6ES-HL SAMPLE NO.: AB1401 (83) FIELD SAMPLE NO. (TAG NO.): 6-6973

SOURCE: Western Co. of North America; Off-site west of Lagoon in draw. Stat. 01 Project OK04758

DATE/TIME COLLECTED: 6/6/83 1410 COLLECTED BY: FIT TYPE SAMPLE: Soil

PARAMETER	CONCENTRATION	PARAMETER	CONCENTRATION	PARAMETER	CONCENTRATION
Antimony, Sb	<1.33 mg/kg (ppm)	Mercury, Hg	<0.11 mg/kg	Phenols, (4AAP)	0.95 mg/kg
Arsenic, As	1.78 "	Nickel, Ni	10.9 "	Cyanide, Total	<0.20 "
Beryllium, Be	<2.22 "	Selenium, Se	1.33 "		
Cadmium, Cd	<2.22 "	Silver, Ag	<2.22 "		
Chromium, Cr	12.7 "	Thallium, Tl	<0.56 "		
Copper, Cu	2.45 "	Zinc, Zn	27.6 "		
Lead, Pb	8.89 "				

CHLORINATED PESTICIDES/PCB's BY GAS CHROMATOG./ELECTRON CAPTURE OR ELECTROLYTIC CONDUCTIVITY DETECTOR

NAME	CONCENTRATION	NAME	CONCENTRATION	NAME	CONCENTRATION
Aldrin	<0.002 mg/kg	Endrin	<0.004 mg/kg	Aroclor 1242	<0.027 mg/kg
Dieldrin	<0.004 "	Endrin Aldehyde	N/A	Aroclor 1254	<0.027 "
Chlordane	<0.07 "	Heptachlor	<0.002 mg/kg	Aroclor 1221	<0.027 "
4,4'-DDT	<0.006 "	Heptachlor Epoxide	<0.002 "	Aroclor 1232	<0.027 "
4,4'-DDE	<0.004 "	Alpha BHC	<0.002 "	Aroclor 1248	<0.027 "
4,4'-DDD	<0.004 "	Beta BHC	<0.002 "	Aroclor 1260	<0.027 "
Endosulfan I	<0.004 "	Gamma BHC	<0.002 "	Aroclor 1016	<0.027 "
Endosulfan II	<0.006 "	Delta BHC	<0.002 "		
Endosulfan Sulfate	<0.009 "	Toxaphene	<0.11 "		

PRIORITY POLLUTANT VOLATILE FRACTION BY GC/MS METHOD 624 *Not Analyzed*

NAME	CONCENTRATION	NAME	CONCENTRATION
Acrolein		1,2-Dichloropropane	
Acrylonitrile		1,3-Dichloropropylene	
Benzene		Ethylbenzene	
Carbon Tetrachloride		Dichloromethane	
Chlorobenzene		Chloromethane	
1,2-Dichloroethane		Bromomethane	
1,1,1-Trichloroethane		Bromoform	
1,1-Dichloroethane		Dichlorobromomethane	
1,1,2-Trichloroethane		Trichlorofluoromethane	
1,1,2,2-Tetrachloroethane		Dichlorodifluoromethane	
Chloroethane		Chlorodibromomethane	
2-Chloroethyl vinyl ether		Tetrachloroethylene	
Chloroform		Toluene	
1,1-Dichloroethene		Trichloroethylene	
1,2-Trans-dichloroethene		Vinyl chloride	

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CCS-NL SAMPLE NO.: AB1401 FIELD SAMPLE NO. (TAG NO.):

SOURCE: Western Co of North America, Off site west of lagoon in dump Stat #01 Project code OK4258

DATE/TIME COLLECTED: 6/6/83 1410 COLLECTED BY: TYPE SAMPLE: soil

PRIORITY POLLUTANT BASE/NEUTRAL FRACTION BY GC/MS METHOD 625

NAME	CONCENTRATION	NAME	CONCENTRATION
Acenaphthene	ND (<0.2ug/g)	N-Nitrosodi-ethylamine	ND (<1.0ug/g)
Benzidine	ND (<2.0ug/g)	N-Nitrosodiphenylamine	ND (<0.4ug/g)
1,2,4-Trichlorobenzene	ND (<0.2ug/g)	N-Nitrosodi-n-propylamine	ND (<0.8ug/g)
Hexachlorobenzene	ND "	Bis (2-ethylhexyl) phthalate	<0.4ug/g
Hexachloroethane	ND "	Butyl benzyl phthalate	ND (<0.4ug/g)
Bis (2-chloroethyl) ether	ND "	Di-n-butyl phthalate	0.7ug/g
2-Chloronaphthalene	ND "	Di-n-octyl phthalate	ND (<0.4ug/g)
1,2-Dichlorobenzene	ND "	Diethyl phthalate	ND (<0.4ug/g)
1,3-Dichlorobenzene	ND "	Dimethyl phthalate	ND (<0.2ug/g)
1,4-Dichlorobenzene	ND "	Benzo(a)anthracene	ND (<0.8ug/g)
3,3'-Dichlorobenzidine	ND (<1.0ug/g)	Benzo(a)pyrene	ND "
2,4-Dinitrotoluene	ND (<0.6ug/g)	3,4-Benzofluoranthene	ND "
2,6-Dinitrotoluene	ND "	Benzo(k)fluoranthene	ND "
1,2-Diphenylhydrazine	ND (<0.4ug/g)	Chrysene	ND "
Fluoranthene	ND (<0.2ug/g)	Acenaphthylene	ND (<0.2ug/g)
4-Chlorophenyl phenyl ether	ND (<0.4ug/g)	Anthracene	ND "
4-Bromophenyl phenyl ether	ND "	Benzo(ghi)perylene	ND (<0.8ug/g)
Bis (2-chloroisopropyl) ether	ND (<0.2ug/g)	Fluorene	ND (<0.2ug/g)
Bis (2-chloroethoxy) methane	ND "	Phenanthrene	ND "
Hexachlorobutadiene	ND "	Dibenzo(ah)anthracene	ND (<0.8ug/g)
Hexachlorocyclopentadiene	ND (<1.0ug/g)	Indeno(1,2,3-cd)pyrene	ND "
Isophorone	ND (<0.8ug/g)	Pyrene	ND (<0.2ug/g)
Naphthalene	ND (<0.2ug/g)		
Nitrobenzene	ND "	Tetrachlorodibenzo-p-dioxin (2,3,7,8-isomer)	not analyzed

PRIORITY POLLUTANT ACID FRACTION BY GC/MS METHOD 625

NAME	CONCENTRATION	NAME	CONCENTRATION
2,4,6-Trichlorophenol	ND (<0.6ug/g)	4-Nitrophenol	ND (<3.0ug/g)
o-Chloro-m-cresol	ND (<0.8ug/g)	2,4-Dinitrophenol	ND (<4.0ug/g)
2-Chlorophenol	ND (<0.4ug/g)	4,6-Dinitro-o-cresol	ND (<3.0ug/g)
2,4-Dichlorophenol	ND (<0.8ug/g)	pentachlorophenol	ND (<1.6ug/g)
2,4-Dimethylphenol	ND (<0.6ug/g)	Phenol	ND (<0.4ug/g)
2-Nitrophenol	ND (<1.0ug/g)		

6ES-HL SAMPLE NO.: AB1401(83) FIELD SAMPLE NO. (TAG NO.):

SOURCE: Western Co. of North America; Off-site west of Lagoon in draw. Stat 01; Project OK04758

DATE/TIME COLLECTED: 6/6/83 1410 COLLECTED BY: EIT TYPE SAMPLE: Soil

OTHER COMPOUNDS TENTATIVELY IDENTIFIED WITH CONCENTRATION ESTIMATES

NAME	CONCENTRATION	NAME	CONCENTRATION
None Detected			

REMARKS:

Report Prepared By: W. A. Langley Date: 2/8/85

6ES-HL SAMPLE NO.: AB1402 (83) FIELD SAMPLE NO. (TAG NO.): 6-6974

SOURCE: Western Co. of North America; North runoff path off-site. Stat. 02

DATE/TIME COLLECTED: 6/6/83 1425 COLLECTED BY: FIT TYPE SAMPLE: Soil

PARAMETER	CONCENTRATION	PARAMETER	CONCENTRATION	PARAMETER	CONCENTRATION
Antimony, Sb	<1.42 mg/kg (ppm)	Mercury, Hg	<0.12 mg/kg	Phenols, (4AAP)	0.75 mg/kg
Arsenic, As	1.53 "	Nickel, Ni	10.4 "	Cyanide, Total	<0.20 "
Beryllium, Be	<2.36 "	Selenium, Se	1.4 "		
Cadmium, Cd	<2.36 "	Silver, Ag	<2.36 "		
Chromium, Cr	14.2 "	Thallium, Tl	<0.59 "		
Copper, Cu	<2.36 "	Zinc, Zn	32.9 "		
Lead, Pb	11.6 "				

CHLORINATED PESTICIDES/PCB's BY GAS CHROMATOG./ELECTRON CAPTURE OR ELECTROLYTIC CONDUCTIVITY DETECTOR

NAME	CONCENTRATION	NAME	CONCENTRATION	NAME	CONCENTRATION
Aldrin	<0.003 mg/kg	Endrin	<0.006 mg/kg	Aroclor 1242	<0.034 mg/kg
Dieldrin	<0.006 "	Endrin Aldehyde	N/A	Aroclor 1254	<0.034 "
Chlordane	<0.087 "	Heptachlor	<0.003 "	Aroclor 1221	<0.034 "
4,4'-DDT	<0.008 "	Heptachlor Epoxide	<0.003 "	Aroclor 1232	<0.034 "
4,4'-DDE	<0.006 "	Alpha BHC	<0.003 "	Aroclor 1248	<0.034 "
4,4'-DDD	<0.006 "	Beta BHC	<0.003 "	Aroclor 1260	<0.034 "
Endosulfan I	<0.006 "	Gamma BHC	<0.003 "	Aroclor 1016	<0.034 "
Endosulfan II	<0.008 "	Delta BHC	<0.003 "		
Endosulfan Sulfate	<0.011 "	Toxaphene	<0.138 "		

PRIORITY POLLUTANT VOLATILE FRACTION BY GC/MS METHOD 624 Not Analyzed

NAME	CONCENTRATION	NAME	CONCENTRATION
Acrolein		1,2-Dichloropropane	
Acrylonitrile		1,3-Dichloropropylene	
Benzene		Ethylbenzene	
Carbon Tetrachloride		Dichloromethane	
Chlorobenzene		Chloromethane	
1,2-Dichloroethane		Bromomethane	
1,1,1-Trichloroethane		Bromoform	
1,1-Dichloroethane		Dichlorobromomethane	
1,1,2-Trichloroethane		Trichlorofluoromethane	
1,1,2,2-Tetrachloroethane		Dichlorodifluoromethane	
Chloroethane		Chlorodibromomethane	
2-Chloroethyl vinyl ether		Tetrachloroethylene	
Chloroform		Toluene	
1,1-Dichloroethene		Trichloroethylene	
1,2-Trans-dichloroethene		Vinyl chloride	

GES-NL SAMPLE NO.: AB 1402 FIELD SAMPLE NO. (TAG NO.):

SOURCE: Western Co of North America, North runoff path off site stat #02

DATE/TIME COLLECTED: 6/6/83 1425 COLLECTED BY: TYPE SAMPLE: soil

PRIORITY POLLUTANT BASE/NEUTRAL FRACTION BY GC/MS METHOD 625

NAME	CONCENTRATION	NAME	CONCENTRATION
Acenaphthene	ND (<0.2ug/g)	N-Nitrosodimethylamine	ND (<1.0ug/g)
Benzidine	ND (<2.0ug/g)	N-Nitrosodiphenylamine	ND (<0.4ug/g)
1,2,4-Trichlorobenzene	ND (<0.2ug/g)	N-Nitrosodi-n-propylamine	ND (<0.8ug/g)
Hexachlorobenzene	ND "	Bis (2-ethylhexyl) phthalate	<0.4ug/g
Hexachloroethane	ND "	Butyl benzyl phthalate	ND (<0.4ug/g)
Bis (2-chloroethyl) ether	ND "	Di-n-butyl phthalate	1.0 ug/g
2-Chloronaphthalene	ND "	Di-n-octyl phthalate	ND (<0.4ug/g)
1,2-Dichlorobenzene	ND "	Diethyl phthalate	ND (<0.4ug/g)
1,3-Dichlorobenzene	ND "	Dimethyl phthalate	ND (<0.2ug/g)
1,4-Dichlorobenzene	ND "	Benzo(a)anthracene	ND (<0.8ug/g)
3,3'-Dichlorobenzidine	ND (<1.0ug/g)	Benzo(a)pyrene	ND "
2,4-Dinitrotoluene	ND (<0.1ug/g)	3,4-Benzofluoranthene	ND "
2,6-Dinitrotoluene	ND "	Benzo(k)fluoranthene	ND "
1,2-Diphenylhydrazine	ND (<0.4ug/g)	Chrysene	ND "
Fluoranthene	ND (<0.2ug/g)	Acenaphthylene	ND (<0.2ug/g)
4-Chlorophenyl phenyl ether	ND (<0.4ug/g)	Anthracene	ND "
4-Bromophenyl phenyl ether	ND "	Benzo(ghi)perylene	ND (<0.8ug/g)
Bis (2-chloroisopropyl) ether	ND (<0.2ug/g)	Fluorene	ND (<0.8ug/g)
Bis (2-chloroethoxy) methane	ND "	Phenanthrene	ND (<0.2ug/g)
Hexachlorobutadiene	ND "	Dibenzo(ah)anthracene	ND (<0.8ug/g)
Hexachlorocyclopentadiene	ND (<1.0ug/g)	Indeno(1,2,3-cd)pyrene	ND (<0.8ug/g)
Isophorone	ND (<0.8ug/g)	Pyrene	ND (<0.2ug/g)
Naphthalene	ND (<0.2ug/g)		
Nitrobenzene	ND "	Tetrachlorodibenzo-p-dioxin (2,3,7,8-isomer)	Not analyzed

PRIORITY POLLUTANT ACID FRACTION BY GC/MS METHOD 625

NAME	CONCENTRATION	NAME	CONCENTRATION
2,4,6-Trichlorophenol	ND (<0.6ug/g)	4-Nitrophenol	ND (<3.0ug/g)
o-Chloro-m-cresol	ND (<0.8ug/g)	2,4-Dinitrophenol	ND (<4.0ug/g)
2-Chlorophenol	ND (<0.4ug/g)	4,6-Dinitro-o-cresol	ND (<3.0ug/g)
2,4-Dichlorophenol	ND (<0.8ug/g)	pentachlorophenol	ND (<1.6ug/g)
2,4-Dimethylphenol	ND (<0.6ug/g)	Phenol	ND (<0.4ug/g)
2-Nitrophenol	ND (<1.0ug/g)		

6ES-HL SAMPLE NO.: AB1402 (83) FIELD SAMPLE NO. (TAG NO.):

SOURCE: Western Co. of North America; North runoff path offsite. Stat. 02

DATE/TIME COLLECTED: 6/6/83 1425 COLLECTED BY: FIT TYPE SAMPLE: Soil

OTHER COMPOUNDS TENTATIVELY IDENTIFIED WITH CONCENTRATION ESTIMATES

NAME	CONCENTRATION	NAME	CONCENTRATION
None detected			

REMARKS:

Report Prepared By: W.A. Langley Date: 2/8/85

6ES-HL SAMPLE NO.: AB 1403 (83) FIELD SAMPLE NO. (TAG NO.): 6-6975

SOURCE: Western Co. of North America - Field Blank

DATE/TIME COLLECTED: 6/6/83 COLLECTED BY: TYPE SAMPLE: Blank (Empty Bottle Sd)

PARAMETER	CONCENTRATION	PARAMETER	CONCENTRATION	PARAMETER	CONCENTRATION
Antimony, Sb	<12 µg/l (ppb)	Mercury, Hg	<0.2 µg/l (ppb)	Phenols, (4AAP)	N/A
Arsenic, As	<12 "	Nickel, Ni	<20 "	Cyanide, Total	N/A
Beryllium, Be	<20 "	Selenium, Se	<12 "		
Cadmium, Cd	<20 "	Silver, Ag	<20 "		
Chromium, Cr	<20 "	Thallium, Tl	< 5 "		
Copper, Cu	<20 "	Zinc, Zn	<20 "		
Lead, Pb	<30 "				

CHLORINATED PESTICIDES/PCB's BY GAS CHROMATOG./ELECTRON CAPTURE OR ELECTROLYTIC CONDUCTIVITY DETECTOR

NAME	CONCENTRATION	NAME	CONCENTRATION	NAME	CONCENTRATION
Aldrin		Endrin		Aroclor 1242	
Dieldrin		Endrin Aldehyde		Aroclor 1254	
Chlordane		Heptachlor		Aroclor 1221	
4,4'-DDT		Heptachlor Epoxide		Aroclor 1232	
4,4'-DDE		Alpha BHC		Aroclor 1248	
4,4'-DDD		Beta BHC		Aroclor 1260	
Endosulfan I		Gamma BHC		Aroclor 1016	
Endosulfan II		Delta BHC			
Endosulfan Sulfate		Toxaphene			

PRIORITY POLLUTANT VOLATILE FRACTION BY GC/MS METHOD 624

NAME	CONCENTRATION	NAME	CONCENTRATION
Acrolein		1,2-Dichloropropane	
Acrylonitrile		1,3-Dichloropropylene	
Benzene		Ethylbenzene	
Carbon Tetrachloride		Dichloromethane	
Chlorobenzene		Chloromethane	
1,2-Dichloroethane		Bromomethane	
1,1,1-Trichloroethane		Bromoform	
1,1-Dichloroethane		Dichlorobromomethane	
1,1,2-Trichloroethane		Trichlorofluoromethane	
1,1,2,2-Tetrachloroethane		Dichlorodifluoromethane	
Chloroethane		Chlorodibromomethane	
2-Chloroethyl vinyl ether		Tetrachloroethylene	
Chloroform		Toluene	
1,1-Dichloroethene		Trichloroethylene	
1,2-Trans-dichloroethene		Vinyl chloride	

GES-NL SAMPLE NO.: AB1403 FIELD SAMPLE NO. (TAG NO.):

SOURCE: Western Co of North America - blank

DATE/TIME COLLECTED: 6/6/83 COLLECTED BY: TYPE SAMPLE: blank

PRIORITY POLLUTANT BASE/NEUTRAL FRACTION BY GC/MS METHOD 625

NAME	CONCENTRATION	NAME	CONCENTRATION
Acenaphthene	ND (<2ug)	N-Nitrosodimethylamine	ND (<10ug)
Benzidine	ND (<20ug)	N-Nitrosodiphenylamine	ND (<4ug)
1,2,4-Trichlorobenzene	ND (<2ug)	N-Nitrosodi-n-propylamine	ND (<8ug)
Hexachlorobenzene	ND "	Bis (2-ethylhexyl) phthalate	6ug
Hexachloroethane	ND "	Butyl benzyl phthalate	ND (<4ug)
Bis (2-chloroethyl) ether	ND "	Di-n-butyl phthalate	24ug
2-Chloronaphthalene	ND "	Di-n-octyl phthalate	ND (<4ug)
1,2-Dichlorobenzene	ND "	Diethyl phthalate	ND "
1,3-Dichlorobenzene	ND "	Dimethyl phthalate	ND (<2ug)
1,4-Dichlorobenzene	ND "	Benzo(a)anthracene	ND (<8ug)
3,3'-Dichlorobenzidine	ND (<10ug)	Benzo(a)pyrene	ND "
2,4-Dinitrotoluene	ND (<6ug)	3,4-Benzofluoranthene	ND "
2,6-Dinitrotoluene	ND "	Benzo(k)fluoranthene	ND "
1,2-Diphenylhydrazine	ND (<4ug)	Chrysene	ND "
Fluoranthene	ND (<2ug)	Acenaphthylene	ND (<2ug)
4-Chlorophenyl phenyl ether	ND (<4ug)	Anthracene	ND "
4-Bromophenyl phenyl ether	ND "	Benzo(ghi)perylene	ND (<8ug)
Bis (2-chloroisopropyl) ether	ND (<2ug)	Fluorene	ND (<2ug)
Bis (2-chloroethoxy) methane	ND "	Phenanthrene	ND "
Hexachlorobutadiene	ND "	Dibenzo(ah)anthracene	ND (<8ug)
Hexachlorocyclopentadiene	ND (<10ug)	Indeno(1,2,3-cd)pyrene	ND "
Isophorone	ND (<8ug)	Pyrene	ND (<2ug)
Naphthalene	ND (<2ug)		
Nitrobenzene	ND "	Tetrachlorodibenzo-p-dioxin (2,3,7,8-isomer)	not analyzed

PRIORITY POLLUTANT ACID FRACTION BY GC/MS METHOD 625

NAME	CONCENTRATION	NAME	CONCENTRATION
2,4,6-Trichlorophenol	ND (<6ug)	4-Nitrophenol	ND (<30ug)
o-Chloro-m-cresol	ND (<8ug)	2,4-Dinitrophenol	ND (<40ug)
2-Chlorophenol	ND (<4ug)	4,6-Dinitro-o-cresol	ND (<30ug)
2,4-Dichlorophenol	ND (<8ug)	pentachlorophenol	ND (<16ug)
2,4-Dimethylphenol	ND (<6ug)	Phenol	ND (<4ug)
2-Nitrophenol	ND (<10ug)		

GES-HL SAMPLE NO.: AB1403(83) FIELD SAMPLE NO. (TAG NO.):

SOURCE: Western Co. of North America - Field Blank

DATE/TIME COLLECTED: 6/6/83 COLLECTED BY: TYPE SAMPLE: Blank

OTHER COMPOUNDS TENTATIVELY IDENTIFIED WITH CONCENTRATION ESTIMATES

NAME	CONCENTRATION	NAME	CONCENTRATION
None Detected			

REMARKS:

Report Prepared By: M. D. Langley Date: 2/8/85