

Doc. No.: CLET-00357-3.04-
04/01/91

CAMP LEJEUNE - SITE 6
SEMI-VOLATILE ORGANIC COMPOUNDS IN SURFACE WATER AND SEDIMENT
Concentration in ug/l (surface water) and ug/kg (sediment)

CHART = 6SWSESVA

wp8c\6-sv.wr1 (3-A)

COMPOUND	6SW1D			6SE2D		
	6SW1	(SWDUP2)	6SW2	6SE1	6SE2	(SEDUP2)
Phenol	10.U	10.U	10.U	510U	430U	420U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	510U	430U	420U
2-Chlorophenol	10.U	10.U	10.U	510U	430U	420U
1,3-Dichlorobenzene	10.U	10.U	10.U	510U	430U	420U
1,4-Dichlorobenzene	10.U	10.U	10.U	510U	430U	420U
Benzyl Alcohol	10.U	10.U	10.U	510U	430U	420U
1,2-Dichlorobenzene	10.U	10.U	10.U	510U	430U	420U
2-Methylphenol	10.U	10.U	10.U	510U	430U	420U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	510U	430U	420U
4-Methylphenol	10.U	10.U	10.U	510U	430U	420U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	510U	430U	420U
Hexachloroethane	10.U	10.U	10.U	510U	430U	420U
Nitrobenzene	10.U	10.U	10.U	510U	430U	420U
Isophorone	10.U	10.U	10.U	510U	430U	420U
2-Nitrophenol	10.U	10.U	10.U	510U	430U	420U
2,4-Dimethylphenol	10.U	10.U	10.U	510U	430U	420U
Benzoic acid	50.U	50.U	50.U	2500U	2100U	2000U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U	510U	430U	420U
2,4-Dichlorophenol	10.U	10.U	10.U	510U	430U	420U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	510U	430U	420U
Naphthalene	10.U	10.U	10.U	510U	430U	420U
4-Chloroaniline	10.U	10.U	10.U	510U	430U	420U
Hexachlorobutadiene	10.U	10.U	10.U	510U	430U	420U
4-Chloro-3-methylphenol	10.U	10.U	10.U	510U	430U	420U
2-Methylnaphthalene	10.U	10.U	10.U	510U	430U	420U
Hexachlorocyclopentadiene	10.U	10.U	10.U	510U	430U	420U
2,4,6-Trichlorophenol	10.U	10.U	10.U	510U	430U	420U
2,4,5-Trichlorophenol	50.U	50.U	50.U	2500U	2100U	2000U
2-Chloronaphthalene	10.U	10.U	10.U	510U	430U	420U
2-Nitroaniline	50.U	50.U	50.U	2500U	2100U	2000U
Dimethylphthalate	10.U	10.U	10.U	510U	430U	420U
Acenaphthylene	10.U	10.U	10.U	510U	430U	46J
2,6-Dinitrotoluene	10.U	10.U	10.U	510U	430U	420U

PROJECT Camp Lejeune
 PREPARED BY Duddy Guma
 DATE April 1991
 CHECKED BY EC Rumpf
 DATE 5/14/91

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Doc No: ALET-00357-3.04-4/1/94

CAMP LEJEUNE - SITE 6
SEMI-VOLATILE ORGANIC COMPOUNDS IN SURFACE WATER AND SEDIMENT
Concentration in ug/l (surface water) and ug/kg (sediment)

CHART = 6SWSESVB

wp8c\6-sv.wr1 (3-B)

COMPOUND	6SW1	6SW1D (SWDUP2)	6SW2	6SE1	6SE2	6SE2D (SEDUP2)
3-Nitroaniline	50.U	50.U	50.U	2500U	2100U	2000U
Acenaphthene	10.U	10.U	10.U	510U	56J	420U
2,4-Dinitrophenol	50.U	50.U	50.U	2500U	2100U	2000U
4-Nitrophenol	50.U	50.U	50.U	2500U	2100U	2000U
Dibenzofuran	10.U	10.U	10.U	510U	430U	420U
2,4-Dinitrotoluene	10.U	10.U	10.U	510U	430U	420U
Diethylphthalate	10.U	10.U	10.U	510U	430U	420U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	510U	430U	420U
Fluorene	10.U	10.U	10.U	510U	430U	420U
4-Nitroaniline	50.U	50.U	50.U	2500U	2100U	2000U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	2500U	2100U	2000U
N-Nitrosodiphenylamine	10.U	10.U	10.U	510U	430U	420U
4-Bromophenyl-phenylether	10.U	10.U	10.U	510U	430U	420U
Hexachlorobenzene	10.U	10.U	10.U	510U	430U	420U
Pentachlorophenol	50.U	50.U	50.U	2500U	2100U	2000U
Phenanthrene	10.U	10.U	10.U	510U	430U	420U
Anthracene	10.U	10.U	10.U	510U	430U	95J
Di-n-butylphthalate	10.U	10.U	10.U	510U	430U	420U
Fluoranthene	10.U	10.U	10.U	510U	220J	83J
Pyrene	10.U	10.U	10.U	510U	160J	110J
Butylbenzylphthalate	10.U	10.U	10.U	510U	430U	420U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	1000U	860U	840U
Benzo(a)anthracene	10.U	10.U	10.U	510U	58J	220J
Chrysene	10.U	10.U	10.U	510U	430U	420
bis(2-Ethylhexyl)phthalate	10.U	10.U	10.U	510U	430U	420U
Di-n-octylphthalate	10.U	10.U	10.U	510U	430U	420U
Benzo(b)fluoranthene	10.U	10.U	10.U	510U	430U	600
Benzo(k)fluoranthene	10.U	10.U	10.U	510U	430U	510
Benzo(a)pyrene	10.U	10.U	10.U	510U	430U	460
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	510U	430U	150J
Dibenz(a,h)anthracene	10.U	10.U	10.U	510U	430U	420U
Benzo(g,h,i)perylene	10.U	10.U	10.U	510U	430U	89J

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CAMP LEJEUNE - SITE 6
PESTICIDES IN SURFACE WATER & SEDIMENT
Concentration in ug/l (Surface Water)
Concentration in ug/kg (Sediment)

CHART = 6SWSEPEs

sy\wp8b\6-pest.wr1 (3)

PESTICIDE/PCB	6SW1D			6SE1		6SE2D
	6SW1	(SWDUP2)	6SW2	6SE1	6SE2	(SEDUP2)
alpha-BHC	.05U	.05U	.05U	12U	10U	10U
beta-BHC	.05U	.05U	.05U	12U	10U	10U
delta-BHC	.05U	.05U	.05U	12U	10U	10U
gamma-BHC (Lindane)	.05U	.05U	.05U	12U	10U	10U
Heptachlor	.05U	.05U	.05U	12U	10U	10U
Aldrin	.05U	.05U	.05U	12U	10U	10U
Heptachlor epoxide	.05U	.05U	.05U	12U	10U	10U
Endosulfan I	.05U	.05U	.05U	12U	10U	10U
Dieldrin	.10U	.10U	.10U	25U	21U	20U
4,4'-DDE	.10U	.10U	.10U	25U	21U	20U
Endrin	.10U	.10U	.10U	25U	21U	20U
Endosulfan II	.10U	.10U	.10U	25U	21U	20U
4,4'-DDD	.10U	.10U	.10U	25U	21U	20U
Endosulfan sulfate	.10U	.10U	.10U	25U	21U	20U
4,4'-DDT	.10U	.10U	.10U	25U	21U	20U
Methoxychlor	.50U	.50U	.50U	120U	100U	100U
Endrin ketone	.10U	.10U	.10U	25U	21U	20U
alpha-Chlordane	.50U	.50U	.50U	120U	100U	100U
gamma-Chlordane	.50U	.50U	.50U	120U	100U	100U
Toxaphene	1.0U	1.0U	1.0U	250U	210U	200U
Aroclor-1016	.50U	.50U	.50U	120U	100U	100U
Aroclor-1221	.50U	.50U	.50U	120U	100U	100U
Aroclor-1232	.50U	.50U	.50U	120U	100U	100U
Aroclor-1242	.50U	.50U	.50U	120U	100U	100U
Aroclor-1248	.50U	.50U	.50U	120U	100U	100U
Aroclor-1254	1.0U	1.0U	1.0U	250U	210U	200U
Aroclor-1260	1.0U	1.0U	1.0U	190U	210U	200U

PROJECT Camp Lejeune

PREPARED BY Judy Summa

DATE Apr 1991

CHECKED BY E.C. Kingford

DATE 5/8/91

COMMENTS _____

Doc No: CLEJ-00357-3.04-4/11/91

CAMP LEJEUNE - SITE 6
INORGANICS IN SURFACE WATER & SEDIMENT
Concentration in ug/l (Surface Water)
Concentration in mg/kg (Sediment)

CHART = 6SWSEING

wp8c\6-inor.wr1 (3)

METAL/COMPOUND	6SW1	6SW1D (SWDUP2)	6SW2	6SE1	6SE2	6SE2D (SEDUP2)
Aluminum	650	639	684	2030.00	567.00	557.00
Antimony	13.3U	13.5B	19.0B	8.00UN	6.50UN	4.90UN
Arsenic	1.5U	1.5U	1.5U	0.50UNW	0.35UN	0.36UN
Barium	13.7B	15.0B	1.7U	0.59U	0.48U	0.36U
Beryllium	0.50U	0.50U	0.50U	1.20B	0.97B	0.73B
Cadmium	4.3U	4.3U	4.3U	0.88B	0.73U	0.55U
Calcium	6770	6850	17100	3270.00	169.00B	165.00B
Chromium	2.6B	1.5U	1.5U	3.80	2.70	1.50B
Cobalt	6.0U	6.0U	6.0U	1.80U	1.50U	1.10U
Copper	6.4B	9.7B	7.8B	3.50B	0.73B	0.55B
Iron	365	365	352	1570.00	606.00	644.00
Lead	1.7U	1.7U	1.7U	5.70*	1.30*	1.10*
Magnesium	1160B	1190B	32600	154.00B	72.10B	83.50B
Manganese	8.1B	7.5B	8.8B	6.20	0.97B	0.91B
Mercury	0.10U	0.10U	0.10U	0.16U	0.12U	0.13U
Nickel	5.2U	5.2U	5.2U	2.70U	2.20U	1.60U
Potassium	631B	763B	10400	138.00B	115.00B	86.30B
Selenium	3.4U	3.4U	3.4U	0.44B	0.18UW	0.91UW
Silver	18.1	1.6U	1.6B	1.20U	0.97U	0.73U
Sodium	7210	7490	268000	256.00BE	125.00BE	159.00BE
Thallium	4.4U	4.4U	4.4U	0.25UN	0.18UN	0.18UN
Vanadium	2.7B	2.7B	2.4U	2.70B	0.97B	0.55B
Zinc	20.8	45.8	41.0	8.80	10.20	0.91B
Cyanide	10.0U	10.0U	10.0U	1.00U	0.75U	0.83U

PROJECT Camp Lejeune
 PREPARED BY Ed Rybicki
 DATE April 1991
 CHECKED BY Judy Kuma
 DATE 5-8-91

COMMENTS

Doc NO: CLEJ-00357-3.04-4/1/91

CAMP LEJEUNE - SITE 6
VOLATILE ORGANIC COMPOUNDS IN SURFACE WATER & SEDIMENT
Concentration in ug/l (Surface Water)
Concentration in ug/kg (Sediment)

CHART = 6VOLSWE

wp8b\6-vol.wr1 (3)

COMPOUND	6SW1	6SW1-D (SWDUP2)	6SW2	6SE1	6SE2	6SE2D (SEDUP2)
Chloromethane	10.U	10.U	10.U	15U	13U	13U
Bromomethane	10.U	10.U	10.U	15U	13U	13U
Vinyl Chloride	10.U	10.U	10.U	15U	13U	13U
Chloroethane	10.U	10.U	10.U	15U	13U	13U
Methylene Chloride	5.U	5.U	5.U	48J	28J	38J
Acetone	10.U	10.U	10.U	45	13U	28
Carbon Disulfide	5.U	5.U	5.U	7U	7U	7U
1,1-Dichloroethane	5.U	5.U	5.U	7U	7U	7U
1,1-Dichloroethane	5.U	5.U	5.U	7U	7U	7U
1,2-Dichloroethane (total)	2.J	5.U	4.J	7U	7U	7U
Chloroform	5.U	5.U	5.U	7U	7U	7U
1,2-Dichloroethane	5.U	5.U	5.U	7U	7U	7U
2-Butanone	10.U	10.U	10.U	15U	13U	13U
1,1,1-Trichloroethane	5.U	5.U	5.U	5J	7U	7U
Carbon Tetrachloride	5.U	5.U	5.U	7U	7U	7U
Vinyl Acetate	10.U	10.U	10.U	15U	13U	13U
Bromodichloromethane	5.U	5.U	5.U	7U	7U	7U
1,2-Dichloropropane	5.U	5.U	5.U	7U	7U	7U
cis-1,3-Dichloropropene	5.U	5.U	5.U	7U	7U	7U
Trichloroethene	5.U	5.U	5.	7U	7U	7U
Dibromochloromethane	5.U	5.U	5.U	7U	7U	7U
1,1,2-Trichloroethane	5.U	5.U	5.U	7U	7U	7U
Benzene	5.U	5.U	5.U	7U	7U	7U
trans-1,3-Dichloropropene	5.U	5.U	5.U	7U	7U	7U
Bromoform	5.U	5.U	5.U	7U	7U	7U
4-Methyl-2-Pentanone	10.U	10.U	10.U	15U	13U	13U
2-Hexanone	10.U	10.U	10.U	15U	13U	13U
Tetrachloroethene	5.U	5.U	5.U	7U	7U	7U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	7U	7U	7U
Toluene	5.U	5.U	5.U	2J	7U	7U
Chlorobenzene	5.U	5.U	5.U	7U	7U	7U
Ethylbenzene	5.U	5.U	5.U	7U	7U	7U
Styrene	5.U	5.U	5.U	7U	7U	7U
Xyl (total)	5.U	5.U	5.U	7U	7U	7U

PROJECT Camp Lejeune
 PREPARED BY Paul M. Barber
 DATE April 1991
 CHECKED BY Judy S. Nix
 DATE 5-9-91

COMMENTS

Doc No: CLEJ-00357-3.04-4/1/91

CAMP LEJEUNE - SITE 6
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW AND WATER SUPPLY WELLS)
Concentration in ug/l

CHART = 6GWSV2A

wp8c\6-sv.wr1 (2-A)

COMPOUND	6GW7	6GW8	6GW8D (GWDUP7)	WS651	WS653
Phenol	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroethyl)ether	10.U	10.U	10.U	10.U	10.U
2-Chlorophenol	10.U	10.U	10.U	10.U	10.U
1,3-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U
1,4-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U
Benzyl Alcohol	10.U	10.U	10.U	10.U	10.U
1,2-Dichlorobenzene	10.U	10.U	10.U	10.U	10.U
2-Methylphenol	10.U	10.U	10.U	10.U	10.U
bis(2-Chloroisopropyl)ether	10.U	10.U	10.U	10.U	10.U
4-Methylphenol	10.U	10.U	10.U	10.U	10.U
N-Nitroso-di-n-propylamine	10.U	10.U	10.U	10.U	10.U
Hexachloroethane	10.U	10.U	10.U	10.U	10.U
Nitrobenzene	10.U	10.U	10.U	10.U	10.U
Isophorone	10.U	10.U	10.U	10.U	10.U
2-Nitrophenol	10.U	10.U	10.U	10.U	10.U
2,4-Dimethylphenol	10.U	10.U	10.U	10.U	10.U
Benzoic acid	50.U	50.U	50.U	50.U	50.U
bis(2-Chloroethoxy)methane	10.U	10.U	10.U	10.U	10.U
2,4-Dichlorophenol	10.U	10.U	10.U	10.U	10.U
1,2,4-Trichlorobenzene	10.U	10.U	10.U	10.U	10.U
Naphthalene	10.U	10.U	10.U	10.U	10.U
4-Chloroaniline	10.U	10.U	10.U	10.U	10.U
Hexachlorobutadiene	10.U	10.U	10.U	10.U	10.U
4-Chloro-3-methylphenol	10.U	10.U	10.U	10.U	10.U
2-Methylnaphthalene	10.U	10.U	10.U	10.U	10.U
Hexachlorocyclopentadiene	10.U	10.U	10.U	10.U	10.U
2,4,6-Trichlorophenol	10.U	10.U	10.U	10.U	10.U
2,4,5-Trichlorophenol	50.U	50.U	50.U	50.U	50.U
2-Chloronaphthalene	10.U	10.U	10.U	10.U	10.U
2-Nitroaniline	50.U	50.U	50.U	50.U	50.U
Dimethylphthalate	10.U	10.U	10.U	10.U	10.U
Acenaphthylene	10.U	10.U	10.U	10.U	10.U
2,6-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U

PROJECT Camp Lejeune
 PREPARED BY Meddy Guma
 DATE April 1991
 CHECKED BY Ed. Kopp
 DATE 5/13/91
 COMMENTS _____

Doc No: CLEJ-00357-3.04-4/1/91

CAMP LEJEUNE - SITE 6
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW AND WATER SUPPLY WELLS)
Concentration in ug/l

CHART = 6GWSV2B

wp8c\6-sv.wr1 (2-B)

COMPOUND	6GW7	6GWB	6GW8D (GWDUP7)	WS651	WS653
3-Nitroaniline	50.U	50.U	50.U	50.U	50.U
Acenaphthene	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrophenol	50.U	50.U	50.U	50.U	50.U
4-Nitrophenol	50.U	50.U	50.U	50.U	50.U
Dibenzofuran	10.U	10.U	10.U	10.U	10.U
2,4-Dinitrotoluene	10.U	10.U	10.U	10.U	10.U
Diethylphthalate	10.U	10.U	10.U	10.U	10.U
4-Chlorophenyl-phenylether	10.U	10.U	10.U	10.U	10.U
Fluorene	10.U	10.U	10.U	10.U	10.U
4-Nitroaniline	50.U	50.U	50.U	50.U	50.U
4,6-Dinitro-2-methylphenol	50.U	50.U	50.U	50.U	50.U
N-Nitrosodiphenylamine	10.U	10.U	10.U	10.U	10.U
4-Bromophenyl-phenylether	10.U	10.U	10.U	10.U	10.U
Hexachlorobenzene	10.U	10.U	10.U	10.U	10.U
Pentachlorophenol	50.U	50.U	50.U	50.U	50.U
Phenanthrene	10.U	10.U	10.U	10.U	10.U
Anthracene	10.U	10.U	10.U	10.U	10.U
Di-n-butylphthalate	10.U	10.U	10.U	10.U	10.U
Fluoranthene	10.U	10.U	10.U	10.U	10.U
Pyrene	10.U	10.U	10.U	10.U	10.U
Butylbenzylphthalate	10.U	10.U	10.U	10.U	10.U
3,3'-Dichlorobenzidine	20.U	20.U	20.U	20.U	20.U
Benzo(a)anthracene	10.U	10.U	10.U	10.U	10.U
Chrysene	10.U	10.U	10.U	10.U	10.U
bis(2-Ethylhexyl)phthalate	10.U	10.U	10.U	10.U	10.U
Di-n-octylphthalate	10.U	10.U	10.U	10.U	10.U
Benzo(b)fluoranthene	10.U	10.U	10.U	10.U	10.U
Benzo(k)fluoranthene	10.U	10.U	10.U	10.U	10.U
Benzo(a)pyrene	10.U	10.U	10.U	10.U	10.U
Indeno(1,2,3-cd)pyrene	10.U	10.U	10.U	10.U	10.U
Dibenz(a,h)anthracene	10.U	10.U	10.U	10.U	10.U
Benzo(g,h,i)perylene	10.U	10.U	10.U	10.U	10.U

Doc No: CLET-00357-3.04 - 4/11/91

CAMP LEJEUNE - SITE 6
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 6GWSV1A

wp8c\6-sv.wr1 (1-A)

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

Camp Lejeune
PROJECT
PREPARED BY Judy Duma
DATE April 1991
CHECKED BY E.C. King
DATE 5/10/91
COMMENTS

Doc No: CLEJ-00357-3.04-4/1/91

CAMP LEJEUNE - SITE 6
SEMI-VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 6GWSV1B

wp8c\6-sv.wr1 (1-B)

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

Doc No: CLEJ-00357-3.04-4/1/91

CAMP LEJEUNE - SITE 6
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 6GWVOL1

wp8b\6-vol.wr1 (1)

COMPOUND	6GW2	6GW3	6GW4	6GW5	6GW6
Chloromethane	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	10.U	10.U
Chloroethane	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	5.U	5.U	5.U	5.U	5.U
Acetone	10.U	10.U	10.U	10.U	10.U
Carbon Disulfide	5.U	5.U	5.U	5.U	10.
1,1-Dichloroethene	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	5.U	5.U	5.U	5.U
Chloroform	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U
Trichloroethene	5.U	5.U	5.U	5.U	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	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
Toluene	5.U	5.U	5.U	5.U	5.U
Chlorobenzene	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U	5.U
Styrene	5.U	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U	5.U

PROJECT Camp Lejeune
PREPARED BY E. C. Kyro
DATE April 1991
CHECKED BY Judy Guma
DATE 5-6-91
COMMENTS _____

Doc No: CL EJ - 00357 - 3.04 - 4/11/91

CAMP LEJEUNE - SITE 6
VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER (SHALLOW WELLS & WATER SUPPLY WELLS)
Concentration in ug/l

CHART = 6GWVOL2

wp8b\6-vol.wr1 (2)

COMPOUND	6GW7	6GW8	6GW8D (GWDUP7)	WS651	WS653
Chloromethane	10.U	10.U	10.U	10.U	10.U
Bromomethane	10.U	10.U	10.U	10.U	10.U
Vinyl Chloride	10.U	10.U	10.U	70.	10.U
Chloroethane	10.U	10.U	10.U	10.U	10.U
Methylene Chloride	5.U	5.U	5.U	2.J	5.U
Acetone	10.U	10.U	10.U	10.U	12.
Carbon Disulfide	5.U	5.U	5.U	5.U	5.U
1,1-Dichloroethene	5.U	5.U	5.U	2.J	5.U
1,1-Dichloroethane	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethene (total)	5.U	5.U	5.U	75.	5.U
Chloroform	5.U	5.U	5.U	5.U	5.U
1,2-Dichloroethane	5.U	5.U	5.U	5.U	5.U
2-Butanone	10.U	10.U	10.U	10.U	10.U
1,1,1-Trichloroethane	5.U	5.U	5.U	5.U	5.U
Carbon Tetrachloride	5.U	5.U	5.U	5.U	5.U
Vinyl Acetate	10.U	10.U	10.U	10.U	10.U
Bromodichloromethane	5.U	5.U	5.U	5.U	5.U
1,2-Dichloropropane	5.U	5.U	5.U	5.U	5.U
cis-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U
Trichloroethene	5.U	5.U	5.U	13.	5.U
Dibromochloromethane	5.U	5.U	5.U	5.U	5.U
1,1,2-Trichloroethane	5.U	5.U	5.U	5.U	5.U
Benzene	5.U	5.U	5.U	5.U	5.U
trans-1,3-Dichloropropene	5.U	5.U	5.U	5.U	5.U
Bromoform	5.U	5.U	5.U	5.U	5.U
4-Methyl-2-Pentanone	10.U	10.U	10.U	10.U	10.U
2-Hexanone	10.U	10.U	10.U	10.U	10.U
Tetrachloroethene	5.U	5.U	5.U	53.	5.U
1,1,2,2-Tetrachloroethane	5.U	5.U	5.U	5.U	5.U
Toluene	5.U	5.U	5.U	.9J	5.U
Chlorobenzene	5.U	5.U	5.U	5.U	5.U
Ethylbenzene	5.U	5.U	5.U	5.U	5.U
Styrene	5.U	5.U	5.U	5.U	5.U
Xylene (total)	5.U	5.U	5.U	5.U	5.U

PROJECT Camp Lejeune
PREPARED BY [Signature]
DATE April 1991
CHECKED BY Judy Yuma
DATE 5-7-91
REVISED _____

Doc No: CLEJ - 00357 - 3.04 - 4/1/91

CAMP LEJEUNE - SITE 6
PESTICIDES IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 6GWPEST1

sy\wp8b\6-pest.wr1 (1)

PESTICIDE/PCB	6GW2	6GW3	6GW4	6GW5	6GW6
alpha-BHC	.05U	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U	.10U
Endosulfan sulfat	.10U	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U

PROJECT	Camp Lejeune
PREPARED BY	Glenn Gunnar
DATE	Apr 14 1991
CHECKED BY	E.L. King
DATE	5/8/91
REVISIONS	

DATE NO: CLEJ-00357-3.04-4/1/91

CAMP LEJEUNE - SITE 6
PESTICIDES IN GROUNDWATER (SHALLOW/WATER SUPPLY WELLS)
Concentration in ug/l

CHART = 6GWPEST2

sy\wp8b\6-pest.wr1 (2)

PESTICIDE/PCB	6GW8D				
	6GW7	6GW8	(GWDUP7)	WS651	WS653
alpha-BHC	.05U	.05U	.05U	.05U	.05U
beta-BHC	.05U	.05U	.05U	.05U	.05U
delta-BHC	.05U	.05U	.05U	.05U	.05U
gamma-BHC (Lindane)	.05U	.05U	.05U	.05U	.05U
Heptachlor	.05U	.05U	.05U	.05U	.05U
Aldrin	.05U	.05U	.05U	.05U	.05U
Heptachlor epoxide	.05U	.05U	.05U	.05U	.05U
Endosulfan I	.05U	.05U	.05U	.05U	.05U
Dieldrin	.10U	.10U	.10U	.10U	.10U
4,4'-DDE	.10U	.10U	.10U	.10U	.10U
Endrin	.10U	.10U	.10U	.10U	.10U
Endosulfan II	.10U	.10U	.10U	.10U	.10U
4,4'-DDD	.10U	.10U	.10U	.10U	.10U
Endosulfan sulfate	.10U	.10U	.10U	.10U	.10U
4,4'-DDT	.10U	.10U	.10U	.10U	.10U
Methoxychlor	.50U	.50U	.50U	.50U	.50U
Endrin ketone	.10U	.10U	.10U	.10U	.10U
alpha-Chlordane	.50U	.50U	.50U	.50U	.50U
gamma-Chlordane	.50U	.50U	.50U	.50U	.50U
Toxaphene	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1016	.50U	.50U	.50U	.50U	.50U
Aroclor-1221	.50U	.50U	.50U	.50U	.50U
Aroclor-1232	.50U	.50U	.50U	.50U	.50U
Aroclor-1242	.50U	.50U	.50U	.50U	.50U
Aroclor-1248	.50U	.50U	.50U	.50U	.50U
Aroclor-1254	1.0U	1.0U	1.0U	1.0U	1.0U
Aroclor-1260	1.0U	1.0U	1.0U	1.0U	1.0U

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

Doc No: CLEJ - 00557-3.04 - 4/1/91

CAMP LEJEUNE - SITE 6
INORGANICS IN GROUNDWATER (SHALLOW WELLS)
Concentration in ug/l

CHART = 6GWING1

wp8c\6-inor.wr1 (1)

METAL/COMPOUND	6GW2	6GW3	6GW4	6GW5	6GW6
Aluminum	226000	107000	46800	242000	118000
Antimony	13.3U	13.3U	13.3U	13.3U	14.0B
Arsenic	9.0B	4.1B	8.4B	4.0B	5.4B
Barium	248	776	564	603	446
Beryllium	2.7B	5.9	1.7B	3.5B	1.2B
Cadmium	4.3U	43.4	4.3U	4.3U	4.3U
Calcium	1980B	44800	6160	32500	11100
Chromium	219	115	41.6	219	210
Cobalt	10.6B	12.1B	6.0U	9.8B	6.0U
Copper	40.3	203	21.0B	43.0	25.1
Iron	59300	15800	19900	34100	31700
Lead	61.6	44.1	12.0	45.8	30.0
Magnesium	7330	6670	2090B	7130	6440
Manganese	84.0	1080	73.5	91.2	84.4
Mercury	0.13B	0.13B	0.10U	0.24	0.10U
Nickel	27.4B	68.8	17.1B	53.6	19.6B
Potassium	11300	11900	3110B	9210	8210
Selenium	3.4U	4.6B	3.4U	3.4U	3.6B
Silver	1.6U	1.6U	1.9B	1.6U	2.0B
Sodium	2480B	5650	4860B	6380	15100
Thallium	4.4U	4.4U	4.4U	4.4U	4.4U
Vanadium	311	120	106	200	504
Zinc	98.0	9540	240	102	174
Cyanide	10.0U	10.0U	10.0U	10.0U	10.0U

PROJECT Camp Lejeune
PREPARED BY Paul M. Frueh
DATE April 1991
CHECKED BY Judy Guma
DATE 5-8-91
DOCUMENT NO. _____

Date No: CLEJ - 00357-3.04 - 4/18/91

CAMP LEJEUNE - SITE 6
 INORGANICS IN GROUNDWATER (SHALLOW WELLS & WATER SUPPLY WELLS)
 Concentration in ug/l

CHART = 6GWING2

wp8c\6-inor.wr1 (2)

METAL/COMPOUND	6GW7	6GW8	6GW8D (GWDUP7)	WS651	WS653
Aluminum	278000	332000	281000	20.7U	20.7U
Antimony	13.3U	13.3U	13.3U	13.3U	13.3U
Arsenic	21.4	6.0B	2.9B	1.5U	1.5U
Barium	1030	782	716	1.7U	1.7U
Beryllium	6.1	2.9B	3.2B	0.85B	0.50U
Cadmium	4.3U	4.3U	4.3U	4.3U	4.3U
Calcium	52300	38200	35800	50100	61200
Chromium	451	342	283	1.5U	1.5U
Cobalt	14.8B	15.4B	13.7B	6.0U	6.0U
Copper	66.4	75.8	65.5	6.4B	4.5B
Iron	55400	50400	40300	1080	296
Lead	61.7	70.4	63.0	2.6B	1.7U
Magnesium	12900	12300	9900	1100B	1470B
Manganese	163	157	102	16.5	15.6
Mercury	0.28	0.32	0.27	0.10U	0.10U
Nickel	61.2	81.6	58.3	5.2U	5.2U
Potassium	14800	14300	11700	1440B	1540B
Selenium	3.4U	3.4U	3.4U	3.4U	3.5B
Silver	2.7B	1.8B	6.9B	1.6U	1.6U
Sodium	2320B	2530B	2410B	4430B	6600
Thallium	4.4U	0.1U	4.4U	4.4U	4.4U
Vanadium	344	274	216	3.1B	2.4U
Zinc	207	151	120	308	34.0
Cyanide	10.0U	10.0U	10.0U	10.0U	10.0U

PROJECT Camp Lejeune
 PREPARED BY ER Ryzak
 DATE April 1991
 CHECKED BY Judy Hanna
 DATE 5-8-91