Doc. No.: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
VOLATILE ORGANIC COMPOUNDS IN FISH TISSUE SAMPLES
Concentration in ug/kg

CHART = 69FISHV

wp8b\69-vol.wr1 (6)

COMPOUND	69TI4-1	69TI4-2	69TI5-1	69TI5-2
Chloromethane	47	210	26	17
Bromomethane	<22	<15	<13	<13
Vinyl Chloride	<3.0	<2.0	<1.8	<1.8
Chloroethane	<1.7	<1.1	<1.0	<1.0
Methylene Chloride	<11	<7.0	<6.2	<6.4
Acetone	28000	<4.8	<4.3	<4.4
Carbon Disulfide	<4.7	<3.1	<2.8	<2.9
1,1-Dichloroethene	<4.7	<3.2	<2.8	<2.9
1,1-Dichloroethane	<1.6	<1.1	<0.96	<0.98
1,2-Dichloroethene (total)	<9.8	<6.5	<5.8	<5.9
Chloroform	<2.6	<1.7	<1.5	<1.6
1,2-Dichloroethane	<1.7	<1.1	<1.0	<1.0
2-Butanone	<5.1	<3.4	<3.0	<3.1
1,1,1-Trichloroethane	<1.7	<1.1	<0.99	<1.0
Carbon Tetrachloride	<2.3	<1.6	<1.4	<1.4
Vinyl Acetate	<9.7	<6.5	<5.8	<5.9
Bromodichloromethane	<2.1	<1.4	<1.2	<1.3
1,2-Dichloropropane	<2.2	<1.4	<1.3	<1.3
cis-1,3-Dichloropropene	<2.0	<1.3	<1.2	<1.2
Trichloroethene	<1.1	<0.72	<0.64	<0.66
Dibromochloromethane	<2.5	<1.6	<1.5	<1.5
1,1,2-Trichloroethane	<2.7	<1.8	<1.6	<1.6
Benzene	<5.6	<3.7	<3.3	<3.4
trans-1,3-Dichloropropene	<1.9	<1.3	<1.1	<1.1
Bromoform	<3.9	<2.6	<2.3	<2.4
4-Methyl-2-Pentanone	<5.1	<3.4	<3.0	<3.1
2-Hexanone	<6.3	<4.2	<3.8	<3.8
Tetrachloroethene	<0.97	<0.65	<0.58	<0.59
Toluene	<1.2	<0.81	<0.72	<0.74
1,1,2,2-Tetrachloroethane	<5.0	<3.3	<3.0	<3.0
Chlorobenzene	<0.87	<0.58	<0.52	<0.53
Ethylbenzene	<1.2	<0.82	<0.73	<0.75
Styrene	<2.6	<1.7	<1.5	<1.6
Xylene (total)	<2.0	<1.3	<1.2	<1.2

PROJECT Camp Lejeune
PREPARED BY [illegible]
DATE April 1991
CHECKED BY Ed Kupfel
DATE 5/14/91
COMMENTS

Doc No: CLEJ-06359-304-04/01/91

CAMP LEJEUNE - SITE 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN FISH TISSUE
Concentration in ug/kg (dry)

CHART = 69FSSVA

wp8c\69-sv.wr1 (5-A)

COMPOUND	69TI4-1	69TI4-2	69TI5-1	69TI5-2
Phenol	<490	300	250	<150
bis(2-Chloroethyl)ether	<220	<67	<67	<67
2-Chlorophenol	<240	<74	<74	<74
1,3-Dichlorobenzene	<680	<210	<210	<210
1,4-Dichlorobenzene	<750	<230	<230	<230
Benzyl Alcohol	<270	<85	<85	<84
1,2-Dichlorobenzene	<820	<260	<260	<260
2-Methylphenol	<270	<85	<85	<84
bis(2-Chloroisopropyl)ether	<360	<110	<110	<110
4-Methylphenol	<830	<260	<260	<260
N-Nitroso-di-n-propylamine	<260	<80	<80	<80
Hexachloroethane	<960	<300	<300	<300
Nitrobenzene	<200	<63	<63	<63
Isophorone	<190	<61	<61	<61
2-Nitrophenol	<150	<48	<48	<48
2,4-Dimethylphenol	<730	<230	<230	<230
Benzoic acid	2300	640	1100	520
bis(2-Chloroethoxy)methane	<250	<78	<78	<78
2,4-Dichlorophenol	<300	<95	<95	<94
1,2,4-Trichlorobenzene	<630	<200	<200	<200
Naphthalene	<630	<200	<200	<200
4-Chloroaniline	<360	<110	<110	<110
Hexachlorobutadiene	<760	<240	<240	<240
4-Chloro-3-methylphenol	<340	<110	<110	<110
2-Methylnaphthalene	<670	<210	<210	<210
Hexachlorocyclopentadiene	<440	<140	<140	<140
2,4,6-Trichlorophenol	<310	<98	<98	<98
2,4,5-Trichlorophenol	<290	<92	<92	<92
2-Chloronaphthalene	<270	<85	<85	<84
2-Nitroaniline	<230	<71	<71	<71
Dimethylphthalate	<560	<170	<170	<170
Acenaphthylene	<290	<91	<91	<91
2,6-Dinitrotoluene	<350	<110	<110	<110

PROJECT Camp Lejeune
PREPARED BY [illegible]
DATE April 1991
CHECKED BY [illegible]
DATE 5/2/91

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN FISH TISSUE
Concentration in ug/kg (dry)

CHART = 69FSSVB

wp8c\69-sv.wr1 (5-B)

COMPOUND	69TI4-1	69TI4-2	69TI5-1	69TI5-2
3-Nitroaniline	<380	<120	<120	<120
Acenaphthene	<410	<130	<130	<130
2,4-Dinitrophenol	<650	<200	<200	<200
4-Nitrophenol	<560	<170	<170	<170
Dibenzofuran	<220	<69	<69	<69
2,4-Dinitrotoluene	<240	<75	<75	<75
Diethylphthalate	<500	<160	<160	<160
4-Chlorophenyl-phenylether	<250	<79	<79	<79
Fluorene	<330	<100	<100	<100
4-Nitroaniline	<580	<180	<180	<180
4,6-Dinitro-2-methylphenol	<510	<160	<160	<160
N-Nitrosodiphenylamine	<230	<72	<72	<72
4-Bromophenyl-phenylether	<210	<66	<66	<66
Hexachlorobenzene	<290	<91	<91	<91
Pentachlorophenol	<470	<150	<150	<150
Phenanthrene	<210	<64	<64	<64
Anthracene	<230	<71	<71	<71
Di-n-butylphthalate	440	150	180	160
Fluoranthene	<340	<110	<110	<110
Pyrene	<220	<67	<67	<67
Butylbenzylphthalate	<440	<140	<140	<140
3,3'-Dichlorobenzidine	<340	<110	<110	<110
Benzo(a)anthracene	<190	<59	<59	<59
Chrysene	<290	<92	<92	<92
bis(2-Ethylhexyl)phthalate	<420	<130	<130	<130
Di-n-octylphthalate	<210	<67	<67	<67
Benzo(b)fluoranthene	<410	<130	<130	<130
Benzo(k)fluoranthene	<510	<160	<160	<160
Benzo(a)pyrene	<550	<170	<170	<170
Indeno(1,2,3-cd)pyrene	<290	<91	<91	<90
Dibenz(a,h)anthracene	<190	<59	<59	<59
Benzo(g,h,i)perylene	<220	<70	<70	<70

Doc No: CLEJ-00359-3.01-04/01/91

CAMP LEJEUNE - SITE 69
PESTICIDES IN FISH TISSUE SAMPLES
Concentration in ug/kg - dry

CHART = 69FISHP

sy\wp8d\69-pest.wr1 (5)

PESTICIDE/PCB	69TI4-1	69TI4-2	69TI5-1	69TI5-2
alpha-BHC	<140	<120	<97.0	<110
beta-BHC	<140	<120	<97.0	<110
delta-BHC	<140	<120	<97.0	<110
gamma-BHC (Lindane)	<140	<120	<97.0	<110
Heptachlor	<140	<120	<97.0	<110
Aldrin	<140	<120	<97.0	<110
Heptachlor epoxide	<140	<120	<97.0	<110
Endosulfan, A	<140	<120	<97.0	<110
Dieldrin	<270	<230	<190	<220
DDE, PP'	<270	<230	<190	<220
Endrin	<270	<230	<190	<220
Endosulfan, B	<270	<230	<190	<220
DDD, PP'	<270	<230	<190	<220
Endosulfan sulfate	<270	<230	<190	<220
DDT, PP'	<270	<230	<190	<220
Methoxychlor	<1400	<1200	<970	<1100
Endrin ketone	<270	<230	<190	<220
alpha-Chlordane	<1400	<1200	<970	<1100
gamma-Chlordane	<1400	<1200	<970	<1100
Toxaphene	<2700	<2300	<1900	<2200
PCB-1016	<1400	<1200	<970	<1100
PCB-1221	<1400	<1200	<970	<1100
PCB-1232	<1400	<1200	<970	<1100
PCB-1242	<1400	<1200	<970	<1100
PCB-1248	<1400	<1200	<970	<1100
PCB-1254	<2700	<2300	<1900	<2200
PCB-1260	<2700	<2300	<1900	<2200

PROJECT Camp Lejeune
PREPARED BY Judy Kenney
DATE April 1991
REVIEWED BY Linda Aspice
DATE 5/10/91
REVISIONS

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
INORGANICS IN FISH TISSUE
Concentration in mg/kg (wet)

CHART = 69FISHIN

wp1e\69-inor.wr1 (5)

METAL/COMPOUND	69TI4-1	69TI4-2	69TI5-1	69TI5-2
Aluminum	1740	106	150	142
Antimony	<1.3	<1.3	<1.3	1.8
Arsenic	1.0	1.0	0.5	0.6
Barium	1.6	<0.2	<0.2	<0.2
Beryllium	<0.2	0.02	0.04	<0.2
Cadmium	<0.4	<0.4	<0.4	<0.4
Calcium	4590	4530	2840	15900
Chromium	11.2	5.2	1.3	0.7
Cobalt	<0.6	<0.6	<0.6	<0.6
Copper	16.2	52.4	4.8	6.9
Iron	1790	128	144	165
Lead	2.0	2.2	<0.2	<0.2
Magnesium	892	728	722	753
Manganese	7.1	1.6	1.6	2.9
Mercury	<0.05	<0.05	<0.05	<0.05
Nickel	4.5	7.5	0.8	1.4
Potassium	1160	1580	1620	1380
Selenium	0.3	0.3	0.3	0.4
Silver	0.3	0.4	0.4	0.3
Sodium	4440	4930	4800	4730
Thallium	<0.4	<0.4	<0.4	<0.4
Vanadium	3.6	0.4	0.3	0.4
Zinc	92.9	118	102	151
Cyanide	<2.0	<2.0	<2.0	<2.0

PROJECT Camp Lejeune
PREPARED BY Judy Lunka
DATE April 1991
CHECKED BY S.C. Kirk
DATE 5/13/91
COMMENTS

Doc No: CLEJ-00359-364-G4/01/91

CAMP LEJEUNE - SITE 69
INORGANICS IN SURFACE WATER
Concentration in ug/l

CHART = 69SWING

wp1e\69-inor.wr1 (3)

METAL/COMPOUND	69SW1	69SW5-1
Aluminum	622	309
Antimony	13.3U	13.3U
Arsenic	1.5U	1.5U
Barium	28.2B	1.7U
Beryllium	0.50U	0.50U
Cadmium	4.3U	4.3U
Calcium	3630B	241000
Chromium	1.5U	1.5U
Cobalt	6.0U	6.0U
Copper	6.4B	3.2U
Iron	4420	159
Lead	1.7U	1.7U
Magnesium	986B	753000
Manganese	223	1.2U
Mercury	0.10U	0.10U
Nickel	5.2U	5.2U
Potassium	710B	318000
Selenium	3.4U	3.4U
Silver	2.4B	3.1B
Sodium	5090	6.8U
Thallium	4.4U	8.8U
Vanadium	2.4U	5.0B
Zinc	1960	2.7U
Cyanide	10.0U	11.2

PROJECT Camp Lejeune
PREPARED BY Judy Luna
DATE April 1991
CHECKED BY E.C. Knapp
DATE 5/14/91

Doc No: CLEJ-00359-304-04/01/91

CAMP LEJEUNE - SITE 69
INORGANICS IN SEDIMENT
Concentration in mg/kg

CHART = 69SEING

wp1e\69-inor.wr1 (4)

METAL/COMPOUND	69SE1	69SE4-1	69SE4-2	69SE5-1	69SE5-2
Aluminum	2430.00	2650.00	2510.00	1950.00	2080.00
Antimony	3.40B	7.20BN	7.80BN	9.70BN	6.60UN
Arsenic	0.42U	0.48U	0.49U	0.45U	0.45U
Barium	7.60B	5.40B	4.40B	3.60B	3.20B
Beryllium	0.74B	0.26U	0.23U	0.24U	0.25U
Cadmium	0.56U	1.80	1.60	0.73B	0.74U
Calcium	30.80B	465.00B	295.00B	486.00B	324.00B
Chromium	3.50	6.40	6.00	5.60	4.90
Cobalt	1.10U	2.00B	1.80B	1.90B	1.70B
Copper	0.74B	2.00B	0.69B	0.97B	1.20B
Iron	1550.00	2890.00E	2700.00E	2140.00E	2340.00E
Lead	1.70	2.70N*	2.60N*	2.60N*	3.10N*
Magnesium	74.20B	902.00B	766.00B	833.00B	829.00B
Manganese	2.00B	14.10	12.40	7.80	8.60
Mercury	0.12U	0.11U	0.13U	0.13U	0.12U
Nickel	1.70U	4.10B	2.80B	2.20U	4.70B
Potassium	50.70U	582.00B	527.00B	535.00B	456.00B
Selenium	0.21U	0.24U	0.25UW	0.23UW	0.23UW
Silver	0.74U	1.00U	0.92U	0.97B	0.98U
Sodium	76.10B	3290.00	2400.00	3230.00	2970.00
Thallium	0.21U	0.24U	0.25U	0.23U	0.23U
Vanadium	3.00B	6.90B	6.20B	4.60B	5.40B
Zinc	19.50	7.40	6.70	6.10	6.10
Cyanide	1.40U	0.84U	0.80U	0.86U	0.82U

PROJECT Camp Lejeune
PREPARED BY [illegible]
DATE April 1991
CHECKED BY [illegible]
DATE 5-9-91

Doc No: CLEJ-00359-304-04/01/91

CAMP LEJEUNE - SITE 69
PESTICIDES IN SURFACE WATER
Concentration in ug/l

CHART = 69SWPEST

sy\wp8d\69-pest.wr1 (3)

PESTICIDE/PCB	69SW1	69SW4-1	69SW4-2	69SW5-2
alpha-BHC	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U

PROJECT Camp Lejeune
PREPARED BY Judy Gunn
DATE April 1991
CHECKED BY E.C. Kingsley
DATE 5/13/91
INITIALS

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
PESTICIDES IN SEDIMENT
Concentration in ug/kg

CHART = 69SEPEST

sy\wp8d\69-pest.wr1 (4)

PESTICIDE/PCB	69SE1	69SE4-1	69SE4-2	69SE5-1	69SE5-2
alpha-BHC	12U	12U	11U	12U	12U
beta-BHC	12U	12U	11U	12U	12U
delta-BHC	12U	12U	11U	12U	12U
gamma-BHC (Lindane)	12U	12U	11U	12U	12U
Heptachlor	12U	12U	11U	12U	12U
Aldrin	12U	12U	11U	12U	12U
Heptachlor epoxide	12U	12U	11U	12U	12U
Endosulfan I	12U	12U	11U	12U	12U
Dieldrin	24U	23U	22U	23U	23U
4,4'-DDE	24U	23U	22U	23U	23U
Endrin	24U	23U	22U	23U	23U
Endosulfan II	24U	23U	22U	23U	23U
4,4'-DDD	24U	23U	22U	23U	23U
Endosulfan sulfate	24U	23U	22U	23U	23U
4,4'-DDT	24U	23U	22U	23U	23U
Methoxychlor	120U	120U	110U	120U	120U
Endrin ketone	24U	23U	22U	23U	23U
alpha-Chlordane	120U	120U	110U	120U	120U
gamma-Chlordane	120U	120U	110U	120U	120U
Toxaphene	240U	230U	220U	230U	230U
Aroclor-1016	120U	120U	110U	120U	120U
Aroclor-1221	120U	120U	110U	120U	120U
Aroclor-1232	120U	120U	110U	120U	120U
Aroclor-1242	120U	120U	110U	120U	120U
Aroclor-1248	120U	120U	110U	120U	120U
Aroclor-1254	240U	230U	220U	230U	230U
Aroclor-1260	240U	230U	220U	230U	230U

PROJECT Camp Lejeune
PREPARED BY [illegible]
DATE [illegible] 1991
CHECKED BY [illegible]
DATE 5/8/91
COMMENTS

Doc No: CLEJ-06359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN SURFACE WATER
Concentration in ug/l

CHART = 69SWSVA

wp8c\69-sv.wr1 (3-A)

COMPOUND	69SW1	69SW4-1	69SW4-2	69SW5-2
Phenol	10.U	20.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	20.U	10.U	10.U
2-Chlorophenol	10.U	20.U	10.U	10.U
1,3-Dichlorobenzene	10.U	20.U	10.U	10.U
1,4-Dichlorobenzene	10.U	20.U	10.U	10.U
Benzyl Alcohol	10.U	20.U	10.U	10.U
1,2-Dichlorobenzene	10.U	20.U	10.U	10.U
2-Methylphenol	10.U	20.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	20.U	10.U	10.U
4-Methylphenol	10.U	20.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	20.U	10.U	10.U
Hexachloroethane	10.U	20.U	10.U	10.U
Nitrobenzene	10.U	20.U	10.U	10.U
Isophorone	10.U	20.U	10.U	10.U
2-Nitrophenol	10.U	20.U	10.U	10.U
2,4-Dimethylphenol	10.U	20.U	10.U	10.U
Benzoic acid	50.U	100.U	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	20.U	10.U	10.U
2,4-Dichlorophenol	10.U	20.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	20.U	10.U	10.U
Naphthalene	10.U	20.U	10.U	10.U
4-Chloroaniline	10.U	20.U	10.U	10.U
Hexachlorobutadiene	10.U	20.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	20.U	10.U	10.U
2-Methylnaphthalene	10.U	20.U	10.U	10.U
Hexachlorocyclopentadiene	10.U	20.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	20.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	100.U	50.U	50.U
2-Chloronaphthalene	10.U	20.U	10.U	10.U
2-Nitroaniline	50.U	100.U	50.U	50.U
Dimethylphthalate	10.U	20.U	10.U	10.U
Acenaphthylene	10.U	20.U	10.U	10.U
2,6-Dinitrotoluene	10.U	20.U	10.U	10.U

PROJECT Camp Lejeune
PREPARED BY Judy Lynn
DATE April 1991
CHECKED BY Mindy Barnes
DATE 5/12/91

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN SURFACE WATER
Concentration in ug/l

CHART = 69SWSVB wp8c\69-sv.wr1 (3-B)

COMPOUND	69SW1	69SW4-1	69SW4-2	69SW5-2
3-Nitroaniline	50.U	100.U	50.U	50.U
Acenaphthene	10.U	20.U	10.U	10.U
2,4-Dinitrophenol	50.U	100.U	50.U	50.U
4-Nitrophenol	50.U	100.U	50.U	50.U
Dibenzofuran	10.U	20.U	10.U	10.U
2,4-Dinitrotoluene	10.U	20.U	10.U	10.U
Diethylphthalate	10.U	20.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	20.U	10.U	10.U
Fluorene	10.U	20.U	10.U	10.U
4-Nitroaniline	50.U	100.U	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	100.U	50.U	50.U
N-Nitrosodiphenylamine	10.U	20.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	20.U	10.U	10.U
Hexachlorobenzene	10.U	20.U	10.U	10.U
Pentachlorophenol	50.U	100.U	50.U	50.U
Phenanthrene	10.U	20.U	10.U	10.U
Anthracene	10.U	20.U	10.U	10.U
Di-n-butylphthalate	10.U	20.U	10.U	10.U
Fluoranthene	10.U	20.U	10.U	10.U
Pyrene	10.U	20.U	10.U	10.U
Butylbenzylphthalate	10.U	20.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	40.U	20.U	20.U
Benzo(a)anthracene	10.U	20.U	10.U	10.U
Chrysene	10.U	20.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	20.U	10.U	10.U
Di-n-octylphthalate	10.U	20.U	10.U	10.U
Benzo(b)fluoranthene	10.U	20.U	10.U	10.U
Benzo(k)fluoranthene	10.U	20.U	10.U	10.U
Benzo(a)pyrene	10.U	20.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	20.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	20.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	20.U	10.U	10.U

PROJECT Camp Lejeune
PREPARED BY Judy Stuma
DATE April 1991
Mark Jensen
5/13/91

Doc No: CLEJ-06359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN SEDIMENT
Concentration in ug/kg

CHART = 69SESVA

wp8c\69-sv.wr1 (4-A)

COMPOUND	69SE1	69SE4-1	69SE4-2	69SE5-1	69SE5-2
Phenol	2400U	490U	450U	480U	480U
bis(2-Chloroethyl)ether	2400U	490U	450U	480U	480U
2-Chlorophenol	2400U	490U	450U	480U	480U
1,3-Dichlorobenzene	2400U	490U	450U	480U	480U
1,4-Dichlorobenzene	2400U	490U	450U	480U	480U
Benzyl Alcohol	2400U	490U	450U	480U	480U
1,2-Dichlorobenzene	2400U	490U	450U	480U	480U
2-Methylphenol	2400U	490U	450U	480U	480U
bis(2-Chloroisopropyl)ether	2400U	490U	450U	480U	480U
4-Methylphenol	2400U	490U	450U	55J	480U
N-Nitroso-di-n-propylamine	2400U	490U	450U	480U	480U
Hexachloroethane	2400U	490U	450U	480U	480U
Nitrobenzene	2400U	490U	450U	480U	480U
Isophorone	2400U	490U	450U	480U	480U
2-Nitrophenol	2400U	490U	450U	480U	480U
2,4-Dimethylphenol	2400U	490U	450U	480U	480U
Benzoic acid	12000U	2400U	2200U	2300U	2300U
bis(2-Chloroethoxy)methane	2400U	490U	450U	480U	480U
2,4-Dichlorophenol	2400U	490U	450U	480U	480U
1,2,4-Trichlorobenzene	2400U	490U	450U	480U	480U
Naphthalene	2400U	490U	450U	480U	480U
4-Chloroaniline	2400U	490U	450U	480U	480U
Hexachlorobutadiene	2400U	490U	450U	480U	480U
4-Chloro-3-methylphenol	2400U	490U	450U	480U	480U
2-Methylnaphthalene	2400U	490U	450U	480U	480U
Hexachlorocyclopentadiene	2400U	490U	450U	480U	480U
2,4,6-Trichlorophenol	2400U	490U	450U	480U	480U
2,4,5-Trichlorophenol	12000U	2400U	2200U	2300U	2300U
2-Chloronaphthalene	2400U	490U	450U	480U	480U
2-Nitroaniline	12000U	2400U	2200U	2300U	2300U
Dimethylphthalate	2400U	490U	450U	480U	480U
Acenaphthylene	2400U	490U	450U	480U	480U
2,6-Dinitrotoluene	2400U	490U	450U	480U	480U

PROJECT Camp Lejeune
PREPARED BY Judy Lyons
DATE April 1991
REVIEWED BY Ed Kugel
5/8/91

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN SEDIMENT
Concentration in ug/kg

CHART = 69SESVB wp8c\69-sv.wr1 (4-B)

COMPOUND	69SE1	69SE4-1	69SE4-2	69SE5-1	69SE5-2
3-Nitroaniline	12000U	2400U	2200U	2300U	2300U
Acenaphthene	2400U	490U	450U	480U	480U
2,4-Dinitrophenol	12000U	2400U	2200U	2300U	2300U
4-Nitrophenol	12000U	2400U	2200U	2300U	2300U
Dibenzofuran	2400U	490U	450U	480U	480U
2,4-Dinitrotoluene	2400U	490U	450U	480U	480U
Diethylphthalate	2400U	490U	450U	480U	480U
4-Chlorophenyl-phenylether	2400U	490U	450U	480U	480U
Fluorene	2400U	490U	450U	480U	480U
4-Nitroaniline	12000U	2400U	2200U	2300U	2300U
4,6-Dinitro-2-methylphenol	12000U	2400U	2200U	2300U	2300U
N-Nitrosodiphenylamine	2400U	490U	450U	480U	480U
4-Bromophenyl-phenylether	2400U	490U	450U	480U	480U
Hexachlorobenzene	2400U	490U	450U	480U	480U
Pentachlorophenol	12000U	2400U	2200U	2300U	2300U
Phenanthrene	2400U	490U	450U	480U	480U
Anthracene	2400U	490U	450U	480U	480U
Di-n-butylphthalate	2400U	490U	450U	480U	480U
Fluoranthene	2400U	490U	450U	480U	480U
Pyrene	2400U	490U	450U	480U	480U
Butylbenzylphthalate	2400U	490U	450U	480U	480U
3,3'-Dichlorobenzidine	4900U	970U	900U	960U	960U
Benzo(a)anthracene	2400U	490U	450U	480U	480U
Chrysene	2400U	490U	450U	480U	480U
bis(2-Ethylhexyl)phthalate	2400U	490U	450U	480U	480U
Di-n-octylphthalate	2400U	490U	450U	480U	480U
Benzo(b)fluoranthene	2400U	490U	450U	480U	480U
Benzo(k)fluoranthene	2400U	490U	450U	480U	480U
Benzo(a)pyrene	2400U	490U	450U	480U	480U
Indeno(1,2,3-cd)pyrene	2400U	490U	450U	480U	480U
Dibenz(a,h)anthracene	2400U	490U	450U	480U	480U
Benzo(g,h,i)perylene	2400U	490U	450U	480U	480U

Doc No: CLEJ-06359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
VOLATILE ORGANIC COMPOUNDS IN SURFACE WATER
Concentration in ug/l

CHART = 69VOLSW

wp8b\69-vol.wr1 (3)

COMPOUND	69SW1	69SW4-1	69SW4-2	69SW5-2
Chloromethane	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U
Vinyl Chloride	15.	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U
Methylene Chloride	5.U	1.BJ	2.J	5.U
Acetone	22.	7.J	10.U	10.U
Carbon Disulfide	28.	5.U	5.U	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	190.	5.U	5.U	5.U
Chloroform	3.J	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U
Trichloroethene	7.	5.U	5.U	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.	5.U	5.U	5.U
Toluene	2.J	5.U	5.U	5.U
Chlorobenzene	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U
Styrene	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U

PROJECT Camp Lejeune
PREPARED BY Paul M. Fenberg
DATE April 1991
CHECKED BY Judy Luna
DATE 5-10-91

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
VOLATILE ORGANIC COMPOUNDS IN SEDIMENT
Concentration in ug/kg

CHART = 69VOLSE wp8b\69-vol.wr1 (4)

COMPOUND	69SE4-1	69SE4-2	69SE5-1	69SE5-2
Chloromethane	15U	14U	14U	14U
Bromomethane	15U	14U	14U	14U
Vinyl Chloride	15U	14U	14U	14U
Chloroethane	15U	14U	14U	14U
Methylene Chloride	3BJ	2BJ	2BJ	2BJ
Acetone	490BE	820BE	23B	30B
Carbon Disulfide	7U	7U	7U	7U
1,1-Dichloroethene	7U	7U	7U	7U
1,1-Dichloroethane	7U	7U	7U	7U
1,2-Dichloroethene (total)	7U	7U	7U	7U
Chloroform	7U	7U	7U	7U
1,2-Dichloroethane	7U	7U	7U	7U
2-Butanone	15U	14U	14U	14U
1,1,1-Trichloroethane	7U	7U	7U	7U
Carbon Tetrachloride	7U	7U	7U	7U
Vinyl Acetate	15U	14U	14U	14U
Bromodichloromethane	7U	7U	7U	7U
1,2-Dichloropropane	7U	7U	7U	7U
cis-1,3-Dichloropropene	7U	7U	7U	7U
Trichloroethene	7U	7U	7U	7U
Dibromochloromethane	7U	7U	7U	7U
1,1,2-Trichloroethane	7U	7U	7U	7U
Benzene	7U	7U	7U	7U
trans-1,3-Dichloropropene	7U	7U	7U	7U
Bromoform	7U	7U	7U	7U
4-Methyl-2-Pentanone	15U	14U	14U	14U
2-Hexanone	15U	14U	14U	14U
Tetrachloroethene	7U	7U	7U	7U
1,1,2,2-Tetrachloroethane	7U	7U	7U	7U
Toluene	7U	7U	7U	7U
Chlorobenzene	7U	7U	7U	7U
Ethylbenzene	7U	7U	7U	7U
Styrene	7U	7U	7U	7U
Xylene (total)	7U	7U	7U	7U

PROJECT Camp Lejeune
PREPARED BY Paul M. Fulton
DATE April 1991
CHECKED BY Judy Gunn
DATE 5-10-91

Doc No: CLEJ-00359-304-04/01/91

CAMP LEJEUNE - SITE 69
INORGANICS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 69GWING1 wp1e\69-inor.wr1 (1)

METAL/COMPOUND	69GW1	69GW2	69GW3	69GW4	69GW5	69GW6
Aluminum	2300	19900	28900	43800	33700	2520
Antimony	13.3U	68.5	13.3U	13.3U	13.3U	13.3U
Arsenic	4.6B	1.5U	11.4	3.5B	7.4B	3.8B
Barium	54.5B	63.0B	70.8B	77.0B	153B	46.5B
Beryllium	1.9B	1.2B	0.94B	0.50U	3.0B	0.85B
Cadmium	4.3U	4.3U	4.3U	4.3U	4.3U	4.3U
Calcium	4340B	7670	4560B	2500B	8330	3330B
Chromium	5.3B	46.6	36.4	47.6	42.3	9.7B
Cobalt	6.0U	6.0U	9.7B	8.6B	6.0U	6.0U
Copper	3.3B	13.5B	14.6B	12.7B	27.5	12.8B
Iron	7740	792000	51900	59000	39600	10900
Lead	2.6B	14.6	22.6M	14.0	23.9	3.4
Magnesium	2350B	2030B	2390B	1970B	4510B	2390B
Manganese	67.5	99.6	193	207	230	68.1
Mercury	0.10U	0.10U	0.10U	0.10U	0.10U	0.10U
Nickel	5.2U	5.2U	15.4B	12.5B	27.6B	19.0B
Potassium	2120B	1900B	4190B	3050B	3430B	1450B
Selenium	3.4U	3.4U	3.4U	3.4U	3.4U	3.4U
Silver	1.7B	13.9	1.8B	6.5B	1.6B	1.6U
Sodium	10400	18900	8530	6840	6000	8830
Thallium	5.2B	4.9B	4.4U	4.4U	4.4U	4.4U
Vanadium	6.1B	2240	53.6	65.3	57.8	6.5B
Zinc	67.3	143	3710	10200	155	101
Cyanide	10.0U	11.2	10.0U	10.0U	10.0U	10.0U

PREPARED BY [illegible] DATE [illegible]
CHECKED BY [illegible] DATE 5-4-91
COMMENTS

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
INORGANICS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 69GWING2 wp1e\69-inor.wr1 (2)

METAL/COMPOUND	69GW7	69GW8	69GW8D (GWDUP6)
Aluminum	4510	24100	20.7U
Antimony	13.3U	13.3U	13.3U
Arsenic	2.8B	1.5U	1.8B
Barium	36.6B	188B	2.8B
Beryllium	0.91B	1.3B	0.97B
Cadmium	4.3U	4.3U	4.3U
Calcium	4300B	7460	15.6B
Chromium	12.1	22.1	1.5U
Cobalt	6.0U	6.0U	6.0U
Copper	4.9B	7.4B	3.2U
Iron	9380	10700	63.1B
Lead	6.2	20.4	16.4
Magnesium	2190B	3100B	12.0U
Manganese	14.6B	168	2.0B
Mercury	0.10U	0.10U	0.10U
Nickel	5.2U	5.7B	5.2U
Potassium	1750B	2510B	343U
Selenium	3.4U	3.4U	3.4U
Silver	4.5B	2.4B	235
Sodium	5750	4880B	6.8U
Thallium	4.4U	4.4U	4.4U
Vanadium	10.3B	25.6B	2.4U
Zinc	51.8	53.2	11.3B
Cyanide	10.0U	10.0U	10.0U

PROJECT Camp Lejeune
PREPARED BY Judy Lynn
DATE April 1991
CHECKED BY Ed Pryor
DATE 5/14/91
COMMENTS

Doc No: CLEJ-06359-3.01-04/01/91

CAMP LEJEUNE - SITE 69
PESTICIDES IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 69GWPES1 sy\wp8d\69-pest.wr1 (1)

PESTICIDE/PCB	69GW1	69GW2	69GW3	69GW4	69GW5	69GW6
alpha-BHC	.05U	.05U	.12	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

Doc No: CLEJ-06359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
PESTICIDES IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 69GWPES2 sy\wp8d\69-pest.wr1 (2)

PESTICIDE/PCB	69GW7	69GW8	69GW8D (GWDUP6)
alpha-BHC	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U
Endrin	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U

PROJECT Camp Lejeune
PREPARED BY [illegible]
DATE 5-13-91
CHECKED BY Judy Guma
DATE 5-13-91

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69

SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)

Concentration in ug/l

CHART = 69GWSV1A

wp8c\69-sv.wr1 (1-A)

COMPOUND	69GW1	69GW2	69GW3	69GW4	69GW5	69GW6
Phenol	10.U	10.U	10.U	10.U	11.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	10.U	11.U	10.U
2-Chlorophenol	10.U	10.U	10.U	10.U	11.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U	10.U	11.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U	10.U	11.U	10.U
Benzyl Alcohol	10.U	10.U	10.U	10.U	11.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U	10.U	11.U	10.U
2-Methylphenol	10.U	10.U	10.U	10.U	11.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	10.U	11.U	10.U
4-Methylphenol	10.U	10.U	10.U	10.U	11.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	10.U	11.U	10.U
Hexachloroethane	10.U	10.U	10.U	10.U	11.U	10.U
Nitrobenzene	10.U	10.U	10.U	10.U	11.U	10.U
Isophorone	10.U	10.U	10.U	10.U	11.U	10.U
2-Nitrophenol	10.U	10.U	10.U	10.U	11.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U	10.U	11.U	10.U
Benzoic acid	50.U	50.U	50.U	50.U	54.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U	10.U	11.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U	10.U	11.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	10.U	11.U	10.U
Naphthalene	10.U	10.U	10.U	10.U	11.U	10.U
4-Chloroaniline	10.U	10.U	10.U	10.U	11.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U	10.U	11.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U	10.U	11.U	10.U
2-Methylnaphthalene	10.U	10.U	10.U	10.U	11.U	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U	10.U	11.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U	10.U	11.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U	50.U	54.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U	10.U	11.U	10.U
2-Nitroaniline	50.U	50.U	50.U	50.U	54.U	50.U
Dimethylphthalate	10.U	10.U	10.U	10.U	11.U	10.U
Acenaphthylene	10.U	10.U	10.U	10.U	11.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U	10.U	11.U	10.U

PROJECT Camp Lejeune

PREPARED BY [illegible]

DATE April 1991

CHECKED BY [illegible]

DATE 5/1/91

COMMENTS

Doc No: CLEJ-06359-3.04-04/01/91

CAMP LEJEUNE - SITE 69

SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)

Concentration in ug/l

CHART = 69GWSV1B

wp8c\69-sv.wr1 (1-B)

COMPOUND	69GW1	69GW2	69GW3	69GW4	69GW5	69GW6
3-Nitroaniline	50.U	50.U	50.U	50.U	54.U	50.U
Acenaphthene	10.U	10.U	10.U	10.U	11.U	10.U
2,4-Dinitrophenol	50.U	50.U	50.U	50.U	54.U	50.U
4-Nitrophenol	50.U	50.U	50.U	50.U	54.U	50.U
Dibenzofuran	10.U	10.U	10.U	10.U	11.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U	10.U	11.U	10.U
Diethylphthalate	10.U	10.U	10.U	10.U	11.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	10.U	11.U	10.U
Fluorene	10.U	10.U	10.U	10.U	11.U	10.U
4-Nitroaniline	50.U	50.U	50.U	50.U	54.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	50.U	54.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U	10.U	11.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U	10.U	11.U	10.U
Hexachlorobenzene	10.U	10.U	10.U	10.U	11.U	10.U
Pentachlorophenol	50.U	50.U	50.U	50.U	54.U	50.U
Phenanthrene	10.U	10.U	10.U	10.U	11.U	10.U
Anthracene	10.U	10.U	10.U	10.U	11.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U	10.U	11.U	10.U
Fluoranthene	10.U	10.U	10.U	10.U	11.U	10.U
Pyrene	10.U	10.U	10.U	10.U	11.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U	10.U	11.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	20.U	21.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U	10.U	11.U	10.U
Chrysene	10.U	10.U	10.U	10.U	11.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	10.U	10.U	10.U	11.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U	10.U	11.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U	10.U	11.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U	10.U	11.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U	10.U	11.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	10.U	11.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U	10.U	11.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U	10.U	11.U	10.U

PROJECT Camp Lejeune

PREPARED BY [illegible]

DATE April 1991

CHECKED BY [illegible]

DATE [illegible]

COMMENTS

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69

SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)

Concentration in ug/l

CHART = 69GWSV2A

wp8c\69-sv.wr1 (2-A)

COMPOUND	69GW7	69GW8	69GW8D (GWDUP6)
Phenol	10.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U
2-Chlorophenol	10.U	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U
Benzyl Alcohol	10.U	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U
2-Methylphenol	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U
4-Methylphenol	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U
Hexachloroethane	10.U	10.U	10.U
Nitrobenzene	10.U	10.U	10.U
Isophorone	10.U	10.U	10.U
2-Nitrophenol	10.U	10.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U
Benzoic acid	50.U	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U
Naphthalene	10.U	10.U	10.U
4-Chloroaniline	10.U	10.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U
2-Methylnaphthalene	10.U	10.U	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U
2-Nitroaniline	50.U	50.U	50.U
Dimethylphthalate	10.U	10.U	10.U
Acenaphthylene	10.U	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U

PROJECT Camp Lejeune

PREPARED BY Judy Yuma

DATE April 1991

CHECKED BY [illegible]

DATE 5-8-91

COMMENTS

Doc No: CLEJ-00359-3 04-09/01/91

CAMP LEJEUNE - SITE 69

SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)

Concentration in ug/l

CHART = 69GWSV2B

wp8c\69-sv.wr1 (2-B)

COMPOUND	69GW7	69GW8	69GW8D (GWDUP6)
3-Nitroaniline	50.U	50.U	50.U
Acenaphthene	10.U	10.U	10.U
2,4-Dinitrophenol	50.U	50.U	50.U
4-Nitrophenol	50.U	50.U	50.U
Dibenzofuran	10.U	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U
Diethylphthalate	10.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U
Fluorene	10.U	10.U	10.U
4-Nitroaniline	50.U	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U
Hexachlorobenzene	10.U	10.U	10.U
Pentachlorophenol	50.U	50.U	50.U
Phenanthrene	10.U	10.U	10.U
Anthracene	10.U	10.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U
Fluoranthene	10.U	10.U	10.U
Pyrene	10.U	10.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U
Chrysene	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	10.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U

PROJECT Camp Lejeune
PREPARED BY Judy Hurra
DATE April 1991
CHECKED BY
DATE 5-6-91
COMMENTS

Doc No: CLEJ-06359-304-04/01/91

CAMP LEJEUNE - SITE 69

VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)

Concentration in ug/l

CHART = 69GWVOL1 wp8b\69-vol.wr1 (1)

COMPOUND	69GW1	69GW2	69GW3	69GW4	69GW5	69GW6
Chloromethane	10.U	10.U	10.U	16.	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	36.	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	5.U	4.J	2.J	5.U	1.BJ	5.U
Acetone	10.U	10.U	10.U	15.	4.J	10.U
Carbon Disulfide	7.	5.J	3.J	5.	8.	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	1.J	5.U	5.U
1,2-Dichloroethene (total)	5.U	11000.D	220.	.9J	5.U	70.
Chloroform	5.U	5.U	5.U	1.J	5.U	5.U
1,2-Dichloroethane	5.U	3.J	5.U	4.J	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	1.J	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U
Trichloroethene	5.U	67.	5.U	5.U	5.U	92.
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	.6J	5.U	.8J	5.U	5.U
Benzene	5.U	.9J	2.J	1.J	3.J	.4J
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	2.J	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	7.	5.U	5.U	5.U	5.U
Toluene	5.U	3.J	5.	2.J	3.J	5.U
Chlorobenzene	5.U	5.U	40.	1.J	5.U	5.U
Ethylbenzene	5.U	5.U	2.J	1.J	5.U	5.U
Styrene	5.U	5.U	5.U	.8J	5.U	5.U
Xylene (total)	5.U	1.J	5.U	5.U	2.J	5.U

PROJECT Camp Lejeune

PREPARED BY [illegible] DATE April 1991

CHECKED BY [illegible] DATE 5-8-91

COMMENTS 5/14/91 (EK)

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69

VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)

Concentration in ug/l

CHART = 69GWVOL2 wp8b\69-vol.wr1 (2)

COMPOUND	69GW7	69GW8	69GW8D (GWDUP6)
Chloromethane	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U
Methylene Chloride	2.J	5.U	2.J
Acetone	10.U	10.U	10.U
Carbon Disulfide	5.U	4.J	9.
1,1-Dichloroethene	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	5.U	5.U
Chloroform	5.U	1.J	5.U
1,2-Dichloroethane	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U
Trichloroethene	5.U	5.U	5.U
Dibromochloromethane	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U
Benzene	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U
Toluene	5.U	5.U	5.U
Chlorobenzene	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U
Styrene	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U

PROJECT Camp Lejeune

PREPARED BY E.C. Kupfel

DATE April 1991

CHECKED BY Judy Luna

DATE 5-7-91

Doc No: CLES-06359-304-04/01/91

CAMP LEJEUNE - SITE 69
VOLATILE ORGANIC COMPOUNDS IN REFEREE QA/QC SAMPLES
Concentration in ug/l (Groundwater and Surface Water)
Concentration in ug/kg (Sediment)

CHART = QAQCREFV (page 1 of 2) wp8b\qos-vol.wr1 (4-A)

COMPOUND	69RGW2	69RSW1	69RSE1
Chloromethane	10.U	10.U	66.U
Bromomethane	10.U	10.U	66.U
Vinyl Chloride	53.	10.U	66.U
Chloroethane	10.U	10.U	66.U
Methylene Chloride	3.JB	5.JB	39.B
Trichlorofluoromethane	5.U	5.U	33.U
Acetone	10.U	13	65.J
Carbon Disulfide	2.J	200.D	33.U
1,1-Dichloroethene	5.U	5.U	33.U
1,1-Dichloroethane	5.U	5.U	33.U
1,2-Dichloroethene (total)	5200.D	23.	33.U
Chloroform	5.U	6.J	3.J
1,2-Dichloroethane	4.J	5.U	33.U
2-Butanone	10.U	10.U	66.U
1,1,1-Trichloroethane	5.U	5.U	33.U
Carbon Tetrachloride	5.U	5.U	33.U
Vinyl Acetate	10.U	5.U	33.U
Bromodichloromethane	5.U	5.U	33.U
1,2-Dichloropropane	5.U	5.U	33.U
cis-1,3-Dichloropropene	5.U	5.U	33.U
Trichloroethene	99.	5.U	33.U
Dibromochloromethane	5.U	5.U	33.U
1,1,2-Trichloroethane	5.U	5.U	33.U
Benzene	.8J	5.U	33.U
trans-1,3-Dichloropropene	5.U	5.U	33.U
2-Chloroethylvinylether	10.U	10.U	66.U
Bromoform	5.U	5.U	33.U
4-Methyl-2-Pentanone	10.U	10.U	66.U
2-Hexanone	10.U	10.U	66.U
Tetrachloroethene	4.J	5.U	33.U
1,1,2,2-Tetrachloroethane	6.	5.U	33.U
Toluene	5.U	5.U	33.U
Chlorobenzene	5.U	5.U	33.U

PROJECT Camp Lejeune
PREPARED BY Judy Zuzza
DATE May 1991
CHECKED BY Ed Kupbel
DATE 5/14/91

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
VOLATILE ORGANIC COMPOUNDS IN REFEREE QA/QC SAMPLES
Concentration in ug/l (Groundwater and Surface Water)
Concentration in ug/kg (Sediment)

wp8b\qos-vol.wr1 (4-B)

CHART = QAQCREFV (page 2 of 2)

COMPOUND	69RGW2	69RSW1	69RSE1
Ethylbenzene	5.U	5.U	33.U
Styrene	5.U	5.U	33.U
Xylene (total)	5.U	5.U	33.U
1,3-Dichlorobenzene	5.U	5.U	33.U
1,2 & 1,4-Dichlorobenzene	5.U	5.U	33.U

NOTE: PRELIMINARY RESULTS

PROJECT Camp Lejeune
PREPARED BY Judy Thomas
DATE May 1, 1991
CHECKED BY Ed Knybel
DATE 5/14/91

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN REFEREE QA/QC SAMPLES
Concentration in ug/l (Groundwater and Surface Water)
Concentration in ug/kg (Sediment)

CHART = QAQCREFSVA

wp8c\qos-sv.wr1' (3-A)

COMPOUND	69RGW2	69RSW1	69RSE1
N-Nitrosodimethylamine	10.U	10.U	4500.UD
Phenol	10.U	10.U	4500.UD
bis(2-Chloroethyl)ether	10.U	10.U	4500.UD
2-Chlorophenol	10.U	10.U	4500.UD
1,3-Dichlorobenzene	10.U	10.U	4500.UD
1,4-Dichlorobenzene	10.U	10.U	4500.UD
Benzyl Alcohol	10.U	10.U	4500.UD
1,2-Dichlorobenzene	10.U	10.U	4500.UD
2-Methylphenol	10.U	10.U	4500.UD
bis(2-Chloroisopropyl)ether	10.U	10.U	4500.UD
4-Methylphenol	10.U	10.U	4500.UD
N-Nitroso-di-n-propylamine	10.U	10.U	4500.UD
Hexachloroethane	10.U	10.U	4500.UD
Nitrobenzene	10.U	10.U	4500.UD
Isophorone	10.U	10.U	4500.UD
2-Nitrophenol	10.U	10.U	4500.UD
2,4-Dimethylphenol	10.U	10.U	4500.UD
Benzoic acid	50.U	50.U	23000.UD
bis(2-Chloroethoxy)methane	10.U	10.U	4500.UD
2,4-Dichlorophenol	10.U	10.U	4500.UD
1,2,4-Trichlorobenzene	10.U	10.U	4500.UD
Naphthalene	10.U	10.U	4500.UD
4-Chloroaniline	10.U	10.U	4500.UD
Hexachlorobutadiene	10.U	10.U	4500.UD
4-Chloro-3-methylphenol	10.U	10.U	4500.UD
2-Methylnaphthalene	10.U	10.U	4500.UD
Hexachlorocyclopentadiene	10.U	10.U	4500.UD
2,4,6-Trichlorophenol	10.U	10.U	4500.UD
2,4,5-Trichlorophenol	50.U	50.U	23000.UD
2-Chloronaphthalene	10.U	10.U	4500.UD
2-Nitroaniline	50.U	50.U	23000.UD
Dimethylphthalate	10.U	10.U	4500.UD
Acenaphthylene	10.U	10.U	4500.UD

PROJECT Camp Lejeune
PREPARED BY Judy Gurna
DATE May 1991
CHECKED BY El Kryzel
DATE 5/14/91

Note: Preliminary Results

Doc No.: CLEJ-06359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN REFEREE QA/QC SAMPLES
Concentration in ug/l (Groundwater and Surface Water)
Concentration in ug/kg (Sediment)

CHART = QAQCREFSVB wp8c\qos-sv.wr1 (3-B)

COMPOUND	69RGW2	69RSW1	69RSE1
2,6-Dinitrotoluene	10.U	10.U	4500.UD
3-Nitroaniline	50.U	50.U	23000.UD
Acenaphthene	10.U	10.U	4500.UD
2,4-Dinitrophenol	50.U	50.U	23000.UD
4-Nitrophenol	50.U	50.U	23000.UD
Dibenzofuran	10.U	10.U	4500.UD
2,4-Dinitrotoluene	10.U	10.U	4500.UD
Diethylphthalate	10.U	10.U	4500.UD
4-Chlorophenyl-phenylether	10.U	10.U	4500.UD
Fluorene	10.U	10.U	4500.UD
4-Nitroaniline	50.U	50.U	23000.UD
4,6-Dinitro-2-methylphenol	50.U	50.U	23000.UD
N-Nitrosodiphenylamine	10.U	10.U	4500.UD
4-Bromophenyl-phenylether	10.U	10.U	4500.UD
Hexachlorobenzene	10.U	10.U	4500.UD
Pentachlorophenol	50.U	50.U	23000.UD
Phenanthrene	10.U	10.U	4500.UD
Anthracene	10.U	10.U	4500.UD
Di-n-butylphthalate	10.U	10.U	4500.UD
Fluoranthene	10.U	10.U	4500.UD
Pyrene	10.U	10.U	4500.UD
Butylbenzylphthalate	10.U	10.U	4500.UD
3,3'-Dichlorobenzidine	20.U	20.U	9000.UD
Benzo(a)anthracene	10.U	10.U	4500.UD
Chrysene	10.U	10.U	4500.UD
bis(2-Ethylhexyl)phthalate	10.U	2JB	460.JBD
Di-n-octylphthalate	10.U	10.U	4500.UD
Benzo(b)fluoranthene	10.U	10.U	4500.UD
Benzo(k)fluoranthene	10.U	10.U	4500.UD
Benzo(a)pyrene	10.U	10.U	4500.UD
Indeno(1,2,3-cd)pyrene	10.U	10.U	4500.UD
Dibenz(a,h)anthracene	10.U	10.U	4500.UD
Benzo(g,h,i)perylene	10.U	10.U	4500.UD

N : Preliminary Results

PROJECT Camp Lejeune
PREPARED BY Judy Gunn
DATE May 1991
CHECKED BY E.O. Knapp
DATE 5/14/91

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
PESTICIDES IN REFEREE QA/QC SAMPLES
Concentration in ug/l (Groundwater and Surface Water)
Concentration in ug/kg (Sediment)

CHART = QAQCREFP

sy\wp8d\qos-pest.wr1 (3)

PESTICIDE/PCB	69RGW2	69RSW1	69RSE1
alpha-BHC	.05U	.05U	11U
beta-BHC	.05U	.05U	11U
delta-BHC	.05U	.05U	11U
gamma-BHC (Lindane)	.05U	.05U	11U
Heptachlor	.05U	.05U	11U
Aldrin	.05U	.05U	11U
Heptachlor epoxide	.05U	.05U	11U
Endosulfan I	.05U	.05U	11U
Dieldrin	.10U	.10U	22U
4,4'-DDE	.10U	.10U	22U
Endrin	.10U	.10U	22U
Endosulfan II	.10U	.10U	22U
4,4'-DDD	.10U	.10U	22U
Endosulfan sulfate	.10U	.10U	22U
4,4'-DDT	.10U	.10U	22U
Methoxychlor	.50U	.50U	110U
Endrin ketone	.10U	.10U	22U
alpha-Chlordane	.50U	.50U	110U
gamma-Chlordane	.50U	.50U	110U
Toxaphene	1.0U	1.0U	220U
Aroclor-1016	.50U	.50U	110U
Aroclor-1221	.50U	.50U	110U
Aroclor-1232	.50U	.50U	110U
Aroclor-1242	.50U	.50U	110U
Aroclor-1248	.50U	.50U	110U
Aroclor-1254	1.0U	1.0U	220U
Aroclor-1260	1.0U	1.0U	220U

PROJECT Camp Lejeune
PREPARED BY Judy Kumm
DATE May 1991
CHECKED BY El Knypel
DATE 5/14/91
COMMENTS

NOTE: PRELIMINARY RESULTS

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE QA/QC - SITES 48, & 69
INORGANICS IN REFEREE QA/QC SAMPLES
Concentration in ug/l (Groundwater and Surface Water)
Concentration in mg/kg (Sediments)

CHART = QAQCREF1 wp8e\qos-inor.wr1 (3)

METAL/COMPOUND	69RGW2	69RSW1	69RSE1	48RSW2	48RSE2
Aluminum	2100	570	1200	480	2100
Antimony	<25U	<25U	<2.5U	<25U	<2.5U
Arsenic	<2U	<2U	0.2	<2U	0.9
Barium	<200U	<200U	<20U	<200U	<20U
Beryllium	<0.5U	<0.5U	<0.05U	<0.5U	0.06
Cadmium	<2.0U	<2.0U	<0.2U	<2.0U	<0.2U
Calcium	7700	2900	<50U	12,000	480
Chromium	35.0	<2.0U	2.3	2.0	4.5
Cobalt	<2.0U	2.0	<0.2U	<2.0U	0.3NW
Copper	191	<25U	3.2	<25U	7.0
Iron	1,042,000	4200	650	1380	56000
Lead	22.0	<2.0U	2.4	<2.0U	7.2
Magnesium	2000	540	<50U	8000	600
Manganese	80	190	2.2	35.0	5.2
Mercury	<0.2U	<0.2U	<0.07U	<0.2U	<0.07U
Nickel	<10.0U	<10.0U	<1.0U	<10.0U	<1.0U
Potassium	1600	750	<50.0U	32,000U	340
Selenium	<2.0US	<2.0US	<0.2US	<0.01UNS	<0.2UNS
Silver	<2.0UW	<2.0U	<0.2U	2N	<0.2UN
Sodium	18,200	8600	<50.0U	2,600,000U	7180
Thallium	<2.0U	<2.0U	<0.2U	<10.0US	<0.2U
Vanadium	180	<10.0U	2.0	<10.0U	5.3NS
Zinc	130	1800	9.0	<20.0U	23.0
Cyanide	<5U		<.25U		

PROJECT Camp Lejeune
PREPARED BY Judy Yuncka
DATE April 1991
CHECKED BY [illegible]
DATE 5/7/91

Note: Preliminary Results

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
VOLATILE ORGANIC COMPOUNDS IN EPA WATER SPIKE SAMPLES
Concentration in ug/kg

CHART = EPAVOL wp8b\69-vol.wr1 (5)

COMPOUND	(=EPA-1) 69WSP01	(=EPA-2) 69WSP02
Chloromethane	10.U	33.
Bromomethane	10.U	36.
Vinyl Chloride	10.U	10.U
Chloroethane	10.U	10.U
Methylene Chloride	5.U	5.U
Acetone	3.BJ	10.U
Carbon Disulfide	5.U	5.U
1,1-Dichloroethene	5.U	25.
1,1-Dichloroethane	5.U	40.
1,2-Dichloroethene (total)	5.U	5.U
Chloroform	5.U	35.
1,2-Dichloroethane	5.U	5.U
2-Butanone	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U
Carbon Tetrachloride	5.U	29.
Vinyl Acetate	10.U	10.U
Bromodichloromethane	5.U	5.U
1,2-Dichloropropane	5.U	34.
cis-1,3-Dichloropropene	5.U	5.U
Trichloroethene	5.U	33.
Dibromochloromethane	5.U	5.U
1,1,2-Trichloroethane	5.U	82.
Benzene	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U
Bromoform	5.U	31.
4-Methyl-2-Pentanone	10.U	10.U
2-Hexanone	10.U	10.U
Tetrachloroethene	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	32.
Toluene	5.U	5.U
Chlorobenzene	5.U	36.
Ethylbenzene	5.U	5.U
Styrene	5.U	5.U
Xylene (total)	5.U	5.U

PROJECT Camp Lejeune
PREPARED BY [illegible]
DATE April 1991
CHECKED BY Judy Grum
DATE 5-13-91
COMMENTS

Doc No: CLEJ-00359-304-04/01/91

CAMP LEJEUNE - SITE 69

SEMI-VOLATILE ORGANIC COMPOUNDS IN EPA WATER SPIKE SAMPLES

Concentration in ug/l

CHART = EPASVA wp8c\69-sv.wr1 (6-A)

COMPOUND	(=EPA-1) 69WSP01	(=EPA-2) 69WSP02
Phenol	10.U	34.
bis(2-Chloroethyl)ether	10.U	10.U
2-Chlorophenol	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U
Benzyl Alcohol	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U
2-Methylphenol	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U
4-Methylphenol	10.U	52.
N-Nitroso-di-n-propylamine	10.U	10.U
Hexachloroethane	10.U	10.U
Nitrobenzene	10.U	47.
Isophorone	10.U	10.U
2-Nitrophenol	10.U	10.U
2,4-Dimethylphenol	10.U	10.U
Benzoic acid	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U
2,4-Dichlorophenol	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U
Naphthalene	10.U	42.
4-Chloroaniline	10.U	32.
Hexachlorobutadiene	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U
2-Methylnaphthalene	10.U	44.
Hexachlorocyclopentadiene	10.U	10.U
2,4,6-Trichlorophenol	10.U	92.
2,4,5-Trichlorophenol	50.U	50.U
2-Chloronaphthalene	10.U	10.U
2-Nitroaniline	50.U	50.U
Dimethylphthalate	10.U	10.U
Acenaphthylene	10.U	43.
2,6-Dinitrotoluene	10.U	40.

PROJECT Camp Lejeune

PREPARED BY Paul M Sanders

DATE 5/12/91

CHECKED BY E.C. Kuffner

DATE 5/14/91

COMMENTS

Doc No: CLE3-00359-304-04/01/91

CAMP LEJEUNE - SITE 69

SEMI-VOLATILE ORGANIC COMPOUNDS IN EPA WATER SPIKE SAMPLES

Concentration in ug/l

CHART = EPASVB

wp8c\69-sv.wr1 (6-B)

COMPOUND	(=EPA-1) 69WSP01	(=EPA-2) 69WSP02
3-Nitroaniline	50.U	50.U
Acenaphthene	10.U	4.J
2,4-Dinitrophenol	50.U	46.J
4-Nitrophenol	50.U	50.U
Dibenzofuran	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U
Diethylphthalate	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U
Fluorene	10.U	10.U
4-Nitroaniline	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U
Hexachlorobenzene	10.U	10.U
Pentachlorophenol	50.U	91.
Phenanthrene	10.U	10.U
Anthracene	10.U	39.
Di-n-butylphthalate	10.U	47.
Fluoranthene	10.U	41.
Pyrene	10.U	10.U
Butylbenzylphthalate	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U
Benzo(a)anthracene	10.U	10.U
Chrysene	10.U	17.
bis(2-Ethylhexyl)phthalate	28.	10.U
Di-n-octylphthalate	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U
Benzo(a)pyrene	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U

Doc No : CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITE 69
PESTICIDES IN EPA WATER SPIKE SAMPLES
Concentration in ug/l

CHART = EPAPEST sy\wp8d\69-pest.wr1 (6)

PESTICIDE/PCB	(=EPA-1) 69WSP01	(=EPA-2) 69WSP02
alpha-BHC	.05U	.46
beta-BHC	.05U	.05U
delta-BHC	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U
Heptachlor	.05U	.53
Aldrin	.05U	.05U
Heptachlor epoxide	.05U	.05U
Endosulfan I	.05U	.05U
Dieldrin	.10U	.10U
4,4'-DDE	.10U	.89
Endrin	.10U	.10U
Endosulfan II	.10U	.10U
4,4'-DDD	.10U	.91
Endosulfan sulfate	.10U	.10U
4,4'-DDT	.10U	1.0
Methoxychlor	.50U	.50U
Endrin ketone	.10U	.10U
alpha-Chlordane	.50U	.50U
gamma-Chlordane	.50U	.50U
Toxaphene	1.0U	1.0U
Aroclor-1016	.50U	.50U
Aroclor-1221	.50U	.50U
Aroclor-1232	.50U	.50U
Aroclor-1242	.50U	.50U
Aroclor-1248	.50U	.50U
Aroclor-1254	1.0U	1.0U
Aroclor-1260	1.0U	1.0U

PROJECT Camp Lejeune
PREPARED BY Judy Huma
DATE April 1991
CHECKED BY Ed Knybel
DATE 5/14/91
COMMENTS

Doc No: CLEJ-00359-304-04/01/91

CAMP LEJEUNE - SITE 69
INORGANICS IN EPA WATER SPIKE SAMPLES
Concentration in ug/l

CHART = EPAING wp1e\69-inor.wr1 (6)

METAL/COMPOUND	(=EPA-1) 69WSP01	(=EPA-2) 69WSP02
Aluminum	20.7U	979
Antimony	13.3U	193
Arsenic	1.5U	12.0
Barium	4.3B	198B
Beryllium	1.5B	15.6
Cadmium	4.3U	18.5
Calcium	285B	489B
Chromium	1.5U	24.9
Cobalt	6.0U	45.3B
Copper	3.2U	63.4
Iron	87.8B	1060
Lead	1.7U	14.7
Magnesium	47.1B	728B
Manganese	1.2U	42.8
Mercury	0.10U	0.49
Nickel	5.2U	84.4
Potassium	343U	369B
Selenium	3.4U	12.2
Silver	1.6U	1.6U
Sodium	216B	1160B
Thallium	4.4U	20.8
Vanadium	2.4U	94.9
Zinc	30.0	84.9
Cyanide	10.0U	14.6

PROJECT Camp Lejeune
PREPARED BY Paul M. Feinberg
DATE April 1991
CHECKED BY Judy Luna
DATE 5-10-91
COMMENTS

Doc No: CLEJ-00359-304-04/01/91

CAMP LEJEUNE QA/QC - SITES 6, 48, & 69

INORGANICS IN QA/QC SAMPLES

Concentration in ug/l

CHART = QAQCING

wp8e\qos-inor.wr1 (1)

METAL/COMPOUND	EB-001	EB-002	EB-009	EB-011	EB-012	EB-015	(cyanide only) EB-016
Aluminum	42.6B	28.5B	58.3B	56.00B	34.00B	48.00B	
Antimony	22.0U	22.0U	13.3U	27.00U	27.00U	27.00U	
Arsenic	1.8U	1.8U	1.5U	2.00U	2.00U	2.00U	
Barium	1.4U	1.2U	5.0B	2.00B	2.00U	2.00U	
Beryllium	2.1U	2.1U	0.50U	4.00B	5.00	4.00B	
Cadmium	4.3U	4.3U	4.3U	3.00U	3.00B	3.00B	
Calcium	281B	232B	583B	100.00U	106.00B	100.00U	
Chromium	6.2U	5.2U	1.5U	7.00B	12.00	3.00B	
Cobalt	6.4U	6.4U	6.0U	6.00U	6.00U	6.00U	
Copper	6.1B	3.9B	15.2B	4.00B	11.00B	4.00B	
Iron	888	145	119	9.00U	356.00	15.00B	
Lead	1.0U	1.0U	1.7U	1.00UW	2.40B	1.00U	
Magnesium	68.7B	63.1B	104B	136.00U	136.00U	136.00U	
Manganese	3.7B	2.6B	2.4B	1.00U	6.00U	1.00U	
Mercury	0.10U	0.10U	0.10U	0.20U	0.20U	0.20U	
Nickel	11.0U	11.0U	21.2B	9.00U	73.00	9.00U	
Potassium	446U	446U	343U	273.00U	307.00B	273.00U	
Selenium	1.6U	1.6U	3.4U	1.00U	1.00UW	1.00U	
Silver	6.2U	6.2U	4.2B	4.00U	4.00U	4.00U	
Sodium	617B	582B	1040B	401000.00	208.00B	98.00U	
Thallium	1.1U	1.1U	4.4U	1.00U	1.00U	1.00U	
Vanadium	4.3U	4.3U	2.4U	3.00B	3.00U	3.00U	
Zinc	13.2B	10.3B	58.0	2.00U	1210.00	2.00U	
Cyanide	15.1	10.0U	NR	5.00U	NR	5.00U	5.00U

Doc No: CLEJ-00359-304-04/01/91

CAMP LEJEUNE QA/QC - SITES 6, 48, & 69
INORGANICS IN QA/QC SAMPLES
Concentration in ug/l

CHART = QAQCING2 wp8e\qos-inor.wr1 (2)

METAL/COMPOUND	FB001	DI001	DI002	DI005
Aluminum	126B	23.0U	20.7U	20.7U
Antimony	22.0U	22.0U	13.3U	13.3U
Arsenic	1.8U	1.8U	1.5U	1.6U
Barium	1.2B	2.4B	1.7U	4.0B
Beryllium	2.1U	2.1U	0.50U	0.50U
Cadmium	4.3U	4.3U	4.3U	4.3U
Calcium	16400	241B	314B	510B
Chromium	5.2U	5.2B	1.5U	1.5U
Cobalt	6.4U	6.4U	6.0U	6.0U
Copper	3.9B	5.4B	10.7B	9.0B
Iron	154	144	85.4B	72.9B
Lead	1.0U	1.0U	1.7U	1.7U
Magnesium	1660B	66.5B	81.5B	70.3B
Manganese	3.2B	4.6B	1.2U	1.8B
Mercury	0.10U	0.10U	0.10U	0.10U
Nickel	11.0U	11.0U	4.8	5.2U
Potassium	1440B	446U	343U	481U
Selenium	1.6U	1.6U	3.4U	3.4U
Silver	6.2U	6.2B	1.6U	1.6U
Sodium	8240	614B	6.8U	908B
Thallium	1.1U	1.1U	4.4U	4.4U
Vanadium	4.3U	4.3U	2.4U	2.4U
Zinc	18.2B	11.0B	21.4	46.8
Cyanide	10.0U	10.0U	10.0U	10.0

PROJECT Camp Lejeune
PREPARED BY [illegible]
DATE April 1991
CHECKED BY Judy Duma
DATE 5-10-91
COMMENTS

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITES 6, 48 & 69
PESTICIDES IN QA/QC SAMPLES
Concentration in ug/l

CHART = QAQCOSP1 sy\wp8d\qos-pest.wr1 (1)

PESTICIDE/PCB	FB-001	DI-001	DI-002	DI-005
alpha-BHC	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U

PROJECT Camp Lejeune
PREPARED BY Judy Gunka
DATE April 1991
CHECKED BY E.O. Kupel
DATE 5/13/91
COMMENTS

Doc No: CLET-00359-3.04-04/01/91

CAMP LEJEUNE - SITES 6, 48 & 69
PESTICIDES IN QA/QC SAMPLES
Concentration in ug/l

CHART = QAQCOSP2 sy\wp8d\qos-pest.wr1 (2)

PESTICIDE/PCB	EB-001	EB-002	EB-011	EB-015
alpha-BHC	.05U	.05U	0.050U	0.050U
beta-BHC	.05U	.05U	0.050U	0.050U
delta-BHC	.05U	.05U	0.050U	0.050U
gamma-BHC (Lindane)	.05U	.05U	0.050U	0.050U
Heptachlor	.05U	.05U	0.050U	0.050U
Aldrin	.05U	.05U	0.050U	0.050U
Heptachlor epoxide	.05U	.05U	0.050U	0.050U
Endosulfan I	.05U	.05U	0.050U	0.050U
Dieldrin	.10U	.10U	0.10U	0.10U
4,4'-DDE	.10U	.10U	0.10U	0.10U
Endrin	.10U	.10U	0.10U	0.10U
Endosulfan II	.10U	.10U	0.10U	0.10U
4,4'-DDD	.10U	.10U	0.10U	0.10U
Endosulfan sulfate	.10U	.10U	0.10U	0.10U
4,4'-DDT	.10U	.10U	0.10U	0.10U
Methoxychlor	.50U	.50U	0.50U	0.50U
Endrin ketone	.10U	.10U	0.10U	0.10U
alpha-Chlordane	.50U	.50U	0.50U	0.50U
gamma-Chlordane	.50U	.50U	0.50U	0.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	0.50U	0.50U
Aroclor-1221	.50U	.50U	0.50U	0.50U
Aroclor-1232	.50U	.50U	0.50U	0.50U
Aroclor-1242	.50U	.50U	0.50U	0.50U
Aroclor-1248	.50U	.50U	0.50U	0.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U

PROJECT Camp Lejeune
PREPARED BY Judy Luna
DATE April 1991
CHECKED BY Ed Kruppel
DATE 5/13/91
COMMENTS

Doc No: CLEJ-00359-3.04-04/01/91

CAMP LEJEUNE - SITES 6, 48, & 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN QA/QC SAMPLES
Concentration in ug/l

CHART = QACOSS1A

wp8c\qos-sv.wr1 (1-A)

COMPOUND	FB-001	DI-001	DI-002	DI-005
Phenol	10.U	10.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	10.U
2-Chlorophenol	10.U	10.U	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U	10.U
Benzyl Alcohol	10.U	10.U	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U	10.U
2-Methylphenol	10.U	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	10.U
4-Methylphenol	10.U	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	10.U
Hexachloroethane	10.U	10.U	10.U	10.U
Nitrobenzene	10.U	10.U	10.U	10.U
Isophorone	10.U	10.U	10.U	10.U
2-Nitrophenol	10.U	10.U	10.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U	10.U
Benzoic acid	50.U	50.U	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	10.U
Naphthalene	10.U	10.U	10.U	10.U
4-Chloroaniline	10.U	10.U	10.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U	10.U
2-Methylnaphthalene	10.U	10.U	10.U	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U	10.U
2-Nitroaniline	50.U	50.U	50.U	50.U
Dimethylphthalate	10.U	10.U	10.U	10.U
Acenaphthylene	10.U	10.U	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U	10.U

PROJECT Camp Lejeune
PREPARED BY Andy Luna
DATE April 1991
CHECKED BY [illegible]
DATE 5/10/91
COMMENTS

Doc No: CLES-00359-3.04-04/01/91

CAMP LEJEUNE - SITES 6, 48, & 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN QA/QC SAMPLES
Concentration in ug/l

CHART = QACOSS1B wp8c\qos-sv.wr1 (1-B)

COMPOUND	FB-001	DI-001	DI-002	DI-005
3-Nitroaniline	50.U	50.U	50.U	50.U
Acenaphthene	10.U	10.U	10.U	10.U
2,4-Dinitrophenol	50.U	50.U	50.U	50.U
4-Nitrophenol	50.U	50.U	50.U	50.U
Dibenzofuran	10.U	10.U	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U	10.U
Diethylphthalate	10.U	10.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	10.U
Fluorene	10.U	10.U	10.U	10.U
4-Nitroaniline	50.U	50.U	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U	10.U
Hexachlorobenzene	10.U	10.U	10.U	10.U
Pentachlorophenol	50.U	50.U	50.U	50.U
Phenanthrene	10.U	10.U	10.U	10.U
Anthracene	10.U	10.U	10.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U	10.U
Fluoranthene	10.U	10.U	10.U	10.U
Pyrene	10.U	10.U	10.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U	10.U
Chrysene	10.U	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	10.U	10.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U	10.U

Doc No: CLEJ-06359-3.04-04/01/91

CAMP LEJEUNE - SITES 6, 48, & 69

SEMI-VOLATILE ORGANIC COMPOUNDS IN QA/QC SAMPLES

Concentration in ug/l

CHART = QACOSS2A

wp8c\qos-sv.wr1 (2-A)

COMPOUND	EB-001	EB-002	EB-011	EB-015
Phenol	10.U	10.U	10U	10U
bis(2-Chloroethyl)ether	10.U	10.U	10U	10U
2-Chlorophenol	10.U	10.U	10U	10U
1,3-Dichlorobenzene	10.U	10.U	10U	10U
1,4-Dichlorobenzene	10.U	10.U	10U	10U
Benzyl Alcohol	10.U	10.U	10U	10U
1,2-Dichlorobenzene	10.U	10.U	10U	10U
2-Methylphenol	10.U	10.U	10U	10U
bis(2-Chloroisopropyl)ether	10.U	10.U	10U	10U
4-Methylphenol	10.U	10.U	10U	10U
N-Nitroso-di-n-propylamine	10.U	10.U	10U	10U
Hexachloroethane	10.U	10.U	10U	10U
Nitrobenzene	10.U	10.U	10U	10U
Isophorone	10.U	10.U	10U	10U
2-Nitrophenol	10.U	10.U	10U	10U
2,4-Dimethylphenol	10.U	10.U	10U	10U
Benzoic acid	50.U	50.U	50U	50U
bis(2-Chloroethoxy)methane	10.U	10.U	10U	10U
2,4-Dichlorophenol	10.U	10.U	10U	10U
1,2,4-Trichlorobenzene	10.U	10.U	10U	10U
Naphthalene	10.U	10.U	10U	10U
4-Chloroaniline	10.U	10.U	10U	10U
Hexachlorobutadiene	10.U	10.U	10U	10U
4-Chloro-3-methylphenol	10.U	10.U	10U	10U
2-Methylnaphthalene	10.U	10.U	10U	10U
Hexachlorocyclopentadiene	10.U	10.U	10U	10U
2,4,6-Trichlorophenol	10.U	10.U	10U	10U
2,4,5-Trichlorophenol	50.U	50.U	50U	50U
2-Chloronaphthalene	10.U	10.U	10U	10U
2-Nitroaniline	50.U	50.U	50U	50U
Dimethylphthalate	10.U	10.U	10U	10U
Acenaphthylene	10.U	10.U	10U	10U
2,6-Dinitrotoluene	10.U	10.U	10U	10U

PROJECT Camp Lejeune

PREPARED BY Judy Dunn

DATE April 1991

CHECKED BY Ed Kyle

DATE 5/8/91

COMMENTS

Doc No: CLEJ-00359.3.04-04/01/91

CAMP LEJEUNE - SITES 6, 48, & 69
SEMI-VOLATILE ORGANIC COMPOUNDS IN QA/QC SAMPLES
Concentration in ug/l

CHART = QACOSS2B wp8c\qos-sv.wr1 (2-B)

COMPOUND	EB-001	EB-002	EB-011	EB-015
3-Nitroaniline	50.U	50.U	50U	50U
Acenaphthene	10.U	10.U	10U	10U
2,4-Dinitrophenol	50.U	50.U	50U	50U
4-Nitrophenol	50.U	50.U	50U	50U
Dibenzofuran	10.U	10.U	10U	10U
2,4-Dinitrotoluene	10.U	10.U	10U	10U
Diethylphthalate	10.U	10.U	10U	10U
4-Chlorophenyl-phenylether	10.U	10.U	10U	10U
Fluorene	10.U	10.U	10U	10U
4-Nitroaniline	50.U	50.U	50U	50U
4,6-Dinitro-2-methylphenol	50.U	50.U	50U	50U
N-Nitrosodiphenylamine	10.U	10.U	10U	10U
4-Bromophenyl-phenylether	10.U	10.U	10U	10U
Hexachlorobenzene	10.U	10.U	10U	10U
Pentachlorophenol	50.U	50.U	50U	50U
Phenanthrene	10.U	10.U	10U	10U
Anthracene	10.U	10.U	10U	10U
Di-n-butylphthalate	10.U	10.U	10U	10U
Fluoranthene	10.U	10.U	10U	10U
Pyrene	10.U	10.U	10U	10U
Butylbenzylphthalate	10.U	10.U	10U	10U
3,3'-Dichlorobenzidine	20.U	20.U	20U	20U
Benzo(a)anthracene	10.U	10.U	10U	10U
Chrysene	10.U	10.U	10U	10U
bis(2-Ethylhexyl)phthalate	10.U	10.U	10U	10U
Di-n-octylphthalate	10.U	10.U	10U	10U
Benzo(b)fluoranthene	10.U	10.U	10U	10U
Benzo(k)fluoranthene	10.U	10.U	10U	10U
Benzo(a)pyrene	10.U	10.U	10U	10U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10U	10U
Dibenz(a,h)anthracene	10.U	10.U	10U	10U
Benzo(g,h,i)perylene	10.U	10.U	10U	10U

Doc No: CLEJ.06359.3.04 - 04/01/91

CAMP LEJEUNE - SITES 6, 48, and 69
VOLATILE ORGANIC COMPOUNDS IN FIELD BLANKS & D.I. BLANKS
Concentration in ug/l

CHART = QAQCOV1 wp8b\qos-vol.wr1 (1)

COMPOUND	FB-001	DI-001	DI-002	DI-005
Chloromethane	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U
Methylene Chloride	.8J	5.U	5.U	2.J
Acetone	10.U	10.U	10.U	10.U
Carbon Disulfide	5.U	5.U	5.U	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	5.U	5.U	5.U
Chloroform	7.	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U
Bromodichloromethane	7.	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U
Trichloroethene	5.U	5.U	5.U	5.U
Dibromochloromethane	5.J	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U
Toluene	5.U	5.U	5.U	5.U
Chlorobenzene	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U
Styrene	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U

PROJECT Camp Lejeune
PREPARED BY Judy Lunsford
DATE April 1991
CHECKED BY S.C. King
DATE 5/13/91
COMMENTS

Doc No: CLEJ-00359-3.64-04/01/91

O.K. 5/8/91

CAMP LEJEUNE - SITES 6, 48, and 69
VOLATILE ORGANIC COMPOUNDS IN EQUIPMENT BLANKS
Concentration in ug/l

CHART = QACOSV2 wp8b\qos-vol.wr1 (2)

COMPOUND	EB-001	EB-002	EB-011	EB-015
Chloromethane	10.U	10.U	10U	10U
Bromomethane	10.U	10.U	10U	10U
Vinyl Chloride	10.U	10.U	10U	10U
Chloroethane	10.U	10.U	10U	10U
Methylene Chloride	5.U	5.U	5U	5U
Acetone	10.U	10.U	9J	4BJ
Carbon Disulfide	5.U	5.U	5U	5U
1,1-Dichloroethene	5.U	5.U	5U	5U
1,1-Dichloroethane	5.U	5.U	5U	5U
1,2-Dichloroethene (total)	5.U	5.U	5U	5U
Chloroform	5.U	5.U	5U	5U
1,2-Dichloroethane	5.U	5.U	5U	5U
2-Butanone	10.U	10.U	10U	10U
1,1,1-Trichloroethane	5.U	5.U	5U	5U
Carbon Tetrachloride	5.U	5.U	5U	5U
Vinyl Acetate	10.U	10.U	10U	10U
Bromodichloromethane	5.U	5.U	5U	5U
1,2-Dichloropropane	5.U	5.U	5U	5U
cis-1,3-Dichloropropene	5.U	5.U	5U	5U
Trichloroethene	5.U	5.U	5U	5U
Dibromochloromethane	5.U	5.U	5U	5U
1,1,2-Trichloroethane	5.U	5.U	5U	5U
Benzene	5.U	5.U	5U	5U
trans-1,3-Dichloropropene	5.U	5.U	5U	5U
Bromoform	5.U	5.U	5U	5U
4-Methyl-2-Pentanone	10.U	10.U	10U	10U
2-Hexanone	10.U	10.U	10U	10U
Tetrachloroethene	5.U	5.U	5U	5U
1,1,2,2-Tetrachloroethane	5.U	5.U	5U	5U
Toluene	5.U	5.U	5U	5U
Chlorobenzene	5.U	5.U	5U	5U
Ethylbenzene	5.U	5.U	5U	5U
Styrene	5.U	5.U	5U	5U
Xylene (total)	5.U	5.U	5U	5U

PROJECT Camp Lejeune
PREPARED BY Judy Lynn
DATE April 1991
CHECKED BY Ed Kuhl
DATE 5/8/91
COMMENTS

Doc No: CLEJ-00359-304-04/01/91

CAMP LEJEUNE - SITES 6, 48, and 69
VOLATILE ORGANIC COMPOUNDS IN TRIP BLANKS
Concentration in ug/l

CHART = QACOSV3 wp8b\qos-vol.wr1 (3)

COMPOUND	TB-007	TB-008	TB-009	TB-011	TB-012	TB-014	TB-015	TB-069
Chloromethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	5.J	5.U	5.U	5.U	5.U	5.U	5.U	4.JB
Acetone	10.U	10.U	4.BJ	10.U	10.U	10.U	12.	3.J
Carbon Disulfide	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Chloroform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
2-Butanone	2.J	2.BJ	10.U	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Trichloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Toluene	5.U	5.U	5.U	5.U	3.J	5.U	5.U	5.U
Chlorobenzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Styrene	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U	5.U	5.U	5.U	5.U