ug/l		<0.095	1	0.75	<0.094	0.57	<0.094	0.31	<0.094	<0.094	<0.094	<0.094	0.49	1.5	0.15	0.024	<0.095	0.055J	0.021	0.43	0.3	<0.094	<0.094
		Azinphos methyl	86-50-0	ug/l		<0.95	<0.95	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.94	<0.95	<0.95	<0.94
	✓	beta-BHC	319-85-7	ug/l		<0.095	0.55	2.1	0.047	4.7	0.18	0.67	0.2	<0.094	<0.094	<0.094	7.6	<0.094	3.4	0.085	<0.095	<0.094	1.1	0.35	0.16	<0.094	0.051
		Bolstar	35400-43-2	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
	✓	Carbophenothion	786-19-6	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
	✓	Carbophenothion Methyl	953-17-3	ug/l		<0.47	<0.47	0.15J	<0.47	<0.47	<0.47	<0.47	0.16J	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Chlordane	57-74-9	ug/l		<0.95	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.95	<0.96	<0.95	<0.94	<0.98	<0.95	<0.96	<0.94	<0.94
		Chlorpyrifos	2921-88-2	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Coumaphos	56-72-4	ug/l		<0.95	<0.95	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.94	<0.95	<0.95	<0.94
	✓	delta-BHC	319-86-8	ug/l		<0.19	4.2	2.5	0.083	1.5	1.3	4.3	0.047	<0.19	<0.19	<0.19	1.2	1.3	1.4	0.1	<0.19	<0.19	0.047	0.59	0.53	<0.19	0.23
		Demeton	8065-48-3	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Diazinon	333-41-5	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	0.22	<0.47	<0.48	<0.47
		Dichlorvos	62-73-7	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
	✓	Dieldrin	60-57-1	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
		Dimethoate	60-51-5	ug/l		<0.95	<0.95	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.95	<0.94	0.35J	<0.95	<0.95	<0.95	<0.94	0.24J	<0.95	<0.94
		Disulfoton	298-04-4	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
	✓	Endosulfan I	959-98-8	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
		Endosulfan II	33213-65-9	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	Endosulfan sulfate	1031-07-8	ug/l		<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	<0.19	<0.19	<0.19
	✓	Endrin	72-20-8	ug/l	2	<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	Endrin aldehyde	7421-93-4	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
		Endrin ketone	53494-70-5	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
		EPN	2104-64-5	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Ethion	563-12-2	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Ethoprop	13194-48-4	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	0.16J	<0.47	0.19J	0.17J	<0.47	<0.47	<0.48	<0.48	0.37J	<0.47	0.2J	<0.47
		Famphur	52-85-7	ug/l		<0.95	<0.95	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.94	<0.95	<0.95	<0.94
		Fensulfothion	115-90-2	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Fenthion	55-38-9	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
	✓	gamma-BHC (Lindane)	58-89-9	ug/l	0.2	<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	0.23	<0.095	<0.096	<0.095	0.03J	<0.098	<0.095	<0.096	<0.094	0.044
		Heptachlor	76-44-8	ug/l	0.4	<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
	✓	Heptachlor epoxide	1024-57-3	ug/l	0.2	<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094
		Malathion	121-75-5	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Merphos	150-50-5	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Methoxychlor	72-43-5	ug/l		<0.095	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.094	<0.095	<0.094	<0.095	<0.096	<0.095	<0.094	<0.098	<0.095	<0.096	<0.094	<0.094

Table 4-2 Summary of Downgradient Sampling Results

Downgradient Study Area Sampling Event

						Well Sample Results																					
GROUP	SRC	LAB ANALYTE	CAS #	UNITS	Federal MCL[1]	ARP-6A	H-56A	MW-AJ	MW-APX-5-16	MW-K1	MW-K5	MW-R	MW-S	MW-V	PC-004	PC-028	PC-031	PC-040	PC-055	PC-056	PC-064	PC-067	PC-077	PC-086	PC-097	PC-124	TWE-15
PESTICIDES		Mevinphos	7786-34-7	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Naled	300-76-5	ug/l		<0.95	<0.95	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.94	<0.95	<0.95	<0.94
		O,O,O-Triethylphosphorothioate	126-68-1	ug/l		<0.47	<0.47	<0.47	<0.47	0.59J	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	0.38J	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Parathion, ethyl	56-38-2	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Parathion, methyl	298-00-0	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Phorate	298-02-2	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
	✓	Phosmet	732-11-6	ug/l		<0.95	<0.95	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.94	<0.95	<0.95	<0.94
		Ronnel	299-84-3	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Stirophos	22248-79-9	ug/l		<0.95	<0.95	<0.94	<0.94	<0.94	<0.94	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.95	<0.94	<0.94	<0.95	<0.95	<0.95	<0.94	<0.95	<0.95	<0.94
		Sulfotep	3689-24-5	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Thionazin	297-97-2	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Tokuthion (Prothiofos)	34643-46-4	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
		Toxaphene	8001-35-2	ug/l		<4.8	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.8	<4.7	<4.8	<4.8	<4.8	<4.7	<4.9	<4.8	<4.8	<4.7	<4.7
		Trichloronate	327-98-0	ug/l		<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.48	<0.47	<0.47	<0.48	<0.47
SVOCs	✓	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		1,2,4-Trichlorobenzene	120-82-1	ug/l	70	<9.4	**9.1**	<9.4	<9.4	**14**	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	**15**	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		1,2-Dichlorobenzene	95-50-1	ug/l	600	<9.4	<9.5	<9.4	<9.4	**10**	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	**10**	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	1,2-Diphenylhydrazine/Azobenzene	103-33-3	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		1,3-Dichlorobenzene	541-73-1	ug/l		<9.4	<9.5	<9.4	<9.4	**4**	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		1,4-Dichlorobenzene	106-46-7	ug/l	75	<9.4	<9.5	**4.1**	<9.4	**14**	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	**15**	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		1,4-Dioxane	123-91-1	ug/l		**0.51**	**0.83**	<0.94	<0.94	**0.64**	**0.46**	<0.94	<0.94	<0.94	0.96J	**0.41**	**0.57**	**2**	**0.43**	0.37J	**0.52**	**1.6**	<0.94	<0.94	<0.94	<0.94	<0.94
	✓	2,2'-/4,4'-Dichlorobenzil	21854-95-5/3457-46-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	2,4,5-Trichlorophenol	95-95-4	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	2,4,6-Trichlorophenol	88-06-2	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	2,4-Dichlorophenol	120-83-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	2,4-Dimethylphenol	105-67-9	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		2,4-Dinitrophenol	51-28-5	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		2,4-Dinitrotoluene	121-14-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		2,6-Dinitrotoluene	606-20-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		2-Chloronaphthalene	91-58-7	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	2-Chlorophenol	95-57-8	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		2-Methylnaphthalene	91-57-6	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		2-Methylphenol	95-48-7	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		2-Nitroaniline	88-74-4	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		2-Nitrophenol	88-75-5	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		3,3-Dichlorobenzidine	91-94-1	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		3-Nitroaniline	99-09-2	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	4,4'-Dichlorobenzophenone	90-98-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		4,6-Dinitro-2-methylphenol	534-52-1	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		4-Bromophenyl phenyl ether	101-55-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	4-Chloro-3-methylphenol	59-50-7	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		4-Chloroaniline	106-47-8	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	4-Chlorobenzenethiol	106-54-7	ug/l		<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
	✓	4-Chlorophenyl methyl sulfide	123-09-1	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	4-Chlorophenyl methyl sulfone	98-57-7	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		4-Chlorophenyl phenyl ether	7005-72-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	4-Chlorophenyl sulfone	80-07-9	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		4-Methylphenol	106-44-5	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		4-Nitroaniline	100-01-6	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	4-Nitrophenol	100-02-7	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		Acenaphthene	83-32-9	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Acenaphthylene	208-96-8	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Aniline	62-53-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Anthracene	120-12-7	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Benzidine	92-87-5	ug/l		<19	<19									<19	<19	<19	<19		<19	<19				<19	
	✓	Benzo(a)anthracene	56-55-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Benzo(a)pyrene	50-32-8	mg/l	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
	✓	Benzo(b)fluoranthene	205-99-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Benzo(g,h,i)perylene	191-24-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Benzo(k)fluoranthene	207-08-9	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Benzoic acid	65-85-0	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		Benzophenone	00119-61-9	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Benzyl alcohol	100-51-6	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		Bis(2-chloroethoxy)methane	111-91-1	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Bis(2-chloroethyl)ether	111-44-4	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Bis(2-chloroisopropyl)ether	108-60-1	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4

Table 4-2 Summary of Downgradient Sampling Results

Downgradient Study Area Sampling Event

GROUP	SRC	LAB ANALYTE	CAS #	UNITS	Federal MCL[1]	Well Sample Results																					
						ARP-6A	H-56A	MW-AJ	MW-APX-5-16	MW-K1	MW-K5	MW-R	MW-S	MW-V	PC-004	PC-028	PC-031	PC-040	PC-055	PC-056	PC-064	PC-067	PC-077	PC-086	PC-097	PC-124	TWE-15
SVOCs	✓	Bis(2-ethylhexyl)phthalate	117-81-7	ug/l	6	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<47	<48	<47	<47	<48	<47	<47	<47	<47	<47
	✓	bis(4-chlorophenyl)disulfide	1142-19-4	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Butyl benzyl phthalate	85-68-7	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	Chrysene	218-01-9	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Dibenz(a,h)anthracene	53-70-3	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		Dibenzofuran	132-64-9	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Dichloroacetaldehyde	79-02-7	ug/l		<350	<350	<350	<350	<350	<350	<350	<350	<350	<350	<350	<350	<350	<350	<350	R	R	<350	<350	<350	<350	<350
	✓	Diethyl phthalate	84-66-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Dimethyl phthalate	131-11-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Di-n-butyl phthalate	84-74-2	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	Di-n-octyl phthalate	117-84-0	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	Diphenyl sulfone	127-63-9	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Fluoranthene	206-44-0	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Fluorene	86-73-7	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Hexachlorobenzene	118-74-1	mg/l	0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			**0.000018**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	✓	Hexachlorobutadiene	87-68-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		Hexachlorocyclopentadiene	77-47-4	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	Hexachloroethane	67-72-1	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Indeno(1,2,3-cd)pyrene	193-39-5	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		Isophorone	78-59-1	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Naphthalene	91-20-3	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	n-Hydroxymethylphthalimide	118-29-6	ug/l		<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
		Nitrobenzene	98-95-3	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		N-Nitrosodimethylamine	62-75-9	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		N-Nitroso-di-n-propylamine	621-64-7	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
		N-Nitrosodiphenylamine	86-30-6	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Octachlorostyrene	29082-74-4	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
	✓	Pentachlorobenzene	608-93-5	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Pentachlorophenol	87-86-5	ug/l	1	0.1J	0.056J	**0.014**	<4	<4	<4	**0.02**	<4	<4	R			<0.2	0.065J	0.05J	0.077J	**0.016**	**0.019**	0.045J	0.049J	<0.2	<4
	✓	Phenanthrene	85-01-8	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Phenol	108-95-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Phenyl disulfide	882-33-7	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Phenyl sulfide	139-66-2	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Pyrene	129-00-0	ug/l		<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4	<9.5	<9.4	<9.4	<9.5	<9.4	<9.4	<9.4	<9.4	<9.4
	✓	Pyridine	110-86-1	ug/l		<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19
		Tetracosane	646-31-1	ug/l					**75**																		
	✓	Thiophenol	108-98-5	ug/l		<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
	✓	Trichloroacetaldehyde	75-87-6	ug/l		<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
TICs		2-methyl-6-propyldodecane		ug/l							**64**																**54**
	✓	7-Hexyl tridecane	TIC	ug/l		**140**																					**87**
		7-Hexyl tridecane isomer		ug/l		**190**																					
		7-Hexyl tridecane isomer 1		ug/l																							**110**
	✓	9-Octyl heptadecane	TIC	ug/l																							
		Docosane	629-97-0	ug/l																							
		docosane isomer		ug/l																							
		Dotriacontane	544-85-4	ug/l																							**61**
		Heptacosane	593-49-7	ug/l		**93**																	**60**	**52**			
		Hexacosane	630-01-3	ug/l		**60**																					
		Hexatriacontane	630-06-8	ug/l		**130**															**49**						
		Hexatriacontane isomer		ug/l		**77**																					
		Nonadecane	629-92-5	ug/l																							
		Octacosane	630-02-4	ug/l																			**48**				
		Pentacosane	629-99-2	ug/l																							
		Triacontane	638-68-6	ug/l		**160**																	**49**				
TPH		EFH (C8 - C40)	C8-C40	mg/l		<0.47	<0.47	**0.066**	<0.47	<0.47	<0.47	**0.081**	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47
	✓	Ethanol	64-17-5	mg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	R	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	✓	Methanol	67-56-1	mg/l		<0.5	<0.5	<0.5	<0.5	**0.81**	<0.5	R	**0.88**	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.87**
	✓	Volatile Fuel Hydrocarbons (C6-C12)	8006-61-9 (C6-C12)	ug/l		**97**	**62**	**29**	<50	**170**	**38**	<50	**25**	<50	<50	**53**	**89**	**63**	**35**	<50	**89**	**170**	<50	<50	<50	**32**	<50
VOCs	✓	1,1,1,2-Tetrachloroethane	630-20-6	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
		1,1,1-Trichloroethane	71-55-6	ug/l	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	1,1,2,2-Tetrachloroethane	79-34-5	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	1,1,2-Trichloroethane	79-00-5	ug/l	5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	1,1-Dichloroethane	75-34-3	ug/l		**0.3**	**0.51**	**3.7**	**1.6**	**4.6**	**5.2**	**1.2**	<2	<2	<2	<2	3.7J	**23**	**4.9**	**0.42**	<2	<8	<2	**2.7**	**1.1**	<2	**1.2**
	✓	1,1-Dichloroethene	75-35-4	ug/l	7	**2**	<5	<5	<5	<5	**0.42**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	**0.6**	<5
	✓	1,1-Dichloropropene	563-58-6	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	1,2,3-Trichlorobenzene	87-61-6	ug/l		<5	**5.6**	**0.82**	<5	<5	**0.73**	<5	<5	<5	<5	<5	1.1J	**1.4**	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	1,2,3-Trichloropropane	96-18-4	ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<10	<10

Table 4-2 Summary of Downgradient Sampling Results

Downgradient Study Area Sampling Event

GROUP	SRC	LAB ANALYTE	CAS #	UNITS	Federal MCL[1]	Well Sample Results																					
						ARP-6A	H-56A	MW-AJ	MW-APX-5-16	MW-K1	MW-K5	MW-R	MW-S	MW-V	PC-004	PC-028	PC-031	PC-040	PC-055	PC-056	PC-064	PC-067	PC-077	PC-086	PC-097	PC-124	TWE-15
VOCs	✓	1,2,4-Trichlorobenzene	120-82-1	ug/l	70	<5	**16**	**2.4**	<5	**22**	<5	<5	<5	<5	<5	<5	26J	**5.5**	<5	<5	<5	<20	**0.64**	**2.8**	**3**	<5	<5
	✓	1,2,4-Trimethylbenzene	95-63-6	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	1,2-Dibromo-3-chloropropane	96-12-8	ug/l	0.2	<0.02	<0.02	<0.01	**0.0034**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02			<0.02	**0.0037**	<0.02	**0.018**	**0.018**	<0.02	**0.0054**	**0.0051**	**0.0054**	<0.01
	✓	1,2-Dichlorobenzene	95-50-1	ug/l	600	<2	**0.97**	**7.5**	<2	**18**	<2	<2	<2	<2	<2	<2	18J	**5.7**	<2	<2	**1.8**	1.7J	<2	<2	<2	<2	<2
	✓	1,2-Dichloroethane	107-06-2	ug/l	5	<2	**0.28**	**1.1**	<2	**1**	**0.39**	**0.32**	<2	<2	<2	<2	1.2J	**1.6**	**1**	<2	<2	<8	<2	**0.41**	<2	<2	<2
		1,2-Dichloropropane	78-87-5	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	1,3,5-Trichlorobenzene	108-70-3	ug/l		<2	<2	<2	<2	**0.18**	<2	<2	**0.37**	<2	<2	<2	0.19J	<2	<2	<2	<2	<8	**0.34**	**0.32**	**0.48**	<2	<2
	✓	1,3,5-Trimethylbenzene	108-67-8	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	1,3-Dichlorobenzene	541-73-1	ug/l		<2	**1.2**	**0.83**	<2	**6.8**	**0.87**	<2	<2	<2	<2	<2	3.3J	**3.1**	**1**	<2	**1.2**	<8	<2	<2	**1.1**	<2	<2
	✓	1,3-Dichloropropane	142-28-9	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	1,4-Dichlorobenzene	106-46-7	ug/l	75	<2	**1.7**	**8.9**	<2	**27**	<2	<2	<2	<2	<2	<2	26J	**3.1**	**0.37**	<2	**0.97**	2.1J	<2	**1.9**	**2.7**	<2	<2
	✓	2,2,3-Trimethylbutane	464-06-2	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
		2,2-Dichloropropane	594-20-7	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	2,2-Dimethylpentane	590-35-2	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	2,3-Dimethylpentane	565-59-3	ug/l		<2	<2	<2	<2	**0.58**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	2,4-Dimethylpentane	108-08-7	ug/l		<2	<2	<2	<2	**0.83**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	2-Butanone (MEK)	78-93-3	ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<10	<10
	✓	2-Chlorotoluene	95-49-8	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	2-Hexanone	591-78-6	ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<10	<10
	✓	2-Methylhexane	591-76-4	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	3,3-Dimethylpentane	562-49-2	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	3-Ethylpentane	617-78-7	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	3-Methylhexane	589-34-4	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	4-Chlorotoluene	106-43-4	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	4-Methyl-2-pentanone (MIBK)	108-10-1	ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<10	<10	<10	<10	<20	<10	<10	<10	<10	<10
	✓	Acetone	67-64-1	ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<40	<10	<10	<10	<10	<10
	✓	Benzene	71-43-2	ug/l	5	<2	<2	<2	<2	**0.5**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	Bromobenzene	108-86-1	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Bromochloromethane	74-97-5	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
		Bromodichloromethane	75-27-4	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**1.4**	1.8J	<2	<2	<2	<2	<2
	✓	Bromoform	75-25-2	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**6.6**	<20	<5	<5	<5	<5	<5
		Bromomethane	74-83-9	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Carbon Disulfide	75-15-0	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Carbon tetrachloride	56-23-5	ug/l	5	**5.4**	<5	<5	<5	<5	**0.67**	<5	<5	<5	1.1J	**11**	<5	<5	<5	<5	**7.3**	12J	<5	<5	<5	<5	<5
	✓	Chlorobenzene	108-90-7	ug/l	100	<2	**0.43**	<2	<2	**89**	<2	<2	<2	<2	<2	<2	1.8J	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	Chloroethane	75-00-3	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Chloroform	67-66-3	ug/l	80	**900**	**1.1**	**1.3**	**4.3**	<2	**94**	**0.89**	**0.61**	**2.2**	140J	**410**	0.84J	**3.8**	<2	**0.87**	**450**	**1400**	**0.35**	<2	<2	**88**	**1.6**
	✓	Chloromethane	74-87-3	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	cis-1,2-Dichloroethene	156-59-2	ug/l	70	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
		cis-1,3-Dichloropropene	10061-01-5	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	Dibromochloromethane	124-48-1	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**2.8**	<8	<2	<2	<2	<2	<2
		Dibromomethane	74-95-3	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	Dichlorodifluoromethane	75-71-8	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Dimethyl disulfide	624-92-0	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	Ethylbenzene	100-41-4	ug/l	700	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	Hexachlorobutadiene	87-68-3	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Isopropylbenzene	98-82-8	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	m,p-Xylenes	GIS-130-312	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	Methylene chloride	75-09-2	ug/l	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**0.94**	<5	7.9J	<5	<5	<5	<5	<5
	✓	Naphthalene	91-20-3	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	n-Butylbenzene	104-51-8	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	n-Heptane	142-82-5	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Nonanal	124-19-6	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	n-Propylbenzene	103-65-1	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	o-Xylene	95-47-6	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	p-Isopropyltoluene	99-87-6	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**0.31**	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	sec-Butylbenzene	135-98-8	ug/l		<5	<5	<5	<5	**0.41**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Styrene	100-42-5	ug/l	100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	tert-Butylbenzene	98-06-6	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Tetrachloroethene	127-18-4	ug/l	5	**1.9**	<2	**0.43**	**0.32**	<2	**0.63**	**0.32**	<2	<2	2.2J	**0.5**	<2	**6.7**	<2	**0.54**	**1.4**	18J	**0.93**	<2	**0.46**	**0.58**	**0.32**
	✓	Toluene	108-88-3	ug/l	1000	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	trans-1,2-Dichloroethene	156-60-5	ug/l	100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	trans-1,3-Dichloropropene	10061-02-6	ug/l		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
	✓	Trichloroethene	79-01-6	ug/l	5	**0.63**	<2	**0.33**	<2	**3.5**	**2.5**	<2	<2	<2	<2	**0.32**	1.7J	**4.7**	**2.9**	**0.36**	**1.4**	<8	<2	**0.26**	**0.33**	**0.87**	<2
	✓	Trichlorofluoromethane	75-69-4	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<20	<5	<5	<5	<5	<5
	✓	Vinyl chloride	75-01-4	ug/l	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<8	<2	<2	<2	<2	<2
DIOXINS/FURANS	✓	1,2,3,4,6,7,8-Hepta CDD	35822-46-9	pg/L		<0.51	<0.72	<0.59	<0.64	<0.81	<0.5	<0.53	<0.53	<0.8	<0.5	<0.54	<0.5	<0.6	<0.49	<0.53	<1.1	<0.52	<0.52	<0.52	<0.52	<0.52	<0.76

Table 4-2 Summary of Downgradient Sampling Results

Downgradient Study Area Sampling Event

GROUP	SRC	LAB ANALYTE	CAS #	UNITS	Federal MCL[1]	Well Sample Results																					
						ARP-6A	H-56A	MW-AJ	MW-APX-5-16	MW-K1	MW-K5	MW-R	MW-S	MW-V	PC-004	PC-028	PC-031	PC-040	PC-055	PC-056	PC-064	PC-067	PC-077	PC-086	PC-097	PC-124	TWE-15
DIOXINS/FURANS	✓	1,2,3,4,6,7,8-Hepta CDF	67562-39-4	pg/L		<0.44	<1.2	<0.44	<0.58	<0.6	<0.46	<0.66	<0.61	<0.44	<0.45	<0.78	<0.67	<0.92	<0.45	<0.43	<1.5	<0.49	<0.71	<0.77	<0.43	<0.62	<0.62
	✓	1,2,3,4,7,8,9-Hepta CDF	55673-89-7	pg/L		<0.59	**0.68**	<0.59	<0.77	<0.63	<0.61	<0.63	<0.59	<0.59	<0.6	<0.61	<0.63	<0.72	<0.6	<0.57	1.48J	<0.66	<0.6	<0.59	<0.58	<0.58	<0.83
	✓	1,2,3,4,7,8-Hexa CDD	39227-28-6	pg/L		<0.52	<0.55	<0.54	<0.63	<0.89	<0.54	<0.53	<0.54	<0.55	<0.5	<0.54	<0.52	<0.5	<0.51	<0.56	<0.66	<0.52	<0.54	<0.51	<0.5	<0.56	<0.7
	✓	1,2,3,4,7,8-Hexa CDF	70648-26-9	pg/L		<0.46	**0.63**	<0.46	<0.63	<0.7	<0.44	<0.48	<0.45	<0.44	<0.45	<0.5	<0.45	<0.65	<0.47	<0.45	<1	<0.52	<0.46	<0.45	<0.47	<0.47	<0.64
	✓	1,2,3,6,7,8-Hexa CDD	57653-85-7	pg/L		<0.53	<0.56	<0.55	<0.64	<0.91	<0.55	<0.54	<0.55	<0.56	<0.51	<0.55	<0.52	<0.5	<0.52	<0.57	<0.67	<0.53	<0.55	<0.51	<0.51	<0.57	<0.71
	✓	1,2,3,6,7,8-Hexa CDF	57117-44-9	pg/L		<0.47	<0.5	<0.47	<0.64	<0.71	<0.45	<0.49	<0.46	<0.45	<0.46	<0.51	<0.46	<0.67	<0.48	<0.46	<1.1	<0.53	<0.47	<0.45	<0.48	<0.48	<0.65
	✓	1,2,3,7,8,9-Hexa CDD	19408-74-3	pg/L		<0.48	<0.52	<0.51	<0.59	<0.84	<0.51	<0.5	<0.51	<0.52	<0.47	<0.51	<0.48	<0.47	<0.48	<0.53	<0.62	<0.49	<0.51	<0.48	<0.47	<0.52	<0.66
	✓	1,2,3,7,8,9-Hexa CDF	72918-21-9	pg/L		<0.6	<0.65	<0.61	<0.82	<0.92	<0.58	<0.63	<0.59	<0.57	<0.59	<0.66	<0.59	<0.86	<0.61	<0.59	<1.4	<0.67	<0.6	<0.58	<0.61	<0.62	<0.83
	✓	1,2,3,7,8-Penta CDD	40321-76-4	pg/L		<0.55	<0.8	<0.53	<0.9	<0.94	<0.55	<0.5	<0.52	<0.51	<0.54	<0.69	<0.93	<0.99	<0.5	<0.55	<1.7	<0.55	<0.6	<0.52	<0.55	<0.73	<0.87
	✓	1,2,3,7,8-Penta CDF	57117-41-6	pg/L		<0.52	<0.49	<0.54	<0.81	<1	<0.52	<0.56	<0.53	<0.52	<0.54	<0.52	<0.48	<0.51	<0.53	<0.52	<0.53	<0.52	<0.65	<0.53	<0.52	<0.5	<1.1
	✓	2,3,4,6,7,8-Hexa CDF	60851-34-5	pg/L		<0.54	<0.58	<0.54	<0.74	<0.82	<0.52	<0.56	<0.53	<0.51	<0.53	<0.59	<0.53	<0.77	<0.55	<0.53	<1.2	<0.61	<0.54	<0.52	<0.55	<0.55	<0.75
	✓	2,3,4,7,8-Penta CDF	57117-31-4	pg/L		<0.52	**1**	<0.59	<0.81	<1	<0.52	**0.6**	<0.53	<0.58	<0.54	<0.56	<0.64	**1.02**	**0.55**	<0.52	<1.2	**0.89**	<0.65	<0.53	**0.67**	<0.61	<1.1
	✓	2,3,7,8-Tetra CDD	1746-01-6	pg/L	30	<0.52	<0.49	<0.53	<0.92	<1.2	<0.54	<0.58	<0.44	<0.52	<0.5	<0.49	<0.55	<0.54	<0.52	<0.53	<0.53	<0.55	<1.1	<0.52	<0.67	<0.63	<0.64
	✓	2,3,7,8-Tetra CDF	51207-31-9	pg/L		<0.49	**2.34**	<0.53	<0.8	**3.8**	**3.74**	<0.52	<0.54	<0.5	<0.55	<0.55	<3.3	**0.83**	<0.53	<0.54	<0.95	**1.39**	<1.6	<0.56	<0.62	<0.55	<0.75
	✓	Octa CDD	3268-87-9	pg/L		<1.1	<1.6	<1.8	<0.99	<1	<1	<1.1	<1	<1.8	<0.99	<1.1	<0.99	<1.1	<1.1	<1.1	<1.1	<1.4	<1.1	<0.98	<1	<1	<1
	✓	Octa CDF	39001-02-0	pg/L		<1.1	<0.97	<1.1	<1	<0.99	<1.2	<1.6	<0.98	<1	<1.1	<1.1	<1	<0.98	<1.1	<1.1	<1.2	<1.1	<1.1	<1.1	<1.1	<1	<1
		Total Hepta CDD	37871-00-4	pg/L		<0.51	<0.72	<0.59	<0.64	<0.81	<0.5	<0.53	<0.53	<0.8	<0.5	<0.54	<0.5	<0.6	<0.49	<0.53	<1.1	<0.52	**1.01**	<0.52	<0.52	<0.52	<0.76
		Total Hepta CDF	38998-75-3	pg/L		<0.51	**1.23**	<0.51	<0.66	<0.6	<0.52	<0.76	<0.5	<0.51	<0.51	<0.89	<0.77	<1	<0.51	<0.49	1.48J	<0.56	<0.81	<0.51	<0.5	<0.71	<0.71
		Total Hexa CDD	34465-46-8	pg/L		<0.76	<1.3	<1.8	<1.3	<1.4	<1.1	<1.5	<1	<0.98	<0.72	<0.85	<0.96	<1.1	<0.72	<0.96	<1.4	<1.5	<1.2	<1.3	<1.4	<1.3	<1.1
		Total Hexa CDF	55684-94-1	pg/L		<0.51	**0.63**	<0.52	<0.7	<0.78	<0.49	<0.53	<0.5	<0.49	<0.5	<0.56	<0.5	<0.73	<0.52	<0.5	<1.1	<0.57	<0.51	<0.5	<0.52	<0.52	<0.71
		Total Penta CDD	36088-22-9	pg/L		<0.55	<0.8	<0.53	<0.9	<0.94	<0.55	<0.5	<0.52	<0.51	<0.54	<0.69	<0.93	<0.99	<0.5	<0.55	<1.7	<0.55	**1.92**	<0.52	<0.55	<0.73	<0.87
		Total Penta CDF	30402-15-4	pg/L		<0.52	**1**	**0.64**	<0.81	<1	<0.52	**0.6**	<0.53	<0.58	<0.54	**0.83**	**0.84**	**1.02**	**0.55**	<0.66	**0.9**	**6.46**	**0.94**	<0.81	**0.67**	**1.18**	<1.1
		Total Tetra CDD	41903-57-5	pg/L		<0.52	<0.49	<0.53	<0.92	<1.2	**1.05**	<0.58	<0.44	<0.52	<0.5	<0.49	**2.22**	<0.54	<0.52	<0.53	<0.53	<0.55	**23**	**1.94**	**4.98**	<0.63	<0.64
		Total Tetra CDF	55722-27-5	pg/L		**0.91**	**9.34**	<0.55	**0.99**	**9.6**	**22.5**	**0.75**	<0.54	<0.5	<0.55	**1.36**	**3.41**	**0.83**	**2.03**	**0.81**	**5.29**	**11.6**	**4.5**	**1.55**	**1.03**	<0.55	**1.19**
		Calculated TEQs		pg/L		**0.128**	**0.604**	0	**0.01**	**0.381**	**0.554**	**0.196**	**0.202**	**0.0005**	**0.007**	**0.0109**	**0.014**	**0.39**	**0.18**	**0.007**	**0.016**	**0.412**	**0.011**	**0.0243**	**0.201**	**0.0157**	**0.012**

Notes

[1] Federal Maximum Contaminant Levels (MCLs) from U.S. EPA Edition of the Drinking Water Standards and Health Advisories, August 2006

R - Rejected value per data validation review

Table 4-3 Field QA Sample Result Summary
Downgradient Study Area Sampling Event

Group	Sample Name	Date	Analyte	Result	Units	Analyste Note	Description
VOC	EB0720	20-Jul-06	Nonanal	4.8	ug/L	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
VOC	EB0721	21-Jul-06	Nonanal	1.5	ug/L	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
VOC	EB0726	26-Jul-06	Acetone	6.4	ug/L	Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
SVOC	EB0727	27-Jul-06	Nonacosane	54	ug/L	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
TIC	EB0727	27-Jul-06	Hexatriacontane	48	ug/L	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
VOC	EB0731	31-Jul-06	Toluene	0.54	ug/L	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
SVOC	EB0801	01-Aug-06	Octadecane	55	ug/L	A-01, Ja	Possible lab artifact due to similar compounds found in Method Blank. Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware th
SVOC	EB0801	01-Aug-06	7-Hexyl tridecane iosmer 1	110	ug/L	A-01, Ja	Possible lab artifact due to similar compounds found in Method Blank. Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware th
TIC	EB0801	01-Aug-06	9-Octyl heptadecane	220	ug/L	A-01, Ja	Possible lab artifact due to similar compounds found in Method Blank. Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware th
TIC	EB0801	01-Aug-06	7-Hexyl tridecane	190	ug/L	A-01, Ja	Possible lab artifact due to similar compounds found in Method Blank. Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware th
TPH	EB0801	01-Aug-06	Volatile Fuel Hydrocarbons (C6-C12)	25	ug/L	Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
VOC	EB0801	01-Aug-06	Toluene	0.46	ug/L	Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
SVOC	EB0802	02-Aug-06	Tetratriacontane	210	ug/L	A-01, J	Possible lab artifact due to similar compounds found in Method Blank. Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
SVOC	EB0802	02-Aug-06	Tricosane	60	ug/L	A-01, J	Possible lab artifact due to similar compounds found in Method Blank. Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
TIC	EB0802	02-Aug-06	Nonadecane	120	ug/L	A-01, J	Possible lab artifact due to similar compounds found in Method Blank. Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
TIC	EB0802	02-Aug-06	7-Hexyl tridecane	230	ug/L	A-01, J	Possible lab artifact due to similar compounds found in Method Blank. Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
VOC	FB0721	21-Jul-06	Nonanal	1.5	ug/L	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
VOC	FB0726	26-Jul-06	Acetone	7.2	ug/L	Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
VOC	FB0727	27-Jul-06	Acetone	7.1	ug/L	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
VOC	FB0731	31-Jul-06	Toluene	0.59	ug/L	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Table 4-3 Field QA Sample Result Summary
Downgradient Study Area Sampling Event

Group	Sample Name	Date	Analyte	Result	Units	Analyste Note	Description
VOC	FB0801	01-Aug-06	Toluene	0.48	ug/L	Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
VOC	TB0801	01-Aug-06	Methylene chloride	0.81	ug/L	Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.

Table 4-4 Data Validation Completeness Summary
Downgradient Study Area Sampling Event

Parameter/Method	Total Analytes	No. of Rejects	% Completeness
VOC	4350	0	100
SVOC (8270C)	2224	0	100
1,4-Dioxane	27	0	100
Acetaldehydes	54	2	96.3
SVOC (525.2)	48	0	100
Chlorinated Pesticides	621	0	100
PCBs	182	0	100
PCBs as Congeners	1463	0	100
Pentachlorophenol	24	1	95.8
VFH	26	0	100
EFH	28	0	100
DBCP	25	0	100
Organophosphorus Pesticides	800	0	100
PCDD/PCDFs	600	0	100
Alcohols	50	2	96
Aldehydes	72	0	100
White Phosphorus	24	3	87.5
Organic Acids	120	0	100
Metals	672	0	100
Wet Chemistry Parameters	505	0	100
Total	**11915**	**8**	**99.9**

Table 4-5 Rejected Data Summary
Downgradient Study Area Sampling Event

Sample Name	Method Name	Parameter Group	Analyte	SRC	Validation Qualifier[1]	Reason Code[2]
PC-064	EPA 8270C MOD	SVOC	Dichloroacetaldehyde	Y	R	10
PC-067	EPA 8270C MOD	SVOC	Dichloroacetaldehyde	Y	R	10
PC-004	EPA 515.4	SVOC	Pentachlorophenol	Y	R	13
MW-R	EPA 8015B	TPH	Ethanol	Y	R	1
MW-R	EPA 8015B	TPH	Methanol	Y	R	1
MW-K1	7580	INORG	White Phosphorus	Y	R	1
TWE-15	7580	INORG	White Phosphorus	Y	R	1
MW-APX-5-16	7580	INORG	White Phosphorus	Y	R	1

Notes:
1) Validation Qualifier
R - Rejected
2) Reason Code Descriptions
1: Holding times
10: Laboratory Control Sample
13: Surrogates

Table 4-6 Federal Primary MCL Exceedances
Downgradient Study Area Sampling Event

Group	Analyte	Units	Action Level	# Wells Exceeding**	% of Total Wells Sampled
INORGANICS	Nitrate-N	mg/l	10	8	36%
	Fluoride	mg/l	4	4	18%
METALS	Arsenic	ug/l	10	16	73%
PESTICIDES	gamma-BHC (Lindane)	ug/l	0.2	1	5%
VOCs	Carbon tetrachloride	ug/l	5	4	18%
	Chloroform	ug/l	80*	6	27%
	Tetrachloroethene	ug/l	5	1	5%

* MCL for Total Trihalomethanes (TTHM) of which Chloroform is a component.
** Analytical results qualified as J-values that exceed MCLs are not included in count