Frontier Pendleton

TABLE A-4: MISCELLANEOUS SURFACE WATERS AND SEDIMENTS

Analytical Results

WATER BODY		Bull Ck.	Bull Ck.	Bull Ck.	Bull Ck.	TL. Ditch	RR Ditch	NE Pond	NE Pond
SAMPLE-ID		SS-1	SS-2	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
COLLECTION DATE		6/27/90	6/27/90	12/27/90	12/27/90	12/20/90	12/20/90	12/18/90	12/18/90
PARAMETER	TYPE								
Chloromethane	VOC								
Bromomethane	VOC								
Vinyl Chloride	VOC								
Chloroethane	VOC								
Methylene Chloride	VOC			R	R	R		R	R
Acetone	VOC	R	R	R	R	R	R	R	R
Carbon Disulfide	VOC								
1,1-Dichloroethene	VOC								
1,1-Dichloroethane	VOC								
1,2-Dichloroethene (Total)	VOC								
Chloroform	VOC								
1,2-Dichloroethane	VOC								
2-Butanone	VOC	21		R	R				13 J
1,1,1-Trichloroethane	VOC								
Carbon Tetrachloride	VOC								
Vinyl Acetate	VOC								
Bromodichloromethane	VOC								
1,2-Dichloropropane	VOC								
cis-1,3-Dichloropropene	VOC								
Trichloroethene	VOC								
Dibromochloromethane	VOC								
1,1,2-Trichloroethane	VOC								
Benzene	VOC				1 J				
trans-1,3-Dichloropropene	VOC								
Bromoform	VOC								
4-Methyl-2-Pentanone	VOC								
2-Hexanone	VOC								
Tetrachloroethene	VOC								
1,1,2,2-Tetrachloroethane	VOC								
Toluene	VOC								
Chlorobenzene	VOC								
Ethylbenzene	VOC								
Styrene	VOC								
Total Xylenes	VOC								

All results reported in μg/L (ppb).

Only detected results are reported.

R - Analyte rejected due to blank contamination.

J - Indicates the result is less than the sample quantitation limit but greater than zero.

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SAMPLE-ID		SS-1	SS-2	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
COLLECTION DATE		6/27/90	6/27/90	12/27/90	12/27/90	12/20/90	12/20/90	12/18/90	12/18/90
PARAMETER	TYPE								
Phenol	SEMI								
bis(2-Chloroethyl)ether	SEMI								
2-Chlorophenol	SEMI								
1,3-Dichlorobenzene	SEMI								
1,4-Dichlorobenzene	SEMI								
Benzyl Alcohol	SEMI								
1,2-Dichlorobenzene	SEMI								
2-Methylphenol	SEMI								
Bis(2-chloroisopropyl)ether	SEMI								
4-Methylphenol	SEMI								
n-Nitroso-di-n-propylamine	SEMI								
Hexachloroethane	SEMI								
Nitrobenzene	SEMI								
Isophorone	SEMI								
2-Nitrophenol	SEMI								
2,4-Dimethylphenol	SEMI								
Benzoic Acid	SEMI	R	R	300 J	260 J	790 J	300 J		150 J
Bis(2-chloroethoxy)methane	SEMI								
2,4-Dichlorophenol	SEMI								
1,2,4-Trichlorobenzene	SEMI								
Naphthalene	SEMI						42 J		
4-Chloroaniline	SEMI								
Hexachlorobutadiene	SEMI								
4-Chloro-3-methylphenol	SEMI								
2-Methylnaphthalene	SEMI				65 J				
Hexachlorocyclopentadiene	SEMI								
2,4,6-Trichlorophenol	SEMI								
2,4,5-Trichlorophenol	SEMI								
2-Chloronaphthalene	SEMI								
2-Nitroaniline	SEMI								
Dimethylphthalate	SEMI								
Acenaphthylene	SEMI						75 J		
2,6-Dinitrotoluene	SEMI								
3-Nitroaniline	SEMI								
Acenaphthene	SEMI								
2,4-Dinitrophenol	SEMI								

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Analytical Results

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SAMPLE-ID		SS-1	SS-2	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
COLLECTION DATE		6/27/90	6/27/90	12/27/90	12/27/90	12/20/90	12/20/90	12/18/90	12/18/90
PARAMETER	TYPE								
4-Nitrophenol	SEMI					540 J			
Dibenzofuran	SEMI								
2,4-Dinitrotoluene	SEMI								
Diethylphthalate	SEMI	R	R	37 J					
4-Chlorophenyl-phenyl Ether	SEMI								
Fluorene	SEMI								
4-Nitroaniline	SEMI								
4,6-Dinitro-2-methylphenol	SEMI								
n-Nitrosodiphenylamine	SEMI								
4-Bromophenyl-phenyl Ether	SEMI								
Hexachlorobenzene	SEMI								
Pentachlorophenol	SEMI					780 J			
Phenanthrene	SEMI	70 J	170 J		87 J	89 J	320 J		
Anthracene	SEMI		27 J				45 J		
Di-n-butylphthalate	SEMI	R	R	R	R	R	R	R	R
Fluoranthene	SEMI	610 J	170 J	27 J	140 J	160 J	880 J		
Pyrene	SEMI	630 J	210 J	23 J	92 J	290 J	960 J		
Butylbenzylphthalate	SEMI								
3,3'-Dichlorobenzidine	SEMI								
Benzo(a)anthracene	SEMI	300 J	83 J				510 J		
Chrysene	SEMI	360 J	93 J		63 J	100 J	600 J		
bis(2-Ethylhexyl)phthalate	SEMI	R	R	R	R	R	R	R	R
Di-n-octylphthalate	SEMI	110 J		26 J					
Benzo(b)fluoranthene	SEMI	440 J	58 J	32 J	76 J	170 J	1100 J		
Benzo(k)fluoranthene	SEMI	360 J	61 J				83 J		
Benzo(a)pyrene	SEMI	300 J	59 J				400 J		
Indeno(1,2,3-cd)pyrene	SEMI						280 J		
Dibenz(a,h)anthracene	SEMI								
Benzo(g,h,i)perylene	SEMI						290 J		

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Analytical Results

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SAMPLE-ID		SS-1	SS-2	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
COLLECTION DATE		6/27/90	6/27/90	12/27/90	12/27/90	12/20/90	12/20/90	12/18/90	12/18/90
PARAMETER	TYPE								
alpha-BHC	PST								
beta-BHC	PST								
delta-BHC	PST								
gamma-BHC (Lindane)	PST								
Heptachlor	PST								
Aldrin	PST								
Heptachlor Epoxide	PST								
Endosulfan I	PST								
Dieldrin	PST								
4,4'-DDE	PST								
Endrin	PST								
Endosulfan II	PST								
4,4'-DDD	PST								
Endosulfan Sulfate	PST								
4,4'-DDT	PST								
Methoxychlor	PST								
Endrin Ketone	PST								
alpha-Chlordane	PST								
gamma-Chlordane	PST								
Toxaphene	PST								
Aroclor-1016	PCB								
Aroclor-1221	PCB								
Aroclor-1232	PCB								
Aroclor-1242	PCB								
Aroclor-1248	PCB								
Aroclor-1254	PCB								
Aroclor-1260	PCB								

All results reported in $\mu g/L$ (ppb).

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Analytical Results

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SAMPLE-ID		SS-1	SS-2	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12
COLLECTION DATE		6/27/90	6/27/90	12/27/90	12/27/90	12/20/90	12/20/90	12/18/90	12/18/90
PARAMETER	TYPE								
Aluminum	MCP	13,000 *	20,200 *	27,200	15,800	45,500	31,400	40,400	44,300
Antimony	MCP								
Arsenic	MCP	4.1	5.1 S	3.2 B	3.9	5.6	12.9	3.4 B	4.2 B
Barium	MCP	84.5	123	148	83.9	221	209	212	252
Beryllium	MCP	0.70 B	0.82 B	1.4 B	1.3 B	1.9 B	1.7 B	1.8 B	1.1 B
Cadmium	MCP	5.8	0.58 B			7	2.2		
Calcium	MCP	53,600	8520	5110	4500	21,200	49,000	32,200	38,600
Chromium	MCP	27.1 *	26.0 *	35.1	21.2	101	696	50.9	58.2
Cobalt	MCP	11.5 B	14.9	14.6 B	11.9 B	34.9	17.3 B	17.3 B	20 B
Copper	MCP	21.3 E	22.2 E	14.8	12.6	85.2	55.2	38.5	30
Iron	MCP	20,300 *	33,500 *	25,500	20,400	57,600	44,200	40,000	45,600
Lead	MCP	37.8 S	14	16.4	17.5	58.2	62.8	18.6 S	22.2
Magnesium	MCP	30,200	8670	7250	4460	15,500	13,500	13,300	15,000
Manganese	MCP	473 *	387 *	291	206	866	511	612	695
Mercury	MCP								
Nickel	MCP	24.6	29.8	30.1	21.1	88.6	51.3	39	43.3
Potassium	MCP	1980	3090	5690	2970	8960	7290	10,300	10,000
Selenium	MCP								
Silver	MCP								
Sodium	MCP	441 B	400 B	223	171	403 B	383	330 B	302 B
Thallium	MCP								
Vanadium	MCP	22.9	36.2	51.5	32.2	87.9	67.2	74	78.9
Zinc	MCP	149	120	199	138	285	197	132	154
Cyanide	MCP								
Phenols (mg/kg)	MCP	2.16	1.76	4.63	3.67	2.64		2.59	3.24
Cr-hexavalent (mg/kg)	MCP	NA	NA	NA	NA	NA		NA	NA

Results for are reported in mg/kg (ppm) unless otherwise stated.

Only detected results are reported.

E - Estimated value due to interference.

N - Spike sample % recovery out of control limits.

* - Duplicate analysis not within control limits.

B - Less than quantitation limit but greater than or equal to instrument detection limit.

W - Post-digestion spike is out of control limits.

S - The reported value was determined by the method of standard additions (MSA).

NA - Not analyzed.