

**FINAL**

**REMEDIAL INVESTIGATION REPORT  
OPERABLE UNIT NO. 6  
(SITE 36)**

**MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA**

**CONTRACT TASK ORDER 0303  
APPENDICES A-K  
VOLUME II  
AUGUST 22, 1996**

*Prepared For:*

**DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES  
ENGINEERING COMMAND  
*Norfolk, Virginia***

*Under:*

**LANTDIV CLEAN Program  
Contract N62470-89-D-4814**

*Prepared by:*

**BAKER ENVIRONMENTAL, INC.  
*Coraopolis, Pennsylvania***

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**APPENDIX A**  
**TEST BORING RECORDS**

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# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-BB-SB01

COORDINATES: EAST: 2466452.5408

NORTH: 361760.4660

ELEVATION: SURFACE: 16.10

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
LENGTH	1-3/8" ID	--	1-1/8" ID	2/23/95	0.0 - 7.0	Sunny & warm	5.0	1325
TYPE	4.0'	--	4.0'					
	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston
	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.5/0.1	SILT, some clay & fine sand; dark brown; damp	15.10
2	S-1	2.0 100%		0.1/0.1	SAND (fine), some silt, trace to little clay, no to trace coal fragments; dark brown to brown; damp to moist	
3						
4	S-2	1.4 70%	02	0.1/0.1	wet - GROUNDWATER @ 5.0 FT	
5						11.10
6	S-3	1.0 50%		0.1/0.1	CLAY, trace silt & roots; gray & brown; mottled; damp	
7						9.10
8					BOH @ 7.0 FT.	
9						
10						

CONTRACTOR: Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: Art Carion

BORING NO.: 36-BB-SB01

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-BB-SB02

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

RIG: None used - hand sampled				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	--	??	1" ID	2/23/95	0.0 - 7.0	Sunny & warm	5.0	1451
LENGTH	--	3.0'	3.0'					
TYPE	--	Hand	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole
A = Auger W = Wash C = Core P = Piston	

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.1	SAND (fine), little silt, trace roots; dark gray; damp	1.0
2	S-1	2.0 100%		0.1/0.1	SILT, little clay; brown; mottled; damp	
3						3.6
4	S-2	2.0 100%	02	0.1/0.1	CLAY, some silt, trace fine sand; gray damp	
5						5.0
6	S-3	2.0 100%		0.1/0.1	SAND (fine), little to some silt; gray wet - GROUNDWATER @ 5.0FT	6.5
7					CLAY, trace silt & fine sand; gray & orange; mottled; damp	7.0
8					BOH @ 7.0 FT.	
9						
10						

CONTRACTOR: \_\_\_\_\_

Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: \_\_\_\_\_

Art Carion

BORING NO.: 36-BB-SB02

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-BB-SB03

COORDINATES: EAST: 2466323.0895

NORTH: 362251.6494

ELEVATION: SURFACE: 19.00

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/25/95	0.0 - 7.0	Sunny & mild	5.0	1202
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary      C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.3/0.2	SAND (fine), some silt, trace coarse sand & gravel; dk brown; damp	1.0
2	S-1	1.8 90%		0.2/0.2	SILT, some clay, little fine sand; brown & gray; damp	
3						3.5
4	S-2	1.7 85%	02	0.2/0.2	SAND (fine), some silt, trace clay; gray; damp to moist	
5						
6	S-3	2.0 100%		0.0/0.0	wet - GROUNDWATER @ 5.0 FT	
7						7.0
8					BOH @ 7.0 FT	
9						
10						

CONTRACTOR: Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: Art Carion

BORING NO.: 36-BB-SB03

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467917.3209  
 ELEVATION: SURFACE: 4.00

BORING NO.: 36-DAB-SB01  
 NORTH: 361684.7814

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/24/95	0.0 - 5.0	Sunny & mild	5.0	1145
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<b>SAMPLE TYPE</b> S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	<b>DEFINITIONS</b> PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole
---	--

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, little roots; brown; damp	
2	S-1	1.6 80%	01	0.2/0.1	trace clay; no roots; dark brown; damp to moist	
3						
4	S-2	1.0 50%		0.1/0.1	gray; moist to wet	
5					GROUNDWATER @ 5.0 FT	5.0
6					BOH @ 5.0 FT	-1.00
7						
8						
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-DAB-SB01      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467906.4058  
 ELEVATION: SURFACE: 3.00

BORING NO.: 36-DAB-SB02  
 NORTH: 361693.0392

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/24/95	0.0 - 9.0	Sunny & mild	5.0	1046
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger                  T = Shelby Tube      W = Wash                  R = Air Rotary      C = Core                  D = Direct Push      P = Piston                  N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter                  ppm = parts per million                  PS = Point Source                  BG = Background                  BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.3/0.1	SAND (fine), some silt, little clay, trace rock fragments & debris; brown; moist	
2	S-1	1.6 80%		0.1/0.1	no clay, trace coarse sand & glass; dark brown; moist	
3						
4	S-2	1.7 85%	02	0.1/0.1	trace clay & wood; moist to wet	
5					GROUNDWATER @ 5.0 FT	
6	S-3	2.0 100%		0.1/0.1		5.6 -2.60
7					PEAT & WOOD, trace leaves & roots; dark brown; moist	
8	S-4	1.1 55%		0.1/0.1		
9						9.0 -6.00
10					BOH @ 9.0 FT	

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-DAB-SB02      SHEET 1 OF 1



# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467923.7503  
 ELEVATION: SURFACE: 3.10

BORING NO.: 36-DAB-SB03  
 NORTH: 361697.6333

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/24/95	0.0 - 7.0	Sunny & mild	4.0	1320
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt & debris; dark brown; moist	
2	S-1	1.8 90%	01	0.1/0.1	little clay, trace glass; gray; damp	
3						
4	S-2	2.0 100%		0.1/0.1		3.6 -0.50
5					PEAT & WOOD; dark brown; moist to wet	
6	S-3	1.5 75%		0.1/0.1	GROUNDWATER @ 4.0 FT	
7						7.0 -3.90
8					BOH @ 7.0 FT	
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-DAB-SB03      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467723.9811  
 ELEVATION: SURFACE: 2.10

BORING NO.: 36-DAD-SB03  
 NORTH: 361681.3606

RIG: <u>Geoprobe 5400</u>				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/24/95	0.0 - 7.0	Sunny & cool	1.0	0857
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.3/0.1	SAND (fine), some silt, trace clay & gravel; moist	
2	S-1	1.1 55%		0.1/0.1	trace debris & roots; wet GROUNDWATER @ 1.0 FT	
3						3.0 -0.90
4	S-2	0.8 40%		0.2/0.1	PEAT & WOOD; wet	
5						
6	S-3	0.7 35%		0.1/0.1		
7						7.0 -4.90
8					BOH @ 7.0 FT	
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-DAD-SB03      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-FCA-SB01  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/27/95	0.0 - 9.0	Sunny & warm	9.0	1628
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.0	SILT, little clay, trace fine to med. sand; dark brown; damp	1.0
2	S-1	2.0 100%		0.1/0.1	SILTY CLAY, trace coarse sand; brown hard; damp	
3						3.1
4	S-2	2.0 100%		0.0/0.0	CLAY, little silt; olive drab & orange; mottled; damp	
5					trace roots	
6	S-3	2.0 100%		0.0/0.0		6.8
7						
8	S-4	2.0 100%	04	0.1/0.1	SAND (fine), some silt, little to trace clay; brown; damp to moist (wet @ 8.8 ft) GROUNDWATER @ 9.0 FT	
9						9.0
10						

CONTRACTOR: Microseeps BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion BORING NO.: 36-FCA-SB01 SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB02

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/22/95	0.0 - 11.0	Sunny & mild	8.6	1310
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = Air Rotary        C = Core D = Direct Push      P = Piston N = No Sample	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.2	SAND (fine), some silt, trace clay; brown to gray; moist	1.0
2	S-1	0.9 45%		0.6/0.2	CLAY, some silt, trace to some fine sand (increasing w/ depth), trace wood; mottled; damp	
3						
4	S-2	0.0 0%				No recovery
5						
6	S-3	2.0 100%		0.0/0.0		
7						
8	S-4	1.5 75%	04	0.0/0.0		8.6
9					SAND (fine), some silt, trace clay; brown and gray; wet	9.0
10	S-5	--		--	SAND (fine to med.), some silt, trace coarse	

CONTRACTOR: \_\_\_\_\_

Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: \_\_\_\_\_

Art Carion

BORING NO.: 36-FCA-SB02

SHEET 1 OF 2

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB02

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = Parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11	11.0				Continued from Sheet 1 sand; brown; wet - GROUNDWATER @ 8.6 FT	
12					BOH @ 11.0 FT.	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR:  
OPERATOR:

Microseeps  
Art Carion

BAKER REP.: Mark DeJohn  
BORING NO.: 36-FCA-SB02

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2466642.1249  
 ELEVATION: SURFACE: 11.70

BORING NO.: 36-FCA-SB03  
 NORTH: 361472.3530

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/23/95	0.0 - 7.0	Sunny & cool	5.0	0803
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.3/0.3	CLAY, some silt, trace fine sand; black & brown; moist	10.70
2	S-1	1.6 80%		0.1/0.1	CLAY, some silt, trace roots; gray & orange; mottled; damp	9.70
3					SILT, some clay, trace fine sand; gray to brown & gray; mottled	
4	S-2	2.0 100%	02	0.3/0.3		
5					wet - GROUNDWATER @ 5.0 FT, in a 0.5 ft thick clayey sand layer	
6	S-3	2.0 100%		0.3/0.3	damp; iron staining in root traces	
7						4.70
8					BOH @ 7.0 FT.	
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-FCA-SB03      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB04

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/25/95	0.0 - 7.0	Sunny & mild	5.0	1354
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston
	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, little clay; brown; moist	
2	S-1	1.7 85%		0.1/0.1	moist to wet	2.0
3					CLAY, trace silt; brown & gray; mottled; damp	3.0
4	S-2	2.0 100%	02	0.2/0.1	CLAY, some fine sand, little silt; brown & gray; mottled; moist (amt. of sand increasing w/ depth)	4.8
5						
6	S-3	1.2 60%		0.1/0.1	SAND (fine to med), some silt, little clay; brown; wet - GROUNDWATER @ 5.0 FT	7.0
7						
8					BOH @ 7.0 FT	
9						
10						

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-FCA-SB04

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB05

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/27/95	0.0 - 7.0	Sunny & warm	6.1	1433
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = Air Rotary      C = Core D = Direct Push      P = Piston N = No Sample	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.3/0.0	CLAY, little silt; brown; mottled; moist to wet	
2	S-1	2.0 100%		0.1/0.1		2.0
3					SANDY CLAY, some silt; brown & gray; mottled; damp	
4	S-2	2.0 100%	02			
5						
6	S-3	1.9 95%		0.0/0.0	SAND (fine to med), little silt, trace clay; gray; wet GROUNDWATER @ 6.1 FT	6.1
7						7.0
8					BOH @ 7.0 FT	
9						
10						

CONTRACTOR:

Microseeps

BAKER REP.:

Mark DeJohn

OPERATOR:

Art Carion

BORING NO.:

36-FCA-SB05

SHEET 1 OF 1



# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2466714.0132  
 ELEVATION: SURFACE: 10.60

BORING NO.: 36-FCA-SB06  
 NORTH: 361487.4820

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/23/95	0.0 - 9.0	Sunny & cool	8.0	0912
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

**REMARKS:**

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger                  T = Shelby Tube      W = Wash                  R = Air Rotary        C = Core                  D = Direct Push      P = Piston                  N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter                  ppm = parts per million                  PS = Point Source                  BG = Background                  BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.	
1	D-N		00	0.2/0.2	CLAY, trace to little silt & fine sand; red, orange, & gray; mottled; damp w/ 0.3 ft layers of silty clay @ 1-3 ft          SAND (fine to med.), some silt, trace clay; dark gray; wet GROUNDWATER @ 9.0 FT BOH @ 9.0 FT.		
2	S-1	2.0 100%		0.0/0.0			
3							
4	S-2	1.9 95%		0.1/0.1			
5							
6	S-3	2.0 100%	03				
7							
8	S-4	1.5 75%		0.1/0.1		8.0	2.60
9						9.0	1.60
10							

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-FCA-SB06      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB07

COORDINATES: EAST: 2466730.7388

NORTH: 361658.5140

ELEVATION: SURFACE: 10.90

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/22/95	0.0 - 5.0	Sunny & mild	3.0	1613
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary      C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.	
1	D-N		00	0.2/0.1	SAND (fine), some silt, little roots; dark brown; damp to wet	9.30	
2	S-1	1.3 65%	01	0.8/0.1		CLAY, some silt, trace roots; mottled; damp	7.90
3					SAND (fine), some silt & clay; brown & gray; wet GROUNDWATER @ 3.0 FT	5.90	
4	S-2	1.5 75%		0.1/0.1			
5							
6					BOH @ 5.0 FT		
7							
8							
9							
10							

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-FCA-SB07

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB08

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/27/95	0.0 - 5.0	Sunny & warm	3.0	1338
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary        C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt & clay; brown moist	1.0
2	S-1	1.9 95%	01	0.1/0.1	CLAY, some silt, little fine sand; brown & gray; mottled; moist	1.8
3					SAND (fine), some silt, little clay brown & gray; mottled; moist	3.0
4	S-2	1.6 80%		0.2/0.1	SAND (fine to med.), some silt, little clay brownish-gray; wet	
5					GROUNDWATER @ 3.0 FT	5.0
6					BOH @ 5.0 FT	
7						
8						
9						
10						

CONTRACTOR:

Microseeps

BAKER REP.:

Mark DeJohn

OPERATOR:

Art Carion

BORING NO.:

36-FCA-SB08

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2466770.5137  
 ELEVATION: SURFACE: 10.60

BORING NO.: 36-FCA-SB09  
 NORTH: 361495.2671

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/22/95	0.0 - 7.0	Sunny & mild	5.0	1718
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary        C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	CLAY, little silt; brown & gray; mottled; damp	
2	S-1	0.8 40%		0.3/0.2		
3						3.0
4	S-2	2.0 100%	02	--	SAND (fine) some silt & clay; red & gray; damp	4.8
5						5.80
6	S-3	2.0 100%		0.2/0.2	SAND (fine to med.), some silt, trace clay; brown; wet	
7					GROUNDWATER @ 5.0 FT	7.0
8					BOH @ 7.0 FT.	3.60
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-FCA-SB09      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2466794.7749  
 ELEVATION: SURFACE: 14.90

BORING NO.: 36-FCA-SB10  
 NORTH: 361671.0721

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/22/95	0.0 - 7.0	Sunny & mild	5.0	1417
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

**REMARKS:**

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger                  T = Shelby Tube      W = Wash                  R = Air Rotary        C = Core                  D = Direct Push      P = Piston                  N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter                  ppm = parts per million                  PS = Point Source                  BG = Background                  BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.1	SILTY SAND, little roots; dark brown; damp	13.90
2	S-1	0.8 40%		0.1/0.1	SAND (fine), some silt, trace clay; light brown; damp	11.90
3						
4	S-2	2.0 100%	02	0.1/0.1	SAND (fine to med.), little silt gray; moist	10.10
5						
6	S-3	2.0 100%		0.2/0.1	CLAY, some fine sand & silt; gray, brown, & red; damp to moist alternating with SAND (fine to med.), little silt; gray, brown, & red; wet	
7					GROUNDWATER @ 5.0 FT	7.90
8					BOH @ 7.0 FT.	
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-FCA-SB10      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB11

COORDINATES: EAST: 2466828.9600

NORTH: 361508.6311

ELEVATION: SURFACE: 11.20

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/23/95	0.0 - 7.0	Sunny & cool	6.4	1004
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

**REMARKS:**

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary      C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.2	SILT, some clay, trace fine sand & roots; brown & gray; damp	10.20
2	S-1	2.0 100%		0.1/0.1	CLAY, trace silt; gray w/ iron stained root traces; damp	8.50
3						
4	S-2	2.0 100%		0.1/0.1	SAND (fine), some silt & clay; gray w/ iron stained root traces; moist	
5						
6	S-3	2.0 100%	03	0.2/0.2		4.80
7					SAND (fine to med.), some silt; gray; wet - GROUNDWATER @ 6.4 FT	4.20
8					BOH @ 7.0 FT.	
9						
10						

CONTRACTOR:

Microseeps

BAKER REP.:

Mark DeJohn

OPERATOR:

Art Carion

BORING NO.:

36-FCA-SB11

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2466841.6626  
 ELEVATION: SURFACE: 15.10

BORING NO.: 36-FCA-SB12  
 NORTH: 361676.9152

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/22/95	0.0 - 7.0	Sunny & mild	5.5	1510
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary      C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1		
2	S-1	1.4 70%		0.2/0.1	SAND (fine), some silt, no to little clay; gray & brown damp	
3						
4	S-2	2.0 100%	02	0.1/0.1	SAND (fine), some silt; gray; damp to moist	11.70
5						
6	S-3	2.0 100%		0.2/0.2	CLAY, some silt; brown & gray; mottled; damp	9.5
7					SAND (fine), some silt & clay; mottled; moist to wet	8.50
8					GROUNDWATER @ 6.5 FT	8.10
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-FCA-SB12      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB13

COORDINATES: EAST: 2466866.5479

NORTH: 361614.3006

ELEVATION: SURFACE: 8.90

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/27/95	0.0 - 5.0	Sunny & warm	3.0	1518
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary      C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, trace clay; brown & gray; moist  slightly mottled; amt. of clay decreasing w/ depth  wet - GROUNDWATER @ 3.0 FT	
2	S-1	1.6 80%	01	0.1/0.1		
3						
4	S-2	1.5 75%		0.1/0.1		
5						5.0
6					BOH @ 5.0 FT	3.90
7						
8						
9						
10						

CONTRACTOR: Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: Art Carion

BORING NO.: 36-FCA-SB13

SHEET 1 OF 1



# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FCA-SB14

COORDINATES: EAST: 2466893.4568

NORTH: 361524.1249

ELEVATION: SURFACE: 9.90

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
1-3/8" ID		--	1-1/8" ID	2/23/95	0.0 - 5.0	Sunny & mild	2.8	1129
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					
REMARKS:								
<b>SAMPLE TYPE</b> S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = Air Rotary        C = Core D = Direct Push      P = Piston N = No Sample				<b>DEFINITIONS</b> PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole				
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.		
1	D-N		00	0.5/0.1	SILT, some organic matter & fine sand; dark gray; damp	8.90		
2	S-1	1.3 65%	01		SAND (fine), little to some silt & clay; gray w/ iron staining in root traces; moist, wet from 2.8-3.2 ft GROUNDWATER @ 2.8 FT			
3								
4	S-2	1.3 65%		0.2/0.1				
5						4.90		
6					BOH @ 5.0 FT			
7								
8								
9								
10								

CONTRACTOR:

Microseeps

BAKER REP.:

Mark DeJohn

OPERATOR:

Art Carion

BORING NO.:

36-FCA-SB14

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FDA-SB01

COORDINATES: EAST: 2467690.0519

NORTH: 361963.3915

ELEVATION: SURFACE: 9.60

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/23/95	0.0 - 7.0	Sunny & warm	6.0	1635
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston
	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.2	SILT, trace fine sand, clay, & roots; dark brown; damp	8.60
2	S-1	0.9 45%		0.2/0.2	SAND (fine), some silt, little glass & rock fragments; dark brown; damp	
3						
4	S-2	1.0 50%	02	0.3/0.1	little burnt wood, glass & brick fragments; moist to wet	
5						
6	S-3	1.5 75%		0.1/0.1		3.70
7					SAND (fine), some silt, trace clay zone @ 5.9-6.2 ft; G.WATER @ 6.0ft	2.60
8					CLAY, trace to little silt; gray w/ staining in vertical fractures; damp	
9					BOH @ 7.0 FT.	
10						

CONTRACTOR: Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: Art Carion

BORING NO.: 36-FDA-SB01

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467774.0857  
 ELEVATION: SURFACE: 13.10

BORING NO.: 36-FDA-SB02  
 NORTH: 361958.3465

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/27/95	0.0 - 11.0	Sunny & cool	9.0	0935
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

**REMARKS:**

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary      C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.2	SAND (fine), some silt, trace roots; dark brown; damp	12.10
2	S-1	1.8 90%		0.4/0.2	SAND (fine), some silt, trace clay; brown; mottled; damp	
3						
4	S-2	0.6 30%		0.2/0.2	little clay, trace glass & wood; brown	
5						8.10
6	S-3	0.3 15%		0.1/0.1	SAND & DEBRIS, incl. metal, glass, & rock fragments; dark brown; damp	
7						6.10
8	S-4	0.8 40%	04	0.1/0.1	SAND (fine), some silt, little glass & brick fragments; olive drab; moist	
9					GROUNDWATER @ 9.0 FT	
10	S-5	1.0 50%		0.1/0.1	some debris, incl. stainless wire, glass, metal, & brick	

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-FDA-SB02      SHEET 1 OF 2

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-FDA-SB02

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11					Continued from Sheet 1 - fragments; moist to wet	11.0
					BOH @ 11.0 FT.	2.10
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-FDA-SB02

SHEET 2 OF 2

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FDA-SB03

COORDINATES: EAST: 2467850.7374

NORTH: 362035.7242

ELEVATION: SURFACE: 11.50

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/22/95	0.0 - 11.0	Sunny & cool	9.0	0936
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.1	SAND (fine), some silt, trace roots; black & gray; wet	10.50
2	S-1	1.8 90%		0.1/0.1	SAND (fine), some silt, trace to little clay; grayish-brown; damp	
3						
4	S-2	1.2 60%		0.2/0.1	Sand (fine), little silt, trace gravel; gray and brown; moist	
5						
6	S-3	1.3 65%		0.1/0.1	wet - GROUNDWATER @ 9.0 FT	
7						
8	S-4	1.4 70%	04	0.1/0.1	CLAY, trace silt; gray; damp	
9						
10	S-5	2.0 100%		0.1/0.1	Match to Sheet 2	2.40

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-FDA-SB03

SHEET 1 OF 2

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FDA-SB03

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11	11.0				Continued from Sheet 1	11.0
12					BOH @ 11.0 FT.	0.50
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR:

Microseeps

BAKER REP.:

Mark DeJohn

OPERATOR:

Art Carion

BORING NO.:

36-FDA-SB03

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FDA-SB04

COORDINATES: EAST: 2467881.1048

NORTH: 361897.2446

ELEVATION: SURFACE: 12.60

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/24/95	0.0 - 7.0	Sunny & warm	3.5	1559
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE				DEFINITIONS			
S = Split Spoon	A = Auger			PID = Photoionization Detection Meter			
T = Shelby Tube	W = Wash			ppm = parts per million			
R = Air Rotary	C = Core			PS = Point Source			
D = Direct Push	P = Piston			BG = Background			
N = No Sample				BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.	
1	D-N		00	0.1/0.1	SAND (fine), some silt, trace roots; brown; damp		
2	S-1	1.4 70%		0.2/0.2		little glass, metal, & rock fragments, no roots; brown; damp	
3							
4	S-2	1.5 75%	01	0.2/0.2	wet - GROUNDWATER @ 3.5 FT		
5							
6	S-3	1.4 70%		0.2/0.2		6.0 6.60	
7					SAND (fine to med.), some silt, trace clay; brown; wet	6.5 6.10	
8					CLAY, trace silt; orange & gray; mottled; damp	7.0 5.60	
9					BOH @ 7.0 FT		
10							

CONTRACTOR: Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: Art Carion

BORING NO.: 36-FDA-SB04

SHEET 1 OF 1

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2468000.0212  
 ELEVATION: SURFACE: 6.80

BORING NO.: 36-FDA-SB05  
 NORTH: 361908.5314

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/27/95	0.0 - 7.0	Sunny & cool	4.0	1032
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE				DEFINITIONS			
S = Split Spoon	A = Auger			PID = Photoionization Detection Meter			
T = Shelby Tube	W = Wash			ppm = parts per million			
R = Air Rotary	C = Core			PS = Point Source			
D = Direct Push	P = Piston			BG = Background			
N = No Sample				BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.	
1	D-N		00	0.1/0.1	SAND (fine), little silt; tan; damp	5.80	
2	S-1	1.0 70%	01	0.1/0.0	SAND (fine), some silt & debris, incl. glass, rock frag. & a light blue sandy material; dark rust-brown; damp	3.80	
3							
4	S-2	1.1 55%		0.1/0.1	SAND (fine), some silt & clay, brown; mottled; moist to wet		
5					GROUNDWATER @ 4.0 FT	1.80	
6	S-3	1.0 50%		0.1/0.1	CLAY, some silt, little wood; dark gray; moist		
7						-0.20	
8					BOH @ 7.0 FT		
9							
10							

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-FDA-SB05      SHEET 1 OF 1



# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-FDA-SB06

COORDINATES: EAST: 2467963.3601

NORTH: 362025.7810

ELEVATION: SURFACE: 18.30

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/25/95	0.0 - 17.0	Sunny & cold	16.5	0929
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = Air Rotary      C = Core D = Direct Push      P = Piston N = No Sample	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.2	SAND (fine), some silt, trace clay; dark brown; damp	17.30
2	S-1	1.9 95%		0.2/0.1	SAND (fine), some silt, trace to little clay, little debris, incl. metal and charred material; dark gray; damp	
3						
4	S-2	0.5 25%		0.1/0.1	trace medium sand	
5						
6	S-3	0.5 25%		0.2/0.1		
7						
8	S-4	0.5 25%		0.2/0.1	some concrete, glass, & metal, little silt; brown; damp	
9						
10	S-5	0.8 40%		0.1/0.1	Some glass, rock fragments, & charred material; brown; damp	

Match to Sheet 2

CONTRACTOR: Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: Art Carion

BORING NO.: 36-FDA-SB06

SHEET 1 OF 2

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-FDA-SB06

SAMPLE TYPE					DEFINITIONS	
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11	11.0				Continued from Sheet 1	
12	S-6	1.1 55%		0.1/0.1	some rock fragments, glass, & charred wood, little clay; brown; damp	
13	13.0				wet zone from 14.0-14.2 ft	
14	S-7	1.7 85%	07	0.1/0.1		14.2 4.10
15	15.0				CLAY, trace silt & fine sand; brown & gray; mottled; damp	
16	S-8	1.3 65%		0.1/0.1		16.3 2.00
17	17.0				CLAY, some fine sand & silt; gray; wet GROUNDWATER @ 16.5 FT	17.0 1.30
18					BOH @ 17.0 FT.	
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR:  
 OPERATOR:

Microseeps  
Art Carion

BAKER REP.:  
 BORING NO.:

Mark DeJohn  
36-FDA-SB06

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OA-SB01

COORDINATES: EAST: 2466944.2643

NORTH: 362091.9758

ELEVATION: SURFACE: 10.60

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/22/95	0.0 - 5.0	Sunny & cool	3.0	1031
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE				DEFINITIONS				
S = Split Spoon	A = Auger			PID = Photoionization Detection Meter				
T = Shelby Tube	W = Wash			ppm = parts per million				
R = Air Rotary	C = Core			PS = Point Source				
D = Direct Push	P = Piston			BG = Background				
N = No Sample					BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.		
1	D-N		00	0.0/0.0	SILT, little fine sand; black; damp	9.60		
2	S-1	2.0 100%	01	0.1/0.1	SAND (fine), some silt, trace clay & coarse sand; brown and gray; damp	8.00		
3								
4	S-2	1.3 65%		0.2/0.2	SAND (fine), little to some silt, no to trace coarse sand; gray; wet - GROUNDWATER @ 3.0 FT	5.60		
5								
6					BOH @ 5.0 FT			
7								
8								
9								
10								

CONTRACTOR: Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: Art Carion

BORING NO.: 36-OA-SB01

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-OA-SB01A  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 5.0	Sunny & cool	4.0	1537
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

**REMARKS:**

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger                  T = Shelby Tube      W = Wash                  R = Air Rotary        C = Core                  D = Direct Push       P = Piston                  N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter                  ppm = parts per million                  PS = Point Source                  BG = Background                  BOH = Bottom of Hole</p>
---	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, trace gravel, clay & roots; black; moist	
2	S-1	1.4 70%	01	0.1/0.1		
3						3.0
4	S-2	1.7 85%		0.1/0.0	SAND (fine), some silt, little clay brown; mottled; moist	4.0
5					SAND (fine), some silt, trace clay; brown; wet	5.0
6					GROUNDWATER @ 4.0 FT.	
7					BOH @ 5.0 FT.	
8						
9						
10						

CONTRACTOR: Microseeps BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion BORING NO.: 36-OA-SB01A SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-OA-SB01B  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 3.0	Sunny & cool	3.0	1116
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<b>SAMPLE TYPE</b> S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = Air Rotary        C = Core D = Direct Push      P = Piston N = No Sample	<b>DEFINITIONS</b> PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole
---	--

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, trace clay; brown; moist w/ wet zone @ 1 ft	
2	S-1	1.8 90%	01	0.1/0.1		trace to little clay; moist to wet
3					GROUNDWATER @ 3.0 FT.	3.0
4					BOH @ 3.0 FT.	
5						
6						
7						
8						
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-OA-SB01B      SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-OA-SB01C  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 5.0	Sunny & cool	3.0	1646
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary      C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, trace gravel & clay; brown; moist	
2	S-1	1.8 90%	01	0.1/0.1	SAND (fine), some silt, little clay; gray; moist	
3						
4	S-2	1.9 95%		0.1/0.1	wet GROUNDWATER @ 3.0 FT.	
5						5.0
6					BOH @ 5.0 FT.	
7						
8						
9						
10						

CONTRACTOR: Microseeps BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion BORING NO.: 36-OA-SB01C SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OA-SB01D

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 5.0	Sunny & cool	3.0	1719
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE				DEFINITIONS				
S = Split Spoon	A = Auger			PID = Photoionization Detection Meter				
T = Shelby Tube	W = Wash			ppm = parts per million				
R = Air Rotary	C = Core			PS = Point Source				
D = Direct Push	P = Piston			BG = Background				
N = No Sample					BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.		
1	D-N		00	0.1/0.1	SAND (fine), some silt, trace gravel & clay; brown; moist			
2	S-1	2.0 100%	01	0.1/0.1	SAND (fine), some silt, little clay w/ narrow black layer @ 1.6 ft brown; moist	2.8		
3								
4	S-2	1.8 90%		0.1/0.1	SAND (fine), some silt, trace clay; gray; wet GROUNDWATER @ 3.0 FT.	5.0		
5								
6					BOH @ 5.0 FT.			
7								
8								
9								
10								

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-OA-SB01D

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OA-SB02

COORDINATES: EAST: 2466863.6683

NORTH: 361857.1924

ELEVATION: SURFACE: 15.10

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/25/95	0.0 - 9.0	Sunny & cool	7.0	1051
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole
A = Auger W = Wash C = Core P = Piston	

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, trace roots & clay; dark brown; damp	14.10
2	S-1	2.0 100%		0.1/0.1	SILT, some clay, little to some fine sand; brown; damp	12.10
3						
4	S-2	1.5 75%		0.0/0.0	SAND (fine), some silt, trace clay; Light brown; moist	
5					medium sand; damp to moist	
6	S-3	2.0 100%	03	0.0/0.0		9.00
7					CLAY, some silt, trace fine sand; brown & gray; mottled; damp	8.10
8	S-4	2.0 100%		0.0/0.0	SAND (fine), little silt; grayish-brown; wet GROUNDWATER @ 7.0 FT	7.30
9					CLAY, some fine sand & silt; grayish-brown w/ iron stains; damp	6.10
10					BOH @ 9.0 FT	

CONTRACTOR:

Microseeps

BAKER REP.: Mark DeJohn

OPERATOR:

Art Carion

BORING NO.: 36-OA-SB02

SHEET 1 OF 1



# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OA-SB03

COORDINATES: EAST: 2467165.5508

NORTH: 361882.6724

ELEVATION: SURFACE: 14.70

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/25/95	0.0 - 11.0	Sunny & mild	7.0	1509
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE				DEFINITIONS			
S = Split Spoon	A = Auger			PID = Photoionization Detection Meter			
T = Shelby Tube	W = Wash			ppm = parts per million			
R = Air Rotary	C = Core			PS = Point Source			
D = Direct Push	P = Piston			BG = Background			
N = No Sample				BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.	
1	D-N		00	0.1/0.1	SAND (fine), some silt, trace clay; dark brown; damp		
2	S-1	2.0 100%		0.0/0.0	CLAY, some silt, trace fine sand; dark brown; mottled; damp	13.10	
3						12.60	
4	S-2	2.0 100%		0.1/0.1	SAND (fine), some silt, rock frag. & glass; dark brown; damp to wet	11.70	
5							
6	S-3	1.0 50%	03	0.1/0.1	SAND (fine), some silt, little clay, trace gravel; dark gray to black; damp to moist		
7							
8	S-4	0.0 0%		--			
9							
10	S-5	0.4 20%		0.1/0.0	wet - GROUNDWATER @ 7.0 FT Match to Sheet 2		

CONTRACTOR:  
OPERATOR:

Microseeps  
Art Carion

BAKER REP.: Mark DeJohn  
BORING NO.: 36-OA-SB03

SHEET 1 OF 2

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OA-SB03

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = Parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11	11.0				Continued from Sheet 1	11.0
12					BOH @ 11.0 FT.	3.70
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR: Microseeps

OPERATOR: Art Carion

BAKER REP.: Mark DeJohn

BORING NO.: 36-OA-SB03

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OA-SB04

COORDINATES: EAST: 2467196.7963

NORTH: 362076.6694

ELEVATION: SURFACE: 10.80

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/24/95	0.0 - 7.0	Sunny & cool	5.0	0813
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE				DEFINITIONS				
S = Split Spoon	A = Auger			PID = Photoionization Detection Meter				
T = Shelby Tube	W = Wash			ppm = parts per million				
R = Air Rotary	C = Core			PS = Point Source				
D = Direct Push	P = Piston			BG = Background				
N = No Sample					BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.		
1	D-N		00	2.2/0.1	SAND (fine), little to some silt, trace coarse sand & clay; dark brown to gray; damp			
2	S-1	1.6 80%		0.2/0.1				
3					sand becomes fine to med.; moist			
4	S-2	1.7 85%	02	0.1/0.1				
5								
6	S-3	2.0 100%		0.1/0.1	wet - GROUNDWATER @ 5.0 FT	5.8		
7					CLAY, trace to little silt, trace fine sand; gray; damp	7.0		
8					BOH @ 7.0 FT			
9								
10								

CONTRACTOR: Microseeps  
OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
BORING NO.: 36-OA-SB04

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467343.4892  
 ELEVATION: SURFACE: 12.60

BORING NO.: 36-OA-SB05  
 NORTH: 361682.9734

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/28/95	0.0 - 7.0	Cloudy & mild	5.0	0824
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.1	SILT, little clay, trace fine sand & roots; dark brown; damp	11.60
2	S-1	1.7 85%		0.3/0.2	SAND (fine), little silt; brown; damp	
3						
4	S-2	1.5 75%	02	0.2/0.2	some silt; tan; damp to moist	
5						
6	S-3	2.0 100%		0.1/0.1	wet - GROUNDWATER @ 5.0 FT	6.80
7					CLAY, little silt, trace fine sand; gray & orange, regularly spaced vertical bands; damp	5.60
8					BOH @ 7.0 FT	
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-OA-SB05

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OA-SB06

COORDINATES: EAST: 2467691.3752

NORTH: 362188.7242

ELEVATION: SURFACE: 10.90

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/27/95	0.0 - 7.0	Sunny & warm	6.0	1708
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE				DEFINITIONS			
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter			
T = Shelby Tube		W = Wash		ppm = parts per million			
R = Air Rotary		C = Core		PS = Point Source			
D = Direct Push		P = Piston		BG = Background			
N = No Sample				BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.	
1	D-N		00	0.3/0.1	SILT, some fine sand, trace roots; dark brown; damp	9.60	
2	S-1	1.9 95%		0.2/0.1	SAND (fine), some silt, trace coarse sand; tan; lamination @ 1.3-1.8 ft; damp		
3							
4	S-2	0.8 40%	02	0.0/0.0	metal fragments		
5							
6	S-3	0.0 0%			No recovery, but hit water		
7					GROUNDWATER @ 6.0 FT	3.90	
8					BOH @ 7.0 FT		
9							
10							

CONTRACTOR: Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: Art Carion

BORING NO.: 36-OA-SB06

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-OA-SB07  
 COORDINATES: EAST: 2467985.9325 NORTH: 361849.5907  
 ELEVATION: SURFACE: 4.50

RIG: None used - hand sampled				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER						
SIZE (DIAM.)	--	??	1" ID	2/24/95	0.0 - 4.0	Sunny & mild	3.0	1453
LENGTH	--	3.0'	3.0'					
TYPE	--	Hand	Plastic					

REMARKS: MKD collected the surface sample by hand. Microseeps then proceeded to collect subsurface samples. A third sample (1-3 ft) not shown herein was collected for analysis, due to lack of volume at 2-4 ft.

SAMPLE TYPE	DEFINITIONS
S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = Air Rotary        C = Core D = Direct Push      P = Piston N = No Sample	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	S-1	1.5 75%	00	0.1/0.1	SAND (fine), some silt, trace clay & roots; dark brown; damp  little debris; moist to wet	
2						2.0
3	S-2	0.7 35%		0.1/0.1	SAND (fine), some silt; gray; wet - GROUNDWATER @ 3.0 FT	3.0    1.50
4						4.0
5						
6						
7						
8						
9						
10						

CONTRACTOR: Microseeps BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion BORING NO.: 36-OA-SB07 SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2468124.1115  
 ELEVATION: SURFACE: 5.60

BORING NO.: 36-OA-SB08  
 NORTH: 362057.2764

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/27/95	0.0 - 5.0	Sunny & warm	3.0	1123
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

**REMARKS:**

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.1	SAND (fine), some silt, little debris, incl. glass, rock fragments & charred wood; dark brown; damp	3.80
2	S-1	2.0 100%	01	0.2/0.1		
3					SAND (fine), little silt; brown; damp to moist	
4	S-2	1.5 75%		0.1/0.1	wet - GROUNDWATER @ 3.0 FT	
5					CLAY, little silt, trace fine sand; brown; mottled; hard; damp	1.00
6					BOH @ 5.0 FT	0.60
7						
8						
9						
10						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-OA-SB08

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467303.6094  
 ELEVATION: SURFACE: 12.90

BORING NO.: 36-OF-SB01  
 NORTH: 361945.7150

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/21/95	0.0 - 13.0	P. Sun & cool	9.0	1247
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00		SAND (fine), little silt, trace clay; tan; moist	
2	S-1	2.0 100%		0.2/0.1		
3					gray, fine sand & silt layers	
4	S-2	2.0 100%		0.2/0.1		
5						5.0
6	S-3	1.3 65%		0.1/0.1	SAND (fine), little silt; gray; moist	
7						
8	S-4	2.0 100%	04	0.1/0.1	CLAY, trace fine sand & silt; gray & brown; damp	
9						
10	S-5	2.0 100%		--	SAND (fine to med), little silt, trace to little clay w/ clayey lenses; brown; wet Match to Sheet 2	3.90

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-OF-SB01      SHEET 1 OF 2



## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-OF-SB01

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = Parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11	11.0				Continued from Sheet 1 GROUNDWATER @ 9.0 FT.	
12	S-6	2.0 100%		--		
13	13.0				BOH @ 13.0 FT.	13.0 -0.10
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR:  
 OPERATOR:

Microseeps  
Art Carion

BAKER REP.:  
 BORING NO.:

Mark DeJohn  
36-OF-SB01

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OF-SB02

COORDINATES: EAST: 2467330.4014

NORTH: 361783.6034

ELEVATION: SURFACE: 11.90

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/21/95	0.0 - 9.0	P. Sun & cool	5.0	1721
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston
	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, little roots; dark brown; damp	10.90
2	S-1	1.4 70%		0.3/0.1	SAND (fine), little silt; brown lenses of fine sand & trace to little clay at 1-3 ft; gray; damp	
3						
4	S-2	2.0 100%	02	0.1/0.1	moist to wet GROUNDWATER @ 5.0 FT.	
5						6.30
6	S-3	2.0 100%		0.1/0.1	CLAY, trace silt; gray; damp	5.50
7						
8	S-4	1.4 70%		0.1/0.1	CLAY, some silt, little sand; reddish-gray; damp	
9						2.90
10					BOH @ 9.0 FT.	

CONTRACTOR: Microseeps

OPERATOR: Art Carion

BAKER REP.: Mark DeJohn

BORING NO.: 36-OF-SB02

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OF-SB03

COORDINATES: EAST: 2467473.3766

NORTH: 361962.4058

ELEVATION: SURFACE: 11.30

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/21/95	0.0 - 9.0	P. Sun & cool	6.0	1637
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston
	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.	
1	D-N		00	0.1/0.1	SAND (fine), little silt, trace gravel (at 0-1 ft), metal fragments & charred material; brown, tan & reddish brown; damp		
2	S-1	1.8 90%		0.1/0.1			
3							
4	S-2	1.4 70%		0.2/0.1		7.30	
5					SAND (fine), some silt; brown & gray; moist to wet GROUNDWATER @ 6.0 FT.		
6	S-3	1.9 95%	03	0.2/0.1		6.7	4.60
7					CLAY, trace silt & fine sand; brown to gray; damp		
8	S-4	1.4 70%		0.1/0.1	SAND (fine), little silt; brown; wet	8.3	3.00
9						8.7	2.60
10					CLAY, trace silt; brown to gray; damp	9.0	2.30
					BOH @ 9.0 FT.		

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-OF-SB03

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OF-SB04

COORDINATES: EAST: 2467520.8775

NORTH: 361783.3911

ELEVATION: SURFACE: 9.90

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/22/95	0.0 - 11.0	Sunny & cool	8.0	0826
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE				DEFINITIONS				
S = Split Spoon	A = Auger			PID = Photoionization Detection Meter				
T = Shelby Tube	W = Wash			ppm = parts per million				
R = Air Rotary	C = Core			PS = Point Source				
D = Direct Push	P = Piston			BG = Background				
N = No Sample					BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.		
1	D-N		00	0.1/0.1	SAND (fine), some silt, little glass & metal debris; dark brown; damp	7.70		
2	S-1	2.0 100%		0.1/0.1				
3					SAND (fine), little silt, trace wood fragments trace clay (amt. increasing w/ depth); dark gray to brown; damp	5.20		
4	S-2	2.0 100%		0.1/0.1				
5					SILTY CLAY, trace to little fine sand, trace roots; mottled; orange & gray; damp	2.90		
6	S-3	1.5 75%	03	0.1/0.1				
7					SAND (fine), some silt, little clay; orange, brown & gray; moist to wet - GROUNDWATER @ 8.0 FT	0.90		
8	S-4	1.6 80%		0.1/0.1				
9					SAND (fine to med.), some silt; brown; wet Match to Sheet 2			
10	S-5	2.0 100%		0.1/0.1				

CONTRACTOR: Microseeps  
OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
BORING NO.: 36-OF-SB04

SHEET 1 OF 2

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OF-SB04

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = Parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11	11.0				Continued from Sheet 1	11.0
12					BOH @ 11.0 FT.	-1.10
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR:  
OPERATOR:

Microseeps  
Art Carion

BAKER REP.: Mark DeJohn  
BORING NO.: 36-OF-SB04

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OF-SB05

COORDINATES: EAST: 2467652.6555

NORTH: 361883.0544

ELEVATION: SURFACE: 10.30

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/21/95	0.0 - 13.0	P. Sun & mild	11.0	1550
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston
	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00			
2	S-1	0.8 40%		0.2/0.1	SAND (fine), little silt & wood fragments; black & gray; damp	
3						
4	S-2	2.0 100%		0.1/0.1	little glass & metal	
5						
6	S-3	1.0 50%		0.1/0.1		
7						
8	S-4	0.0 0%		--	No recovery	
9						9.0
10	S-5	1.5 75%		--	SAND (fine), little silt, trace clay; moist	1.30

Match to Sheet 2

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-OF-SB05

SHEET 1 OF 2

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-OF-SB05

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = Parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11					Continued from Sheet 1	
11.0					SAND (fine), little silt, trace coarse sand; brown to gray; wet GROUNDWATER @ 11.0 FT.	-0.70
12	S-6	1.7 85%	06	0.1/0.1		-1.20
13					SAND (fine), little silt, trace clay w/ red laminae; brown; moist	-2.70
13.0					BOH @ 13.0 FT.	
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR:  
 OPERATOR:

Microseeps  
Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-OF-SB05

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467662.9406  
 ELEVATION: SURFACE: 8.60

BORING NO.: 36-OF-SB06  
 NORTH: 361796.0563

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	2/21/95	0.0 - 11.0	P. Sun & mild	9.0	1413
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	A = Auger W = Wash C = Core P = Piston
	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1		
2						
3						
4	S-2	0.7 35%		0.1/0.1	SAND (fine), little silt, trace clay w/ layers of clay & gravel & glass; brown, gray, & reddish-brown; moist	
5					wet zone @ 5.0-5.7 ft	
6	S-3	2.0 100%	03	0.2/0.2		6.2 2.40
7					SILTY CLAY, trace fine sand; reddish-brown; damp	
8	S-4	2.0 100%		0.1/0.1		
9						9.0 -0.40
10	S-5	2.0 100%		0.1/0.1	SAND (fine), some silt; brown; wet GROUNDWATER @ 9.0 FT. CLAY, some to	9.9 -1.30
Match to Sheet 2						

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-OF-SB06      SHEET 1 OF 2



# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-OF-SB06

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = Parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11	11.0				Continued from Sheet 1 silt, little sand; red & gray; mottled; damp	10.7 -2.10 11.0 -2.40
12					SAND (fine), some silt; brown; wet	
13					BOH @ 11.0 FT.	
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-OF-SB06

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OF-SB06A

COORDINATES: EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 9.0	Sunny & cool	5.0	0922
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

**REMARKS:**

SAMPLE TYPE				DEFINITIONS			
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter			
T = Shelby Tube		W = Wash		ppm = parts per million			
R = Air Rotary		C = Core		PS = Point Source			
D = Direct Push		P = Piston		BG = Background			
N = No Sample				BOH = Bottom of Hole			
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.	
1	D-N		00	0.1/0.1	SILT, some clay, trace sand & organic matter; black; moist	1.0	
2	S-1	1.0 50%	01	0.1/0.1	SAND (fine), some silt, little metal, glass & rock frag., trace clay; dark brown; damp		
3							
4	S-2	0.4 20%		0.1/0.1			
5						5.0	
6	S-3	0.6 30%		0.0/0.0	SAND (fine), some silt, trace clay; brown; wet GROUNDWATER @ 5.0 FT.		
7							7.3
8	S-4	1.3 65%		0.1/0.0	CLAY, some silt, little sand; brown, gray & red; mottled; damp SAND (fine), some silt & clay; moist, wet at bottom	8.2	
9							9.0
10					BOH @ 9.0 FT.		

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-OF-SB06A SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-OF-SB06B  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 7.0	Sunny & cool	5.0	1019
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

<p style="text-align: center;"><b>SAMPLE TYPE</b></p> <p>S = Split Spoon      A = Auger          T = Shelby Tube      W = Wash          R = Air Rotary      C = Core          D = Direct Push      P = Piston          N = No Sample</p>	<p style="text-align: center;"><b>DEFINITIONS</b></p> <p>PID = Photoionization Detection Meter          ppm = parts per million          PS = Point Source          BG = Background          BOH = Bottom of Hole</p>
--	---

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SILT, some clay, little wood & debris; black; moist to wet	1.0
2	S-1	1.7 85%		0.1/0.1	SAND (fine), some silt, trace clay; brown; damp	
3						3.0
4	S-2	1.0 50%	02	0.1/0.1	SAND (fine), some silt, glass, brick & metal frag.; reddish-brown; moist to wet	
5					<u>GROUNDWATER @ 5.0 ft</u>	5.0
6	S-3	0.5 25%		0.1/0.1	SAND (fine), some clay, little silt; grayish-olive drab; wet	
7						7.0
8					BOH @ 7.0 FT	
9						
10						

CONTRACTOR: Microseeps BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion BORING NO.: 36-OF-SB06B SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-OF-SB06C

COORDINATES: \_\_\_\_\_

EAST: \_\_\_\_\_

NORTH: \_\_\_\_\_

ELEVATION: \_\_\_\_\_

SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 9.0	Sunny & cool	5.0	1054
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS:

SAMPLE TYPE	DEFINITIONS
S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample	PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole
A = Auger W = Wash C = Core P = Piston	

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.1	SAND (fine), some silt, little clay, metal & glass; brown; moist	
2	S-1	1.0 50%		0.1/0.1	SAND (fine), some silt, trace clay w/ clay layer; dark brown; damp	
3						
4	S-2	1.2 60%	02	0.1/0.1	SAND (fine), little silt, trace clay; gray; moist to wet	3.9 4.8
5					SAND (fine), some silt & clay; brown; moist	5.5
6	S-3	1.7 85%		0.1/0.1	CLAY, some silt, little fine sand; brown, gray & red; mottled; damp	
7						
8	S-4	1.5 75%		0.1/0.1		8.7
9					SAND (fine to med), some silt, little clay; gray, iron staining; wet	9.0
10					BOH @ 9.0 FT.	

CONTRACTOR: \_\_\_\_\_

Microseeps

BAKER REP.: Mark DeJohn

OPERATOR: \_\_\_\_\_

Art Carion

BORING NO.: 36-OF-SB06C

SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-OF-SB06D  
 COORDINATES: EAST: \_\_\_\_\_ NORTH: \_\_\_\_\_  
 ELEVATION: SURFACE: \_\_\_\_\_

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER						
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 7.0	Sunny & cool	5.0	1148
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS: Notes: (1) Sample 2A represents a second sample taken at the 3-5 ft interval. The first sample yielded insufficient recovery to collect for laboratory analysis.

<b>SAMPLE TYPE</b> S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	<b>DEFINITIONS</b> PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole
---	--

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.1/0.0	SAND (fine), some silt & organic matter, trace clay; black; moist	1.0
2	S-1	1.5 75%		0.1/0.1	SAND (fine), some silt, trace clay, glass & charred wood; dark brown moist to wet	
3						
4	S-2A (1)	0.5 25%	02	0.1/0.1		
5					GROUNDWATER @ 5.0 FT.	5.0
6	S-3	1.0 50%		0.1/0.1	CLAY, some silt, little fine sand; brown & gray; damp	
7						7.0
8					BOH @ 7.0 FT.	
9						
10						

CONTRACTOR: Microseeps BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion BORING NO.: 36-OF-SB06D SHEET 1 OF 1

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467488.5124  
 ELEVATION: SURFACE: 13.52

BORING NO.: 36-GW09  
 NORTH: 361893.0118

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 13.0	Sunny & cool	9.0	0822
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS: SEE DMA LOGS FOR BORING INFO. & CONSTRUCTION DETAILS.

<b>SAMPLE TYPE</b> S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	<b>DEFINITIONS</b> PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole
---	--

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.1	SILT, some clay, trace fine sand & roots; black; wet	12.52
2	S-1	1.7 85%		0.2/0.2	SAND (fine), some silt, trace clay, bone fragments & spiractor sand	
3						
4	S-2	0.8 40%		0.2/0.2	glass, rock & metal fragments	
5						
6	S-3	0.6 30%		0.1/0.0	glass & metal fragments, little clay	
7						6.52
8	S-4	0.6 30%	04	0.1/0.1	SAND (fine), some silt, trace to little clay; gray; moist to wet	
9					GROUNDWATER @ 9.0 FT.	
10	S-5	0.7 35%		0.1/0.1		

Match to Sheet 2

CONTRACTOR: Microseeps  
 OPERATOR: Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-GW09 SHEET 1 OF 2

## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW09

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = Parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11					Continued from Sheet 1	
12	S-6	1.1 55%		0.3/0.1	little to some clay; gray & olive drab; mottled	
13					13.0	0.52
BOH @ 13.0 FT.						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR:  
 OPERATOR:

Microseeps  
Art Carion

BAKER REP.: Mark DeJohn  
 BORING NO.: 36-GW09

SHEET 2 OF 2

# TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303  
 COORDINATES: EAST: 2467858.6297  
 ELEVATION: SURFACE: 17.65

BORING NO.: 36-GW11  
 NORTH: 361958.9706

RIG: Geoprobe 5400				DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	LARGE BORE SAMPLER	SMALL BORE SAMPLER	LINER					
SIZE (DIAM.)	1-3/8" ID	--	1-1/8" ID	3/9/95	0.0 - 13.0	Sunny & cool	11.0	1434
LENGTH	4.0'	--	4.0'					
TYPE	Piston	--	Plastic					

REMARKS: SEE DMG LOGS FOR BORING INFO. & CONSTRUCTION DETAILS.

<b>SAMPLE TYPE</b> S = Split Spoon T = Shelby Tube R = Air Rotary D = Direct Push N = No Sample A = Auger W = Wash C = Core P = Piston	<b>DEFINITIONS</b> PID = Photoionization Detection Meter ppm = parts per million PS = Point Source BG = Background BOH = Bottom of Hole
---	--

Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
1	D-N		00	0.2/0.1	SILT, little clay, trace sand & roots; dark brown; moist	16.65
2	S-1	1.4 70%		0.0/0.0	SAND (fine), some silt, trace clay, clay nodules, glass & metal; dark brown; damp	
3						
4	S-2	0.6 30%		0.0/0.0	little wood	
5						
6	S-3	0.5 25%		0.2/0.0	trace metal fragments	
7						
8	S-4	0.8 40%	04	0.2/0.0	trace to little glass, metal & rock fragments	
9						8.75
10	S-5	1.3 65%		0.0/0.0	SAND (fine), some silt, trace clay; yellowish- Match to Sheet 2	

CONTRACTOR: Microseeps      BAKER REP.: Mark DeJohn  
 OPERATOR: Art Carion      BORING NO.: 36-GW11      SHEET 1 OF 2



## TEST BORING RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-GW11

SAMPLE TYPE				DEFINITIONS		
S = Split Spoon		A = Auger		PID = Photoionization Detection Meter		
T = Shelby Tube		W = Wash		ppm = Parts per million		
R = Air Rotary		C = Core		PS = Point Source		
D = Direct Push		P = Piston		BG = Background		
N = No Sample				BOH = Bottom of Hole		
Depth (ft)	Sample Type and No.	Sample Recovery (ft & %)	Lab ID Number	PID (ppm) PS/BG	Visual Description	Elev.
11	11.0				Continued from Sheet 1 brown to gray; mottled; moist	
12	S-6	2.0 100%	06	0.0/0.0	wet GROUNDWATER @ 11.0 FT	
13	13.0					13.0 4.65
14					BOH @ 13.0 FT.	
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

CONTRACTOR: Microseeps

OPERATOR: Art Carion

Microseeps

Art Carion

BAKER REP.: Mark DeJohn

BORING NO.: 36-GW11

Mark DeJohn

36-GW11

SHEET 2 OF 2

**APPENDIX B**  
**TEST BORING AND WELL CONSTRUCTION RECORDS**

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# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW06  
 COORDINATES: EAST: 2466333.7957 NORTH: 362249.6111  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: 19.06  
 PVC

RIG: Mobile B-53									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2"		4-1/4" ID		2/28/95	0.0-19.0	Cloudy, Rain 60s	—	—
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS:

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2" ID	PVC Threaded	+2.0	-3.0
T = Shelby Tube	W = Wash	Well Screen	2" ID	PVC Slotted	-3.0	-18.0
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.8 / 2.0	3 / 4		0.0	FINE SAND and SILT, trace organics; moist; dark brown	#2 Bentonite Pellets to Ground Surface	
2		90%	4 / 4		0.0	FINE SAND, some silt; moist; dk. brown. 1.1'		Top of #1 Sand @ 2'
3	S-2	1.8 / 2.0	2 / 3		0.0	FINE SAND and SILTY CLAY; moist; tan - lt. gray; brown mottling	Top of Screen @ 3'	
4		90%	4 / 4		0.0	Water @ 4'		
5	S-3	2.0 / 2.0	4 / 6		0.0	FINE SAND, trace to some silt; wet; lt. gray - gray	#5 PVC well screen, 2" ID, Sch. 40, flush joint threaded	
6		100%	7 / 6		0.0			
7	A-N						#8	
8								
9								
10								

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corran

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW06 SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R/ES at OU No.6 - Site 36 MCAs, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW06

SAMPLE TYPE						DEFINITIONS							
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')							
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)							
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)							
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis							
N = No Sample													
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID Lab. Moist. % (ppm)	Visual Description			Well Installation Detail			Elevation	
11						Continued from Page 1							
12													
13								#5	#5	#1 Sand			
14	A-N							#8		PVC well screen 2" ID, Sch. 40, flush joint threaded			
15													
16													
17													
18										Bottom of well @ 18'			
19	19.0							#5		Cave-in @ 18.5' 19.0'			
20								#3 #3 #3					
21						End of Boring @ 19.0'							
22													
23													
24													
25													
26													
27													
28													
29													
30													

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corron

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW06



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW06DW  
 COORDINATES: EAST: 2466323.0895 NORTH: 362251.6494  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: 19.00  
 PVC

RIG: B-80 Mobile Drill									
	SPLIT SPOON	CASING	AUGERS	BIT CORE BARREL SIZE	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2"	6"		10"/6"	2/21/95	0.0-7.0	Pt. cloudy, 50s	—	—
LENGTH	2'	45'			2/22/95	7.0-45.0	Sunny, 50s	—	—
TYPE	STD.	Steel		Rotary	2/23/95	45.0-71.0	Sunny, 60s	—	—
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS:

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2" ID	PVC Threaded	+ 2.0	- 65.0
T = Shelby Tube	W = Wash	Well Screen	2" ID	PVC Slotted	- 65.0	- 70.0
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1								
2	R-N						6" steel casing	
3								
4							PVC riser pipe, 2" ID, Sch. 40, flush joint threaded	
5	S-1	1.1 / 2.0	9 / 8 / 9 / 7			FINE SAND, trace silt; wet; lt. gray	#7	
6		55%						
7	R-N						Cement/Bentonite Grout	
8								
9								
10								100'

DRILLING CO.: Hardin Huber Incorporated BAKER REP.: Dave Gaviglia  
 DRILLER: Jay Carron BORING NO.: 36-GW06DW SHEET 1 OF 5



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW06DW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample								
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID Lab. Moist. % (ppm)	Visual Description	Well Installation Detail	Elevation
11	S-2	2.0 / 2.0 100%	1 1 1 2			SILTY CLAY, some wood fragments, trace sand; damp; gray		
12								
13	R-N						Cement/Bentonite Grout	
14								
15								15.0'
16	S-3	2.0 / 2.0 100%	2 5 8 8			ORGANIC MATERIAL (PEAT); moist; brown	6" steel casing	
17						SILTY CLAY; damp; lt. tan		16.5'
18	R-N							
19								
20							PVC riser pipe 2" ID, Sch. 40, flush joint threaded	20.0'
21	S-4	2.0 / 2.0 100%	11 10 9 11			FINE to MEDIUM SAND and SHELL FRAGMENTS; wet; lt. gray - white		
22								
23	R-N							
24								
25								25.0'
26	S-5	1.6 / 2.0 80%	13 17 25 30			partially cemented @ 25' varying amounts of shell fragments		
27								
28	R-N							
29								
30						Increased cementation @ 30'; damp		

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corron

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW06DW

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River

S.O. NO.: 62470-303

BORING NO.: 36-GW06DW

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample									
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
31	S-6	1.4 2.0 70%	26 25 29 25			FINE to MEDIUM SAND and SHELL FRAGMENTS; wet; lt. gray - white			
32.0									
32.8	S-7	0.6 0.875%	22 50/3						
34.0	R-N								
35	S-8	1.2 2.0 60%	31 41 35 28						
36.0									
38.0	S-9	0.9 2.0 45%	18 24 25 36			FINE to MEDIUM SAND, some shell fragments and silt; damp; lt. gray			
40.0	S-10	1.4 2.0 70%	17 16 15 21			..... 39.3' CLAYEY SILT and SHELL FRAGMENTS, some sand; wet; lt. gray			
42.0	S-11	1.0 2.0 50%	20 24 23 43						
44.0	S-12	1.5 2.0 75%	8 8 10 12			CLAYEY SILT, trace fine sand; damp; gray			
45.0	R-N					FINE SAND, trace to some silty clay; damp; greenish-gray			
47.0	S-13	1.4 2.0 70%	7 5 7 8		0.0				
49.0	S-14	1.7 2.0 85%	3 6 9 12		0.0				
50	S-15	1.8 2.0 90%	4 6 6 10		0.0				

Cement/Bentonite Grout

PVC riser pipe, 2" ID, Sch 40, flush joint threaded  
6" steel casing @ 45'

DRILLING CO.: Hardin Huber Incorporated

DRILLER: Jay Carron

BAKER REP.: Dave Gaviglia

BORING NO.: 36-GW06DW

SHEET 3 OF 5

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River

S.O. NO.: 62470-303

BORING NO.: 36-GW06DW

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample									
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
51						FINE SAND, trace to some silty clay; damp; greenish-gray			
2	S-16	$\frac{1.8}{2.0}$ 90%	6 8 11 21		0.0			Cement/Bentonite Grout	
3							#0	#0	
4	S-17	$\frac{1.7}{2.0}$ 85%	5 5 7 8		0.0			PVC riser pipe 2" ID, Sch. 40 flush joint threaded	
55									
6	S-18	$\frac{1.7}{2.0}$ 85%	4 6 9 17		0.0	trace shell fragments and some medium sand from 56.4' to 59'		#7	
7									Top of Bentonite Pellets @ 57'
8	S-19	$\frac{1.6}{2.0}$ 80%	5 6 6 17		0.0				
9									59'
60	S-20	$\frac{2.0}{2.0}$ 100%	6 7 10 35		0.0	CLAYEY SILT and FINE SAND, some shell fragments; partial cementation; wet; gray	#2	#2	
1									
2	S-21	$\frac{2.0}{2.0}$ 100%	28 21 44 47		0.0				
3									Top of #1 Sand @ 63'
4									
6.5									Top of Screen @ 65'
6	R-N						#5	#5	
7									
8							#8		PVC well screen, 2" ID, Sch. 40, flush joint threaded
9									
70									Bottom of well @ 70'

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Carron

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW06DW



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River

S.O. NO.: 62470 - 303

BORING NO.: 36-GW06 DW

SAMPLE TYPE					DEFINITIONS						
S = Split Spoon	A = Auger						SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash						RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core						Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston						Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample											
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	Visual Description	Well Installation Detail			Elevation		
71	R-N				End of Boring @ 71.0'	71.0'	#5	#5	#5	71.0'	
2											
3											
4											
75											
6											
7											
8											
9											
80											
1											
2											
3											
4											
85											
6											
7											
8											
9											
20											

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corron

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW06 DW SHEET 5 OF 5

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**

PROJECT: RI/FS at OUNo. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW07  
 COORDINATES: EAST: 2466772.6393 NORTH: 361611.9340  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: 11.51  
 PVC

RIG: <u>B-80 Mobile Rig</u>					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
	<u>2"</u>		<u>4-1/4" ID</u>		<u>3/7/95</u>	<u>0.0-19.0</u>	<u>Pt. cloudy, 60s</u>	<u>—</u>	<u>—</u>
LENGTH	<u>2'</u>		<u>5'</u>						
TYPE	<u>STD</u>		<u>HSA</u>						
HAMMER WT.	<u>140#</u>								
FALL	<u>30"</u>								
STICK UP									

REMARKS: Soil samples S-1 and S-2 submitted for laboratory analyses

		SAMPLE TYPE		WELL INFORMATION		DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S	= Split Spoon	A	= Auger	Well Casing		<u>2" ID</u>	<u>PVC Threaded</u>	<u>+2.0</u>	<u>-3.0</u>
T	= Shelby Tube	W	= Wash	Well Screen		<u>2" ID</u>	<u>PVC Slotted</u>	<u>-3.0</u>	<u>-18.0</u>
R	= Air Rotary	C	= Core						
D	= Denison	P	= Piston						
		N = No Sample							
Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
1	<u>S-1</u> <u>36-GW07-00</u>	<u>—</u>	<u>—</u>		<u>0.0</u>	<u>SILTY CLAY and FINE SAND, damp; tan</u>	<u>Bentonite Pellets to Ground Surface</u> <u>PVC riser pipe</u>		
2	<u>S-2</u> <u>36-GW07-01</u>	<u>2.0</u> <u>2.0</u> <u>100%</u>	<u>2</u> <u>2</u> <u>4</u>		<u>0.0</u>		<u>Top of #1 Sand @ 2'</u> <u>Top of Screen @ 3'</u>		
3									
4	<u>S-3</u>	<u>1.6</u> <u>2.0</u> <u>80%</u>	<u>2</u> <u>4</u> <u>6</u> <u>9</u>		<u>0.0</u>	<u>FINE SAND, trace to some silty clay; damp to wet; tan, lt. gray mottled</u>			
5									
6	<u>S-4</u>	<u>1.4</u> <u>2.0</u> <u>70%</u>	<u>2</u> <u>4</u> <u>9</u> <u>7</u>		<u>0.0</u>	<u>FINE to MEDIUM SAND, trace silt and fine gravel; wet; tan</u>			
7							<u>PVC well screen 2" ID, Sch. 40, flush joint threaded</u>		
8	<u>S-5</u>	<u>1.7</u> <u>2.0</u> <u>85%</u>	<u>2</u> <u>1</u> <u>1</u> <u>2</u>		<u>0.0</u>	<u>FINE SAND, some silty clay; damp, tan, lt. gray</u> <u>FINE SAND and clayey silt; dark tan and lt. gray laminations</u>			
9									
10	<u>S-6</u>	<u>2.0</u> <u>2.0</u> <u>100%</u>	<u>1</u> <u>2</u> <u>4</u>		<u>0.0</u>	<u>CLAYEY SILT, some fine sand; moist; olive-dark gray</u> <u>FINE to MEDIUM SAND, trace silt from 8.8' to 9.2'</u>			

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corran

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW07

SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OUNo. 6 - Site 36 MCAS, New River

S.O. NO.: 62470-303

BORING NO.: 36-GW07

SAMPLE TYPE						DEFINITIONS							
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')							
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)							
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)							
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis							
N = No Sample													
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID Lab. Moist. % (ppm)	Visual Description	Well Installation Detail			Elevation			
11						FINE SAND, trace to some silty clay, trace shell fragments; damp; greenish-gray	#5	#5	#1 Sand				
11.0													
12	S-7	$\frac{2.0}{2.0}$ 100%	4 8 12 13		0.0								
13													
14	S-8	$\frac{2.0}{2.0}$ 100%	5 6 7 8		0.0								
15													
16	S-9	$\frac{2.0}{2.0}$ 100%	5 7 9 10		0.0								
17													
17.2													
18	S-10	$\frac{1.0}{1.0}$ 100%	6 6		0.0					SILTY CLAY, some fine sand and shell fragments; damp; gray			Bottom of Well 2 18'
19	A-N							#5		19.0'			
19.0						End of Boring @ 19.0'							
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

DRILLING CO.: Hardin Huber Incorporated

DRILLER: Jay Corran

BAKER REP.: Dave Gaviglio

BORING NO.: 36-GW07

SHEET 2 OF 2

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R1/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW07DW  
 COORDINATES: EAST: 2466771.9799 NORTH: 361579.8844  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF STEEL CASING: 11.26  
 PVC

RIG: B-80 Mobile Rig					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	BIT CORE BARREL SIZE					
2"	6"			10"/6"	3/6/95	0.0-38.0	Rain, 60s	—	—
LENGTH	2'	45'			3/7/95	38.0-64.0	Pt. cloudy, 60s	—	—
TYPE	STD	Steel		Rotary					
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: \* Composite Geotech sample collected from 0' to 10'

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2" ID	PVC Threaded	+2.0	-58.0
T = Shelby Tube	W = Wash	Well Screen	2" ID	PVC Slotted	-58.0	-63.0
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Per. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1*	1.3 2.0 65%	4 4 3			SILTY CLAY and FINE SAND; damp; tan, lt. gray, red, mottled	Cement/ Bentonite Grout	
2			4					
3	S-2*	1.3 2.0 65%	3 3 4			FINE SAND, trace to some silty clay; wet; lt. gray, tan mottling	6" steel casing	
4			5					
5	S-3*	1.3 2.0 65%	9 11 10			FINE to MEDIUM SAND, some silt, trace fine gravel; wet; tan	#7	
6			11					
7	S-4*	1.4 2.0 70%	3 2 2			FINE SAND and SILTY CLAY; damp; lt. gray, tan mottling	PVC riser pipe, 2" ID, Sch. 40, flush joint threaded	
8			1					
9	S-5*	2.0 2.0 100%	2 2 2			FINE SAND and SILT, trace clay; damp; Olive, Dark gray		
10	R-N		2					

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corron

BAKER REP.: Dave Gavaglia  
 BORING NO.: 36-GW07DW SHEET 1 OF 4

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R1/FS at OU No. 6- Site 36 MCAS, New River

S.O. NO.: 62470-303

BORING NO.: 36-GW07DW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample								
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID Lab. Moist. % (ppm)	Visual Description	Well Installation Detail	Elevation
11	R-N				Moisture	FINE SAND and SILT, trace clay; damp; Olive, dark gray	Cement/Bentonite Grout	
12								
13								
14								
15	15.0						15.0	
16	S-6	$\frac{1.9}{2.0}$ 95%	12 12 14 17		due to	FINE SAND and SILT, some shell fragments, trace clay; damp; lt. greenish-gray	6" steel casing	
17	17.0							
18	R-N				Malfunction			
19								
20								
21	S-7	$\frac{1.8}{2.0}$ 90%	18 20 22 23		HN <sub>0</sub>	FINE SAND and CLAYEY SILT, some shell fragments; partial cementation; wet; lt. gray	PVC riser pipe 2" ID, Sch. 40, flush joint threaded	
22	22.0							
23	R-N							
24								
25	25.0							
26	S-8	$\frac{1.4}{2.0}$ 70%	13 17 18 20		0.0			
27	27.0							
28	R-N							
29								
30								
30	30.0							

DRILLING CO.: Hardin Huber Incorporated

DRILLER: Jay Corron

BAKER REP.: Dave Gaviglia

BORING NO.: 36-GW07DW

SHEET 2 OF 4

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW07DW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample								
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
31	S-9	1.5 2.0 75%	16 18 16 19		0.0	FINE SAND and CLAYEY SILT, some shell fragments; partial cementation; wet; lt. gray	Cement/Bentonite Grout	
2							Bentonite Slurry into Steel Casing	
3	R-N							
4								
35								
6	S-10	1.4 2.0 70%	8 9 13 13		0.0	FINE SAND and SILTY CLAY; damp; greenish-gray		
7								
8	S-11	1.0 1.0 100%	4 4					
9	S-12	2.0 2.0 100%	4 7 7 10				6" steel Casing @ 38"	
40								
1	S-13	1.2 2.0 60%	6 6 9 10		0.0		PVC riser pipe, 2" ID, Sch. 40, flush joint threaded	
2								
3	S-14	1.6 2.0 80%	4 5 5 5		0.0			
4								
45	S-15	0.0 2.0 0%	4 6 7 19					
6								
7	S-16	1.8 2.0 90%	9 9 10 20		0.0	FINE SAND, some clayey silt; damp; greenish-gray	Bentonite Slurry	
8								
9	S-17	2.0 2.0 100%	10 8 12 17		0.0	FINE SAND, some clayey silt, trace shell fragments; damp; gray		
50								

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Carran

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW07DW

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW07DW

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample									
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
51	S-18	1.1 1.4 79%	7 8 50/4		0.0	FINE SAND, some clayey silt, trace shell fragments; damp; gray	#2	#2	Bentonite Slurry Top of Bentonite Pellets @ 51'
51.4									51.4'
52	R-N					FINE to MEDIUM SAND, trace to some clayey silt; partially cemented; wet; lt. gray			
52.4	S-19	0.3 0.4 50%	50/4		0.0			#7	
3							#2	#2	PVC riser pipe, 2" ID, Sch. 40, flush joint threaded
4									
55									
6									Top of #1 Sand @ 55.75'
7	R-N								
8									Top of Screen @ 58'
9							#5	#5	
60								#8	PVC well screen 2" ID, Sch. 40, flush joint threaded
1									
2									
3									Bottom of Well @ 63'
3								#5	
4							64.0'	#5	64.0'
64.0						End of Boring @ 64.0'			
65									
6									
7									
8									
9									
20									

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corran

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW07DW

# Baker

Baker Environmental, Inc.

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River

S.O. NO.: 62470-303

BORING NO.: 36-GW08

COORDINATES: EAST: 2466924.7777

NORTH: 361715.1484

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF STEEL CASING: 18.42  
PVC

RIG: Mobile B-53									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2"		4-1/4" ID		2/28/95	0.0-25.0	Cloudy, Rain 60s	—	—
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS:

<b>SAMPLE TYPE</b> S = Split Spoon    A = Auger T = Shelby Tube    W = Wash R = Air Rotary    C = Core D = Denison    P = Piston N = No Sample		<b>WELL INFORMATION</b> Well Casing    2" ID    PVC Threaded Well Screen    2" ID    PVC Slotted	<b>DIAM</b> 2" ID	<b>TYPE</b> PVC Threaded PVC Slotted	<b>TOP DEPTH (FT)</b> +2.0 -9.0	<b>BOTTOM DEPTH (FT)</b> -9.0 -24.0
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Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	0.7 / 2.0 / 35%	2 / 2 / 4 / 4		0.2	FINE SAND and SILT, some concrete; moist; dark brown-black, white	Bentonite Pellets to Ground Surface	
2								2.0
3	S-2	0.8 / 2.0 / 40%	6 / 34 / 23 / 9		0.2	SILT, some fine sand, some concrete; moist; dark brown-black, white	#2 #2 PVC riser pipe, 2" ID, Sch. 40, flush joint threaded	
4								4.0
5	S-3	0.7 / 2.0 / 35%	48 / 5 / 4 / 4		0.0		#7	
6						FINE SAND, some silt, trace clay; moist; tan w/ trace gray laminants		6.0
7	S-4	1.9 / 2.0 / 95%	2 / 3 / 3 / 4		0.0	FINE to MEDIUM SAND, some silt; wet; tan w/ gray laminations	#1 Sand	
8						CLAY, trace to some silt; tan w/ gray laminations		8.0
9	S-5	1.8 / 2.0 / 90%	2 / 3 / 4 / 5		0.0	FINE to MEDIUM SAND, some silt, trace clay; wet; tan	#5 #5 Top of Screen: 9'	
10						CLAY, trace to some silt; damp; tan FINE SAND, some silt, trace clay from 9.1' to 9.3' SILTY CLAY, some fine sand; damp; Pinkish-red w/ lt. gray mottling	#8 #8 PVC well screen, 2" ID, Sch. 40, flush joint threaded	10.0

DRILLING CO.: Hardin Huber Incorporated

BAKER REP.: Dave Gaviglia

DRILLER: Jay Corran

BORING NO.: 36-GW08

SHEET 1 OF 2



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R1/FS at ou No. 6 - Site 36 McAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW08

SAMPLE TYPE						DEFINITIONS				
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample										
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID Lab. Moist. % (ppm)	Visual Description	Well Installation Detail			Elevation
11	S-6	1.9 / 2.0	5		0.0	SILTY CLAY, some fine sand; damp; Pinkish-red w/ lt. gray laminations				11.0'
12		95%	6			FINE SAND, trace to some silt, trace clay; wet; lt. gray w/ tan laminants			#1 Sand	
13	S-7	1.4 / 2.0	7		0.0	SILTY CLAY, trace fine sand; tan, gray and pink from 12' to 12.4'				
14		70%	10							
15	S-8	1.9 / 2.0	9		0.0					
16		95%	11							
17	S-9	2.0 / 2.0	2		0.0	Silty clay laminant @ 17.6'	#5	#5		
18		100%	1							
19	S-10	1.5 / 2.0	12		0.0	CLAYEY SILT and FINE SAND; damp; lt. Brown from 19.2' to 19.6'	#8		PVC well screen, 2" ID, Sch. 40, flush joint threaded	
20		75%	1							
21	S-11	1.5 / 2.0	1		0.0	SILT, trace to some fine sand, trace clay; damp; dark gray				
22		75%	2							
23	S-12	2.0 / 2.0	1		0.0	CLAYEY SILT, trace to some fine sand; damp; gray to dark gray				
24		100%	1/7							
25	A-N		1/7				#3	#3	Bottom of well @ 24' Cave-In @ 24'	25.0'
26						End of Boring @ 25.0'				
27										
28										
29										
30										

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corran

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW08

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New RiverS.O. NO.: 62470-303BORING NO.: 36-GW09COORDINATES: EAST: 2467488.5124NORTH: 361893.0118

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF STEEL CASING: 13.52  
PVC

RIG: <u>Mobile B-53</u>									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2"		4-1/4" ID		3/9/95	0.0-21.5	Cloudy, 40s	—	—
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140*								
FALL	30"								
STICK UP									

## REMARKS:

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2" ID	PVC Threaded	+2.0	-5.5
T = Shelby Tube	W = Wash	Well Screen	2" ID	PVC Slotted	-5.5	-20.0
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.5 2.0 75%	2 2 6		1.2	SILT, some wood fragments, trace fine sand and metal fragments; dark brown	#2 #2 Bentonite Pellets to Ground Surface	
2			9					
3	S-2	1.4 2.0 70%	9 10 12		0.0	FINE SAND and SILT, trace clay, glass, metal, and brick fragments; damp; lt. brown - brown	#7 #7 PVC riser pipe, 2" ID, Sch. 40, flush joint threaded Top of #1 Sand @ 3.5'	
4			8					
5	S-3	0.9 2.0 45%	3 2 2		0.0			
6			2					
7	S-4	1.2 2.0 60%	2 8 5		0.0			
8			4					
8						FINE SAND, some clayey silt; wet; lt. gray	#5 #5 PVC well screen, 2" ID, Sch. 40, flush joint threaded	
9	S-5	1.4 2.0 70%	4 4 8		0.0	SILTY CLAY and FINE SAND; damp from 8.8' to 9.7'	#8 #8	
10			9					

DRILLING CO.: Hardin Huber IncorporatedBAKER REP.: Dave GavigliaDRILLER: Jay CorronBORING NO.: 36-GW09SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R1/FS at OU No. 6 - Site 36 MCAS, New River

S.O. NO.: 62470-303

BORING NO.: 36-GW09

SAMPLE TYPE						DEFINITIONS				
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample										
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID Lab. Moist. % (ppm)	Visual Description	Well Installation Detail			Elevation
11	S-6	2.0	6		0.0	FINE SAND, some clayey silt; wet; lt. gray			#1 sand	
12		2.0	6							
13	S-7	1.6	2		0.0	SILTY CLAY, some fine sand; damp; lt. gray, tan mottling		#8		
14		2.0	1							
15	S-8	1.3	1		0.1	FINE and MEDIUM SAND, some clayey silt; wet; tan, lt. gray		#5	#5	PVC Well Screen 2" ID, Sch. 40, flush joint threaded
16		2.0	2							
17	S-9	1.7	1		0.0	FINE SAND and CLAYEY SILT; wet; tan, lt. gray		#5	#5	
18		2.0	1							
19	S-10	1.5	1		0.0					
20		2.0	1							
21	A-N							#5		Bottom of Well @ 20.5'
21.5								#3 #3 #3		Cave-In @ 21' 21.5'
22						End of Boring @ 21.5'				
23										
24										
25										
26										
27										
28										
29										
30										

DRILLING CO.: Hardin Huber Incorporated

DRILLER: Jay Corron

BAKER REP.: Dave Graviglia

BORING NO.: 36-GW09

SHEET 2 OF 2

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: RI/FS at OU No.6 - Site 36 MCAS, New RiverS.O. NO.: 62470-303BORING NO.: 36-GW10COORDINATES: EAST: 2467728.6604NORTH: 362376.6283

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF STEEL CASING: 9.04  
PVC

RIG: Mobile B-53									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2"		4-1/4" ID		3/9/95	0.0-21.5	Cloudy, 40s	—	—
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Soil samples S-1 and S-4 submitted for laboratory analyses

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2" ID	PVC Threaded	+2.0	-5.5
T = Shelby Tube	W = Wash	Well Screen	2" ID	PVC Slotted	-5.5	-20
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1 36-GW10-00	—	—		1.0	FINE SAND, some silt, trace organics; tan	#2 Bentonite Pellets to Ground Surface PVC riser pipe, 2" ID, Sch. 40, flush joint threaded Top of #1 Sand @ 3'	
2	S-2	1.9 2.0 95%	4 6 7 10		0.0	FINE SAND, some silt, trace clay; damp; tan		
3								
4	S-3	1.9 2.0 95%	5 6 7 8		0.4	FINE SAND and CLAYEY SILT; damp; lt. gray		
5								
6	S-4 36-GW10-03	1.8 2.0 90%	3 3 4 3		0.9	CLAY, some silt, trace fine sand; damp; lt. gray	#5 Top of Screen @ 5.5'	
7								
8	S-5	1.9 2.0 95%	3 3 6 6		0.0	FINE SAND, trace to some clayey silt; wet; lt. gray	#8 PVC well screen, 2" ID, Sch. 40, flush joint threaded	
9								
10	S-6	1.0 2.0 50%	3 2 3		0.0			

DRILLING CO.: Hardin Huber IncorporatedDRILLER: Jay CorronBAKER REP.: Dave GavigliaBORING NO.: 36-GW10SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R1/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW10

SAMPLE TYPE						DEFINITIONS				
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample										
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID Lab. Moist. % (ppm)	Visual Description	Well Installation Detail			Elevation
11						FINE SAND, trace to some clayey silt; wet; lt. gray				
12	S-7	$\frac{1.7}{2.0}$ 85%	3 4		0.0				#1 Sand	
13			3 2							
14	S-8	$\frac{1.3}{2.0}$ 65%	$\frac{1}{8}$ $\frac{1}{8}$		0.0	FINE SAND, some clayey silt laminations; wet; lt. gray w/ reddish-brown and dark tan laminations				
15			$\frac{1}{4}$							
16	S-9	$\frac{0.7}{2.0}$ 35%	$\frac{1}{1.0}$ $\frac{1}{1.0}$		0.0				PVC well screen 2" ID, Sch. 40, flush joint threaded	
17										
18	S-10	$\frac{1.6}{2.0}$ 80%	1 2 2		0.0					
19			25							
20	S-11	$\frac{1.2}{1.5}$ 80%	42 28		0.0	SILTY CLAY, some fine sand and shell fragments; partial cementation; wet; lt. gray				
21	A-N		30						Bottom of Well @ 20.5' Cave-In @ 20.5'	
22						End of Boring @ 21.5'				
23										
24										
25										
26										
27										
28										
29										
30										

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corran

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW10

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-GW10IW  
 COORDINATES: EAST: 2467742.1693 NORTH: 362379.7678  
 ELEVATION: SURFACE: TOP OF PVC CASING: 9.88

RIG: Mobile B-80 (Mud Rotary)					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1-3/8"				4/22/95	0.0-35.0	Sunny & hot	-	-
LENGTH	2.0								
TYPE	Std.								
HAMMER WT.	140 lbs.								
FALL	30"								
STICK UP									

REMARKS:

<b>SAMPLE TYPE</b> S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = <del>Aug</del> Rotary      C = Core D = Denison      P = Piston N = No Sample		Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
		Riser	2.0"	Schedule 40 PVC	12.0	24.0
		Screen	2.0"	Schedule 40 0.01 Slot	24.0	34.0

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1	5-1	2.0 100%	5 5		0.5	SILT, little fine sand & clay; brown & gray; mottled; loose; damp		
2			4 3	0.5				
3	R-N							
4								
5			5.0					
6	5-2	1.6 80%	3 6		0.4	CLAY, some fine sand & silt; gray; stiff; moist		
7			6 5	0.4	6.4			
8						SAND (fine), some silt, trace clay; tan; dense; wet		
9								
10	10.0							

Match to Sheet 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW10IW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')				
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = <del>Air</del> Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
11	S-3	1.9 95%	1		0.4	Continued from Sheet 1 SAND (Fine), some silt; clay; gray w/ red iron staining; v. loose; wet		
12			2		0.4			12.0
13	R-N							
14								15.0
15	S-4	0.0				No Recovery		
16			NOH 24"					17.0
17	R-N							
18								19.0
19	S-5	1.0 50%	16		0.3	SHELL FRAGMENTS, trace fine sand, silt, & clay; partial cementation; tan w/ iron staining; dense; wet		-9.12
20			18		0.3			20.0
21	R-N		15					
22			11					22.0
23	S-6	1.1 55%				light gray		
24			15	11	0.3			24.0
25	R-N		17		0.3			
26			17					27.0
27								
28								
29								
30								

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Mark DeJohn

DRILLER: Royce Keenan

BORING NO.: 36-GW10IW

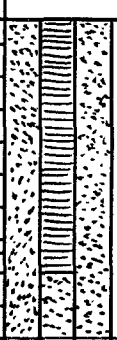
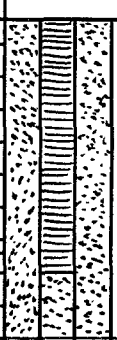
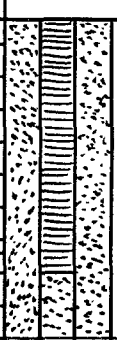
SHEET 2 OF 3



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW10IW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon T = Shelby Tube R = <del>Air</del> Rotary D = Denison N = No Sample			A = Auger W = Wash C = Core P = Piston			SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5') RQD = Rock Quality Designation (%) PID = Photoionization Detector ppm = parts per million		
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
31	S-7	1.7 85%	20		0.3 0.3	Continued from Sheet 1		
32			23 18					
33	S-8	2.0 100%	12		0.3 0.3	little to some fine sand (amt increasing w/ depth) 33.7		
34			18 17					
35	R-N					SILTY SAND (fine), little clay; greenish-gray; damp 35.0		34.0 -24.12 35.0 -25.12
36						BAH @ 35.0 ft		
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Mark DeJohn

DRILLER: Royce Keenan

BORING NO.: 36-GW10IW SHEET 3 OF 3



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-GW100W  
 COORDINATES: EAST: 2467737.6800 NORTH: 362362.6600  
 ELEVATION: SURFACE: 7.20 TOP OF PVC CASING: 9.55

RIG: #109					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1-3/8"	6.0"	8 1/4"		6-27-95	0-37.0'	Partly cloudy warm (80's)	~ 8.0'	
LENGTH	2.0	37.0'	5.0'		6-28-95	37.0-68.0'	Partly cloudy warm (70's)	-	
TYPE	Std.	Steel	HSA						
HAMMER WT.	140 lbs.								
FALL	30"								
STICK UP									

REMARKS: Augered to 20.0' (bgs). Sampled continuously to 52.0' (bgs). Utilized 5' centers from 52.0' (bgs) to 67.0' (bgs). Well set 6-28-95. HNU background range .1-.3 ppm

SAMPLE TYPE		Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
S = Split Spoon	A = Auger	Riser	2.0"	Schedule 40 PVC	+ 2.0'	62.0' (bgs)
T = Shelby Tube	W = Wash	Screen	2.0"	Schedule 40 0.01 Slot	62.0' (bgs)	67.0' (bgs)
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1								
2								
3								
4								
5	AN					Auger to: 20.0' (bgs)	6" steel casing 2" PVC riser Cement grout	
6								
7								
8								
9								
10								

Match to Sheet 2

DRILLING CO.: Parratt Wolff, Inc BAKER REP.: J.E. Zimmerman  
 DRILLER: Doug Richmond BORING NO.: 36-GW100W SHEET 1 OF 4

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW100W

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')				
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = Air Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
11						Continued from Sheet 1	<p>6" steel casing</p> <p>2" PVC riser</p> <p>Cement grout</p>	
12								
13								
14	AN							
15								
16						Auger to: 20.0' (bgs)		
17								
18								
19								
20								
21	S-1	1.5 2.0	00		.1	SHELL FRAGMENTS / CEMENTED SANDSTONE/ FOSSILIFEROUS LIME- STONE w/ SAND, fine grained w/ trace SILT. oxidation (reddish orange) staining, micrite cement (as matrix only). light gray to tan and white, medium dense to dense, wet		
22		75%	00		.1			
23	S-2	2.0 2.0	10		.1			
24		100%	17		.1			
25	S-3	1.3 2.0	10		.1			
26		65%	11		.1			
27	S-4	1.2 2.0	13		.1			
28		60%	14		.1			
29	S-5	2.0 2.0	14		.1	FOSSILIFEROUS LIME- STONE / SHELL FRAG- MENTS w/ little SAND. fine grained		
30		100%	15		.1			

DRILLING CO.: Parratt Wolff, Inc.

BAKER REP.: J.E. Zimmerman

DRILLER: Doug Richmond

BORING NO.: 36-GW100W SHEET 2 OF 4

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RJFS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW10DW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')				
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = Air Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
31	S-6	2.0	14		.1	Continued from Sheet 1 w/ trace SILT, oxidation (reddish orange) occasional. Light brown to tan + white medium dense to dense, wet	6" Steel Casing	
32		2.0	14		.1			
33	S-7	1.2	19		.1	FOSSILIFEROUS LIMESTONE SHELL FRAGMENTS w/ trace to little SAND, fine grained w/ trace SILT and trace CLAY. Micrite cement is traceable. Light gray	Cement grout	
34		2.0	22		.1			
35	S-8	1.5	10		.1	SILTY CLAY w/ little SAND, fine grained. Dark greenish gray med. stiff		
36		2.0	17		.1			
37	N					NO SAMPLE		
38	S-9	1.2	4		.3	SILTY CLAY w/ little SAND, fine grained. Dark greenish gray, stiff, moist	2" PVC riser	
39		2.0	6		.3			
40	S-10	1.0	12		.3		Bentonite Slurry	
41		2.0	17		.3			
42	S-11	1.8	7		.3	SAND, fine grained w/ trace to little SILT and SHELL MATERIAL. Dark greenish gray white v. dense, wet		
43		2.0	11		.3			
44	S-12	2.0	8		.3			
45		2.0	22		.3			
46	N	100%	63			NO SAMPLE		
47								
48	N							
49								
50								

DRILLING CO.: Parratt Wolff, Inc

BAKER REP.: J.E. Zimmerman

DRILLER: Doug Richmond

BORING NO.: 36-GW10DW SHEET 2 OF 4

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW100W

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')				
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = Air Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
51	S-13	2.0	9		.3	Continued from Sheet 1 SAND, fine grained w/ trace SILT and SHELL Greenish gray, dense, wet.	Bentonite Slurry	
52		2.0	18		.3			
53		100%	27				2" PVC riser	
54	N		54					
55								
56	S-14	1.2	34		.3	SAND, fine grained w/ trace SILT and little to some CEMENTED SANDSTONE w/ micrite cement as matrix only and little SHELL MATERIAL. Greenish gray & white, very dense, wet.	Bentonite pellets	
57		2.0	50		.3			
58		60%					Sand pack	
59	N							
60								
61	S-15	1.8	16		.3	SAND, fine to medium grained w/ trace SILT and little SHELL MATERIAL. Greenish gray & white, dense, wet.		
62		2.0	20		.3			
63		90%	32				Well Screen	
64	N							
65								
66	S-16	2.0	32		.3	SAND, fine to medium grained w/ trace SILT and little CEMENTED SANDSTONE w/ trace SHELL MATERIAL. V. dense, wet.		
67		2.0	23		.3			
68		100%	40					
69	N							
70						END of BORING TD: 68.0' (bgs).		

DRILLING CO.: Parratt Wolff, Inc.

BAKER REP.: J.E. Zimmerman

DRILLER: Doug Richmond

BORING NO.: 36-GW100W SHEET 2 OF 4

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: R1/FS at OUNo.6 - Site 36 MCAS, New RiverS.O. NO.: 62470-303BORING NO.: 36-GW11COORDINATES: EAST: 2467858.6297NORTH: 361958.9706

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF STEEL CASING: 17.65  
PVCRIG: Mobile B-53

	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2"		4-1/4" ID		3/9/95	0.0-25.0	Cloudy, 40s	—	—
LENGTH	2'		5'						
TYPE	STD		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

## REMARKS:

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2" ID	PVC Threaded	+2.0	-9.0
T = Shelby Tube	W = Wash	Well Screen	2" ID	PVC Slotted	-9.0	-24.0
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.2 / 2.0 60%	1 5 2		0.0	FINE SAND and SILT, trace to some clay; damp; tan, gray, lt. brown to dk. brown (fill material)	Bentonite Pellets to Ground Surface	
2								
3	S-2	1.6 / 2.0 80%	1 2 3		0.0	Metal and trace slag fragments @ 2.5' and 3.5'	#2 #2	
4							#1	
5	S-3	1.1 / 2.0 55%	2 1 2		0.0	Ceramic fragments @ 5'		
6								
7	S-4	0.9 / 2.0 45%	1 2 1		0.1	Glass and metal fragments @ 7.5' to 8'		Top of #1 Sand @ 7'
8								
9	S-5	0.9 / 2.0 45%	7 8 10		0.1	Glass, metal, and ceramic fragments from 8' to 10'	#5 #5	Top of screen @ 9'
10							#2	

DRILLING CO.: Hardin Huber IncorporatedBAKER REP.: Dave GravigliaDRILLER: Jay CorronBORING NO.: 36-GW11

SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW11

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample									
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	Lab. Moist. %	Visual Description	Well Installation Detail		Elevation
11	S-6	$\frac{1.1}{2.0}$ 55%	5 7 7 8		0.0	FINE SAND and SILT, trace to some clay; damp; tan, gray, lt. brown to dk. brown (fill material) wet @ 11.3'			11.5'
12						FINE SAND and CLAYEY SILT; wet; tan (natural soil)		#1 Sand	
13	S-7	$\frac{1.0}{2.0}$ 50%	3 5 5 4		0.0				13.5'
14						FINE SAND, some silt, trace clay; wet; tan			
15	S-8	$\frac{1.2}{2.0}$ 60%	3 3 2 2		0.0	lt. gray w/ trace tan laminations from 14' to 16'	#5	#5	
16									
17	S-9	$\frac{2.0}{2.0}$ 100%	1 1 1 1		0.0				
18						Clay laminant @ 18.8'	#8		
19	S-10	$\frac{1.8}{2.0}$ 90%	2 1 2 2		0.0	FINE and MEDIUM SAND from 19.2' to 19.5'			
20						FINE SAND and CLAYEY SILT; wet; lt. gray with tan laminations			
21	S-11	$\frac{1.6}{2.0}$ 80%	1 2 1 2		0.0				
22									
23	S-12	$\frac{1.3}{2.0}$ 65%	3 4 3 4		0.0				23.1'
24						CLAYEY SILT, some fine sand and shell fragments; wet; lt. gray tan			Bottom of well @ 24.0'
25	A-N						#5		25.0'
26						End of Boring @ 25.0'			
27									
28									
29									
30									

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corron

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW11

**Baker**

Baker Environmental, Inc.

**TEST BORING AND WELL CONSTRUCTION RECORD**PROJECT: R1/FS at 0UNo.6 - Site 36 MCAS, New RiverS.O. NO.: 62470-303BORING NO.: 36-GW11DWCOORDINATES: EAST: 2467869.5612NORTH: 361960.6617

ELEVATION: SURFACE: \_\_\_\_\_

TOP OF STEEL CASING: 18.08

PVC

RIG: B-80 Mobile Drill

	SPLIT SPOON	CASING	AUGERS	BIT CORE BARREL SIZE	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2"	6"		10"/6"	2/24/95	0.0-44.0	Sunny, 60s	—	—
LENGTH	2'	43.3'			2/25/95	44.0-73.0	Sunny, 50s	—	—
TYPE	STD.	Steel		Rotary					
HAMMER WT.	140#								
FALL	30"								
STICK UP									

## REMARKS:

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2" ID	PVC Threaded	+ 2.0	- 67.0
T = Shelby Tube	W = Wash	Well Screen	2" ID	PVC Slotted	- 67.0	- 72.0
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
1									
2									
3	R-N								
4									
5		0.6	2			SILT and FINE SAND, trace glass fragments and clay; damp; light to dark brown (Fill material)	6" steel Casing		
6	S-1	2.0	5		0.0			PVC riser pipe, 2" ID, Sch. 40 flush joint threaded	
7		30%	10						
8	R-N								
9									
10									

DRILLING CO.: Hardin Huber IncorporatedBAKER REP.: Dave GavagliaDRILLER: Jay CorronBORING NO.: 36-GW11DWSHEET 1 OF 5

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New River

S.O. NO.: 62470-303

BORING NO.: 36-GW11DW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample								
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID Lab. Moist. % (ppm)	Visual Description	Well Installation Detail	Elevation
11	S-2	0.6	8		0.0	FINE SAND, trace to some silt; wet; lt. tan-white w/ black mottling	Cement/Bentonite Grout	
12		2.0	9					
13		30%	14					
14	R-N							
15								
16	S-3	1.5	2		0.0	SILTY CLAY and FINE SAND; damp; lt. gray w/ tan mottling	PVC riser pipe, 2" ID, Sch. 40, flush joint threaded	
17		2.0	2					
18		75%	3					
19	R-N							
20								
21	S-4	1.1	8		0.0	FINE SAND, some silt, trace silty clay laminants; damp; lt. gray w/ tan laminants	6" steel casing	
22		2.0	8					
23		55%	10					
24	R-N							
25								
26	S-5	1.5	4		0.0	SILTY FINE SAND; some shell fragments; partial cementation; wet; tan-lt. Brown		
27		2.0	5					
28		75%	5					
29	R-N							
30								

DRILLING CO.: Hardin Huber Incorporated

DRILLER: Jay Corron

BAKER REP.: Dave Gaviglia

BORING NO.: 36-GW11DW

SHEET 2 OF 5





# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R/FS at OU No. 6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW11DW

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')			
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)			
R = Air Rotary	C = Core					Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)			
D = Denison	P = Piston					Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis			
N = No Sample									
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
31	S-6	1.1 / 2.0 55%	30 30 17 13		0.0	SILTY FINE SAND and SHELL FRAGMENTS; partially cemented; wet; lt. tan			
32.0									
3	R-N								
35.0									
6	S-7	1.4 / 2.0 70%	17 20 23 24		0.0				
37.0									
8	S-8	0.6 / 0.8 75%	22 50/3		0.0				
37.8									
9	R-N								
39.0									
40	S-9	1.5 / 2.0 75%	24 33 26 25		0.0				
41.0									
2	S-10	1.7 / 2.0 85%	8 8 10 11		0.0	FINE SAND, trace to some silty clay, trace shell fragments; damp; greenish-gray . . . . . 41.8'			
43.0									
4	R-N					FINE SAND, trace to some silty clay; damp; greenish-gray			
44.0									
45	S-11	1.8 / 2.0 90%	9 10 11 11		0.0				
46.0									
7	S-12	1.3 / 2.0 65%	10 11 11 13		0.0				
48.0									
9	S-13	1.6 / 2.0 80%	8 7 9 17		0.0				
50.0									

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corron

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW11DW SHEET 3 OF 5

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R1/FS at OU No. 6 - Site 36 MCAS New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW11DW

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')				
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)				
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)				
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis				
N = No Sample									
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail		Elevation
51	S-14	1.9 2.0 95%	6 7 8 15		0.0	FINE SAND, trace to some silty clay; damp; greenish-gray			
52.0									
3	S-15	1.9 2.0 95%	6 7 12 22		0.0		#2	#2	Bentonite slurry
54.0									
55	S-16	1.1 2.0 55%	5 7 8 12		0.0				Top of Bentonite pellets @ 55'
56.0									
7	S-17	2.0 2.0 100%	4 6 9 12		0.0				
58.0									
8	S-18	1.8 2.0 90%	4 6 10 12		0.0	FINE SAND, trace to some clay, trace shell fragments; damp; greenish-gray			
57.6									
60	S-19	1.9 1.9 100%	11 16 52 50/4		0.0	SILT and FINE SAND, some shell fragments, trace clay; damp; partial cementation	#1	#2	PVC riser pipe, 2" ID, Sch. 40, flush joint threaded
61.9									
62.0	R-N					wet @ 62.4'			
3	S-20	1.9 1.9 100%	10 16 39 50/4		0.0				
63.9									Top of #1 Sand @ 64'
65									
6	R-N						#5	#5	Top of Screen @ 67'
7									
8									PVC well screen 2" ID, Sch. 40, flush joint threaded
9							#8		
70									

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corron

BAKER REP.: Dave Gavislia  
 BORING NO.: 36-GW11DW

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R1/FS at OUNo.6 - Site 36 MCAS, New River  
 S.O. NO.: 62470-303 BORING NO.: 36-GW11DW

SAMPLE TYPE					DEFINITIONS					
S = Split Spoon	A = Auger				SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')					
T = Shelby Tube	W = Wash				RQD = Rock Quality Designation (%)					
R = Air Rotary	C = Core				Lab. Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)					
D = Denison	P = Piston				Lab. Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis					
N = No Sample										
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	Visual Description	Well Installation Detail			Elevation	
71	R-N				SILT and FINE SAND, some shell fragments, trace clay; wet; partial cementation	#5	#8	#5	#1 Sand Bottom of well @ 72.0'	73.0
2										
3		73.0					#5			
					End of Boring @ 73.0'					
4										
75										
6										
7										
8										
9										
80										
1										
2										
3										
4										
85										
6										
7										
8										
9										
90										

DRILLING CO.: Hardin Huber Incorporated  
 DRILLER: Jay Corron

BAKER REP.: Dave Gaviglia  
 BORING NO.: 36-GW11DW SHEET 5 OF 5

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-GW12  
 COORDINATES: EAST: 2467406.4722 NORTH: 362287.4632  
 ELEVATION: SURFACE: TOP OF PVC CASING: 11.64

RIG: Mobile B-80					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1-3/8"		4 1/4"		4/23/95	0.0 - 21.0	Cloudy & Mild	8.0	1425
LENGTH	2.0		5'						
TYPE	Std.		HSA						
HAMMER WT.	140 lbs.		-						
FALL	30"		-						
STICK UP			-						

REMARKS:

<b>SAMPLE TYPE</b> S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = Air Rotary      C = Core D = Denison      P = Piston N = No Sample		Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
		Riser	2.0"	Schedule 40 PVC	+2.0	5.0
		Screen	2.0"	Schedule 40 0.01 Slot	5.0	20.0

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm) P/S/B/S	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1	A-N			00		SILTY SAND, trace clay; brown; m. dense; dry to damp		1.0
2	S-1	1.7 85%	6 6 9 7		0.2 0.2			3.0
3								4.0
4	S-2	1.9 95%	6 3 4 7		0.2 0.2	CLAY, trace to little silt; fine sand; gray & orange; mottled w/ vert. stripes; m. stiff; damp		7.64
5								5.0
6	S-3	0.9 45%	6 4 4 6	03	0.2 0.2	sandy clay layer; moist to wet - GROUNDWATER @ 8.0 FT		
7								
8	S-4	1.8 90%	4 7 6 5		0.2 0.2			
9								
10	S-5	1.8 90%	2 3 3		0.3 0.2			

Match to Sheet 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

BORING NO.: 36-GW12

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')		RQD = Rock Quality Designation (%) PID = Photoionization Detector ppm = parts per million		
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = Air Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
11			3			Continued from Sheet 1. SAND (fine), some silt & clay; tan; m. stiff; wet		
12	S-6	1.3 65%	1 2		0.2 0.2			
13			3			SAND (fine), some silt, trace clay; gray; v. loose to loose; wet		
14	S-7	1.4 70%	1 2		0.2 0.2	iron stained laminae		
15								
16	S-8	1.5 75%	1 1		0.2 0.2	clayey zone @ 16.0-16.3ft		
17								
18	S-9	1.4 70%	12" 5		0.3 0.2	trace gravel, clay layer @ 18.0-18.2ft		
19			3			SHELL FRAGMENTS, trace to little silt & clay; brown; m. dense; wet		
20	A-N							20.0 - 8.36
21								21.0 - 9.36
22						BOH @ 21.0ft		
23								
24								
25								
26								
27								
28								
29								
30								

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Mark DeJohn

DRILLER: Royce Keenan

BORING NO.: 36-GW12

SHEET 2 OF 2



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R/FS at OU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-GW12IW  
 COORDINATES: EAST: 246.7396.3251 NORTH: 362286.6412  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: 12.15

RIG: <u>Mobile B-80 (Mudrotary)</u>					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1-3/8"				4/23/95	0.0-36.0	Cloudy & mild	-	-
LENGTH	2.0								
TYPE	Std.								
HAMMER WT.	140 lbs.								
FALL	30"								
STICK UP									

REMARKS:

<b>SAMPLE TYPE</b> S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = <del>Air</del> Rotary      C = Core D = Denison      P = Piston N = No Sample		Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
		Riser	2.0"	Schedule 40 PVC	+2.0	26.0
		Screen	2.0"	Schedule 40 0.01 Slot	26.0	36.0

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1	S-1	2.0 100%	4 3 3 2		0.3 0.3	SILTY SAND (Fine), little clay; gray, brown & rust; mottled; loose; damp		
2								
3								
4	R-N							
5								7.15
6	S-2	1.4 70%	2 3 5 7		0.3 0.3	CLAY, some silt, little fine sand; gray & rust; mottled; stiff; damp		
7								
8								
9	R-N							
10								2.15

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc. BAKER REP.: Mark DeJohn  
 DRILLER: Royce Keenan BORING NO.: 36-GW12IW SHEET 1 OF 3

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW12IW

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')					
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)					
R = Air Rotary		C = Core		PID = Photoionization Detector					
D = Denison		P = Piston		ppm = parts per million					
N = No Sample									
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)	
11	S-3	0.8 40%	2 3		$\frac{0.3}{0.3}$	Continued from Sheet 1 SAND (Fine), some silt, little clay; brown; loose; wet			
12			3 1						
13	R-N								
14									
15									
16									
17							17.0	-4.85	
18									
19									
20									
21	S-4	1.0 50%	W04 12"		$\frac{0.2}{0.2}$	SHELL FRAGMENTS, little fine sand & clay; partial cementation; tan; dense; wet			
22			17 23						
23	R-N								
24									
25									
26	S-5	1.3 65%	30 20		$\frac{0.3}{0.3}$	trace to little silt & clay; tan w/ iron staining			
27			25 17						
28	R-N								
29									
30									

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Mark DeJohn

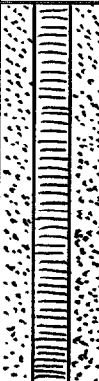
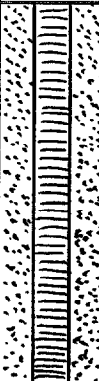
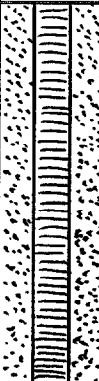
DRILLER: Royce Keenan

BORING NO.: 36-GW12IW SHEET 2 OF 3

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW12IW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')				
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = Air Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
31	S-6	1.5 75%	32 24		$\frac{0.3}{0.3}$	Continued from Sheet 1 v. dense		
32			26 17					
33	S-7	1.5 75%	26 21		$\frac{0.3}{0.3}$	some silt & clay; gray; dense		
34			20 13					
35	S-8	1.8 90%	18 17		$\frac{0.3}{0.3}$	SAND (fine), some silt, little clay, trace shells; greenish- gray; v. stiff; damp		-22.35
36			12 15					34.5 36.0
37						BoH @ 36.0 ft		
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Mark DeJohn

DRILLER: Royce Kennan

BORING NO.: 36-GW12IW





# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-GW13  
 COORDINATES: EAST: 2467569.1431 NORTH: 362490.5594  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: 6.19

RIG: <u>Mobile B-80</u>					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1-3/8"		4 1/4"		4/24/95	0.0-20.0	Cloudy & mild	6.0	1326
LENGTH	2.0		5'						
TYPE	Std.		HSA						
HAMMER WT.	140 lbs.		-						
FALL	30"		-						
STICK UP			-						

REMARKS:

SAMPLE TYPE		Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
S = Split Spoon	A = Auger	Riser	2.0"	Schedule 40 PVC		4.0
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core					
D = Denison	P = Piston	Screen	2.0"	Schedule 40 0.01 Slot	4.0	19.0
N = No Sample						

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm) <u>PS/BG</u>	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1	A-N			00		SILTY SAND (Fine), trace clay; brown; m. dense; damp	0.5	5.69
2	S-1	0.6 30%	9 17		0.5 0.5	trace to little clay, trace glass frag.		
3			12 11				3.0	3.19
4	S-2	1.3 65%	1 3	02	0.5 0.5	black stain w/hydrocarbon odor; loose	4.0	2.19
5			2 1					
6	S-3	1.8 90%	1 2	03	0.6 0.5	SANDY CLAY, little silt, trace roots; light green; m. stiff; moist to wet		
7			5 5					
8	S-4	1.5 75%	1 2		0.6 0.5		8.2	-2.01
9			3 3					
10	S-5	1.5 75%	1 1		0.4 0.4	SAND (Fine), some silt, little clay; olive drab; loose; moist to wet	9.0	-2.81

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc. BAKER REP.: Mark DeJohn  
 DRILLER: Royce Keenan BORING NO.: 36-GW13 SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW13

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')				
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = Air Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
11			3			Continued from Sheet 1		
12	S-6	2.0 100%	4 4 7 8		0.5 0.5	SAND (Fine), some shell frag. & silt, trace clay; brown & tan; v. loose to m. dense		
13			4 8 15 18		0.5 0.5	amt. of shells decreases w/ depth to "trace"		
14	S-7	1.5 75%						
15			13 13 14 11		0.6 0.6	SHELL FRAG., little silt & clay; partial cementation; light tan; m. dense; wet		-8.81
16	S-8	1.8 90%						
17	S-9	1.4 70%	12 12 14 8		0.6 0.6	trace silt & clay; iron staining		
18								-12.81
19	A-N							
20								-13.81
21						BOH @ 20.0 ft		
22								
23								
24								
25								
26								
27								
28								
29								
30								

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Mark DeJohn

DRILLER: Royce Keenan

BORING NO.: 36-GW13

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: R/FS at QU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-GW13IW  
 COORDINATES: EAST: 2467559.6322 NORTH: 362491.8646  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: 5.98

RIG: <u>Mobile B-20</u>					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1-3/8"		4 1/4"		4/24/95	0.0-34.0	Cloudy & mild	-	-
LENGTH	2.0		5'						
TYPE	Std.		1.5A						
HAMMER WT.	140 lbs.		-						
FALL	30"		-						
STICK UP			-						

REMARKS:

<b>SAMPLE TYPE</b>				Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
S = Split Spoon	A = Auger			Riser	2.0"	Schedule 40 PVC		23.0
T = Shelby Tube	W = Wash			Screen	2.0"	Schedule 40 0.01 Slot	23.0	33.0
R = Air Rotary	C = Core							
D = Denison	P = Piston							
N = No Sample								

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1	S-1	1.7 85%	4 4		0.5 0.5	SILTY SAND (Fine), trace to little clay; brown; loose; damp		
2			4 5					
3	A-N							
4								
5								
6	S-2	2.0 100%	1 1		0.5 0.5	SANDY CLAY, some silt, trace roots; gray; soft; moist		0.98
7			2 2					
8	A-N							
9								
10								

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc. BAKER REP.: Mark DeJohn  
 DRILLER: Royce Keenan BORING NO.: 36-GW13IW SHEET 1 OF 3

**TEST BORING AND WELL CONSTRUCTION RECORD**

PROJECT: R/FS at OU No. 6 - Site 36 - MCAS, New River  
CTO NO.: 62470-303

BORING NO.: 36-GW13IW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')				
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = Air Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
11	S-3	1.4 70%	1/12"		0.5	Continued from Sheet 1 SAND (Fine), some silt, trace clay; olive drab; v. loose; wet		
12			1		0.5			12.0
13	A-N							
14								
15	S-4	1.0 100%	2		0.5	SAND (Fine shell frag.), trace silt & clay; tan; wet		-9.02
16			50/5"		0.5			15.0
17	A-N							
18								
19								
20								
21	S-5	1.4 70%	13		0.5	SHELL FRAGMENTS, little silt & clay; partial cementation; light tan; dense; wet		
22			18		0.5			21
23	A-N							
24								
25	S-6	0.9 45%	17		0.5	sandy, trace silt & clay; brown		
26			20		0.5			25
27	A-N							
28								
29								
30								

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Mark DeJohn

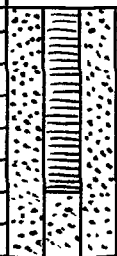
DRILLER: Royce Keenan

BORING NO.: 36-GW13IW

**TEST BORING AND WELL CONSTRUCTION RECORD**

PROJECT: R/ES at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW13IW

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')				
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)				
R = Air Rotary		C = Core		PID = Photoionization Detector				
D = Denison		P = Piston		ppm = parts per million				
N = No Sample								
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
31	S-7	1.7 85%	8		0.5	Continued from Sheet 1 same silt & clay; light green 31.5		-25.52
32			12	7	0.5			
33	A-N					SAND (Fine), some silt & clay; green; m. dense; damp 34.0	33.0	-27.02
34								
35						BOH @ 34.0 FT.		
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: Mark DeJohn

DRILLER: Royce Keenan

BORING NO.: 36-GW13IW



# TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-GW14  
 COORDINATES: EAST: 2466585.2793 NORTH: 362343.6574  
 ELEVATION: SURFACE: \_\_\_\_\_ TOP OF PVC CASING: 16.25

RIG: <u>Mobile B-80</u>					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1-3/8"		4 1/2"		4/24/95	0.0-19.0	Cloudy & mild	5.0	1629
LENGTH	2.0		5'						
TYPE	Std.		HSA						
HAMMER WT.	140 lbs.		-						
FALL	30"		-						
STICK UP			-						

REMARKS:

<b>SAMPLE TYPE</b>		Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
S = Split Spoon	A = Auger	Riser	2.0"	Schedule 40 PVC		3.0
T = Shelby Tube	W = Wash	Screen	2.0"	Schedule 40 0.01 Slot	3.0	18.0
R = Air Rotary	C = Core					
D = Denison	P = Piston					
N = No Sample						

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm) <sub>TS/BG</sub>	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1	A-N			00		SILTY SAND (Fine), trace clay; brown; damp		15.25
2	S-1	1.3 65%	2 3 4 8		0.7 0.6	little clay; gray to tan; loose		13.25
3								
4	S-2	1.6 80%	3 8 8	02	0.8 0.8	gray; m. dense; wet		
5						GROUNDWATER @ 5.0ft		
6	S-3	1.5 75%	2 3 1 1		1.0 1.0	CLAY, trace silt; gray; soft; moist		10.05
7								
8	S-4	1.7 85%	1 1 1 1		0.8 0.8	CLAY, little silt, trace fine sand; gray; brown; mottled; v. soft; moist to wet		8.45
9								
10	S-5	2.0 100%	3 5 8		0.8 0.8	CLAY, trace silt; gray; moist		6.35

DRILLING CO.: Hardin-Huber, Inc. BAKER REP.: Mark DeJohn  
 DRILLER: Royce Keenan BORING NO.: 36-GW14 SHEET 1 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RIFS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303

BORING NO.: 36-GW14

SAMPLE TYPE						DEFINITIONS			
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586)(Blows/0.5')					
T = Shelby Tube		W = Wash		RQD = Rock Quality Designation (%)					
R = Air Rotary		C = Core		PID = Photoionization Detector					
D = Denison		P = Piston		ppm = parts per million					
N = No Sample									
Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)	
11			10			Continued from Sheet 1			
12	S-6	1.6 80%	3 3 3 2		0.8 0.8	SILTY SAND (fine), trace to little clay; gray; loose; wet			
13									
14	S-7	1.0 50%	3 3 3 4		1.3 1.3	greenish-gray			
15									
16	S-8	1.4 70%	4 9 9 12		1.0 1.0	Fine to med. sand; gray; m.dense; wet			
17									
18	A-N							18.0 -1.75	
19								19.0 -2.75	
20						BoH @ 19.0ft			
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

DRILLING CO.: Hardin-Huber, Inc. BAKER REP.: Mark DeJohn

DRILLER: Royce Keenan BORING NO.: 36-GW14 SHEET 2 OF 2

## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RI/FS at OU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-Two1  
 COORDINATES: EAST: 2467732.8258 NORTH: 361677.9268  
 ELEVATION: SURFACE: 2.60 TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Geoprobe 5400</u>					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
LARGE BORE SAMPLER	LINER	AUGERS	CORE BARREL						
SIZE (DIAM.)	1-3/8" ID	1-1/8" ID			3/14/95	0.0-8.0	Sunny & warm	-	-
LENGTH	4.0'	4.0'							
TYPE	Piston	Plastic							
HAMMER WT.	NA								
FALL	NA								
STICK UP									

REMARKS:

<b>SAMPLE TYPE</b> S = Split Spoon      A = Auger T = Shelby Tube      W = Wash R = Air Rotary      C = Core D = Denison      P = Piston N = No Sample				Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
				Riser	2.0"	Schedule 40 PVC	+2.0	3.0
				Screen	2.0"	Schedule 40 0.01 Slot	3.0	8.0

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1						SAND (fine), some silt, little clay; greenish-gray; damp		
2	S-1	2.0 50%						
3								
4	to							
5								
6	S-2	0.0			No recovery			
7								
8	to							
9						BoH @ 8.0 ft.		
10								

Match to Sheet 2



## TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: RIFS at OU NO. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 BORING NO.: 36-TW02  
 COORDINATES: EAST: 2467916.2300 NORTH: 361688.8390  
 ELEVATION: SURFACE: 3.40 TOP OF PVC CASING: \_\_\_\_\_

RIG: <u>Geoprobe 5400</u>					DATE	PROGRESS (FT.)	WEATHER	WATER DEPTH (FT.)	TIME
LARGE BORE SAMPLER	LINER	AUGERS	CORE BARREL						
SIZE (DIAM.)	1-3/8" ID	1-1/8" ID			3/14/95	0.0-8.0	Sunny & Warm	-	-
LENGTH	4.0'	4.0'							
TYPE	Piston	Plastic							
HAMMER WT.	NA								
FALL	NA								
STICK UP									

REMARKS:

<b>SAMPLE TYPE</b>				Well Information	Diam.	Type	Top Depth (ft.)	Bottom Depth (ft.)
S = Split Spoon	A = Auger			Riser	2.0"	Schedule 40 PVC		
T = Shelby Tube	W = Wash			Screen	2.0"	Schedule 40 0.01 Slot		
R = Air Rotary	C = Core							
D = Denison	P = Piston							
N = No Sample								

Depth (ft.)	Samp. Type and No.	Samp. Rec. (ft. & %)	SPT or RQD	Lab ID No.	PID (ppm)	Visual Description	Well Installation Detail	Elevation (ft. MSL)
1						SAND (fine), some silt, little metal & charred wood, trace clay; greenish-gray; damp		2.90
2	5-1	2.0 50%						
3								
4					4.0			
5								
6	5-2	0.0			No recovery			-2.10
7								
8					8.0		8.0	-4.60
9								
10								

Match to Sheet 2

**APPENDIX C**  
**EXPLORATORY TEST PIT RECORDS**

# TEST PIT RECORD

Project: R1/FS at OU No. 6 - site 36 CTO No.: 303  
 Test Pit No.: 36-TP01 Date: April 19, 1995 Weather: Sunny & mild  
 Endpoint Coordinates: North: 361829.2273 North: 361809.1219  
 East: 2467672.7414 East: 2467705.4756  
 Elevation: 9.00 Elevation: 8.30  
 Contractor: HHI Equipment: Backhoe Baker Rep.: DeJohn, Trebilcock  
Herbst

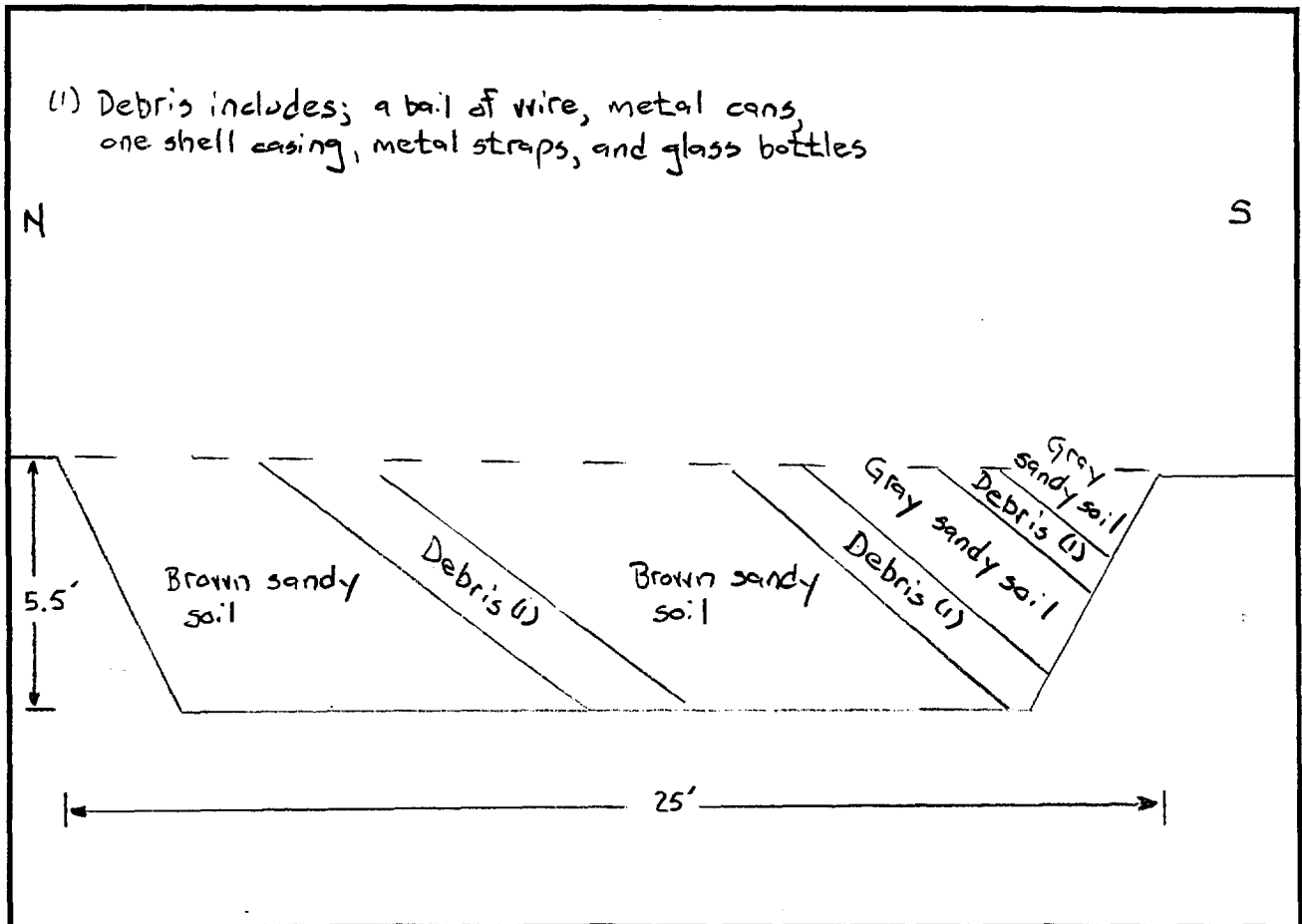
## AIR MONITORING

Time	PID (PS/BG)	FID (PS/BG)	Source
0849	0.1/0.1	1.0/1.0	
0857	0.1/0.1	1.0/1.0	
0907	0.4/0.1	1.0/1.0	Material from pit

## Definitions

PID = Photo Ionization Detector  
 FID = Flame Ionization Detector  
 PS = Point Source (in ppm)  
 BG = Background (in ppm)

## TEST PIT CROSS SECTION



# TEST PIT RECORD

Project: RI/FS at OU No. 6 - site 36 CTO No.: 303  
 Test Pit No.: 36-TPO2 Date: April 19, 1995 Weather: Sunny & mild  
 Endpoint Coordinates: North: 361775.2000 North: 361759.9983  
 East: 246763.6062 East: 2467670.6597  
 Elevation: 8.00 Elevation: 8.20  
 Contractor: HHI Equipment: Backhoe Baker Rep.: DeJohn, Trebilcock, Herbst

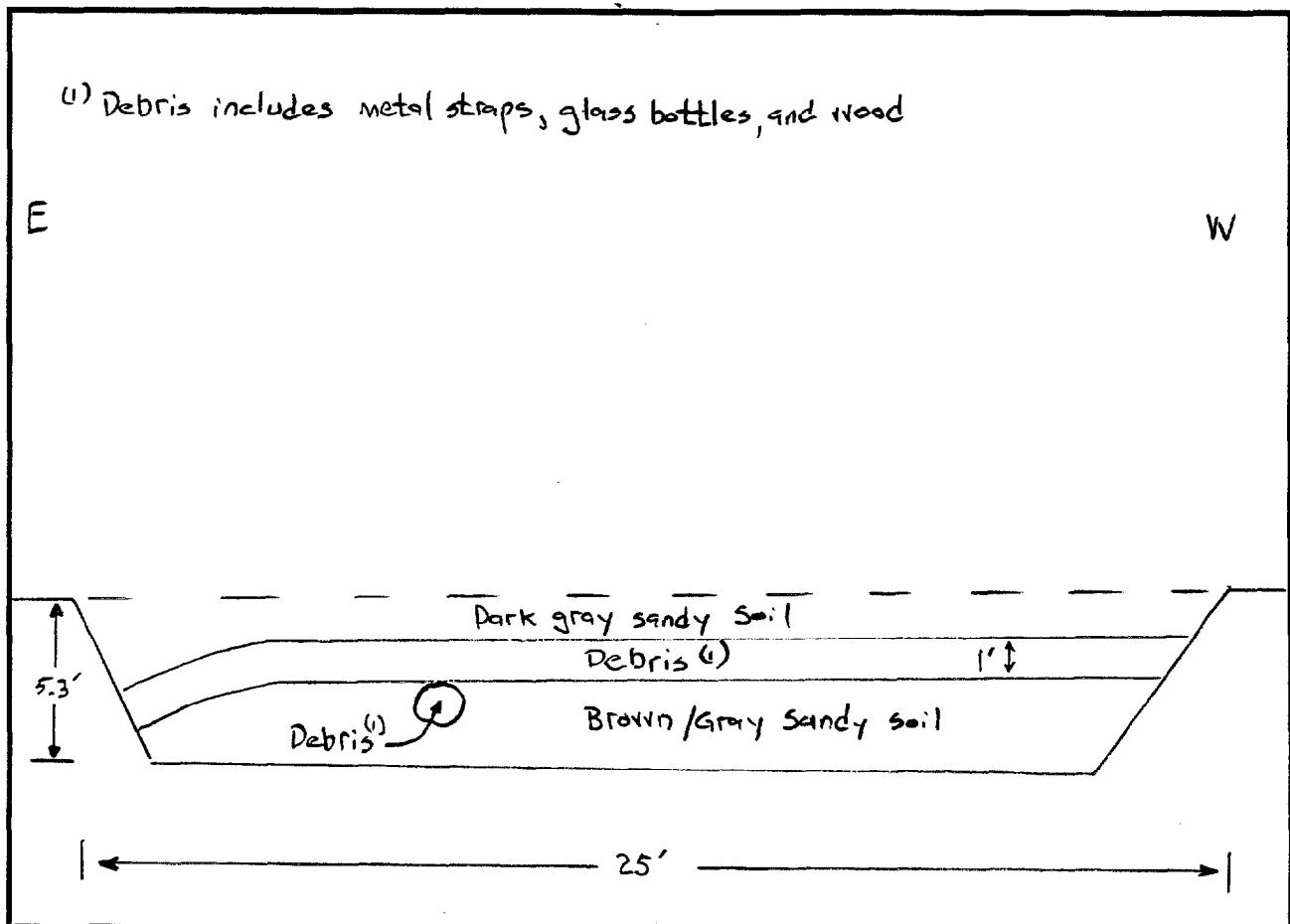
## AIR MONITORING

Time	PID (PS/BG)	FID (PS/BG)	Source
0955	0.4/0.4	1.0/1.0	Soil Pile
1000	0.4/0.4	1.0/1.0	Soil Pile

## Definitions

PID = Photo Ionization Detector  
 FID = Flame Ionization Detector  
 PS = Point Source (in ppm)  
 BG = Background (in ppm)

## TEST PIT CROSS SECTION



# TEST PIT RECORD

Project: RI/FS at OU No. 6 - site 36 CTO No.: 303  
Test Pit No.: 36-TPO3 Date: April 19, 1995 Weather: Sunny & warm  
Endpoint Coordinates: North: 361971.5765 North: 361971.0704  
East: 2467663.0979 East: 2467701.3646  
Elevation: 9.70 Elevation: 10.80  
Contractor: HHI Equipment: Backhoe Baker Rep.: DeJohn, Trebilcock  
Herbst

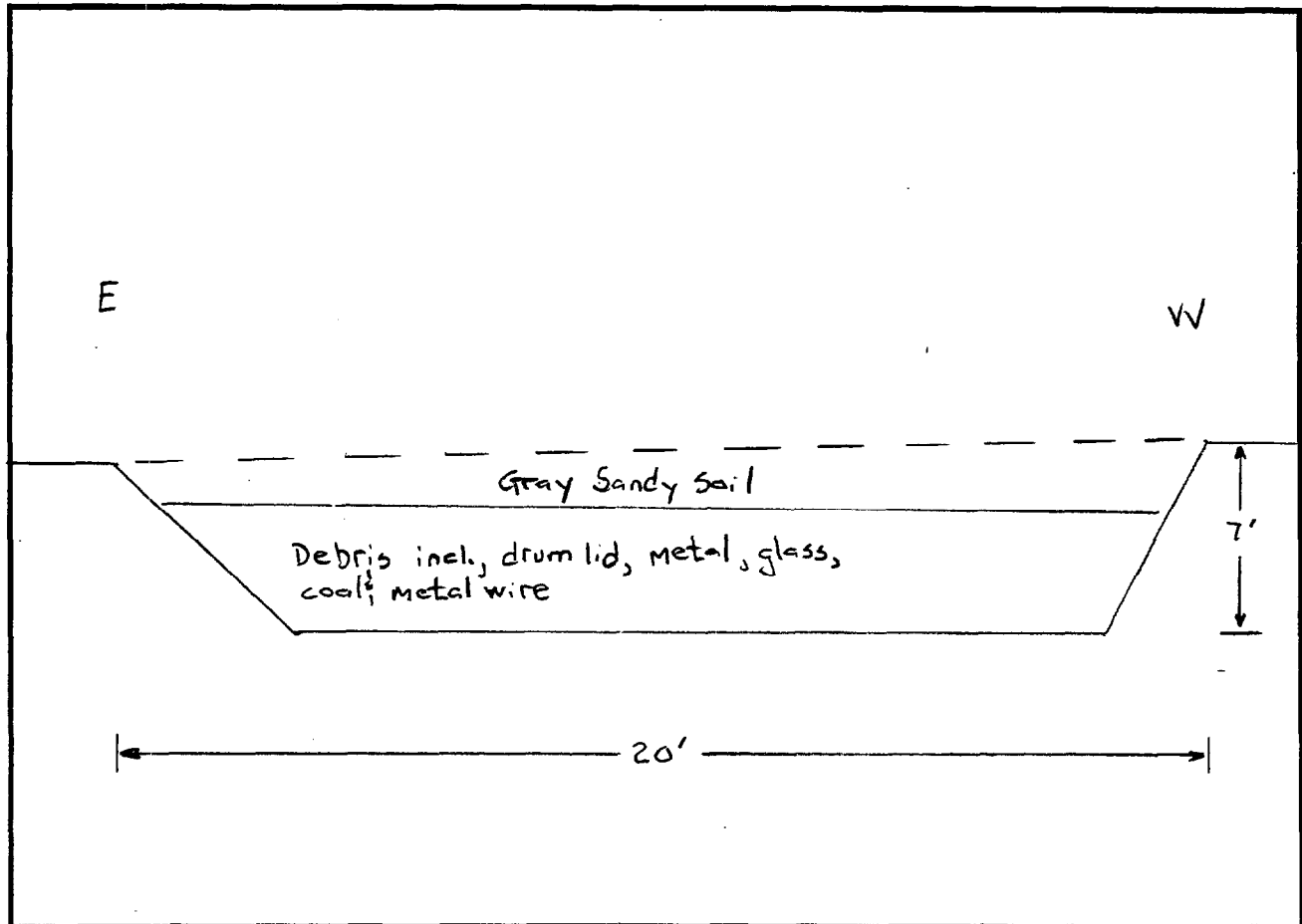
## AIR MONITORING

Time	PID (PS/BG)	FID (PS/BG)	Source
1102	0.3/0.3	3.4/2.6	Debris from pit (4-5ft)
1115	-	1.9/1.9	soil from pit

## Definitions

PID = Photo Ionization Detector  
FID = Flame Ionization Detector  
PS = Point Source (in ppm)  
BG = Background (in ppm)

## TEST PIT CROSS SECTION



# TEST PIT RECORD

Project: RI/FS at CU No 6 - site 36

CTO No.: 303

Test Pit No.: 36-TP04 Date: April 19, 1995

Weather: Sunny & Hot

Endpoint Coordinates: North: 362009.5980

North: 362022.2852

East: 2467886.0392

East: 2467903.4588

Elevation: 13.40

Elevation: 12.30

Contractor: HHI Equipment: Backhoe

Baker Rep.: DeJohn, Trebilcock,  
Herbst

## AIR MONITORING

Time	PID (PS/BG)	FID (PS/BG)	Source
1452	0.5/0.5	1.0/1.0	Soil Pile
1507	0.5/0.5	1.0/1.0	Soil Pile

## Definitions

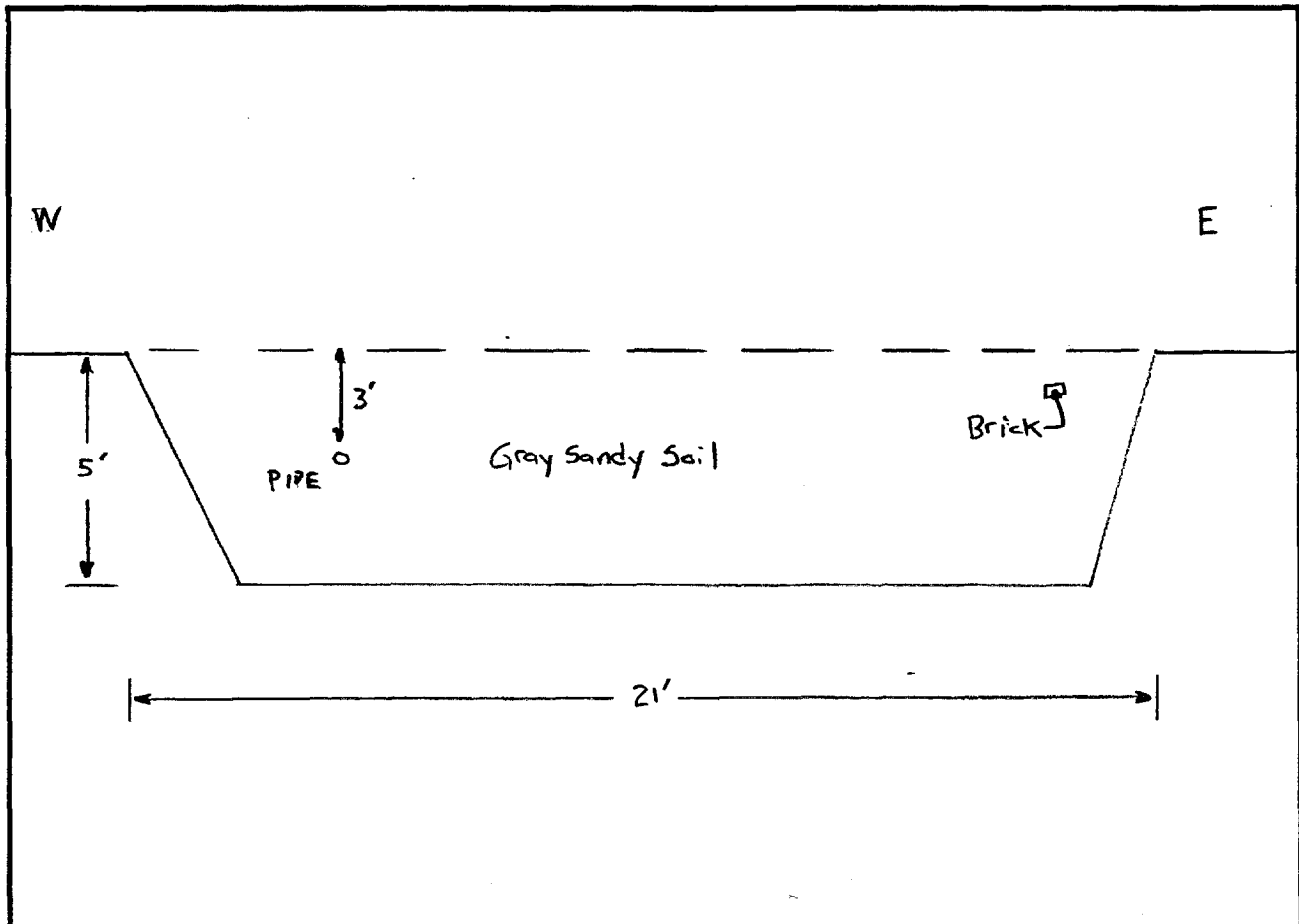
PID = Photo Ionization Detector

FID = Flame Ionization Detector

PS = Point Source (in ppm)

BG = Background (in ppm)

## TEST PIT CROSS SECTION



# TEST PIT RECORD

Project: RI/FS at OU No. 6 - Site 36 CTO No.: 303

Test Pit No.: 36-TPO5 Date: April 19, 1995

Weather: M. Sunny & Hot

Endpoint Coordinates: North: 361987.5034

North: 361979.5932

East: 2467895.4209

East: 2467921.2377

Elevation: 15.20

Elevation: 16.30

Contractor: IHI Equipment: Backhoe

Baker Rep.: DeJohn, Trebilcock,  
Herbst

## AIR MONITORING

Time	PID (PS/BG)	FID (PS/BG)	Source
1600	0.3/0.3	1.0/1.0	-
1606	0.8/0.8	0.4/0.4	-

## Definitions

PID = Photo Ionization Detector

FID = Flame Ionization Detector

PS = Point Source (in ppm)

BG = Background (in ppm)

## TEST PIT CROSS SECTION

NO SKETCH WAS MADE. HOWEVER,  
IT WAS NOTED THAT "A PIECE OF  
METAL AND A SMALL METAL CONTAINER  
HAVE BEEN UNEARTHED."

# TEST PIT RECORD

Project: RI/FS at OU No 6 - Site 36 CTO No.: 303

Test Pit No.: 36-TPO6A Date: April 20, 1995

Weather: Sunny & Warm

Endpoint Coordinates: North: 361889.2381

North: 361885.8920

East: 2467302.5535

East: 2467284.4671

Elevation: 12.40

Elevation: 13.10

Contractor: HHI Equipment: Backhoe

Baker Rep.: DeJohn, Trebilcock,  
Herbst

## AIR MONITORING

Time	PID (PS/BG)	FID (PS/BG)	Source
0751	0.5/0.5	1.0/1.0	Soil from pit

## Definitions

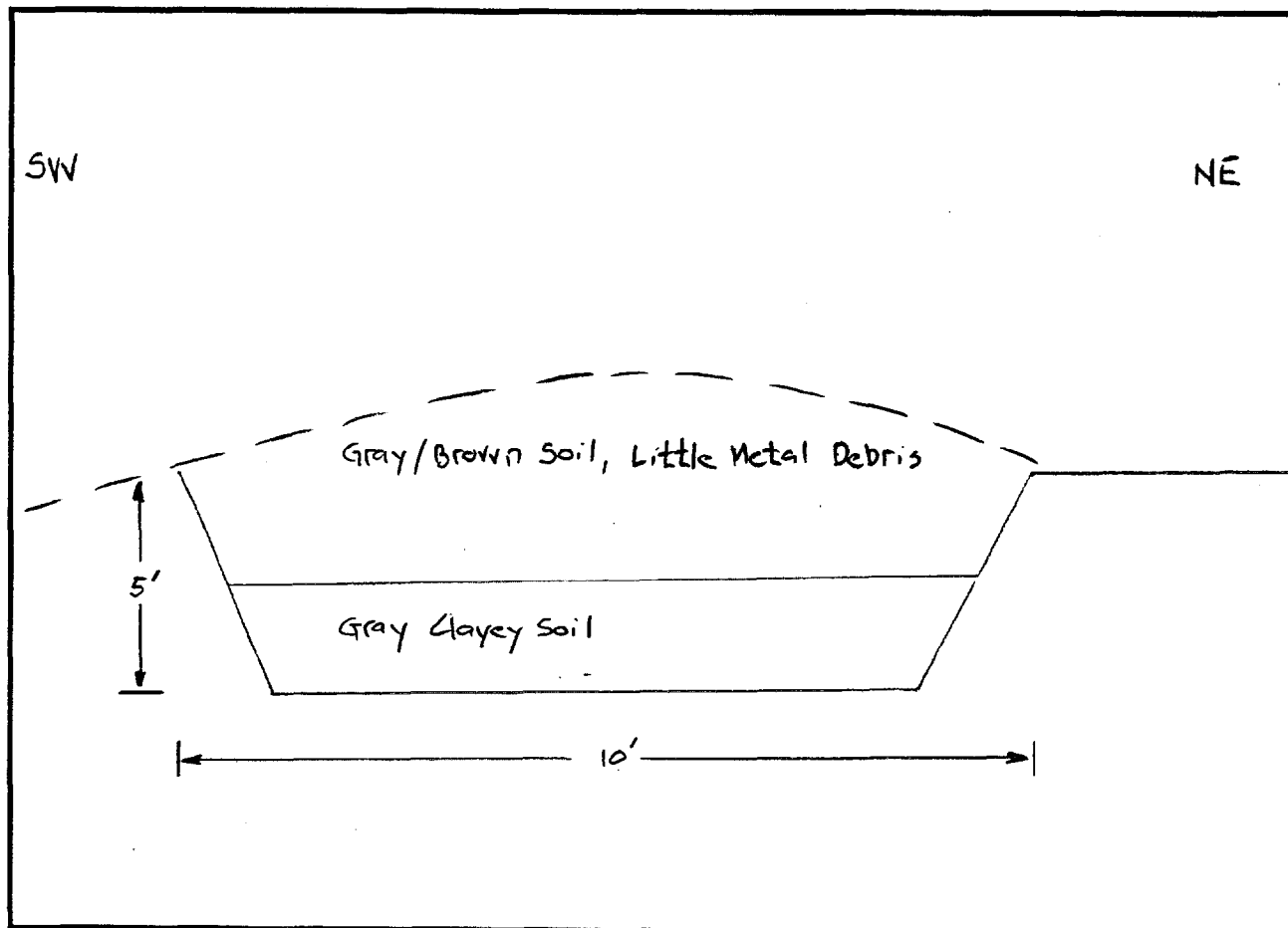
PID = Photo Ionization Detector

FID = Flame Ionization Detector

PS = Point Source (in ppm)

BG = Background (in ppm)

## TEST PIT CROSS SECTION





# TEST PIT RECORD

Project: RI/F3 at OU No 6 - Site 36 CTO No.: 303

Test Pit No.: 36-TP06 B Date: April 20, 1995

Weather: Sunny & Warm

Endpoint Coordinates: North: 361880.6675

North: 361889.2381

East: 2467303.5280

East: 24,67302.5535

Elevation: 12.30

Elevation: 12.40

Contractor: HHI Equipment: Backhoe

Baker Rep.: DeJohn, Trebilcock,  
Herbst

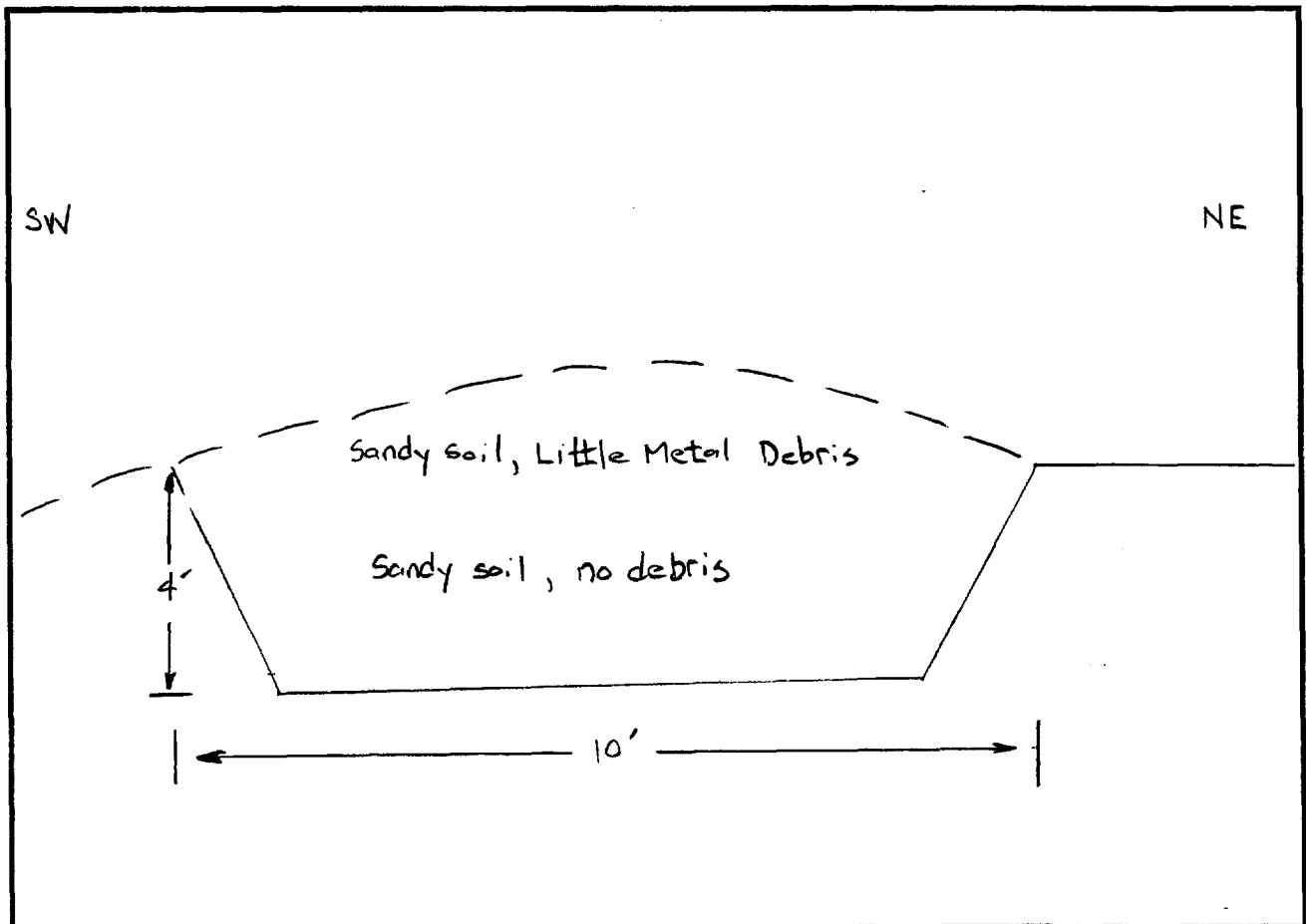
## AIR MONITORING

Time	PID (PS/BG)	FID (PS/BG)	Source
0757	0.4/0.4	1.0/1.0	soil from pit

## Definitions

PID = Photo Ionization Detector  
 FID = Flame Ionization Detector  
 PS = Point Source (in ppm)  
 BG = Background (in ppm)

## TEST PIT CROSS SECTION



# TEST PIT RECORD

Project: RI/FS at OU No. 6 - Site 36 CTO No.: 303  
 Test Pit No.: 36-TP07 Date: April 20, 1995 Weather: Sunny & Warm  
 Endpoint Coordinates: North: 361775.3211 North: \_\_\_\_\_  
 East: 2467245.5684 East: \_\_\_\_\_  
 Elevation: 16.20 Elevation: \_\_\_\_\_  
 Contractor: HHI Equipment: Backhoe Baker Rep.: DeJohn, Fred; Lock, Herb

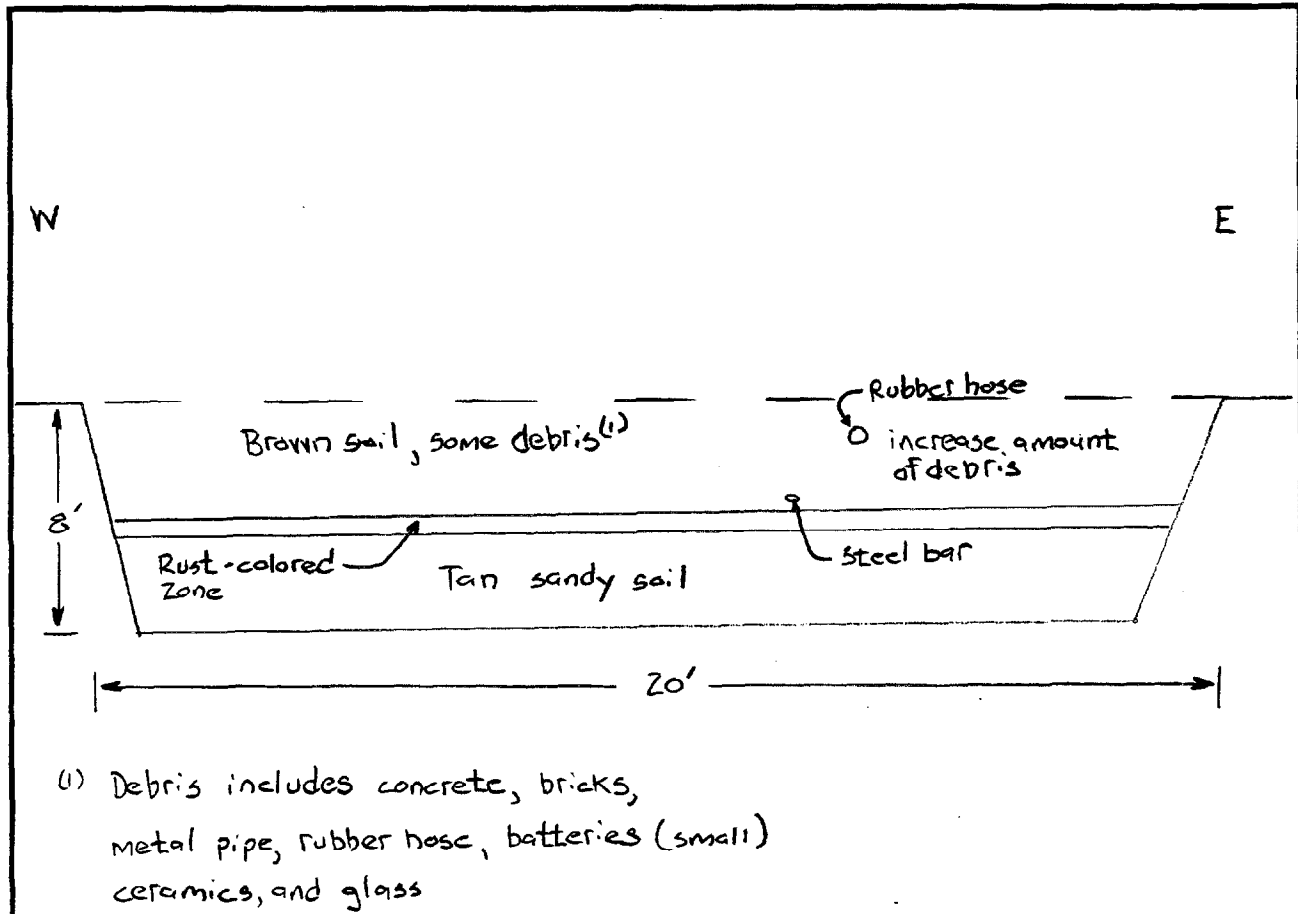
## AIR MONITORING

Time	PID (PS/BG)	FID (PS/BG)	Source
0818	0.4/0.4	1.1/1.0	Soil from pit
0827	0.4/0.4	1.1/1.1	Soil from pit
0835	0.3/0.3	1.0/1.0	Soil from pit

## Definitions

PID = Photo Ionization Detector  
 FID = Flame Ionization Detector  
 PS = Point Source (in ppm)  
 BG = Background (in ppm)

## TEST PIT CROSS SECTION



**APPENDIX D**  
**CHAIN-OF-CUSTODY FORMS**

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WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client <u>Baker Environmental</u>		Refrigerator # _____	
Est. Final Proj. Sampling Date <u>5-1-95</u>		#/Type Container <input type="checkbox"/> Liquid <input type="checkbox"/> Solid	
Work Order # _____		Volume <input type="checkbox"/> Liquid <input type="checkbox"/> Solid	
Project Contact/Phone # <u>L. Johnson / 412-269-6000</u>		Preservatives _____	
AD Project Manager <u>Denise Weltman</u>		ANALYSES REQUESTED →	
QC <u>Del</u> <u>TAT</u>		ORGANIC	
Date Rec'd _____ Date Due _____		Metal <input type="checkbox"/> CN <input type="checkbox"/>	
Account # _____		INORG	
		# <u>20</u> <u>75</u>	
		# <u>75</u> <u>20</u>	

							WESTON Analytics Use Only													
MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected													
			MS	MSD				VOA	BNA	Pest/PCB	Herb					Metal	CN	#	TURN AROUND	
		<u>TS 1</u>			<u>S</u>	<u>2/21/95</u>	<u>0940</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<u>2</u>	<u>72hr</u>
		<u>36-OF-SB01-00</u>			<u>S</u>		<u>1224</u>			<input checked="" type="checkbox"/>										<u>7 day</u>
		<u>36-OF-SB01-04</u>			<u>S</u>		<u>1241</u>													<u>7 day</u>
		<u>36-OF-SB06-00</u>			<u>S</u>		<u>1330</u>													<u>7 day</u>
		<u>36-OF-SB06-03</u>			<u>S</u>		<u>1404</u>													<u>7 day</u>
		<u>36-OF-SB05-00</u>			<u>S</u>		<u>1450</u>													<u>Routine</u>
		<u>36-OF-SB05-00D</u>			<u>S</u>		<u>1450</u>													<u>Routine</u>
		<u>36-OF-SB05-06</u>			<u>S</u>		<u>1550</u>													<u>Routine</u>
		<u>36-OF-SB03-00</u>			<u>S</u>		<u>1620</u>													<u>Routine</u>
		<u>36-OF-SB03-03</u>			<u>S</u>	<u>Y</u>	<u>1643</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<u>Routine</u>

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
- SEE LAST COLUMN FOR TURN AROUND TIME.  
- AIRBILL # 2124804953

DATE/REVISIONS:

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_

WESTON Analytics Use Only	
Samples were: 1) Shipped <input type="checkbox"/> or Hand Delivered <input type="checkbox"/> Airbill # _____	COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N 5) Received Within Holding Times Y or N
4) Labels Indicate Properly Preserved Y or N	COC Record Present Upon Sample Rec't Y or N
5) Received Within Holding Times Y or N	

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES:

COC # 303001

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client <u>Baker Environmental</u>	Refrigerator #																			
Est. Final Proj. Sampling Date <u>5-1-95</u>	#/Type Container	Liquid																		
Work Order #	Volume	Solid																		
Project Contact/Phone # <u>Linnæ Johnson / 412-269-6000</u>	Preservatives	Liquid																		
AD Project Manager <u>Denise Waltman</u>		Solid																		
QC <u>Del</u> <u>TAT</u>																				
Date Rec'd _____ Date Due _____	ANALYSES REQUESTED →																			
Account # _____																				

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																			
			MS	MSD				VOA	BNA	Pest/PCB	Herb																
		36-OF-SB02-00	X	X	S	2/21/95	1710	X	X	X										X						4	Routine
		36-OF-SB02-00D			S	2/21/95	1710																			2	Routine
		36-OF-SB02-02			S	2/21/95	1721																			2	Routine
		86-GW18DW-00			S	2/22/95	0745																			2	Routine
		86-GW18DW-02			S	2/22/95	0904																			2	Routine
		36-OF-SB04-00			S	2/22/95	0750																			2	Routine
		36-OF-SB04-04			S	2/22/95	0816																			2	Routine
		36-FDA-SB03-00			S	2/22/95	0910																			2	7-day
		36-FDA-SB03-04			S	2/22/95	0936																			2	7-day
		36-OA-SB01-00			S	2/22/95	1025	∇	∇	∇										∇						2	7-day

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124804953

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only

Samples were: 1) Shipped <u>   </u> or Hand Delivered <u>   </u> Airbill # _____	COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N 5) Received Within Holding Times Y or N
--	--

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

COC # 303001

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client <u>Baker Environmental</u>		Refrigerator #																
Est. Final Proj. Sampling Date <u>5-1-95</u>		#/Type Container	Liquid															
Work Order # _____		Volume	Solid															
Project Contact/Phone # <u>L Johnson /412/269-6000</u>		Preservatives	Liquid															
AD Project Manager <u>Denise Waltman</u>			Solid															
QC <u>Del</u>	TAT	ANALYSES REQUESTED $\rightarrow$					ORGANIC					INORG		# Bottles	* Turn	Around		
Date Rec'd _____	Date Due _____						VOA	BNA	Pest/PCB	Herb								Metal
Account # _____	WESTON Analytics Use Only																	

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only								# Bottles	* Turn	Around	
			MS	MSD															
			1995																
		<u>36-OA-SBC1-01</u>			<u>S</u>	<u>2/22</u>	<u>1031</u>	X	X	X					X			<u>2</u>	<u>7-day</u>
		<u>36-SIER-01</u>			<u>W</u>	<u>2/22</u>	<u>1315</u>	X	X	X					X			<u>5</u>	<u>Routine</u>
		<u>303-TB-01</u>			<u>W</u>	<u>2/22</u>	<u>1445</u>	X										<u>2</u>	<u>Routine</u>

<b>FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS</b> Special Instructions: <u>- See Last column for sample turn around times</u> <u>- Airbill # 2124804953</u> <u>- 303-TB-01 = Weston Trip Blank</u>	<b>DATE/REVISIONS:</b> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____	<b>WESTON Analytics Use Only</b> Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____ 2) Ambient or Chilled 3) Received in Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N
		COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES: Y or N

# Custody Transfer Record/Lab Work Request

Client <u>BAKER ENVIRONMENTAL, INC.</u>			Refrigerator #																
Est. Final Proj. Sampling Date <u>5-1-95</u>			#/Type Container		Liquid														
Work Order #			Volume		Solid														
Project Contact/Phone # <u>LINNEA JOHNSON (412) 269-6000</u>			Preservatives		Liquid														
AD Project Manager <u>DENISE WATMAN</u>			ANALYSES REQUESTED →		Solid														
QC <u>Del TAT</u>			ORGANIC		INORG														
Date Rec'd _____ Date Due _____			VOA		BNA	Pest/PCB	Herb												
Account # _____			Metal		CN														

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only											# BOTTLES	TURN AROUND				
			MS	MSD				VOA	BNA	Pest/PCB	Herb	Metal	CN											
		36-FCA-SBφ2-φφ			S	2/22/95	1244	X	X	X					X								2	ROUTINE
		36-FCA-SBφ2-φ4			S	2/22/95	1310																	ROUTINE
		36-FCA-SBφ7-φφ			S	2/22/95	1553																	7-DAY
		36-FCA-SBφ7-φ1			S	2/22/95	1536																	7-DAY
		36-FCA-SBφ9-φφ			S	2/22/95	1653																	7-DAY
		36-FCA-SBφ9-φ2			S	2/22/95	1718																	7-DAY
		36-FCA-SB1φ-φφ			S	2/22/95	1400																	ROUTINE
		36-FCA-SB1φ-φ2			S	2/22/95	1409																	ROUTINE
		36-FCA-SB12-φφ			S	2/22/95	1454																	7-DAY
		36-FCA-SB12-φ2			S	2/22/95	1504	Y	Y	Y				Y								Y		7-DAY

<p>FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS</p> <p>Special Instructions:</p> <p>- SEE LAST COLUMN FOR TURN-AROUND TIMES</p> <p>- AIRBILL # 2124804904</p>	<p>DATE/REVISIONS:</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>6. _____</p>	<p>WESTON Analytics Use Only</p> <p>Samples were: _____ COC Tape was: _____</p> <p>1) Shipped ___ or Hand Delivered ___ Airbill # _____</p> <p>2) Ambient or Chilled _____</p> <p>3) Received in Good Condition Y or N _____</p> <p>4) Labels Indicate Properly Preserved Y or N _____</p> <p>5) Received Within Holding Times Y or N _____</p> <p>1) Present on Outer Package Y or N _____</p> <p>2) Unbroken on Outer Package Y or N _____</p> <p>3) Present on Sample Y or N _____</p> <p>4) Unbroken on Sample Y or N _____</p> <p>COC Record Present Upon Sample Rec't Y or N _____</p>
--	--	--

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.		2/23	1530				

Discrepancies Between Samples Labels and COC Record? Y or N \_\_\_\_\_

NOTES: \_\_\_\_\_

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client <u>BAKER ENVIRONMENTAL, INC</u>		Refrigerator #																	
Est. Final Proj. Sampling Date <u>5-1-95</u>		#/Type Container		Liquid															
Work Order #				Solid															
Project Contact/Phone # <u>LINNEA JOHNSON (412)269-6000</u>		Volume		Liquid															
AD Project Manager <u>DENISE WOLTMAN</u>				Solid															
QC _____ Del _____ TAT _____		Preservatives																	
Date Rec'd _____ Date Due _____		ANALYSES REQUESTED →		ORGANIC				INORG											
Account #				VOA				Metal		CN									
				BNA															
				Pes/PCB															
				Herb															

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected 1995	Time Collected	WESTON Analytics Use Only											# Bi/7/15	# GRN / Air/W/2			
			MS	MSD				VOA	BNA	Pes/PCB	Herb	Metal	CN										
	36-SIER-02				W	2/23/95	1100	X	X	X					X							5	HOLD
	36-FCA-SB03-00				S	2/23	0744	X	X	X					X							2	7-day
	36-FCA-SB03-02				S	2/23	0803	X	X	X					X							2	7-day
	36-FCA-SB06-00				S	2/23	0842	X	X	X					X							2	Routine
	36-FCA-SB06-03				S	2/23	0900	X	X	X					X							2	Routine
	36-FCA-SB11-00				S	2/23	0947	X	X	X					X							2	Routine
	36-FCA-SB11-03				S	2/23	1004	X	X	X					X							2	Routine
	36-FCA-SB14-00				S	2/23	1119	X	X	X					X							2	7-day
	36-FCA-SB14-01				S	2/23	1121	X	X	X					X							2	7-day
	303-TB-02				W	2/23	1445	X														2	Routine

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - SEE LAST COLUMN FOR TURN-AROUND TIMES  
 - AIRBILL NO. 2124804964  
 - 303-TB-02 = Weston Prepared Trip Blank

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only

Samples were:	COC Tape was:
1) Shipped ___ or	1) Present on Outer
Hand Delivered ___	Package Y or N
Airbill # _____	2) Unbroken on Outer
	Package Y or N
2) Ambient or Chilled	3) Present on Sample
	Y or N
3) Received in Good	4) Unbroken on
Condition Y or N	Sample Y or N
4) Labels Indicate	COC Record Present
Properly Preserved	Upon Sample Rec'd
Y or N	Y or N
5) Received Within	
Holding Times	
Y or N	

Relinquished by	Received by	Date	Time
7.7.7.		2/23	1530

Relinquished by	Received by	Date	Time

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES:



# Custody Transfer Record/Lab Work Request

Client: <b>BAKER ENVIRONMENTAL INC</b>		Refrigerator #													
Est. Final Proj. Sampling Date: <b>2/5/15</b>		#/Type Container													
Work Order #		Volume													
Project Contact/Phone: <b>LINNEA JOHNSON 707-229-2000</b>		Preservatives													
AD Project Manager: <b>DENISE WOLFE</b>		ANALYSES REQUESTED →													
QC Del	TAT	<table border="1"> <tr> <td colspan="4">ORGANIC</td> <td colspan="2">INORG</td> </tr> <tr> <td>VOA</td> <td>BNA</td> <td>Pest/PCB</td> <td>Herb</td> <td>Metal</td> <td>C</td> </tr> </table>		ORGANIC				INORG		VOA	BNA	Pest/PCB	Herb	Metal	C
ORGANIC				INORG											
VOA	BNA	Pest/PCB	Herb	Metal	C										
Date Rec'd	Date Due	WESTON Analytics Use Only													
Account #															

MATRIX CODES S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TOLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																					
			MS	MSD																									
		36-BE-SEP1-01			S	2/24/15	1015	X	X	X							X								2			ROUTINE	
		36-BE-SEP1-02			S	2/24/15	1015	X	X	X							X									2			ROUTINE
		36-BE-SEP2-01			S	2/24/15	1105	X	X	X							X									2			ROUTINE
		36-BE-SEP2-02			S	2/24/15	1151	X	X	X							X									2			ROUTINE
		36-FDA-SEP1E-01			S	2/24/15	1100A	X	X	X							X									2			ROUTINE
		36-FDA-SEP1-02			S	2/24/15	1100	X	X	X							X									2			ROUTINE
		36-OA-SEP1-01			S	2/24/15	0750	X	X	X							X									2			ROUTINE
		36-OA-SEP1-02			S	2/24/15	0806	X	X	X							X									2			ROUTINE
		36-DAD-SEP1-01			S	2/24/15	0850	X	X	X							X									2			ROUTINE
		36-DAD-SEP2-01			S	2/24/15	0925	X	X	X							X									2			ROUTINE

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS				DATE/REVISIONS:				WESTON Analytics Use Only			
Special Instructions: <b>- SEE LAST COLUMN FOR TURN AROUND TIMES.</b> <b>- AIRBILL # 2124804975</b>				1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____				Samples were: _____ COC Tape was: 1) Shipped ___ or Hand Delivered ___ Airbill # _____ 2) Ambient or Chilled 3) Received in Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N			
Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Discrepancies Between Samples Labels and COC Record? Y or N NOTES:			
7.7.7.		2/24	1500								

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: BAKER ENVIRONMENTAL INC.  
 Est./Final/Proj. Sampling Date: 5/1/95  
 Work Order: \_\_\_\_\_  
 Project Contact/Phone: LINDA BAKER (410) 267-6000  
 AD Project Manager: DENISE WOLTMAN  
 QC: \_\_\_\_\_ Del: \_\_\_\_\_

Date Rec'd \_\_\_\_\_ Date Due \_\_\_\_\_  
 Account # \_\_\_\_\_

Refrigerator #																				
#/Type Container	Liquid																			
Volume	Liquid																			
Preservatives	Solid																			
ANALYSES REQUESTED	ORGANIC								INORG											
	VOA	BNA	Pest/PCB	Herb							Metal	CN								

MATRIX CODES:  
 S - Soil  
 SE - Sediment  
 SO - Solid  
 SL - Sludge  
 W - Water  
 O - Oil  
 A - Air  
 DS - Drum  
 DL - Drum  
 L - Liquids  
 LE - EP/TCLP Leachate  
 WI - Wipe  
 X - Other  
 F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only												Remarks							
		MS	MSD				1	2	3	4	5	6	7	8	9	10	11	12								
	36-DAB-SB02-00			S	2/21/95	0921	X	X	X									X					2		Routine	
	36-DAB-SB02-01			S	2/21/95	0921	X	X	X									X						2		Routine
	36-DAB-SB01-00			S	2/21/95	0950	X	X	X									X						2		Routine
	36-DAB-SB01-00	10	38	S	2/21/95	0950	X	X	X	(TET 2/21/95)							X							2		Routine
	36-DAB-SB02-02				2/24	1046	X	X	X									X						2		Routine
	36-DAB-SB01-00			S	2/24	1134	X	X	X									X						2		Routine
	36-DAB-SB01-01	X	X	S	2/24	1137	X	X	X									X						4		Routine
	36-DAB-SB01-01	X	X	S	2/24	1137	X	X	X									X						2		Routine
	36-STBR-103			WB	2/24	1300	X	X	X									X						5		Routine
	303-TB-03			W	2/24	1400	X	X	X	(TET 2/24/95)								X						2		Routine

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - SEE LAST COLUMN FOR TURN-AROUND TIMES  
 - AIRBILL # 2124804975  
 - 303-TB-03 = Weston Prepared Trip Blank

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only

Samples were:  
 1) Shipped \_\_\_ or Hand Delivered \_\_\_  
 2) Ambient or Chilled  
 3) Received in Good Condition Y or N  
 4) Labels Indicate Properly Preserved Y or N  
 5) Received Within Holding Times Y or N

COE Tape was:  
 1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
777	LS	2/24	1500				

WESTON Analytics Use Only

### Custody Transfer Record/Lab Work Request

<b>Client</b> <i>Salk...</i>	<b>Refrigerator #</b>																
<b>Est. Final Proj. Sampling Date</b> <i>5/21/95</i>	<b>#/Type Container</b> <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid																
<b>Work Order #</b>	<b>Volume</b> <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid																
<b>Project Contact/Phone</b> <i>L. Johnson (412) 387-1030</i>	<b>Preservatives</b>																
<b>AD Project Manager</b> <i>Dianne Walker</i>																	
<b>QC</b> <i>Del.</i>	<b>Del.</b> <i>TAT</i>																
<b>Date Rec'd</b> _____	<b>Date Due</b> _____	<b>ANALYSES REQUESTED</b> →			<b>ORGANIC</b>				<b>INORG</b>		No. Particles	Turn Around					
<b>Account #</b> _____		VOA	BNA	Pes/PCB	Herb			Metal	CN								

MATRIX CODES S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only											
			MS	MSD															
			WESTON Analytics Use Only																
		36-DAB-2B03-06			3	1/21	15:10	X	X	X			X					2	Routine
		36-DAB-2B03-01			3	1/21	15:15	X	X	X			X					2	Routine
		36-OA-2B07-06			3	1/21	14:22											2	Routine
		36-OA-2B07-01			3	1/21	15:07											2	Routine
		36-FDAS-604-06	X	X	3	1/21	15:51											4	Routine
		36-FDA-2B04-06			3	1/24	15:51											2	Routine
		36-FDA-2B04-01			3	1/24	15:51											2	Routine
		36-FDA-2B06-06			3	1/25	07:55											2	Routine
		36-FDA-2B06-01			3	1/25	07:56											2	Routine
		36-STER-01			3	1/25	10:00											5	Hold

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:

- See last column for sample turn ground times

- Airbill # 2124804916

**DATE/REVISIONS:**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were:

- Shipped \_\_\_ or Hand Delivered \_\_\_  
Airbill # \_\_\_\_\_
- Ambient or Chilled
- Received In Good Condition Y or N
- Labels Indicate Properly Preserved Y or N
- Received Within Holding Times Y or N

COC Tape was:

- Present on Outer Package Y or N
- Unbroken on Outer Package Y or N
- Present on Sample Y or N
- Unbroken on Sample Y or N
- COC Record Present Upon Sample Rec't Y or N

<b>Relinquished by</b>	<b>Received by</b>	<b>Date</b>	<b>Time</b>	<b>Relinquished by</b>	<b>Received by</b>	<b>Date</b>	<b>Time</b>
7.7.7.	Fed Ex	2/25/95	1230				

COC# 303004



WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: Brown Environmental  
 Est. Final Proj. Sampling Date: 2/25/95  
 Work Order #  
 Project Contact/Phone: D. Volkmann / 415-253-0000  
 AD Project Manager: D. Volkmann  
 QC: Del JAT

Refrigerator #																				
#/Type Container	Liquid																			
	Solid																			
Volume	Liquid																			
	Solid																			
Preservatives																				
ANALYSES REQUESTED →	ORGANIC					INORG														
	VOA	BNA	Pest/PCB	Herb		Metal	CN													

Date Rec'd \_\_\_\_\_ Date Due \_\_\_\_\_  
Account # \_\_\_\_\_

MATRIX CODES:  
 S - Soil  
 SE - Sediment  
 SO - Solid  
 SL - Sludge  
 W - Water  
 O - Oil  
 A - Air  
 DS - Drum Solids  
 DL - Drum Liquids  
 L - EP/TCLP Leachate  
 WI - Wipe  
 X - Other  
 F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only												No. Bottles	Turn Around			
		MS	MSD				1	2	3	4	5	6	7	8	9	10	11	12					
	36-0A-5102-01				2/25	1026	X	X	X										X			2	Routine
	36-0A-5102-02				2/25	1026	X	X	X										X			2	Routine
	36-0A-5102-03				2/25	1044	X	X	X										X			2	Routine
	36-BB-5103-01				2/25	1145	X	X	X										X			2	Routine
	36-BB-5103-02				2/25	1154	X	X	X										X			2	Routine
	303-TB-01			W	2/25	1206	X															2	Routine

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124804916  
 - 303-TB-04 = Weston Prepared Trip blank

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only

Samples were:  
 1) Shipped \_\_\_ or Hand Delivered \_\_\_  
 Airbill # \_\_\_\_\_  
 2) Ambient or Chilled  
 3) Received in Good Condition Y or N  
 4) Labels Indicate Properly Preserved Y or N  
 5) Received Within Holding Times Y or N

COC Tape was:  
 1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7	FedEx	2/25/95	1230				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

# Custody Transfer Record/Lab Work Request

Client: Baker Environmental	Refrigerator #																			
Est. Final Proj. Sampling Date: 5/1/95	#/Type Container	Liquid																		
Work Order #	Volume	Liquid																		
Project Contact/Phone: L. Johnson 1/310-756-6600	Preservatives	Solid																		
AD Project Manager: [Name]	ANALYSES REQUESTED →																			
QC: Del: TAT	ORGANIC																			
	INORG																			
	VOA																			
	BNA																			
	Pest/PCB																			
	Herb																			
	Metal																			
	CN																			

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected 1995	Time Collected	WESTON Analytics Use Only													
			MS	MSD				VOA	BNA	Pest/PCB	Herb	TOP	Metal	CN	No Bottles	Wagon Around					
	36-FCA-SB04-00		X	X	S	2/25	1330	X	X	X					X					4	Routine
	36-FCA-SB04-02				S	2/25	1342													2	Routine
	36-FCA-SB04-00D				S	2/25	1330													2	Routine
	36-OA-SB03-00				S	2/25	1443													2	Routine
	36-OA-SB03-03				S	2/25	1509													2	Routine
	86-AST-SB01-00				S	2/25	1605													2	Routine
	86-AST-SB01-02				S	2/25	1636													2	Routine
	86-AST-SB02-00				S	2/26	0744					X								3	7-day
	86-AST-SB02-02				S	2/26	0757					X								3	7-day
	86-AST-SB02-05				S	2/26	0825					X								3	7-day

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:  
- See last column for sample turn around times  
- Airbill # 2124804920

**DATE/REVISIONS:**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were:	COC Tape was:
1) Shipped <input type="checkbox"/> or Hand Delivered <input type="checkbox"/>	1) Present on Outer Package Y or N
Airbill # _____	2) Unbroken on Outer Package Y or N
2) Ambient or Chilled	3) Present on Sample Condition Y or N
3) Received in Good Condition Y or N	4) Unbroken on Sample Y or N
4) Labels Indicate Properly Preserved Y or N	5) Received Within Holding Times Y or N
	COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	Fed Ex	1530	2/27/95				

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES:

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: Baker Environmental		Refrigerator #																			
Est. Final/Prod. Sampling Date: 2/27/95		#/Type Container		Liquid																	
Work Order		Volume		Liquid																	
Project Contact/Phone: L Johnson/412-269-6600		Preservatives																			
AD Project Manager: D. Davis/Wilkes-Barre		ANALYSES REQUESTED		ORGANIC												INORG		No. Bottles		Kern AROUND	
QC: Del: TAT		Date Rec'd		Date Due		VOA	BNA	Pest/PCB	Herb	TPH							Metal	CN			
Account #						WESTON Analytics Use Only															

MATRIX CODES S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																			
			MS	MSD				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
		86-AST-5808-041D			S	2/26	1606	X	X	X									X							2	Routine
		86-AST-5809-00			S	2/26	1646	X	X	X			X						X							3	7-day
		86-AST-5809-04			S	2/26	1709	X	X	X			X						X							3	7-day
		86-BB-5801-00			S	2/27	0739	X	X	X									X							2	Routine
		86-BB-5801-03			S	2/27	0748	X	X	X									X							2	Routine
		86-FDA-5802-00			S	2/27	0851	X	X	X									X							2	Routine
		86-FDA-5802-04			S	2/27	0920	X	X	X									X							2	Routine
		86-FDA-5805-00			S	2/27	1021	X	X	X									X							2	7-day
		86-FDA-5805-011			S	2/27	1026	X	X	X									X							2	7-day
		86-0A-5808-00			S	2/27	1119	X	X	X									X							2	7-day

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124804920

**DATE/REVISIONS:**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were:  
 1) Shipped \_\_\_ or Hand Delivered \_\_\_  
 2) Ambient or Chilled  
 3) Received in Good Condition Y or N  
 4) Labels Indicate Properly Preserved Y or N  
 5) Received Within Holding Times Y or N

Alrbill # \_\_\_\_\_

COC Tape was:  
 1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
77.7.	Fed Ex	2/27/95	1530				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

# Custody Transfer Record/Lab Work Request

Client: <b>3746</b>	Refrigerator #	
Est. And/Proj. Sample Date	#/Type Container	Liquid
Work Order #		Solid
Project Contact/Phone	Volume	Liquid
AD/Project Manager		Solid
QC	Preservatives	
Date Rec'd	Date Due	
Account #	ANALYSES REQUESTED	
		ORGANIC
		INORG
		Metal
		CN
		No. Bottles
		Such As

MATRIX CODES S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/CLP/Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																
							MS	MSD	VOA	BNA	Pest/PCB	Herb											
		36-0A-SB01-01		S	2/27/95	1123	X	X	X												2	7 day	
		86-51ER-0502		W	2/27/95	1200	X	X	X													5	Hold
		303-TB-06		W	2/27/95	1300	X															2	Routine

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124804920  
 \* 303-TB-06 = Weston Prepared Trip blank

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only	
Samples were:	COC Tape was:
1) Shipped ___ or Hand Delivered ___ Airbill # _____	1) Present on Outer Package Y or N
2) Ambient or Chilled	2) Unbroken on Outer Package Y or N
3) Received in Good Condition Y or N	3) Present on Sample Y or N
4) Labels Indicate Properly Preserved Y or N	4) Unbroken on Sample Y or N
5) Received Within Holding Times Y or N	COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	FedEx	2/27/95	1530				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: Baker Environmental  
 Est. Final Proj. Sampling Date: 2-1-95  
 Work Order #:  
 Project (Client/Phone): L. Anderson / 415-232-3000  
 AD Project Manager: David ...  
 QC: Dal / TAI

Refrigerator # \_\_\_\_\_  
 #/Type Container: Solid  
 Volume: Solid  
 Preservatives \_\_\_\_\_

Date Rec'd \_\_\_\_\_ Date Due \_\_\_\_\_  
 Account # \_\_\_\_\_

- MATRIX CODES:  
 S - Soil  
 SE - Sediment  
 SO - Solid  
 SL - Sludge  
 W - Water  
 O - Oil  
 A - Air  
 DS - Drum Solids  
 DL - Drum Liquids  
 L - EP/CLP Leachate  
 WI - Wipe  
 X - Other  
 F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only													No bottles	Turn Accepted						
		MS	MSD				VOA	BNA	Pest/PCB	Herb	Metal	INORG															
36-FCA-SB02-00				S	2/27	1328	X	X	X									X								2	7 day
36-FCA-SB02-01				S	2/27	1334	X	X	X									X								2	7 day
36-FCA-SB02-01D				S	2/27	1339	X	X	X									X								2	Routine
36-FCA-SB02-01D				S	2/27	1414	X	X	X									X								2	7 day
36-FCA-SB02-02				S	2/27	1428	X	X	X									X								2	7 day
36-FCA-SB13-00		X	X	S	2/27	1511	X	X	X									X								4	Routine
36-FCA-SB13-01D				S	2/27	1511	X	X	X									X								2	Routine
36-FCA-SB13-01				S	2/27	1513	X	X	X									X								2	Routine
36-FCA-SB01-01				S	2/27	1607	X	X	X									X								2	7 day
36-FCA-SB01-01				S	2/27	1628	X	X	X									X								2	7 day

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
- See last column for sample turn around times  
- Airbill # 2124804931

DATE/REVISIONS:

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_

WESTON Analytics Use Only

Samples were:  
 1) Shipped \_\_\_ or Hand Delivered \_\_\_  
 Airbill # \_\_\_\_\_  
 2) Ambient or Chilled  
 3) Received in Good Condition Y or N  
 4) Labels Indicate Properly Preserved Y or N  
 5) Received Within Holding Times Y or N

COC Tape was:  
 1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<u>J.J.</u>	<u>FedEx</u>	<u>2/28/95</u>	<u>15 30</u>				



# Custody Transfer Record/Lab Work Request

Client: <u>Bayer Environmental</u>	Refrigerator #																		
Est./Final Proj. Sampling Date: <u>5/11/95</u>	#/Type Container	<u>Liquid</u>																	
Work Order #	Volume	<u>Liquid</u>																	
Project Control/Phone: <u>Johnson/419-247-0000</u>	Preservatives	<u>Solid</u>																	
AD/Project Manager: <u>Deane Walkman</u>	ANALYSES REQUESTED	ORGANIC				INORG													
QC: <u>Del</u> <u>JAT</u>	VOA	BNA	Pest/PCB	Herb						Metal	CN								
Date Rec'd _____ Date Due _____	WESTON Analytics Use Only																		
Account #																			

MATRIX CODES S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum DL - Drum L - Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only											Turn Around
			MS	MSD				VOA	BNA	Pest/PCB	Herb	Metal	CN	No. Bottles	Turn Around				
		36-0A-SB06-00			S	2/27	1650	X	X	X			X				2	7-day	
		36-0A-SB06-02			S	2/27	1704	X	X	X			X				2	7-day	
		36-0A-SB05-00			S	2/28	0805	X	X	X			X				2	7-day	
		36-0A-SB05-02			S	2/28	0917	X	X	X			X				2	7-day	
		43-MA-SB02-00			S	2/28	0938		X				X				1	Routine	
		43-MA-SB02-02AD			S	2/28	0952		X				X				1	Routine	
		43-MA-SB02-02	X	X	S	2/28	0952		X				X				2	Routine	
		43-MA-SB05-00			S	2/28	1024		X				X				1	Routine	
		43-MA-SB05-02			S	2/28	1036		X				X				1	Routine	
		43-MA-SB05-00			S	2/28	1108		X				X				1	Routine	

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124804931

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only

Samples were: \_\_\_\_\_ COC Tape was: \_\_\_\_\_

1) Shipped    or Hand Delivered    Airbill # \_\_\_\_\_  
 2) Ambient or Chilled  
 3) Received in Good Condition Y or N  
 4) Labels Indicate Properly Preserved Y or N  
 5) Received Within Holding Times Y or N

1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
77.7	Fed Ex	2/28/95	1530				

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES:

WESTON Analytics Use Only.

# Custody Transfer Record/Lab Work Request

Client: Boyer Environmental  
 Est. Final Proj. Sampling Date: 3/16/15  
 Work Order #:                       
 Project Contact/Phone: Laura Johnson 414 268 6400  
 AD Project Manager: Debrae Wohlman  
 QC:                      Del:                      TAT:                     

Refrigerator #																		
#/Type Container	Solid																	
Volume	Liquid																	
	Solid																	
Preservatives																		
ANALYSES REQUESTED →	ORGANIC				INORG													
	VOA	BNA	Pest/PCB	Herb		Metal	CN											

Date Rec'd \_\_\_\_\_ Date Due \_\_\_\_\_  
 Account # \_\_\_\_\_

MATRIX CODES S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipes X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only												
			MS	MSD				1	2	3	4	5	6	7	8	9	10			
								11	12	13	14	15	16	17	18	19	20			
	H3-0A-SB06-00			S	3/16	1355			X						X				1	7-day
	H3-0A-SB06-02			S	3/16	1404			X						X				1	7-day
	36-G-11071DW			S	3/16	1400								X	X				1	Routine
	H3-0A-SB07-00			S	3/16	1455			X						X				1	Routine
	H3-0A-SB03-00			S	3/16	1512	X	X	X						X				2	7-day
	H3-0A-SB05-02			S	3/16	1518	X	X	X						X				2	7-day
	H3-0A-SB05-02D			S	3/16	1518	X	X	X						X				2	7-day
	54-BB-SB01-00			S	3/17	0957	X	X	X						X				2	Routine
	54-BB-SB01-04			S	3/17	1025	X	X	X						X				2	Routine
	54-BB-SB02-00			S	3/17	1104	X	X	X						X				2	Routine

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124804872

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only

Samples were: \_\_\_\_\_  
 Hand Delivered \_\_\_\_\_  
 Airbill # \_\_\_\_\_

1) Shipped \_\_\_ or  
 2) Ambient or Chilled  
 3) Received in Good Condition Y or N  
 4) Labels Indicate Properly Preserved Y or N  
 5) Received Within Holding Times Y or N

COC Tape was:  
 1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.	FedEx	3/17/15	1530				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

COC # 303010



# Custody Transfer Record/Lab Work Request

**WES Analyticals Use Only**

Client: <b>Salvo Environmental</b>	Refrigerator #																	
Est. Final/Pro Sampling Date: <b>5/1/95</b>	#/Type Container	VOA	BNA	Pest/PCB	Herb													
Work Order #	Volume	ORGANIC										INORG		#	Ballies	Turn Around		
Project Contact/Phone: <b>L Johnson 415 269 6000</b>	Preservatives																	
AD/Project Manager: <b>Denise Williams</b>	ANALYSES REQUESTED $\rightarrow$																	
QC: Del: STAT																		
Date Rec'd _____ Date Due _____		WESTON Analyticals Use Only																
Account # _____																		

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum DL - Drum L - Liquids LEP/TCLEP - Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analyticals Use Only												#	Ballies	Turn Around							
			MS	MSD																									
		54-BB-SP02-04			S	3/7	1226	X	X	X							X											2	Routine
		303-TB-09			W	3/7	1300	X																				2	Routine
		54-STIR-01			W	3/7	1300	X	X	X							X											5	Routine
		26-GW01-00			S	3/7	1215	X	X	X							X											2	ROUTINE
		36-GW01-01			S	3/7	1429	X	X	X							X											2	ROUTINE

<b>FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS</b>						<b>DATE/REVISIONS:</b>						<b>WESTON Analyticals Use Only</b>					
Special Instructions: - See last column for sample turn around times * 303-TB-09 = Weston prepared trip blank - Airbill # 2124804872						1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____						Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____ 2) Ambient or Chilled 3) Received In Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N COC Record Present Upon Sample Rec't Y or N					
Relinquished by		Received by		Date	Time	Relinquished by		Received by		Date	Time	Discrepancies Between Samples Labels and COC Record? Y or N					
7.7.7.		FedEx		3/7/95	1530							NOTES: Y or N					



WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: <u>Baker Environmental</u>	Refrigerator #																			
Est./Final Proj. Sampling Date: <u>5-1-95</u>	#/Type Container	<u>Liquid</u>																		
Work Order #	Volume	<u>Liquid</u>																		
Project Contact/Phone: <u>Donna Williams</u>	Preservatives																			
AD Project Manager: <u>Donna Williams</u>	ANALYSES REQUESTED →	ORGANIC				INORG														
QC: <u>Del</u> Del: <u>PAI</u>		VOA	BNA	Pest/PCB	Herb	Metal	CN													
Date Rec'd	Date Due	WESTON Analytics Use Only																		
Account #																				

MATRIX CODES S: Soil SE: Sediment SO: Solid SL: Sludge W: Water O: Oil A: Air DS: Drum Solids DL: Drum Liquids L: EPAC/Leachate WJ: Wipe X: Other F: Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																		
			MS	MSD				VOA	BNA	Pest/PCB	Herb	Metal	CN													
		36-OF-SB06A-00			S	3/19/95	0903	X	X	X											2	Routine				
		36-OF-SB06A-01			S	3/19/95	0907	X	X	X												2				
		36-GW10-00			S	3/19/95	0920	X	X	X												2				
		36-GW10-01			S	3/19/95	0936	X	X	X												2				
		36-OF-SB06B-00			S	3/19/95	0956	X	X	X												2				
		36-OF-SB06B-01			S	3/19/95	1008	X	X	X												2				
		36-OF-SB06B-00			S	3/19/95	1041	X	X	X												2				
		36-OF-SB06C-01			S	3/19/95	1054	X	X	X												2				
		36-OF-SB06D-00			S	3/19/95	1137	X	X	X												2				
		36-OF-SB06D-01			S	3/19/95	1206	X	X	X												2				

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124804894  
 \* Weston Prepared Trip Blank =  
 303-TB-11 Matrix: Water  
 (VOA Analysis) Date: 3/19/95  
 Time: 1300

DATE/REVISIONS:  
 1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were:  
 1) Shipped \_\_\_ or Hand Delivered \_\_\_  
 Airbill # \_\_\_\_\_  
 2) Ambient or Chilled  
 3) Received in Good Condition Y or N  
 4) Labels Indicate Properly Preserved Y or N  
 5) Received Within Holding Times Y or N

COC Tape was:  
 1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	FedEx	3/19/95	1700				

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: Baker Environmental  
 Est. Final Proj. Sampling Date: 5-1-95  
 Work Order: \_\_\_\_\_  
 Project/Contact/Phone: [unclear]  
 AD/Project Manager: [unclear]  
 QC: [unclear]

Refrigerator #													
#/Type Container	Liquid												
Volume	Liquid												
Preservatives	Solid												
ANALYSES REQUESTED →	ORGANIC							INORG					
	VOA	BNA	Pest/PCB	Herb				Metal	CN				

Date Rec'd \_\_\_\_\_ Date Due \_\_\_\_\_  
 Account # \_\_\_\_\_

MATRIX CODES	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only															
			MS	MSD				1	2	3	4	5	6	7	8	9	10	11	12				
S - Soil		36-GW11-00			S	3/9	345	X	X	X													
SE - Sediment		36-GW11-00D			S	3/9	345	X	X	X													
SO - Solid		36-GW11-04			S	3/9	1408	X	X	X													
SL - Sludge		36-GW11-06			S	3/9	1436	X	X	X													
W - Water		86-GW15TW-02			S	3/9	1432	X	X	X													
O - Oil		36-0A-SB01A-00			S	3/9	1520	X	X	X													
A - Air		36-0A-SB01A-01			S	3/9	1530	X	X	X													
DS - Drum Solids		36-0A-SB01B-00			S	3/9	1607	X	X	X													
DL - Drum Liquids		36-0A-SB01B-00D			S	3/9	1607	X	X	X													
L - EP/CLP Leachate		36-0A-SB01B-01			S	3/9	1611	X	X	X													
WI - Wipe																							
X - Other																							
F - Fish																							

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

DATE/REVISIONS:

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124804905

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only

Samples were:	COC Tape was:
1) Shipped ___ or Hand Delivered ___	1) Present on Outer Package Y or N
Airbill # _____	2) Unbroken on Outer Package Y or N
2) Ambient or Chilled	3) Present on Sample Y or N
3) Received in Good Condition Y or N	4) Unbroken on Sample Y or N
4) Labels Indicate Properly Preserved Y or N	COC Record Present Upon Sample Rec't Y or N
5) Received Within Holding Times Y or N	

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
777	FedEx	3/10/95	1530				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

COC# 303013

WESTON Analytics Use Only

## Custody Transfer Record/Lab Work Request

Client: <i>Boilermaker Environmental</i>	Refrigerator #																	
Est. Final/Prod. Sampling Date: <i>3/10/95</i>	#/Type Container: <i>Liquid</i>																	
Work Order #	Solid																	
Project Contact/Phone: <i>L. Johnson 312-260-5000</i>	Liquid																	
AD Project Manager: <i>Debrae Johnson</i>	Solid																	
QC: <i>Del</i> / <i>TAT</i>	Volume																	
	Preservatives																	
Date Rec'd _____ Date Due _____	ANALYSES REQUESTED →	ORGANIC				PCB	INORG		#Batches	Turn Around								
Account # _____		VOA	BNA	Pest/PCB	Herb		Metal	CN										

MATRIX CODES	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only											Turn Around				
			MS	MSD																			
						1995																	
S - Soil		36-0A-SB01C-00			S	3/9	1633	X	X	X												2	Routine
SE - Sediment		36-0A-SB01C-OIL			S	3/9	1631	X	X	X												2	
SO - Solid		36-0A-SB01D-00			S	3/9	1603	X	X	X												2	
SL - Sludge		36-0A-SB01D-01			S	3/9	1605	X	X	X												2	
W - Water		36-5TBR-05			W	3/9	1800	X	X	X												5	Hold
o - Oil		303-TB-12			W	3/9	2000	X														2	Routine
A - Air		54-DD-SB01-00	X	X	S	3/10	0759	X	X													4	Routine
DS - Drum		54-DD-SB01-00D			S	3/10	0759	X	X													2	Routine
DL - Drum		54-DD-SB01-02			S	3/10	0804	X	X													2	Routine
LI - Liquids																							
LE - Leachate																							
WI - Wiper																							
X - Other																							
F - Fish																							

<b>FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS</b>	<b>DATE/REVISIONS:</b>
Special Instructions:	1. _____
<i>- See last column for sample turn around times.</i>	2. _____
<i>- Airbill # 2124804905</i>	3. _____
<i>* 303-TB-12 = Weston Prepared Trip Blank</i>	4. _____
	5. _____
	6. _____

WESTON Analytics Use Only	
Samples were:	COC Tape was:
1) Shipped ___ or Hand Delivered ___	1) Present on Outer Package Y or N
Airbill # _____	2) Unbroken on Outer Package Y or N
2) Ambient or Chilled	3) Present on Sample Y or N
3) Received in Good Condition Y or N	4) Unbroken on Sample Y or N
4) Labels Indicate Properly Preserved Y or N	COC Record Present Upon Sample Rec't Y or N
5) Received Within Holding Times Y or N	

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<i>7.7.7.</i>	<i>FedEx</i>	<i>3/10/95</i>	<i>1530</i>				

Discrepancies Between Samples Labels and COC Record? Y or N  
NOTES:

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: <u>River Environmental</u>		Refrigerator #																	
Est./Final Proj. Sampling Date: <u>3/15/95</u>		#/Type Container																	
Work Order #		Volume																	
Project Contact/Phone: <u>L. Johnson / 415-261-6000</u>		Preservatives																	
AD Project Manager: <u>J. Baker / 415-261-6000</u>		ANALYSES REQUESTED		ORGANIC				INORG											
QC: <u>Del</u> <u>YAT</u>		Date Rec'd _____ Date Due _____		VOA	BNA	Pest/PCB	Herb	TPH	ISS	IDS	Metal	CN	Pest/PCB		# Bottles		Turn Around		
Account # _____				WESTON Analytics Use Only															

MATRIX CODES S: Soil SE: Sediment SO: Solid SL: Sludge W: Water O: Oil A: Air DS: Drum Solids DL: Drum Liquids L: ER/CLP Leachate WI: Wipe X: Other F: Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																			
			MS	MSD				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
		36-TW02-01			W	3/15	2030	X	X	X							X	X								8	Routine
		36-TW02D-01			W	3/14	2030															X				1	Routine
		36-AST-SB12-00		S	W	3/15	0754	X	X				X													3	Routine
		36-AST-SB12-03		S	W	3/15	0809	X	X				X													3	Routine
		36-AST-SB11-00		S	W	3/15	0839	X	X				X													3	Routine
		36-AST-SB11-03		S	W	3/15	0858	X	X				X													3	Routine
		36-AST-SB10-00		S	W	3/15	0931	X	X				X													3	Routine
		36-AST-SB10-04		S	W	3/15	0954	X	X				X													3	Routine
		36-TW01-01			W	3/15	1100	X	X	X																5	Routine
		36-AST-SB12-03			W	3/15	1130	X																		2	Hold

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS				DATE/REVISIONS:				WESTON Analytics Use Only							
Special Instructions: - See last column for sample turn around - Airbill # 2124804850				1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____				Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____ 2) Ambient or Chilled 3) Received in Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N COC Record Present Upon Sample Rec't Y or N							
Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Discrepancies Between Samples Labels and COC Record? Y or N				NOTES:			
	7/7	3/15	1530		Fed Ex										







WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: <u>Baker Environmental</u>		Refrigerator #																	
Est. Final Proj. Sampling Date: <u>5/1/95</u>		#/Type Container		Liquid															
Work Order #		Volume		Liquid															
Project Contact/Phone: <u>L. Johnson 912-269-6000</u>		Preservatives		Solid															
AD Project Manager: <u>Dennis Wolfram</u>		ANALYSES REQUESTED →		ORGANIC					INORG										
QC	Del: <u>TAI</u>			VOA	BNA	Pest/PCB	Herb					Metal	CN	ISS	EDS	Disrup	Metals	# Bottles	Turn Around
Date Rec'd _____ Date Due _____		WESTON Analytics Use Only																	
Account # _____																			

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only											
			MS	MSD															
		36-GW07DW-01			W	2/26	1020		X	X			X	X				5	Routine
		36-GW19DW-01			W	3/26	1115		X				X	X				4	Routine
		36-GW07-01			W	3/26	1250		X	X			X	X				5	Routine

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS				DATE/REVISIONS:				WESTON Analytics Use Only			
Special Instructions: - see last column for sample turn around time - Airbill # 2124805104				1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____				Samples were:      COC Tape was: 1) Shipped ___ or      1) Present on Outer Hand Delivered ___      Package Y or N Airbill # _____      2) Unbroken on Outer 2) Ambient or Chilled      Package Y or N 3) Received in Good      3) Present on Sample Condition Y or N           Y or N 4) Labels Indicate      4) Unbroken on Properly Preserved      Sample Y or N Y or N      COC Record Present 5) Received Within      Upon Sample Rec't Holding Times      Y or N Y or N			
Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Discrepancies Between Samples Labels and COC Record? Y or N			
7.7.7	Fed Ex	3/27/95	1530					NOTES:			

COC # 303035



WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Page 1 of 1

Client: <u>Baker Environmental</u>	Refrigerator #																		
Est. Final Proj. Sampling Date: <u>5/1/95</u>	#/Type Container	Liquid																	
Work Order #	Volume	Liquid																	
Project Contact/Phone: <u>L Johnson (414) 269-6000</u>	Preservatives	Solid																	
AD Project Manager: <u>Dana Wolterman</u>	ANALYSES REQUESTED →	ORGANIC					INORG		ISS	HDS	Dissolved Metals	# Bottles	Turn Around						
QC Del: _____ TAT: _____		VOA	BNA	Pest/PCB	Herb	Metal	CN												
Date Rec'd _____ Date Due _____	WESTON Analytics Use Only																		
Account # _____																			

- MATRIX CODES:**
- S - Soil
  - SE - Sediment
  - SO - Solid
  - SL - Sludge
  - W - Water
  - O - Oil
  - A - Air
  - DS - Drum Solids
  - DL - Drum Liquids
  - L - EP/CLP Leachate
  - WI - Wipe
  - X - Other
  - F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓)	Matrix	Date Collected	Time Collected	VOA	BNA	Pest/PCB	Herb	Metal	CN	ISS	HDS	Dissolved Metals	# Bottles	Turn Around
	36-GW03-01		W	3/26	1430		X	X		X					5	Routine
	36-GW05-01		W	3/26	1620		X	X		X					5	Routine
	<del>36-GW06-01</del>		<del>W</del>	<del>3/26</del>	<del>1700</del>											
	36-GW06-DW-01		W	3/26	1700		X	X		X					5	Routine

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124805104

DATE/REVISIONS:  
 7.7.7. 1. ~~Sample should read 36-GW06-DW-01~~  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____	COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N 5) Received Within Holding Times Y or N
--	--

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	FedEx	3/27/95	1530				

# Custody Transfer Record/Lab Work Request

WESTON Analytics Use Only

Client: <u>Baker Environmental</u>	Refrigerator #																			
Est. Final Proj. Sampling Date: <u>5-1-95</u>	#/Type Container	Liquid																		
Work Order #	Solid																			
Project Contact/Phone: <u>L. Johnson / 912-261-6000</u>	Volume	Liquid																		
AD Project Manager: <u>Denise Williams</u>	Solid																			
QC: <u>Del</u> <u>TAT</u>	Preservatives																			
Date Rec'd _____ Date Due _____	ANALYSES REQUESTED →	ORGANIC					INORG													
Account # _____		VOA	BNA	Pest/PCB	Herb		Metal	CN												

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only												
			MS	MSD																
		<u>36-GW04-01</u>			<u>W</u>	<u>3/26/95</u>	<u>1810</u>													
		<u>36-GW06-01</u>	X	X	<u>W</u>	<u>3/27/95</u>	<u>0345</u>													

Routine  
Routine

<b>FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS</b>	<b>DATE/REVISIONS:</b>	<b>WESTON Analytics Use Only</b>
Special Instructions: <u>- See last column for sample turn around times</u> <u>- Airbill # 2124805104</u>	1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____	

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Discrepancies Between Samples Labels and COC Record? Y or N NOTES:
<u>7.7.</u>	<u>FedEx</u>	<u>3/27/95</u>	<u>1530</u>					

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: <u>Baker Environmental</u>	Refrigerator #																					
Est./Final Proj. Sampling Date: <u>5/2/95</u>	#/Type Container: <u>Liquid</u>																					
Work Order #	Volume: <u>Liquid</u>																					
Project Contact/Phone: <u>Johnson/412-269-4562</u>	Preservatives																					
AD Project Manager: <u>Barbara Williams</u>																						
QC: <u>Dal</u>																						

Date Rec'd \_\_\_\_\_ Date Due \_\_\_\_\_  
 Account # \_\_\_\_\_

MATRIX CODES S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/ICLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only												Turn Around		
			MS	MSD				VOA	BNA	Pest/PCB	Herb	Metal	CN	BSS	TDS	Dissolved Metals	Batteries					
	303-TB-26				W	3/27	0800	X													2	Routine
	36-GW06-01		X	X	W	3/27	0845	X													6	*
	36-GW06-01D				W	3/27	0845	X	X	X			X	X							8	Routine
	36-GW11DW-01				W	3/27	1030	X	X	X			X	X							8	M
	36-GW12R-02				W	3/27	1110	X	X	X			X								5	Hold
	36-GW09-01				W	3/27	1145	X	X	X			X	X							8	Routine

<p>FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS</p> <p>Special Instructions:</p> <p>- See last column for sample turn around</p> <p>- Airbill # 2124805104</p> <p>* = 7-day Turn around on sample only not MS/MSD results</p> <p>303-TB-26 = Weston Prepared Trip</p> <p>Blank</p> <p>M = 7-day Turn on VOA only, All else Routine</p>	<p>DATE/REVISIONS:</p> <ol style="list-style-type: none"> <li>_____</li> <li>_____</li> <li>_____</li> <li>_____</li> <li>_____</li> <li>_____</li> </ol>	<p>WESTON Analytics Use Only</p> <p>Samples were:</p> <p>1) Shipped ___ or Hand Delivered ___</p> <p>Airbill # _____</p> <p>2) Ambient or Chilled</p> <p>3) Received in Good Condition Y or N</p> <p>4) Labels Indicate Properly Preserved Y or N</p> <p>5) Received Within Holding Times Y or N</p> <p>COC Tape was:</p> <p>1) Present on Outer Package Y or N</p> <p>2) Unbroken on Outer Package Y or N</p> <p>3) Present on Sample Y or N</p> <p>4) Unbroken on Sample Y or N</p> <p>COC Record Present Upon Sample Rec't Y or N</p>
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Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	FedEx	3/27	1530				



# Custody Transfer Record/Lab Work Request

Client: <u>Baker Environmental</u>	Refrigerator #	
Est./Final/Proj Sampling Date: <u>5/2/95</u>	#/Type Container	<u>114/16L</u>
Work Order #	Volume	<u>Solid</u>
Project Contact/Phone: <u>L. Johnson / 412 2672600</u>	Preservatives	
AD/Project Manager: <u>Denise Wolfman</u>	ANALYSES REQUESTED →	<b>ORGANIC</b>
QC: <u>Del TAT</u>		<b>INORG</b>
Date Rec'd _____ Date Due _____	VOA	BNA
Account # _____	Pest/PCB	Herb
	Metal	CN
	TSS	TPDS
	Dissolved	Metals
	# Baffles	Turn Around

MATRIX CODES	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																	
			MS	MSD				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
S- Soil		<u>36-GW02-01</u>			<u>W</u>	<u>3/27</u>	<u>1610</u>			X	X						X	X						<u>5</u>	<u>Routine</u>
SE- Sediment		<u>36-GW02-01B</u>			<u>W</u>	<u>3/27</u>	<u>1610</u>			X	X						X	X						<u>5</u>	<u>Routine</u>
SO- Solid		<u>36-GW08-01</u>			<u>W</u>	<u>3/27</u>	<u>1630</u>			X	X						X	X						<u>5</u>	<u>Routine</u>
SL- Sludge		<u>36-GW08B-01</u>			<u>W</u>	<u>3/27</u>	<u>1630</u>											X						<u>7</u>	<u>Routine</u>
W- Water																									
O- Oil																									
A- Air																									
DS- Drum																									
DL- Drum																									
L- Liquids																									
EP/OLP																									
Leachate																									
WI- Wipe																									
X- Other																									
F- Fish																									

<b>FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS</b> Special Instructions: - See last column for sample turn around time - Airbill # 2124805082	<b>DATE/REVISIONS:</b> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____	<b>WESTON Analytics Use Only</b>  Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____ 2) Ambient or Chilled 3) Received in Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N  COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N COC Record Present Upon Sample Rec't Y or N
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Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
<u>7-7-7</u>	<u>Fed Ex</u>	<u>3/28/95</u>	<u>1530</u>				



WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: Balboa Environmental  
 Est. Final Proj. Sampling Date: 3-1-95  
 Work Order # \_\_\_\_\_  
 Project Contact/Phone: Johnson/417-269-1600  
 AD Project Manager: Dickerson/417-269-1600  
 QC: Del TAT

Refrigerator # \_\_\_\_\_  
 #/Type Container: Liquid  
 Volume: Liquid  
 Preservatives \_\_\_\_\_

Date Rec'd \_\_\_\_\_ Date Due \_\_\_\_\_  
 Account # \_\_\_\_\_

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only													
			MS	MSD				ORGANIC					INORG			Dissolved Metals	Bottle	Turn Around			
								VOA	BNA	Pest/PCB	Herb	Metal	CN								
		36-GW01-01			W	3/28	0840		X	X				X	X					5	Routine
		36-GW02-01			W	3/28	0840								X					1	Routine
		54-GW05-01			W	3/28	0840		X	(X)	PCB			X	X					5	Routine
		54-GW07-01			W	3/28	1055		X	(X)	Call			X	X					5	Routine

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - See last column for sample turn around times  
 - Airbill # 2124805082

DATE/REVISIONS:

7.7.7. 1. Sample reads 36-GW01D-01  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_

WESTON Analytics Use Only

Samples were: \_\_\_\_\_  
 1) Shipped \_\_\_\_\_ or  
 Hand Delivered \_\_\_\_\_  
 Airbill # \_\_\_\_\_

2) Ambient or Chilled \_\_\_\_\_  
 3) Received In Good Condition Y or N \_\_\_\_\_  
 4) Labels Indicate Properly Preserved Y or N \_\_\_\_\_  
 5) Received Within Holding Times Y or N \_\_\_\_\_

COC Tape was:  
 1) Present on Outer Package Y or N \_\_\_\_\_  
 2) Unbroken on Outer Package Y or N \_\_\_\_\_  
 3) Present on Sample Y or N \_\_\_\_\_  
 4) Unbroken on Sample Y or N \_\_\_\_\_  
 COC Record Present Upon Sample Rec't Y or N \_\_\_\_\_

Discrepancies Between Samples Labels and COC Record? Y or N \_\_\_\_\_  
 NOTES: \_\_\_\_\_

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	FedEx	3/28/95	1530				

COC # 303059



WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

<b>Client</b> <u>Balkco Environmental</u>	<b>Refrigerator #</b> _____
<b>Est. Final Prot. Sampling Date</b> <u>5/1/95</u>	<b>#/Type Container</b> Liquid _____ Solid _____
<b>Work Order #</b> _____	<b>Volume</b> Liquid _____ Solid _____
<b>Project Contact/Phone</b> <u>L. Johnson / 412-269-2049</u>	<b>Preservatives</b> _____
<b>AD Project Manager</b> <u>Denise Wollman</u>	
<b>QC Del.</b> _____ <b>TAT</b> _____	

**ANALYSES REQUESTED** →

ORGANIC						INORG		# Bottles	Turn Around
VOA	BNA	Pest/PCB	Herb	RCRA	TCLP	Metal	CN		

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS MSD	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																						
		303-TB-38		W	4/19			X																2	Routine				
		36-TIP03		S	4/19	1106		X	X	X							X									2	Routine		
		36-TIP02		S	4/19	1000						X	X														1	Routine	
		36-TIP07		S	4/20	0819						X	X															X	Routine

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:  
 TCLP = Full TCLP (Pest/PCB, VOA, SVOA Metals)  
 RCRA = Flashpoint, Reactive Cyanide, Reactive Sulfide  
 303-TB-38 = Weston Prepared Trip Blank  
 - See last column for sample turn around  
 - Airbill # 2124805200

- DATE/REVISIONS:**
- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

**WESTON Analytics Use Only**

<b>Samples were:</b>	<b>COC Tape was:</b>
1) Shipped <u>   </u> or Hand Delivered <u>   </u>	1) Present on Outer Package Y or N
Airbill # <u>          </u>	2) Unbroken on Outer Package Y or N
2) Ambient or Chilled	3) Present on Sample Y or N
3) Received in Good Condition Y or N	4) Unbroken on Sample Y or N
4) Labels Indicate Properly Preserved Y or N	COC Record Present Upon Sample Rec't Y or N
5) Received Within Holding Times Y or N	

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	FedEx	4/20/95	1530				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES: \_\_\_\_\_

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: Baker Environmental	Refrigerator #	
Est. Final Proj. Sampling Date: 5/1/95	#/Type Container: Liquid	
Work Order:	Solid	
Project Contact/Phone: L. Johnson / 412-269-6000	Volume: Liquid	
AD Project Manager: Denise Waldman	Solid	
QC Del: TAT	Preservatives	
Date Rec'd	Date Due	
Account #	ANALYSES REQUESTED	

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipes X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only											Turn Around			
			MS	MSD				ORGANIC					INORG									
								VOA	BNA	Pest/PCB	Herb	Metal	CN									
	36-GW12-00				S	4/23	1403	X														Routine day
	36-GW12-03				S	4/23	1422	X														Routine day
	36-GW13-00				S	4/24	1311	X														Routine day
	36-GW13-02				S	4/24	1320	X														7-day
	36-GW13-03				S	4/24	1326	X														7-day
	36-GW14-00				S	4/24	1608	X														Routine day
	36-GW14-02				S	4/24	1627	X														7-day
	303-TB-40				W	4/24	1700	X														Routine

Routine day  
Routine day  
7-day  
7-day  
Routine day  
7-day  
Routine

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:  
 - See last column for sample turn around  
 - Airbill # 2124805222

DATE/REVISIONS:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

WESTON Analytics Use Only

Samples were:  
 1) Shipped \_\_\_ or Hand Delivered \_\_\_  
 Airbill # \_\_\_\_\_  
 2) Ambient or Chilled  
 3) Received in Good Condition Y or N  
 4) Labels Indicate Properly Preserved Y or N  
 5) Received Within Holding Times Y or N

COC Tape was:  
 1) Present on Outer Package Y or N  
 2) Unbroken on Outer Package Y or N  
 3) Present on Sample Y or N  
 4) Unbroken on Sample Y or N  
 COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	Fed Ex	4/24/95	1800				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:



COC # 303074<sup>2</sup> TFT  
5-6-95

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: Baker Environmental	Refrigerator #															
Est. Final Proj. Sampling Date: 5-15-95	#/Type Container	Liquid: <input type="checkbox"/> Solid: <input type="checkbox"/>														
Work Order #	Volume	Liquid: <input type="checkbox"/> Solid: <input type="checkbox"/>														
Project Contact/Phone: L. Johnson 412-269-6000	Preservatives															
AD Project Manager: Denise Waldman	ANALYSES REQUESTED	<table border="1"> <tr> <td colspan="5">ORGANIC</td> <td colspan="2">INORG</td> </tr> <tr> <td>VOA</td> <td>BNA</td> <td>Pes/PCB</td> <td>Herb</td> <td>Metal</td> <td>CN</td> <td></td> </tr> </table>	ORGANIC					INORG		VOA	BNA	Pes/PCB	Herb	Metal	CN	
ORGANIC					INORG											
VOA	BNA	Pes/PCB	Herb	Metal	CN											
QC: Del. TAT	Date Rec'd	Date Due														
Account #	WESTON Analytics Use Only					# Bottles	Turn Around									

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/CLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only										# Bottles	Turn Around			
			MS	MSD				1	2	3	4	5	6	7	8	9	10					
		36-GS-SB05-00			S	5/6/95	1020	X	X											2	7 day	① Routine
		36-GS-SB05-01			S	5/6/95	1035	X	X											2	7 day	
		36-GS-SB05-01D			S	5/6	1035	X	X											2	7 day	
		36-GS-SB05-03	X	X	S	5/6	1125	X	X											2	7 day	②
		36-GS-SB05-03D			S	5/6	1125	X	X											2	7 day	
		36-GS-SB02-00			S	5/6	0817	X	X											2	7 day	
		36-GS-SB02-04			S	5/6	0942	X	X											2	7 day	
		36-GS-SB01-00			S	5/6	0955	X	X											2	7 day	
		36-GS-SB01-04			S	5/6	1033	X	X											2	7 day	
		36-GS-SB01-00			S	5/6	1145	X	X											2	7 day	

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS				DATE/REVISIONS:				WESTON Analytics Use Only			
Special Instructions: - See last column for sample turn around - Airbill # 2124804791				7.7.1. 36-GS-SB05-00 gets Routine disregard sample label turn around				Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____ 2) Ambient or Chilled 3) Received in Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N			
7.7.2. 36-GS-SB05-03 MS/MSD gets routine turn around				COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N COC Record Present Upon Sample Rec't Y or N							
Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Discrepancies Between Samples Labels and COC Record? Y or N NOTES:			
7.7.7	Fed Ex	5/6/95	1300								

# Custody Transfer Record/Lab Work Request

Client: <u>Baker Environmental</u>	Refrigerator #																					
Est. Final Proj. Sampling Date: <u>5/15/95</u>	#/Type Container	Liquid																				
Work Order #	Volume	Liquid																				
Project Contact/Phone: <u>L Johnson 1412-269-6000</u>	Preservatives	Solid																				
AD Project Manager: <u>Dennis Woltman</u>	ANALYSES REQUESTED →																					
QC: <u>Del TAT</u>																						

Date Rec'd \_\_\_\_\_ Date Due \_\_\_\_\_

Account # \_\_\_\_\_

MATRIX CODES: S- Soil SE- Sediment SO- Solid SL- Sludge W- Water O- Oil A- Air DS- Drum Solids DL- Drum Liquids L- EP/CLP Leachate WI- Wipe X- Other F- Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only														#	Turn			
			MS	MSD				1	2	3	4	5	6	7	8	9	10	11	12	13	14					
		36-65-5801-03			S	5/6	1210	X	X																2	7-day
		36-RE301			S	5/6	1330																		1	7-day
		303-TB-48			W	5/6	1258	X																	1	Routine

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:  
 - See last column for sample turn  
 303-TB-48 = Weston Trip Blank

**DATE/REVISIONS:**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____	COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N COC Record Present Upon Sample Rec't Y or N
2) Ambient or Chilled	
3) Received in Good Condition Y or N	
4) Labels Indicate Properly Preserved Y or N	
5) Received Within Holding Times Y or N	

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.	FedEx	5/6/95	1360				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:

WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: <u>Enbridge TransCanada</u>			Refrigerator #																	
Est./Final/Prot. Sampling Date: <u>5/15/95</u>			#/Type Container	Liquid																
Work Order #				Solid																
Project/Contact/Phone: <u>L. Johnson / 403-204-6500</u>			Volume	Liquid																
AD/Project Manager: <u>Dennis Williams</u>				Solid																
QC: <u>Del</u> TAT:			Preservatives																	
Date Rec'd: _____ Date Due: _____			ANALYSES REQUESTED →	ORGANIC							INORG		Dissolve Metals TSS TPDS	# BHLs	Turn Around					
Account #				VOA	BNA	Pest/PCB	Herb	PCPA	TCPE	Metal	CN									

MATRIX CODES	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only												Turn Around						
			MS	MSD																						
		303-TB-49			W	5/7	0800	X																2	Routine	
		36-GS-SB03-00			S	5/7	0848	X	X																2	Routine
		36-GS-SB03-02			S	5/7	0930	X	X																2	7-day
		36-GS-SB06-00			S	5/7	0945	X	X																2	Routine
		36-GS-SB06-02			S	5/7	1025	X	X																2	7-day
		86-RB02			S	5/7	1050			X	X														1	7-day
		86-GW22TW-01			W	5/7	1205	X							X		X								5	X
		86-GW22TW-01B			W	5/7	1205	X							X		X								5	X
		86-GW23TW-01			W	5/7	1740	X							X		X								5	X

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:  
 - see last column for sample turn around  
 - Airbill # 2124804824  
 303-TB-49 = Weston Trip Blank  
 X:VOA gets 7-day, All else Routine

**DATE/REVISIONS:**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were:	COC Tape was:
1) Shipped ___ or	1) Present on Outer
Hand Delivered ___	Package Y or N
Airbill # _____	2) Unbroken on Outer
	Package Y or N
2) Ambient or Chilled	3) Present on Sample
3) Received in Good	Condition Y or N
4) Labels Indicate	4) Unbroken on
Properly Preserved	Sample Y or N
Y or N	COC Record Present
5) Received Within	Upon Sample Rec't
Holding Times	Y or N
Y or N	

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Discrepancies Between Samples Labels and COC Record? Y or N NOTES:
7.7.7.	FedEx	5/8/95	1530					





WESTON Analytics Use Only

# Custody Transfer Record/Lab Work Request

Client: <u>Baker Environmental</u>	Refrigerator #	
Est. Final Proj. Sampling Date: <u>5-9-95</u>	#/Type Container	Liquid
Work Order #		
Project Contact/Phone: <u>L Johnson / 412-249-6000</u>	Volume	Liquid
AD Project Manager: <u>Dorise Wolfman</u>		Solid
QC: <u>Del</u> STAT	Preservatives	
Date Rec'd _____ Date Due _____	ANALYSES REQUESTED	ORGANIC
Account # _____		VOA BNA Pest PCB Herb
		Flash React Solv React Grands
		INORG Metal CN
		TSS/TSDS Dissolve Metals
		Baffles Turn Around

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only																	
			MS	MSD				1	2	3	4	5	6	7	8	9	10	11	12						
		36-GW14-01			W	5/8	1040											X	X					2	Routine
		36-GW14D-01			W	5/8	1040														X			1	Routine
		36-GW12IW-01			W	5/8	1235											X	X					2	Routine
		36-GW12-01			W	5/8	1420											X	X					2	Routine
		36-GW13IW-01			W	5/8	1820	X										X	X					5	* O
		303-TB-50			W	5/8	1900	X																2	Routine
		36-GWER-03			W	5/9	0700	X										X						3	Routine
		303-FB-04			W	5/9	0715	X																2	Routine
		36-GWER-04			W	5/9	1000	X										X						2	Hold
		36-GW13-01			W	5/9	0915	X										X	X					5	

**FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS**

Special Instructions:  
 - See last column for sample turn around times  
 \* = VOAs get 7-day Turn, all else Routine  
 - Airbill # 2124804813  
 X 303-TB-50 = weston Trip Blank  
 IFT 5-9-95

**DATE/REVISIONS:**  
 7.7.7. 1. 36-GW13IW-01 VOAs get 7-day  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_

**WESTON Analytics Use Only**

Samples were: \_\_\_\_\_ COC Tape was:  
 1) Shipped \_\_\_\_\_ or 1) Present on Outer  
 Hand Delivered \_\_\_\_\_ Package Y or N  
 Airbill # \_\_\_\_\_ 2) Unbroken on Outer  
 Package Y or N  
 2) Ambient or Chilled  
 Package Y or N  
 3) Received in Good  
 Condition Y or N 3) Present on Sample  
 Y or N  
 4) Labels Indicate  
 Properly Preserved Y or N 4) Unbroken on  
 Sample Y or N  
 5) Received Within  
 Holding Times Y or N 5) Received Within  
 Holding Times Y or N  
 COC Record Present  
 Upon Sample Rec'd  
 Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
7.7.7.	Fcd Ex	5/9/95	1530				

Discrepancies Between Samples Labels and COC Record? Y or N  
 NOTES:



























# Custody Transfer Record/Lab Work Request

Client: <b>BAKER</b>		Refrigerator #																		
Est. Final Proj. Sampling Date: <b>5/31/96</b>		#/Type Container	Liquid																	
Work Order #			Solid																	
Project Contact/Phone # <b>R. Belli/412 269-2033</b>		Volume	Liquid																	
AD Project Manager <b>D. WOLTMAN</b>			Solid																	
QC Del TAT		Preservatives																		
Date Rec'd		ANALYSES REQUESTED →	ORGANIC					INORG												
Date Due			VOA	BNA	Pest/PCB	Herb	Metal	CN												
Account #																				

TURNAROUND TIME (DAYS) 7  
No. of bottles 1

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)		Matrix	Date Collected	Time Collected	WESTON Analytics Use Only													
			MS	MSD																	
		<b>36-OF-SB04C</b>			<b>S</b>	<b>5/31</b>	<b>1407</b>														
		<b>36-OF-SB04D</b>			<b>S</b>	<b>5/31</b>	<b>1410</b>														

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS				DATE/REVISIONS:				WESTON Analytics Use Only			
Special Instructions: <b>FAXED RESULTS DUE ON 7-DAY TURN</b> <b>FED-EX AIRBILL # 1626606704</b>				1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____				Samples were: 1) Shipped ___ or Hand Delivered ___ Airbill # _____ 2) Ambient or Chilled 3) Received in Good Condition Y or N 4) Labels Indicate Properly Preserved Y or N 5) Received Within Holding Times Y or N COC Tape was: 1) Present on Outer Package Y or N 2) Unbroken on Outer Package Y or N 3) Present on Sample Y or N 4) Unbroken on Sample Y or N COC Record Present Upon Sample Rec't Y or N			
Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time	Discrepancies Between Samples Labels and COC Record? Y or N NOTES:			
<b>A.P.T.</b>	<b>FED-EX</b>	<b>5/31/96</b>	<b>1800</b>								

# APPENDIX E FIELD WELL DEVELOPMENT RECORDS

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc

PROJECT: SITE 36

CTO NO.: 303 WELL NO.: 36-GW01

DATE: 2-23-95

GEOLOGIST/ENGINEER: MD SMITH

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0830							
1021							
INITIAL WATER LEVEL (FT) 5.95'	0830	3					TURBID
TOTAL WELL DEPTH (TD) 22.7'	0836	5					TURBID
WELL DIAMETER (INCHES) 2"	0845	10					CLEAR
CALCULATED WELL VOLUME 2.7 GAL.	0853	15	-	-	1150	14	CLEAR
BOREHOLE DIAMETER (INCHES) UNKNOWN	0859	20			1150	14	CLEAR
BOREHOLE VOLUME -	0902	23			1150	14	CLEAR
AMOUNT OF WATER ADDED DURING DRILLING -	0910	26			1150	14	CLEAR
DEVELOPMENT METHOD PUMPING	0916	31			1150	18	CLEAR
PUMP TYPE CENTRIFUGAL	0948	36			-	-	TURBID
TOTAL TIME (A) 1 hr. 23 min.	0958	46			1050	15	CLEAR
TOTAL TIME PUMPING	1003	54			1100	17	CLEAR
AVERAGE FLOW (GPM)(B) 1.0 GPM	1008	62			1100	18	CLEAR
TOTAL ESTIMATED WITHDRAWAL AXB= 81 GAL	1017	75			1200	18	CLEAR
MEASURED	1021	81	↓	↓	-	-	CLEAR
HNU/OVA READING BACKGROUND							
OBSERVATIONS/NOTES							
The well was surged between 920 and 943. Conductivity was only parameter measured.							



# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc

PROJECT: SITE 36  
 CTO NO.: 303 WELL NO.: 36-GW02  
 DATE: 2-23-95  
 GEOLOGIST/ENGINEER: MDSMITH

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1103							
1242							
INITIAL WATER LEVEL (FT) 6.18'	1103	0	-	-	-	-	VERY TURBID
TOTAL WELL DEPTH (TD) 21.95'	1107	6			-	-	VERY TURBID
WELL DIAMETER (INCHES) 2"	1117	36			1250	16	TURBID
CALCULATED WELL VOLUME 2.57 GAL	1121	49			1250	16	CLEAR
BOREHOLE DIAMETER (INCHES) UNKNOWN	1123	55			1250	16	CLEAR
BOREHOLE VOLUME -	1128	71			1250	15	CLEAR
AMOUNT OF WATER ADDED DURING DRILLING -	1211	92			-	-	VERY TURBID
DEVELOPMENT METHOD PUMPING	1225	120			1400		TURBID
PUMP TYPE CENTRIFUGAL	1228	126			1400		MILKY
TOTAL TIME (A) 1 hr. 4 min	1232	134			1400		SLIGHTLY MILKY
TOTAL PUMPING TIME	1236	142			1358		CLEAR
AVERAGE FLOW (GPM)(B) 2.6 GPM	1242	168	↓	↓	1358	↓	CLEAR
TOTAL ESTIMATED WITHDRAWAL AxB = 168 GAL.							
MEASURED							
HNU/OVA READING BACKGROUND							
OBSERVATIONS/NOTES							
The well was surged between 1130 and 1201. Conductivity / Temperature was the only parameter measured. At 1255 temperature mode failed.							

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc

PROJECT: SITE 36

CTO NO.: 303 WELL NO.: 36-GW03

DATE: 2-23-95

GEOLOGIST/ENGINEER: MD SMITH

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1509							
1730							
INITIAL WATER LEVEL (FT) 6.38'	1509	0	-	-	-	-	VERY TURBID
TOTAL WELL DEPTH (TD) 20.90'	1513	6					VERY TURBID
	1519	16					VERY TURBID
WELL DIAMETER (INCHES) 2"	1531	36					VERY TURBID
	1539	50	5.54		200	17	MILKY
CALCULATED WELL VOLUME 2.5 GAL	1546	61	5.54		200	17	CLEAR
	1548	64	5.39		195	17	CLEAR
BOREHOLE DIAMETER (INCHES) UNKNOWN	1556	76	-		-	-	CLEAR
	1644	112	-		-	-	TURBID
BOREHOLE VOLUME -	1650	164	5.53		190	17	MILKY
	1654	174	5.49		190	17	SLIGHTLY TURBID
AMOUNT OF WATER ADDED DURING DRILLING -	1659	187	5.49		190	17	SLIGHTLY TURBID
	1707	208	5.49		190	17	SLIGHTLY TURBID
DEVELOPMENT METHOD PUMPING	1709	213	5.49		190	18	SLIGHTLY TURBID
	1714	226	5.49		190	17	SLIGHTLY TURBID
PUMP TYPE CENTRIFUGAL	1730	266	5.45		190	17	SLIGHTLY TURBID
	TOTAL TIME (A) 1 hr. 47 min						
TOTAL PUMPING TIME							
AVERAGE FLOW (GPM)(B) 2.5 GPM							
TOTAL ESTIMATED WITHDRAWAL AxB = 266 GAL	<b>OBSERVATIONS/NOTES</b> The well was surged on 2-23-95 from 1556 - 1630. Under slightly turbid conditions at this well, the water is clear but a few grains of sand remained in the bottom of the tube.						
MEASURED							
HNU/OVA READING BACKGROUND							

# FIELD WELL DEVELOPMENT RECORD



PROJECT: SITE 36  
 CTO NO.: 303 WELL NO.: 36-GW04  
 DATE: 2-22-95  
 GEOLOGIST/ENGINEER: MDSMITH

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1444							
1705							
INITIAL WATER LEVEL (FT) 3.80'	1444	0	-	-	-	-	VERY TURBID
TOTAL WELL DEPTH (TD) 22.9'	1500	-					CLEAR
WELL DIAMETER (INCHES) 2"	1542	55					CLEAR
CALCULATED WELL VOLUME 2.95 GAL	1640	80					VERY TURBID
BOREHOLE DIAMETER (INCHES) UNKNOWN	1657	135					CLEAR
BOREHOLE VOLUME -	1705	170	↓	↓	↓	↓	CLEAR
AMOUNT OF WATER ADDED DURING DRILLING -							
DEVELOPMENT METHOD PUMPING							
PUMP TYPE CENTRIFUGAL							
TOTAL TIME (A) 1 hr 31 min							
TOTAL PUMPING TIME							
AVERAGE FLOW (GPM)(B) 1.87 GPM							
TOTAL ESTIMATED WITHDRAWAL AXB = 170 GAL MEASURED	<b>OBSERVATIONS/NOTES</b> The well was surged from 1550 - 1640. Initial flow from 1444 - 1542 was very irregular. The pumping system required the full time assistance of the operator.						
HNU/OVA READING BACKGROUND							

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc

PROJECT: SITE 36

CTO NO.: 303 WELL NO.: 36-GW05

DATE: 2-22-95

GEOLOGIST/ENGINEER: MDSMITH

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1245							
1400							
INITIAL WATER LEVEL (FT) 4.40'	1245	5	-	-	-	-	Clear
TOTAL WELL DEPTH (TD) 27.61'	1256	27					Clear
	1305	34					Clear
WELL DIAMETER (INCHES) 2"	1310	45					Cloudy/Milky
	1318	61					Clear
CALCULATED WELL VOLUME 3.78 GAL	1323	71					Clear
	1339	108					Clear
BOREHOLE DIAMETER (INCHES) UNKNOWN	1400	150	↓	↓	↓	↓	Clear
BOREHOLE VOLUME -							
AMOUNT OF WATER ADDED DURING DRILLING -							
DEVELOPMENT METHOD Pumping							
PUMP TYPE CENTRIFUGAL							
TOTAL TIME (A) 1 hr 15 min							
TOTAL PUMPING TIME							
AVERAGE FLOW (GPM)(B) 2 GPM							
TOTAL ESTIMATED WITHDRAWAL AXB = 150 GAL <b>MEASURED</b>	<b>OBSERVATIONS/NOTES</b> The well was surged the previous day. Well was developed based on visual clarity due to equipment failure.						
HNU/OVA READING BACKGROUND							

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc.

PROJECT: SITE 36  
 CTO NO.: 303 WELL NO.: 36-6W06  
 DATE: 3-8-95  
 GEOLOGIST/ENGINEER: MDSMITH

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0815							
1120							
INITIAL WATER LEVEL (FT) 5.70'	0815	0					VERY TURBID
TOTAL WELL DEPTH (TD) 19.97'	0820	5					
	0835	15					
WELL DIAMETER (INCHES) 2"	0858	20					
CALCULATED WELL VOLUME 2.32 GAL.	0916	30					
	0934	45					
BOREHOLE DIAMETER (INCHES) UNKNOWN	0948	55					
	0954	60					
BOREHOLE VOLUME -	1036	66					
AMOUNT OF WATER ADDED DURING DRILLING -	1045	74					
	1054	85	6.60	18.0	150	18.0	
DEVELOPMENT METHOD PUMPING	110	90	6.51	18.0	150	18.0	
	1109	94	5.99	17.3	150	18.5	
PUMP TYPE CENTRIFUGAL	1114	98	5.70	14.8	150	17.5	
TOTAL TIME (A) 1 hrs 44 min TOTAL PUMPING TIME	1118	100	5.62	14.0	145	17.0	
	1120	101					
AVERAGE FLOW (GPM)(B) 1.0 GPM (measured)	<b>OBSERVATIONS/NOTES</b> The well was surged 0955-1032. Lots of sand and sediment flowed into the well. Flow was variable and difficult to maintain. Operator was required to hand surge while pump was in operation, in order to maintain flow.						
TOTAL ESTIMATED WITHDRAWAL AxB= 101 GAL (measured)							
HNU/OVA READING BACKGROUND							

**Baker**

Baker Environmental, inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New RiverCTO NO.: 62470-303WELL NO.: 36-GW060 DW1DATE: 3-11-95GEOLOGIST/ENGINEER: M.S. HERBST

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1312							
TIME FINISH							
1346							
INITIAL WATER LEVEL (FT)	1318	55.0	8.38	19.0	400	19.0	MILKY GRAY OPAQUE
7.34'							
TOTAL WELL DEPTH (TD)	1324	—	8.33	18.0	385	18.0	CLEAR WITH A SLIGHT MILKY TINGE
67.54'							
WELL DIAMETER (INCHES)	1336	150.0	8.40	17.5	380	17.5	VERY CLEAR W/ SLIGHT MILKINESS.
2.0"							
WELL DIAMETER (INCHES)	1341	—	8.36	17.5	390	17.5	VERY CLEAR
2.0"							
CALCULATED WELL VOLUME	1344	165.0	8.34	17.5	390	17.5	EXTREMELY CLEAR
9.63 gallons							
BOREHOLE DIAMETER (INCHES)							
-N/A-							
BOREHOLE VOLUME							
-N/A-							
AMOUNT OF WATER ADDED DURING DRILLING							
-N/A-							
DEVELOPMENT METHOD							
AIRLIFT							
PUMP TYPE							
AIR COMPRESSOR							
TOTAL TIME (A)							
Ø hr. 34 min.							
AVERAGE FLOW (GPM)(B)							
4.8 gpm							
TOTAL ESTIMATED WITHDRAWAL AxB=	- SLIGHT SULFUR ODOR AT FIRST, BUT CLEARED UP AS THE DEVELOPMENT PROGRESSED.						
165 gallons	- 1330 - AIR INCREASED, THEN DECREASED.						
HNU/OVA READING	- WELL PRODUCED A LOT OF WATER						
-N/A-	- REF: # 46-47 CTO 303 VOL 2						

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc

PROJECT: SITE 36  
 CTO NO.: 303 WELL NO.: 36-GW07  
 DATE: 3-10-95  
 GEOLOGIST/ENGINEER: MDSMITH

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1302							
1535							
INITIAL WATER LEVEL (FT) 2.16'	1302	0					VERY TURBID
TOTAL WELL DEPTH (TD) 20.10'	1304	2					VERY TURBID
	1310	15					VERY TURBID
WELL DIAMETER (INCHES) 2"	1315	18					TURBID
CALCULATED WELL VOLUME 2.92 GAL	1325	28	6.58	13	480	19	MILKY / TURBID
	1332	35	6.16	13	450	18	SLIGHTLY TURBID
BOREHOLE DIAMETER (INCHES) UNKNOWN	1342	50	6.24	13	430	18	VERY TURBID
	1455	75	6.73	13	455	19	TURBID
BOREHOLE VOLUME -	1516	83	6.73	13	440	18	SLIGHTLY TURBID
	1525	90	6.61	14	445	18	SLIGHTLY TURBID
AMOUNT OF WATER ADDED DURING DRILLING -	1530	95	6.59	12	425	17.5	CLEAR
DEVELOPMENT METHOD PUMPING							
PUMP TYPE CENTRIFUGAL							
TOTAL TIME (A) 0hrs 58min							
TOTAL PUMPING TIME							
AVERAGE FLOW (GPM)(B) 1.6 GPM							
TOTAL ESTIMATED WITHDRAWAL AXB = 95GAL MEASURED	<b>OBSERVATIONS/NOTES</b> This well was surged from 1343 to 1426 and allowed to recharge from 1441 to 1451.						
HNU/OVA READING Background							

**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New RiverCTO NO.: 62470-303WELL NO.: 36-GW07DWDATE: 3-10-95GEOLOGIST/ENGINEER: M. S. HERBST

TIME START	DEVELOPMENT DATA						
1455							
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1547							
INITIAL WATER LEVEL (FT)	1503	34.0	6.88	18.0	375	18.0	FAIRLY CLEAR .
3.60'							
TOTAL WELL DEPTH (TD)	1509	52.5	6.78	19.0	375	19.0	TRANSLUCENT + MILKY.
65.00'							
WELL DIAMETER (INCHES)	1536	95.0	5.86	19.0	375	19.0	TRANSPARENT ; SLIGHTLY MILKY
2.0"							
CALCULATED WELL VOLUME	1547	142.0					
9.82 gallons							
BOREHOLE DIAMETER - (INCHES)							
- N/A -							
BOREHOLE VOLUME							
- N/A -							
AMOUNT OF WATER ADDED DURING DRILLING							
- N/A -							
DEVELOPMENT METHOD							
AIR LIFT							
PUMP TYPE							
AIR COMPRESSOR							
TOTAL TIME (A)							
∅ hr. 52 min.							
AVERAGE FLOW (GPM)(B)							
~ 3 gpm							
TOTAL ESTIMATED WITHDRAWAL	- REF pp. 40, 42, 43 CTO 208 VOL I .						
142.0 gallons	- AIR LINE BLEW OFF COMPRESSOR AT 1511, CAUSING A DELAY IN THE DEVELOPMENT.						
HNU/OVA READING							
- N/A -							



**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New RiverCTO NO.: 62470-303WELL NO.: 36-GW108DATE: 3-9-95GEOLOGIST/ENGINEER: M.S. HERBST

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1539							
TIME FINISH							
1722							
INITIAL WATER LEVEL (FT)	1549	19.0	—	—	—	—	GRAY OPAQUE - GOOD FLOW.
8.29'							
TOTAL WELL DEPTH (TD)	1558	44.5	6.29	15.5	215	15.5	TRANSPARENT BUT SLIGHTLY MILKY
26.05'							
WELL DIAMETER (INCHES)	1659	110.0	5.32	14.5	190	14.5	MILKY GREEN TRANSLUCENT.
2.0"							
WELL DIAMETER (INCHES)	1720	154.5	5.33	15.0	210	15.0	VERY CLEAR
2.0"							
CALCULATED WELL VOLUME	1722	157.0					
2.84 gallons							
BOREHOLE DIAMETER (INCHES)							
- N/A -							
BOREHOLE VOLUME							
- N/A -							
AMOUNT OF WATER ADDED DURING DRILLING							
- N/A -							
DEVELOPMENT METHOD							
PUMP							
PUMP TYPE							
CENTRIFUGAL							
TOTAL TIME (A)							
1 hr. 43 min.							
AVERAGE FLOW (GPM)(B)							
~ 2.0 gpm							
TOTAL ESTIMATED WITHDRAWAL	- SURGED WELL FROM 1623 TO 1638. (SHUT DOWN TO SURGE @ 1603, AND STARTED PUMP AGAIN AT 1645)						
157.0 gallons	- REF: pp 34-38 CTO 303 VOL I						
HNU/OVA READING							
- N/A -							

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc.

PROJECT: SITE 36

CTO NO.: 303 WELL NO.: 36-GW09

DATE: 3-12-95

GEOLOGIST/ENGINEER: MDSMITH

	DEVELOPMENT DATA						
TIME START 0926	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
TIME FINISH 1219							
INITIAL WATER LEVEL (FT) 8.40'	0926	—					
TOTAL WELL DEPTH (TD) 21.94'	0935	4					TURBID, LOTSSAND
WELL DIAMETER (INCHES) 2"	1030	START SURGING					
CALCULATED WELL VOLUME 2.2 GAL	1045	STOP SURGING					
BOREHOLE DIAMETER (INCHES) UNKNOWN	1108	13					TURBID, VERY
BOREHOLE VOLUME -	1129	18 1/4	6.31	20.4	1150	24	TURBID, VERY
AMOUNT OF WATER ADDED DURING DRILLING -	1142	21 1/2	6.31	20.4	1150	24	TURBID, VERY
DEVELOPMENT METHOD PUMPING	1151	23 3/4	5.89	20.3	1250	24	TURBID, VERY
PUMP TYPE CENTRIFUGAL	1155	25	6.54	21.3	1200	27	TURBID, VERY
TOTAL TIME (A) 2hr 38 min TOTAL PUMPING TIME	1202	26 3/4	6.68	17.1	1200	22	SLIGHTLY MILKY
AVERAGE FLOW (GPM)(B) .25 GPM	1210	28 3/4	6.20	19.0	1200	24	SLIGHTLY TURBID
TOTAL ESTIMATED WITHDRAWAL AXB= 40 GAL MEASURED	1219	40					
HNU/OVA READING Background							
<p><b>OBSERVATIONS/NOTES</b></p> <p>Between 1026 and 1045 no constant flow established. To obtain any flow, pump and discharge valve required constant attention. Flows fluctuated between 0-1/2 gpm.</p>							

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc.

PROJECT: SITE 36

CTO NO.: 303 WELL NO.: 36-6W10

DATE: 3-11-95

GEOLOGIST/ENGINEER: MD SMITH

TIME START	DEVELOPMENT DATA						
1330	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
TIME FINISH							
1624							
INITIAL WATER LEVEL (FT)	1330	0	-	-	-	-	LT BROWN, OPAQUE
5.77'							
TOTAL WELL DEPTH (TD)	1516	18	7.34	15.7	650	18	MILKY
20.90'	1524	22	7.10	15.7	600	18	MILKY
WELL DIAMETER (INCHES)	1530	25	7.15	12.1	600	18	MILKY
2"	1551	29	7.10	15.3	450	16	MILKY
CALCULATED WELL VOLUME	1605	30	7.11	17.1	650	18	MILKY
2.5 GAL							
BOREHOLE DIAMETER (INCHES)	1621	35	7.07	16.0	550	18	MILKY
UNKNOWN	1624	40	7.14	12.9	550	17	MILKY
BOREHOLE VOLUME							
-							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
PUMPING							
PUMP TYPE							
CENTRIFUGAL							
TOTAL TIME (A)							
1 hr 37 min							
TOTAL PUMPING TIME							
AVERAGE FLOW (GPM)(B)							
.41 GPM							
TOTAL ESTIMATED WITHDRAWAL AxB=40 GAL	<b>OBSERVATIONS/NOTES</b> Difficulty was experienced while trying to establish a constant flow. Between 1330 and 1510 steady flow could not be established. Heavy sand flow into the well constantly clogged the check valve. The well was surged from 1400 to 1415.						
MEASURED							
HNU/OVA READING							
Background							

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: RI/FS at OU No 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

WELL NO.: 36-GW10IW

DATE: 4-29-95

GEOLOGIST/ENGINEER: J. E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0945							
TIME FINISH							
1040							
INITIAL WATER LEVEL (FT)							
8.50 (TOC)	0955	5.0 gal	7.91	18.1	906	17.7	Brown / silty
TOTAL WELL DEPTH (TD)	1000	15.0 gal	7.89	17.6	968	17.4	Light Brown / little silty
34.0	1010	40.0 gal	7.81	17.6	977	17.4	Clear / tr. silt
WELL DIAMETER (INCHES)	1025	55.0 gal	7.84	17.5	982	17.5	Clear / tr. silt
2.0	1040	70.0 gal	7.86	17.5	988	17.5	Clear / tr. silt
CALCULATED WELL VOLUME							
-							
BOREHOLE DIAMETER (INCHES)							
6.0							
BOREHOLE VOLUME							
37.35 gallons (1)							
AMOUNT OF WATER ADDED DURING DRILLING							
None							
DEVELOPMENT METHOD							
Air Lift							
PUMP TYPE							
Air Compressor							
TOTAL TIME (A)							
55 min							
AVERAGE FLOW (GPM)(B)							
1.27 gallons/min							
TOTAL ESTIMATED WITHDRAWAL AxB=	<b>OBSERVATIONS/NOTES</b> satisfied criteria for specific conductivity, temperature and pH. HNu (PS) was drummed water. No elevated HNu readings occurred.						
70 gallons							
HNU/OVA READING							
HNu (BG) = .3 ppm							

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

WELL NO.: 36-GW100W

DATE: 7-1-95

GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0810							
TIME FINISH							
1045							
INITIAL WATER LEVEL (FT)							
7.28'	0815	5.0 gallons	12.83	22.4	960	22.4	Brown/v. silty
TOTAL WELL DEPTH (TD)	0820	10.0 gallons	12.62	22.1	967	22.1	Brown/v. silty
67.2'	0825	15.0 gallons	12.32	21.4	974	21.4	Brown/v. silty
WELL DIAMETER (INCHES)	0830	20.0 gallons	12.16	20.6	978	20.6	Brown/v. silty
2.0	0835	25.0 gallons	12.14	20.6	980	20.6	Brown/v. silty
CALCULATED WELL VOLUME	0840	30.0 gallons	11.93	19.0	980	19.0	Brown/v. silty
—	0845	35.0 gallons	11.87	19.5	980	19.5	Lt. Brown/little silty
BOREHOLE DIAMETER (INCHES)	0850	40.0 gallons	11.85	18.6	980	18.6	Lt. Brown/little silty
6.0	0855	45.0 gallons	11.81	18.8	980	18.8	Lt. Brown/little silty
BOREHOLE VOLUME	0900	50.0 gallons	11.68	18.6	980	18.6	Lt. Brown/little silty
11.75 gallons (1)	0905	55.0 gallons	11.46	18.9	980	18.9	Lt. Brown/little silty
AMOUNT OF WATER ADDED DURING DRILLING	0910	60.0 gallons	11.15	18.6	980	18.6	Lt. Brown/little silty
None	0915	65.0 gallons	10.93	19.0	980	19.0	Lt. Brown/little silty
DEVELOPMENT METHOD	0920	70.0 gallons	10.67	18.9	980	18.9	Lt. Brown/little silty
Air Surging	0925	75.0 gallons	10.57	18.8	980	18.8	Lt. Brown/little silty
PUMP TYPE	0930	80.0 gallons	10.47	18.9	980	18.9	Lt. Brown/little silty
TOTAL TIME (A)							
2 hrs 35 min							
AVERAGE FLOW (GPM)(B)							
1.03 gallons/min.							
TOTAL ESTIMATED WITHDRAWAL AxB=							
150 gallons							
HNU/OVA READING							
Hnu(BG) = .5 ppm.							
	<b>OBSERVATIONS/NOTES</b> satisfied criteria for well development (pH, specific conductivity and temperature). Point source was drummed water. No elevated TDS readings occurred.						

**Baker**

Baker Environmental, Inc.

**FIELD WELL DEVELOPMENT RECORD**PROJECT: RI/FS at OU No. 6 - Site 36 MCAS, New RiverCTO NO.: 62470-303 WELL NO.: 36-GW100WDATE: 7-1-95 (Page 2)GEOLOGIST/ENGINEER: J. E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
INITIAL WATER LEVEL (FT)	0935	85.0 gallons	10.29	19.4	980	19.4	Lt. Brown/little silt
TOTAL WELL DEPTH (TD)	0940	90.0 gallons	10.19	19.3	980	19.3	Lt. Brown/little silt
	0945	95.0 gallons	10.08	19.3	980	19.3	Lt. Brown/little silt
WELL DIAMETER (INCHES)	0950	100.0 gallons	10.01	19.1	980	19.1	Lt. Brown/little silt
	0955	105.0 gallons	9.94	19.6	980	19.6	Lt. Brown/little silt
CALCULATED WELL VOLUME	1000	110.0 gallons	9.79	19.4	980	19.4	Lt. Brown/little silt
	1005	115.0 gallons	9.65	19.1	980	19.1	clearing/tr. silt
BOREHOLE DIAMETER (INCHES)	1010	120.0 gallons	9.59	19.0	980	19.0	clearing/tr. silt
	1015	125.0 gallons	9.55	19.0	980	19.0	clear/tr. silt
BOREHOLE VOLUME	1020	130.0 gallons	9.53	18.9	980	18.9	clear/tr. silt
	1025	135.0 gallons	9.45	19.2	980	19.2	clear/tr. silt
AMOUNT OF WATER ADDED DURING DRILLING	1030	140.0 gallons	9.43	19.1	980	19.1	clear/tr. silt
	1035	145.0 gallons	9.39	19.3	980	19.3	clear/tr. silt
DEVELOPMENT METHOD	1040	150.0 gallons	9.28	19.2	980	19.2	clear/tr. silt
	1045	—	—	—	—	—	—
PUMP TYPE							
TOTAL TIME (A)							
AVERAGE FLOW (GPM)(B)	OBSERVATIONS/NOTES						
TOTAL ESTIMATED WITHDRAWAL AxB=							
HNU/OVA READING							

# FIELD WELL DEVELOPMENT RECORD

# Baker

Baker Environmental, Inc

PROJECT: SITE 36

CTO NO.: 303 WELL NO.: 36-GW11

DATE: 3-11-95

GEOLOGIST/ENGINEER: MDSMITH

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
823							
1112							
INITIAL WATER LEVEL (FT) 14.05'	823	0					VERY TURBID
TOTAL WELL DEPTH (TD) 26.05'	851	45					TURBID
WELL DIAMETER (INCHES) 2"	855	60					CLEAR
CALCULATED WELL VOLUME 1.79 GAL	1048	75	7	25	1150	20	SLIGHTLY TURBID
BOREHOLE DIAMETER (INCHES) UNKNOWN	1100	9	5.44	21	1250	22.5	SLIGHTLY TURBID
BOREHOLE VOLUME -	1106	100	5.86	19.7	1200	23	CLEAR
AMOUNT OF WATER ADDED DURING DRILLING -	1108	102	5.92	18.9	1250	23	CLEAR
DEVELOPMENT METHOD PUMPING	1112	105	5.89	17.7	1250	23	CLEAR
PUMP TYPE CENTRIFUGAL							
TOTAL TIME (A) 1 hr 23 min TOTAL PUMPING TIME							
AVERAGE FLOW (GPM)(B) 1.27 GPM							
TOTAL ESTIMATED WITHDRAWAL AXB=105 GAL MEASURED	<b>OBSERVATIONS/NOTES</b> The well was surged from 0823 to 0855. Pump failure was also experienced during this time period.						
HNU/OVA READING Background							



# FIELD WELL DEVELOPMENT RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River  
 CTO NO.: 62470-303 WELL NO.: 36-GW11-DW  
 DATE: 3-11-95  
 GEOLOGIST/ENGINEER: M.S. HERBST

TIME START	DEVELOPMENT DATA						
0902							
TIME FINISH 0955	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
INITIAL WATER LEVEL (FT) 16.10'	0914	40.0	7.00	19.0	600	19.0	TRANSPARENT, BUT SLIGHTLY MILKY
TOTAL WELL DEPTH (TD) 69.22'	0920-0923	44.5	6.80	18.0	625	18.0	VERY CLEAR. ALMOST ALL MILKINESS GONE.
WELL DIAMETER (INCHES) 2.0"	0939	75.5	7.51	19.0	650	19.0	TRANSPARENT, SLIGHTLY MILKY.
CALCULATED WELL VOLUME 8.50 gallons	0945	92.0	7.14	19.0	700	19.0	VERY CLEAR. ALMOST NO MILKINESS.
BOREHOLE DIAMETER (INCHES) -N/A-	0951	100.5	7.91	19.0	675	19.0	VERY CLEAR.
BOREHOLE VOLUME -N/A-							
AMOUNT OF WATER ADDED DURING DRILLING -N/A-							
DEVELOPMENT METHOD AIR LIFT							
PUMP TYPE AIR COMPRESSOR							
TOTAL TIME (A) ∅ hr. 53 min.							
AVERAGE FLOW (GPM)(B) VARIED ... ~ 2.0 gpm							
TOTAL ESTIMATED WITHDRAWAL AxB= 100.5	- REF: pp. 44-45 CTO 303 VOL I. - SLIGHT SULFUR ODOR DURING DEVELOPMENT. - 0924 - INCREASED, THEN DECREASED AIR FLOW.						
HNU/OVA READING -N/A-							



# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: RI/FS at OU No. 6 - Site 36-MCAS, New River

CTO NO.: 62470-303

WELL NO.: 36-GW12

DATE: 4-30-95

GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1401							
TIME FINISH							
1515							
INITIAL WATER LEVEL (FT)	1405	5.0 gal	7.09	22.5	680	22.0	Brown / v. Silty
9.90 (TOC)							
TOTAL WELL DEPTH (TD)	1410	10.0 gal	7.07	21.5	654	21.3	Brown / v. Silty
20.0							
WELL DIAMETER (INCHES)	1415	15.0 gal	7.01	21.4	643	21.1	Brown / v. Silty
2.0							
WELL DIAMETER (INCHES)	1420	20.0 gal	6.95	21.8	629	21.0	Brown / Silty
2.0							
CALCULATED WELL VOLUME	1425	25.0 gal	6.88	21.8	619	21.6	Light Brown / silty
—							
BOREHOLE DIAMETER (INCHES)	1430	30.0 gal	6.82	22.0	615	21.2	Light Brown / sil
6.0							
BOREHOLE DIAMETER (INCHES)	1435	35.0 gal	6.87	21.9	610	21.3	Light Brown / silty
6.0							
BOREHOLE VOLUME	1440	40.0 gal	6.91	21.9	594	21.3	clearing / little Silty
14.79 gallons (1)							
BOREHOLE VOLUME	1445	45.0 gal	6.94	21.6	592	21.4	clearing / little Silty
14.79 gallons (1)							
AMOUNT OF WATER ADDED DURING DRILLING	1450	50.0 gal	6.67	21.5	596	21.4	clearing / little Silty
None							
AMOUNT OF WATER ADDED DURING DRILLING	1455	55.0 gal	6.86	21.5	593	21.5	clearing / little Silty
None							
DEVELOPMENT METHOD	1500	60.0 gal	6.89	21.5	589	21.5	clearing / little Silty
—							
DEVELOPMENT METHOD	1505	65.0 gal	6.89	21.5	582	21.5	clear / tr. silt
—							
PUMP TYPE	1510	70.0 gal	6.93	21.5	579	21.3	clear / tr. silt
Centrifugal							
PUMP TYPE	1515	75.0 gal	6.94	21.5	579	21.5	clear / tr. silt
Centrifugal							
TOTAL TIME (A)							
1 hr. 14 min.							
TOTAL TIME (A)							
1 hr. 14 min.							
AVERAGE FLOW (GPM)(B)							
1.0 gallon / min							
AVERAGE FLOW (GPM)(B)							
1.0 gallon / min							
TOTAL ESTIMATED WITHDRAWAL AxB =							
75 gallons							
TOTAL ESTIMATED WITHDRAWAL AxB =							
75 gallons							
HNU/OVA READING							
HNU (BG) = .3 ppm							
HNU/OVA READING							
HNU (BG) = .3 ppm							

**OBSERVATIONS/NOTES** satisfied criteria for specific conductivity, temperature and pH. HNU (PS) was drummed water. No elevated HNU readings occurred.

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: RI/FS at OU No. 6-Site 36-MCAS, New River

CTO NO.: 62470-303 WELL NO.: 36-GW12IW

DATE: 4-29-95

GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1325							
TIME FINISH							
1500							
INITIAL WATER LEVEL (FT)							
10.84 (TOC)	1330	5.0 gal	7.52	18.5	705	18.7	Brown/v. Silty
TOTAL WELL DEPTH (TD)							
36.0	1345	20.0 gal	7.62	18.2	683	18.3	Light Brown/Silty
WELL DIAMETER (INCHES)							
2.0	1400	35.0 gal	7.57	18.4	603	17.7	Light Brown/Silty
CALCULATED WELL VOLUME							
—	1415	50.0 gal	7.63	18.2	600	17.8	clearing/little silt
BOREHOLE DIAMETER (INCHES)							
6.0	1430	65.0 gal	7.69	18.2	585	17.8	clearing/little silt
BOREHOLE VOLUME							
36.85 gallons (1)	1445	80.0 gal	7.69	18.2	588	17.7	clear/tr. silt
AMOUNT OF WATER ADDED DURING DRILLING							
None	1500	95.0 gal	7.69	18.2	583	17.7	clear/tr. silt
DEVELOPMENT METHOD							
Air Lift							
PUMP TYPE							
Air Compressor							
TOTAL TIME (A)							
1 hr. 35 min							
AVERAGE FLOW (GPM)(B)							
1 gallon/min							
TOTAL ESTIMATED WITHDRAWAL AXB=	<b>OBSERVATIONS/NOTES</b> satisfied criteria for specific conductivity, temperature and pH. HNu (PS) was drummed water. No elevated HNu readings occurred.						
95 gallons							
HNU/OVA READING							
HNU(BG) = .4 ppm							

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

WELL NO.: 36-GW13

DATE: 4-30-95

GEOLOGIST/ENGINEER: J. E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1310							
TIME FINISH							
1335							
INITIAL WATER LEVEL (FT)							
4.67 (TOC)	1312	10.0 gal	8.28	18.6	680	18.8	Brown/v. Silty
TOTAL WELL DEPTH (TD)							
19.0	1314	20.0 gal	7.16	19.2	639	19.2	Light Brown/Silty
WELL DIAMETER (INCHES)							
2.0	1316	30.0 gal	7.13	18.9	637	19.0	clearing/little Silty
CALCULATED WELL VOLUME							
—	1318	40.0 gal	7.10	18.6	637	18.8	clearing/little Silty
BOREHOLE DIAMETER (INCHES)							
8.0	1320	50.0 gal	7.15	18.1	636	18.3	clearing/little Silty
BOREHOLE VOLUME							
37.41 gallons	1322	60.0 gal	7.11	18.9	640	18.2	clearing/little Si
AMOUNT OF WATER ADDED DURING DRILLING							
None	1324	70.0 gal	7.13	18.6	641	18.0	clearing/little Silty
DEVELOPMENT METHOD							
—	1326	80.0 gal	7.03	18.7	646	18.3	clearing/little Silty
PUMP TYPE							
Centrifugal	1328	90.0 gal	7.06	18.6	639	18.4	clear/tr. Silt
TOTAL TIME (A)							
25 min	1330	100.0 gal	6.99	18.7	640	18.7	clear/tr. Silt
AVERAGE FLOW (GPM)(B)							
4.8 gallons/min	1332	110.0 gal	6.99	18.7	640	18.7	clear/tr. Silt
TOTAL ESTIMATED WITHDRAWAL AxB=							
120 gallons	1334	120.0 gal	6.99	18.7	640	18.7	clear/tr. Silt
HNU/OVA READING							
HNU (BG) = .4 ppm							
OBSERVATIONS/NOTES satisfied criteria for specific conductivity, temperature and pH. HNU (PS) was drummed water. No elevated HNU readings occurred.							

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: RI/FS at OU No 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

WELL NO.: 36-GW13TW

DATE: 4-29-95

GEOLOGIST/ENGINEER: J. E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1110							
TIME FINISH							
1210							
INITIAL WATER LEVEL (FT)							
4.90 (TOC)	1115	5.0 gal	7.95	19.6	625	18.4	Brown / Very Silty
TOTAL WELL DEPTH (TD)							
33.0	1126	25.0 gal	8.05	18.1	621	17.6	Light Brown / Silty
WELL DIAMETER (INCHES)							
2.0	1137	45.0 gal	7.90	18.2	628	17.5	Light Brown / Silty
CALCULATED WELL VOLUME							
—	1148	65.0 gal	7.79	18.2	627	17.5	Light Brown / Silty
BOREHOLE DIAMETER (INCHES)							
8.0	1159	85.0 gal	7.84	17.9	625	17.5	clearing / Silty
BOREHOLE VOLUME							
73.36 gallons (1)	1210	105.0 gal	7.94	18.3	631	17.7	clear / fr. Silt
AMOUNT OF WATER ADDED DURING DRILLING							
None							
DEVELOPMENT METHOD							
Air Lift							
PUMP TYPE							
Air Compressor							
TOTAL TIME (A)							
2 hrs							
AVERAGE FLOW (GPM)(B)							
.87 gallons/min							
TOTAL ESTIMATED WITHDRAWAL AxB =	<b>OBSERVATIONS/NOTES</b> satisfied criteria for specific conductivity, temperature and pH. H <sub>2</sub> O <sub>2</sub> (PS) was drummed water. No elevated H <sub>2</sub> O <sub>2</sub> readings occurred.						
105 gallons							
H <sub>2</sub> O <sub>2</sub> /OVA READING							
H <sub>2</sub> O <sub>2</sub> (RG) = .3 ppm							

# Baker

Baker Environmental, Inc.

## FIELD WELL DEVELOPMENT RECORD

PROJECT: RI/FS at OU No. 6 - Site 36 - MCAS, New River

CTO NO.: 62470-303

WELL NO.: 36-GW14

DATE: 4-30-95

GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0915							
TIME FINISH							
1101							
INITIAL WATER LEVEL (FT)							
12.20 (TOC)	0930	3.0 gal	6.38	28.9	290	29.0	Brown / v. Silty
TOTAL WELL DEPTH (TD)							
18.0	0945	6.0 gal	6.24	24.6	303	24.8	Brown / v. Silty
WELL DIAMETER (INCHES)							
2.0	1000	9.0 gal	6.52	25.2	311	25.3	Brown / silty
CALCULATED WELL VOLUME							
—	1015	12.0 gal	6.66	26.1	308	25.4	Light Brown / silty
BOREHOLE DIAMETER (INCHES)							
8.0	1030	15.0 gal	6.72	26.0	312	25.6	clearing / little silty
BOREHOLE VOLUME							
15.14 gallons (1)	1045	18.0 gal	6.70	27.0	311	25.8	clear / tr. silt
AMOUNT OF WATER ADDED DURING DRILLING							
None	1100	21.0 gal	6.63	26.9	312	26.1	clear / tr. silt
DEVELOPMENT METHOD							
—							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 46 min.							
AVERAGE FLOW (GPM)(B)							
.19 gallons/min							
TOTAL ESTIMATED WITHDRAWAL AXB=	<b>OBSERVATIONS/NOTES</b> satisfied criteria for specific conductivity, temperature and pH. HWU (PS) was drummed water. No elevated HWU readings occurred.						
21 gallons							
HWU/OVA READING							
HWU (BG) = .4 ppm							

**APPENDIX F**  
**INVESTIGATION DERIVED WASTE SUMMARY AND**  
**RECOMMENDATIONS**

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**Baker Environmental, Inc.**  
Airport Office Park, Building 3  
420 Rouser Road  
Coraopolis, Pennsylvania 15108

May 17, 1995

(412) 269-6000  
FAX (412) 269-2002

Commander  
Atlantic Division  
Naval Facilities Engineering Command  
1510 Gilbert Street (Building N-26)  
Norfolk, Virginia 23511-2699

Attn: Ms. Linda Saksvig, P.E.  
Navy Technical Representative  
Code 18231

Re: Contract N62470-D-4814  
Navy CLEAN, District III  
Contract Task Order (CTO) 0303  
Disposal of Investigation Derived Waste  
Operable Unit No. 7 (Sites 36, 43, 44, 54, and 86)  
MCAS, New River, Jacksonville, North Carolina

Dear Ms. Saksvig:

This correspondence serves to inform you of the status of activities associated with the investigation derived wastes (IDW) generated during the field program conducted under Contract Task Order (CTO) 0303. Approximately 9,275 gallons of liquid (purge and development water, and decontamination fluids) and 70 cubic yards of soil/mud cuttings were generated during the field activities. Upon completion of the field program, liquid and soil/mud samples were collected to determine their waste characteristics (i.e., hazardous or non-hazardous) for disposal purposes. Samples of soil/mud were obtained by compositing three to five grab samples per roll-off box, and liquid samples from each tank/tanker were collected by using a bailer.

Liquid samples were analyzed for full Target Compound List (TCL) organics (i.e., volatiles, semivolatiles, and pesticides, and PCBs), Target Analyte List (TAL) metals, and RCRA hazardous waste characteristics (corrosivity, ignitability, and reactivity). Soil/mud samples were analyzed for full toxicity characteristic leachate procedure (TCLP), including PCBs, and RCRA parameters. A 7-day laboratory turnaround was requested for all samples to accelerate the disposal process, and reduce the cost of IDW storage.

Analytical results indicated that the liquid and soil/mud samples are non-hazardous based on the criteria outlined in 40 CFR 261, RCRA Identification and Listing of Hazardous Waste (based on TCLP and RCRA Waste Characteristic results). Accordingly, the following disposal options are proposed:

- Purge and development water will be emptied onto the ground surface at the site from which it was generated. The tanker at Site 86 will be driven to Site 36 for disposal due to the limited space and highly visible nature of the site.
- Decontamination fluids will be taken off site by a licensed waste hauler (Four Season Environmental Services) and disposed as non-hazardous.



**Baker**

Ms. Linda Saksvig  
May 17, 1995  
Page 2

- Roll-off boxes will be emptied on site and the soil/mud graded. The roll-off boxes at Site 86 will be transported to Site 36 for disposal due to the limited space and highly visible nature of the site.

The proposed disposal plan outlined above is consistent with the LANTDIV IDW Management Plan options and with other projects performed at MCB, Camp Lejeune. Moreover, Baker received verbal concurrence on May 13, 1995 for the proposed disposal plan from Ms. Katherine Landman, the acting Navy Technical Representative.

Baker appreciates the opportunity to serve LANTDIV on this important project. If you have any questions, please do not hesitate to contact me at (412) 269-2033 or Mr. Matthew Bartman (Activity Coordinator) at (412) 269-2053.

Sincerely,

BAKER ENVIRONMENTAL, INC.



Richard E. Bonelli  
Project Manager

REB/lq

cc: Ms. Lee Ann Rapp, Code 183  
Ms. Beth Collier, Code 02115  
Mr. Neal Paul, MCB, Camp Lejeune



**WASTE CHARACTERISTIC SUMMARY**

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**SITE 36, CAMP GIEGER AREA DUMP  
WASTE CHARACTERIZATION SUMMARY  
REMEDIAL INVESTIGATION, CTO - 303  
MCB CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-RB01 TCLP	36-TNK	36-TP02 TCLP	36-TP03	36-TP07 TCLP
DATE SAMPLED	05/06/95	05/09/95	04/19/95	04/19/95	04/20/95
UNITS	UG/L	UG/L	UG/L	UG/KG	UG/L
<b>VOLATILES</b>					
CHLOROMETHANE	NA	10 U	NA	12 U	NA
BROMOMETHANE	NA	10 U	NA	12 U	NA
VINYL CHLORIDE	200 U	10 U	40 U	12 U	40 U
CHLOROETHANE	NA	10 U	NA	12 U	NA
METHYLENE CHLORIDE	NA	10 U	NA	12 U	NA
ACETONE	NA	10 U	NA	12 U	NA
CARBON DISULFIDE	NA	10 U	NA	12 U	NA
1,1-DICHLOROETHENE	200 U	10 U	100 U	12 U	100 U
1,1-DICHLOROETHANE	NA	10 U	NA	12 U	NA
1,2-DICHLOROETHENE (TOTAL)	NA	10 R	NA	12 U	NA
CHLOROFORM	200 U	10 U	40 U	12 U	40 U
1,2-DICHLOROETHANE	200 U	10 U	40 U	12 U	40 U
2-BUTANONE	200 U	10 U	200 U	12 U	200 U
1,1,1-TRICHLOROETHANE	NA	10 U	NA	12 U	NA
CARBON TETRACHLORIDE	200 U	10 U	40 U	12 U	40 U
BROMODICHLOROMETHANE	NA	10 U	NA	12 U	NA
1,2-DICHLOROPROPANE	NA	10 U	NA	12 U	NA
CIS-1,3-DICHLOROPROPENE	NA	10 U	NA	12 U	NA
TRICHLOROETHENE	200 U	1 J	40 U	12 U	40 U
DIBROMOCHLOROMETHANE	NA	10 U	NA	12 U	NA
1,1,2-TRICHLOROETHANE	NA	10 U	NA	12 U	NA
BENZENE	200 U	10 U	60 U	12 U	60 U
TRANS-1,3-DICHLOROPROPENE	NA	10 U	NA	12 U	NA
BROMOFORM	NA	10 U	NA	12 U	NA
4-METHYL-2-PENTANONE	NA	10 U	NA	12 U	NA
2-HEXANONE	NA	10 U	NA	12 U	NA
TETRACHLOROETHENE	200 U	10 U	100 U	12 U	100 U
1,1,2,2-TETRACHLOROETHANE	NA	10 U	NA	12 U	NA
TOLUENE	NA	10 U	NA	12 U	NA
CHLOROBENZENE	200 U	10 U	40 U	12 U	40 U
ETHYLBENZENE	NA	10 U	NA	12 U	NA
STYRENE	NA	10 U	NA	12 U	NA
XYLENE (TOTAL)	NA	10 U	NA	12 U	NA

**SITE 36, CAMP GIEGER AREA DUMP  
WASTE CHARACTERIZATION SUMMARY  
REMEDIAL INVESTIGATION, CTO - 303  
MCB CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED UNITS	36-RB01 TCLP 05/06/95 UG/L	36-TNK 05/09/95 UG/L	36-TP02 TCLP 04/19/95 UG/L	36-TP03 04/19/95 UG/KG	36-TP07 TCLP 04/20/95 UG/L
<b>SEMIVOLATILES</b>					
PHENOL	NA	10 U	NA	400 U	NA
BIS(2-CHLOROETHYL)ETHER	NA	10 U	NA	400 U	NA
2-CHLOROPHENOL	NA	10 U	NA	400 U	NA
1,3-DICHLOROBENZENE	NA	10 U	NA	400 U	NA
1,4-DICHLOROBENZENE	50 U	10 U	50 U	400 U	50 U
1,2-DICHLOROBENZENE	NA	10 U	NA	400 U	NA
2-METHYLPHENOL	NA	10 U	NA	400 U	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	10 U	NA	400 U	NA
4-METHYLPHENOL	NA	10 U	NA	400 U	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	10 U	NA	400 U	NA
HEXACHLOROETHANE	70 U	10 U	70 U	400 U	70 U
NITROBENZENE	30 U	10 U	30 U	400 U	30 U
ISOPHORONE	NA	10 U	NA	400 U	NA
2-NITROPHENOL	NA	10 U	NA	400 U	NA
2,4-DIMETHYLPHENOL	NA	10 U	NA	400 U	NA
BIS(2-CHLOROETHOXY)METHANE	NA	10 U	NA	400 U	NA
2,4-DICHLOROPHENOL	NA	10 U	NA	400 U	NA
1,2,4-TRICHLOROBENZENE	NA	10 U	NA	400 U	NA
NAPHTHALENE	NA	10 U	NA	400 U	NA
4-CHLOROANILINE	NA	10 U	NA	400 U	NA
HEXACHLORO BUTADIENE	80 U	10 U	80 U	400 U	80 U
4-CHLORO-3-METHYLPHENOL	NA	10 U	NA	400 U	NA
2-METHYLNAPHTHALENE	NA	10 U	NA	400 U	NA
HEXACHLOROCYCLOPENTADIENE	NA	10 U	NA	400 U	NA
2,4,6-TRICHLOROPHENOL	30 U	10 U	30 U	400 U	30 U
2,4,5-TRICHLOROPHENOL	40 U	26 U	40 U	990 U	40 U
2-CHLORONAPHTHALENE	NA	10 U	NA	400 U	NA
2-NITROANILINE	NA	26 U	NA	990 U	NA
DIMETHYLPHTHALATE	NA	10 U	NA	400 U	NA
ACENAPHTHYLENE	NA	10 U	NA	400 U	NA
2,6-DINITROTOLUENE	NA	10 U	NA	400 U	NA
3-NITROANILINE	NA	26 U	NA	990 U	NA
ACENAPHTHENE	NA	10 U	NA	400 U	NA
2,4-DINITROPHENOL	NA	26 U	NA	990 U	NA
4-NITROPHENOL	NA	26 U	NA	990 U	NA

**SITE 36, CAMP GIEGER AREA DUMP  
WASTE CHARACTERIZATION SUMMARY  
REMEDIAL INVESTIGATION, CTO - 303  
MCB CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED UNITS	36-RB01 TCLP 05/06/95 UG/L	36-TNK 05/09/95 UG/L	36-TP02 TCLP 04/19/95 UG/L	36-TP03 04/19/95 UG/KG	36-TP07 TCLP 04/20/95 UG/L
<b>SEMIVOLATILES cont.</b>					
DIBENZOFURAN	NA	10 U	NA	400 U	NA
2,4-DINITROTOLUENE	20 U	10 U	20 U	400 U	20 U
DIETHYLPHTHALATE	NA	10 U	NA	400 U	NA
4-CHLOROPHENYL-PHENYLETHER	NA	10 U	NA	400 U	NA
FLUORENE	NA	10 U	NA	400 U	NA
4-NITROANILINE	NA	26 U	NA	990 U	NA
4,6-DINITRO-2-METHYLPHENOL	NA	26 U	NA	990 U	NA
N-NITROSODIPHENYLAMINE (1)	NA	10 U	NA	400 U	NA
4-BROMOPHENYL-PHENYLETHER	NA	10 U	NA	400 U	NA
HEXACHLOROBENZENE	20 U	10 U	20 U	400 U	20 U
PENTACHLOROPHENOL	60 U	26 U	60 U	990 U	60 U
PHENANTHRENE	NA	10 U	NA	73 J	NA
ANTHRACENE	NA	10 U	NA	400 U	NA
CARBAZOLE	NA	10 U	NA	400 U	NA
DI-N-BUTYLPHTHALATE	NA	10 U	NA	1800 U	NA
FLUORANTHENE	NA	10 U	NA	110 J	NA
PYRENE	NA	10 U	NA	98 J	NA
BUTYLBENZYLPHTHALATE	NA	10 U	NA	64 J	NA
3,3'-DICHLOROBENZIDINE	NA	10 U	NA	400 U	NA
BENZO(A)ANTHRACENE	NA	10 U	NA	65 J	NA
CHRYSENE	NA	10 U	NA	76 J	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	10 U	NA	400 U	NA
DI-N-OCTYL PHTHALATE	NA	10 U	NA	400 U	NA
BENZO(B)FLUORANTHENE	NA	10 U	NA	73 J	NA
BENZO(K)FLUORANTHENE	NA	10 U	NA	400 U	NA
BENZO(A)PYRENE	NA	10 U	NA	400 U	NA
INDENO(1,2,3-CD)PYRENE	NA	10 U	NA	400 U	NA
DIBENZO(A,H)ANTHRACENE	NA	10 U	NA	400 U	NA
BENZO(G,H,I)PERYLENE	NA	10 U	NA	400 U	NA
O-CRESOL	30 U	NA	30 U	NA	30 U
META & PARA-CRESOL	30 U	NA	30 U	NA	30 U
PYRIDINE	500 U	NA	500 U	NA	500 U

**SITE 36, CAMP GIEGER AREA DUMP  
WASTE CHARACTERIZATION SUMMARY  
REMEDIAL INVESTIGATION, CTO - 303  
MCB CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED UNITS	36-RB01 TCLP 05/06/95 UG/L	36-TNK 05/09/95 UG/L	36-TP02 TCLP 04/19/95 UG/L	36-TP03 04/19/95 UG/KG	36-TP07 TCLP 04/20/95 UG/L
<b>PESTICIDE/PCBS</b>					
ALPHA-BHC	NA	0.052 R	NA	1.9 UJ	NA
BETA-BHC	NA	0.052 R	NA	1.9 UJ	NA
DELTA-BHC	NA	0.052 R	NA	1.9 UJ	NA
GAMMA-BHC (LINDANE)	0.5 U	0.052 R	0.5 U	1.9 UJ	0.5 U
HEPTACHLOR	0.6 U	0.052 R	0.6 U	1.9 UJ	0.6 U
ALDRIN	NA	0.052 R	NA	1.9 UJ	NA
HEPTACHLOR EPOXIDE	0.8 U	0.052 R	0.8 U	1.9 UJ	0.8 U
ENDOSULFAN I	NA	0.052 R	NA	1.9 UJ	NA
DIELDRIN	NA	0.1 R	NA	3.9 UJ	NA
4,4'-DDE	NA	0.1 R	NA	5.4 J	NA
ENDRIN	3 U	0.1 R	3 U	3.9 UJ	3 U
ENDOSULFAN II	NA	0.1 R	NA	3.9 UJ	NA
4,4'-DDD	NA	0.1 R	NA	5 J	NA
ENDOSULFAN SULFATE	NA	0.1 R	NA	3.9 UJ	NA
4,4'-DDT	NA	0.1 R	NA	2.7 J	NA
METHOXYCHLOR	7 U	0.52 R	7 U	19 UJ	7 U
ENDRIN KETONE	NA	0.1 R	NA	3.9 UJ	NA
ENDRIN ALDEHYDE	NA	0.1 R	NA	3.9 UJ	NA
ALPHA-CHLORDANE	NA	0.052 R	NA	1.9 UJ	NA
GAMMA-CHLORDANE	NA	0.052 R	NA	1.9 UJ	NA
TOXAPHENE	50 U	5.2 R	50 U	190 UJ	50 U
AROCLOR-1016	50 U	1 R	50 U	39 UJ	50 U
AROCLOR-1221	50 U	2.1 R	50 U	77 UJ	50 U
AROCLOR-1232	50 U	1 R	50 U	39 UJ	50 U
AROCLOR-1242	50 U	1 R	50 U	39 UJ	50 U
AROCLOR-1248	50 U	1 R	50 U	39 UJ	50 U
AROCLOR-1254	100 U	1 R	100 U	39 UJ	100 U
AROCLOR-1260	100 U	1 R	100 U	39 UJ	100 U
CHLORDANE	1 U	NA	1 U	NA	1 U

**SITE 36, CAMP GIEGER AREA DUMP  
WASTE CHARACTERIZATION SUMMARY  
REMEDIAL INVESTIGATION, CTO - 303  
MCB CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

LOCATION DATE SAMPLED UNITS	36-RB01 TCLP 05/06/95 UG/L	36-TNK 05/09/95 UG/L	36-TP02 TCLP 04/19/95 UG/L	36-TP03 04/19/95 MG/KG	36-TP07 TCLP 04/20/95 UG/L
SILVER, TOTAL	NA	2.8 U	NA	0.44 U	NA
ALUMINUM, TOTAL	NA	685	NA	5960	NA
ARSENIC, TOTAL	NA	1.7 U	NA	14.6 J	NA
BIARIUM, TOTAL	NA	16.6 U	NA	300	NA
BERYLLIUM, TOTAL	NA	0.8 U	NA	0.27 U	NA
CALCIUM, TOTAL	NA	36100	NA	25100	NA
CADMIUM, TOTAL	NA	2.2 U	NA	2.2 J	NA
COBALT, TOTAL	NA	3.4 U	NA	6.5	NA
CHROMIUM, TOTAL	NA	4.1 U	NA	32.9	NA
COPPER, TOTAL	NA	15.8	NA	681 J	NA
IRON, TOTAL	NA	1120	NA	55300	NA
MERCURY, TOTAL	NA	0.2 U	NA	0.51	NA
POTASSIUM, TOTAL	NA	9160	NA	494	NA
MAGNESIUM, TOTAL	NA	5380	NA	680	NA
MANGANESE, TOTAL	NA	22.5	NA	346	NA
SODIUM, TOTAL	NA	50100	NA	219	NA
NICKEL, TOTAL	NA	10.9 U	NA	24	NA
LEAD, TOTAL	NA	1.5 J	NA	895	NA
ANTIMONY, TOTAL	NA	20.8 U	NA	12.1 J	NA
SELENIUM, TOTAL	NA	1.8 U	NA	0.6 J	NA
THALLIUM, TOTAL	NA	0.7 U	NA	0.28 UJ	NA
VANADIUM, TOTAL	NA	3.2	NA	17.6	NA
ZINC, TOTAL	NA	33.8 U	NA	453	NA
SILVER, TCLP LEACHATE	250 U	NA	50 U	NA	50 U
ARSENIC, TCLP LEACHATE	500 U	NA	100 U	NA	100 U
BIARIUM, TCLP LEACHATE	2500 U	NA	1410	NA	713
CADMIUM, TCLP LEACHATE	250 U	NA	50 U	NA	50 U
CHROMIUM, TCLP LEACHATE	250 U	NA	50 U	NA	50 U
MERCURY, TCLP LEACHATE	10 U	NA	10 U	NA	10 U
LEAD, TCLP LEACHATE	250 U	NA	923	NA	214
SELENIUM, TCLP LEACHATE	500 U	NA	100 U	NA	100 U

**SITE 36, CAMP GIEGER AREA DUMP  
RCRA - SUMMARY  
REMEDIAL INVESTIGATION, CTO - 303  
MCB CAMP LEJEUNE, NORTH CAROLINA**

LOCATION	36-RB01	36-TP02	36-TP03	36-TP07
DATE SAMPLED	05/06/95	04/19/95	04/19/95	04/20/95
<b>WET CHEMISTRY</b>				
% SOLIDS	62.2	NA	83.8	87.7
CYANIDE, REACTIVE (mg/kg)	0.34 U	0.3 U	NA	0.28 U
CORROSIVITY BY PH (pH)	10.9	7.3	NA	7.4
FLASH POINT, CLOSED CUP (deg F)	0	0	NA	0
VOL THRU FILTER (mg/10)	0	0	NA	0
SULFIDE REACTIVE (mg/kg)	34.6 U	27.7 U	NA	27.7 U

LOCATION	36-TNK
DATE SAMPLED	05/09/95
<b>WET CHEMISTRY</b>	
% SOLIDS	78.4
CYANIDE, REACTIVE (ug/L)	10 U
CORROSIVITY BY PH (pH)	NA
FLASH POINT, CLOSED CUP (deg F)	200 >
VOL THRU FILTER (mg/10)	NA
SULFIDE REACTIVE (mg/L)	1 U

LOCATION	36-RB01 TCLP	36-TP02 TCLP	36-TP07 TCLP
DATE SAMPLED	05/06/95	04/19/95	04/20/95
UNITS	UG/L	UG/L	UG/L
<b>HERBICIDES</b>			
2,4-D	100 U	100 U	100 U
2,4,5-TP	20 U	20 U	20 U

**APPENDIX G**  
**SAMPLING SUMMARIES**

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OU No. 6, SITE 36  
SOIL  
CTO-0303

DATE SHIPPED	SAMPLE ID	Analysis Requested							Analysis Received							DATE EXPECTED	DATE RECD	TURNAROUND TIME	SDG NO.	COMMENTS		
		TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	GRAIN SIZE	ATTERBURG LIMITS	RCRA	TCLP	TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	GRAIN SIZE	ATTERBURG LIMITS						RCRA	TCLP
2/23/95	36-FCA-SB14-01	X	X	X	X				X	X	X	X					3/3/95	3/8/95	12	429	QT; SVOC RECD 3/6; VOC&METALS 3/7; PEST 3/8	
2/23/95	36-TRIP-01	X							X								3/31/95	3/24/95	31	402	R; TRIP BLANK	
2/24/95	COC#303003																					
2/24/95	36-BB-SB01-00	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-BB-SB01-02	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-BB-SB02-00	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-BB-SB02-02	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-FDA-SB01-00	X	X	X	X				X	X	X	X					4/1/95	3/31/95	37	456	R	
2/24/95	36-FDA-SB01-02	X	X	X	X				X	X	X	X					4/1/95	3/31/95	37	456	R	
2/24/95	36-OA-SB04-00	X	X	X	X				X	X	X	X					4/1/95	3/31/95	37	456	R	
2/24/95	36-OA-SB04-02	X	X	X	X				X	X	X	X					4/1/95	3/31/95	37	456	R	
2/24/95	36-DAD-SB03-00	X	X	X	X				X	X	X	X					4/1/95	3/31/95	37	456	R	
2/24/95	36-DAD-SB02-01	X	X	X	X				X	X	X	X					4/1/95	3/31/95	37	456	R	
2/24/95	36-DAD-SB02-00	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-DAD-SB02-00D	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-DAD-SB01-00	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-DAB-SB02-00	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-DAB-SB02-02	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-DAB-SB01-00	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-DAB-SB03-01	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R; MS/MSD	
2/24/95	36-DAB-SB01-01D	X	X	X	X				X	X	X	X					4/1/95	4/5/95	41	430	R	
2/24/95	36-SIEK-01	X	X	X	X				X	X	X	X					4/1/95	3/24/95	30	402	R; RINSATE	
2/24/95	36-TRIP-01	X							X								4/1/95	3/24/95	30	402	R; TRIP BLANK	
2/25/95	COC#303004																					
2/25/95	36-DAB-SB03-00	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R	
2/25/95	36-DAB-SB03-01	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R	
2/25/95	36-OA-SB07-00	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R	
2/25/95	36-OA-SB07-01	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R	
2/25/95	36-FDA-SB04-00	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R; MS/MSD	
2/25/95	36-FDA-SB04-00D	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R	
2/25/95	36-FDA-SB04-01	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R	
2/25/95	36-FDA-SB06-00	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R	
2/25/95	36-FDA-SB06-07	X	X	X	X				X	X	X	X					4/3/95	3/31/95	36	456	R	
2/25/95	36-SIEK-01	X	X	X	X															431	HOLD; RINSATE	
2/25/95	36-OA-SB02-00	X	X	X	X				X	X	X	X					4/3/95	4/12/95	47	457	R	
2/25/95	36-OA-SB02-00D	X	X	X	X				X	X	X	X					4/3/95	4/12/95	47	457	R	
2/25/95	36-OA-SB02-03	X	X	X	X				X	X	X	X					4/3/95	4/12/95	47	457	R	
2/25/95	36-BB-SB03-00	X	X	X	X				X	X	X	X					4/3/95	4/12/95	47	457	R	
2/25/95	36-BB-SB03-03	X	X	X	X				X	X	X	X					4/3/95	4/12/95	47	457	R	
2/25/95	36-TRIP-01	X							X								4/3/95	3/24/95	29	402	R; TRIP BLANK	
2/27/95	COC#303005																					

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DATE SHIPPED	SAMPLE ID	Analysis Requested								Analysis Received								DATE EXPECTED	DATE REC'D	TURNAROUND TIME	SDG NO.	COMMENTS
		TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	GRAIN SIZE	ATTERBURG LIMITS	RCRA	TCLP	TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	GRAIN SIZE	ATTERBURG LIMITS	RCRA	TCLP					
2/27/95	36-FCA-SB04-01	X	X	X	X					X	X	X	X					4/4/95	4/12/95	45	457	R; MS/MSD
2/27/95	36-FCA-SB04-02	X	X	X	X					X	X	X	X					4/4/95	4/12/95	45	457	R
2/27/95	36-FCA-SB04-00D	X	X	X	X					X	X	X	X					4/4/95	4/12/95	45	457	R
2/27/95	36-OA-SB03-00	X	X	X	X					X	X	X	X					4/4/95	4/12/95	45	457	R
2/27/95	36-OA-SB03-03	X	X	X	X					X	X	X	X					4/4/95	4/12/95	45	457	R
2/27/95	COC#303006																					
2/27/95	36-FDA-SB02-00	X	X	X	X					X	X	X	X					4/4/95	4/12/95	45	457	R
2/27/95	36-FDA-SB02-04	X	X	X	X					X	X	X	X					4/4/95	4/5/95	38	480	R
2/27/95	36-FDA-SB05-00	X	X	X	X					X	X	X	X					3/7/95	3/14/95	17	479	QT; METALS 3/8; VOC 3/9; SVOC 3/12; PEST 3/14
2/27/95	36-FDA-SB05-01	X	X	X	X					X	X	X	X					3/7/95	3/14/95	17	479	QT; METALS 3/8; VOC 3/9; SVOC 3/12; PEST 3/14
2/27/95	36-OA-SB08-00	X	X	X	X					X	X	X	X					3/7/95	3/14/95	17	479	QT; METALS 3/8; VOC 3/9; SVOC 3/12; PEST 3/14
2/27/95	36-OA-SB08-01	X	X	X	X					X	X	X	X					3/7/95	3/14/95	17	479	QT; METALS 3/8; VOC 3/9; SVOC 3/12; PEST 3/14
2/28/95	COC#303007																					
2/28/95	36-FCA-SB08-00	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-FCA-SB08-01	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-FCA-SB08-01D	X	X	X	X					X	X	X	X					4/5/95	4/5/95	35	480	R
2/28/95	36-FCA-SB05-00	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-FCA-SB05-02	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-FCA-SB13-00	X	X	X	X					X	X	X	X					4/5/95	4/5/95	35	480	R; MS/MSD
2/28/95	36-FCA-SB13-00D	X	X	X	X					X	X	X	X					4/5/95	4/5/95	35	480	R
2/28/95	36-FCA-SB13-01	X	X	X	X					X	X	X	X					4/5/95	4/5/95	35	480	R
2/28/95	36-FCA-SB01-00	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-FCA-SB01-04	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-OA-SB06-00	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-OA-SB06-02	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-OA-SB05-00	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
2/28/95	36-OA-SB05-02	X	X	X	X					X	X	X	X					3/8/95	3/12/95	12	507	QT; METALS 3/8; VOC 3/10; SVOC 3/12; PEST 3/10
3/7/95	COC#303010																					
3/7/95	36-GW07DW					X	X							X	X			4/12/95	4/19/95	42	614	R
3/7/95	36-GW07-00	X	X	X	X					X	X	X	X					4/12/95	4/13/95	36	612	R
3/7/95	36-GW07-01	X	X	X	X					X	X	X	X					4/12/95	4/13/95	36	612	R
3/9/95	COC#303012																					
3/9/95	36-GW09-00	X	X	X	X					X	X	X	X					4/14/95	4/13/95	34	612	R
3/9/95	36-GW09-04	X	X	X	X					X	X	X	X					4/14/95	4/13/95	34	612	R
3/9/95	36-OF-SB06A-00	X	X	X	X					X	X	X	X					4/14/95	4/13/95	34	612	R
3/9/95	36-OF-SB06A-01	X	X	X	X					X	X	X	X					4/14/95	4/13/95	34	612	R
3/9/95	36-OF-SB06B-00	X	X	X	X					X	X	X	X					4/14/95	4/15/95	36	659	R
3/9/95	36-OF-SB06B-02	X	X	X	X					X	X	X	X					4/14/95	4/15/95	36	659	R
3/9/95	36-OF-SB06C-00	X	X	X	X					X	X	X	X					4/14/95	4/15/95	36	659	R
3/9/95	36-OF-SB06C-02	X	X	X	X					X	X	X	X					4/14/95	4/15/95	36	659	R
3/9/95	36-OF-SB06D-00	X	X	X	X					X	X	X	X					4/14/95	4/15/95	36	659	R

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DATE SHIPPED	SAMPLE ID	Analysis Requested								Analysis Received								DATE EXPECTED	DATE REC'D	TURN AROUND TIME	SDG NO.	COMMENTS	
		TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	GRAIN SIZE	ATTERBURG LIMITS	RCRA	TCLP	TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	GRAIN SIZE	ATTERBURG LIMITS	RCRA	TCLP						
3/9/95	36-OF-SB06D-02	X	X	X	X					X	X	X	X					4/14/95	4/15/95	36	659	R	
3/9/95	36-GW10-00	X	X	X	X					X	X	X	X					4/14/95	4/13/95	34	612	R	
3/9/95	36-GW10-03	X	X	X	X					X	X	X	X					4/14/95	4/15/95	36	659	R	
3/10/95	COCH#303013																						
3/10/95	36-GW11-00	X	X	X	X					X	X	X	X					4/15/95	4/15/95	35	659	R	
3/10/95	36-GW11-00D	X	X	X	X					X	X	X	X					4/15/95	4/15/95	35	659	R	
3/10/95	36-GW11-04	X	X	X	X					X	X	X	X					4/15/95	4/15/95	35	659	R	
3/10/95	36-GW11-06	X	X	X	X					X	X	X	X					4/15/95	4/15/95	35	659	R	
3/10/95	36-OA-SB01A-00	X	X	X	X					X	X	X	X					4/15/95	4/15/95	35	659	R	
3/10/95	36-OA-SB01A-01	X	X	X	X					X	X	X	X					4/15/95	4/15/95	35	659	R	
3/10/95	36-OA-SB01B-00	X	X	X	X					X	X	X	X					4/15/95	4/13/95	33	686	R	
3/10/95	36-OA-SB01B-00D	X	X	X	X					X	X	X	X					4/15/95	4/13/95	33	686	R	
3/10/95	36-OA-SB01B-01	X	X	X	X					X	X	X	X					4/15/95	4/13/95	33	686	R	
3/10/95	36-SB01C-00	X	X	X	X					X	X	X	X					4/15/95	4/13/95	33	686	R	
3/10/95	36-SB01C-01	X	X	X	X					X	X	X	X					4/15/95	4/13/95	33	686	R	
3/10/95	36-SB01D-00	X	X	X	X					X	X	X	X					4/15/95	4/13/95	33	686	R	
3/10/95	36-SB01D-01	X	X	X	X					X	X	X	X					4/15/95	4/13/95	33	686	R	
3/10/95	36-SB01E-01	X	X	X	X																431		HOLD; RINSATE
3/10/95	36-SB01F-12	X																4/15/95	4/12/95	32	613	R;	TRIP BLANK
4/20/95	COCH#303059																						
4/20/95	36-TP03	X								X								5/26/95	5/19/95	29	368	R;	TRIP BLANK
4/20/95	36-TP03	X	X	X	X					X	X	X	X					5/26/95	5/31/95	41	428	R	
4/20/95	36-TP02									X	X							5/26/95	5/31/95	41	428	R	
4/20/95	36-TP07									X	X							5/26/95	5/31/95	41	428	R	
4/24/95	COCH#303061																						
4/24/95	36-GW12-00	X								X								5/30/95	5/22/95	28	473	R	
4/24/95	36-GW12-03	X								X								5/2/95	5/2/95	8	472	QT	
4/24/95	36-GW13-00	X								X								5/30/95	5/22/95	28	473	R	
4/24/95	36-GW13-02	X								X								5/2/95	5/2/95	8	472	QT	
4/24/95	36-GW13-03	X								X								5/2/95	5/2/95	8	472	QT	
4/24/95	36-GW14-00	X								X								5/30/95	5/22/95	28	473	R	
4/24/95	36-GW14-02	X								X								5/2/95	5/2/95	8	472	QT	
4/24/95	36-GW14-04	X								X								5/30/95	5/22/95	28	474	R;	TRIP BLANK
5/6/95	COCH#303075																						
5/6/95	36-GS-SB05-00	X	X							X	X							6/11/95	6/19/95	43	737	R	
5/6/95	36-GS-SB05-01	X	X							X	X							5/14/95	5/26/95	20	736	QT	
5/6/95	36-GS-SB05-01D	X	X							X	X							5/14/95	5/26/95	20	736	QT	
5/6/95	36-GS-SB05-03	X	X							X	X							5/14/95	5/26/95	20	736	QT;	MS/MSD ROUTINE
5/6/95	36-GS-SB05-03D	X	X							X	X							6/11/95	6/19/95	43	737	R	
5/6/95	36-GS-SB02-00	X	X							X	X							6/11/95	6/19/95	43	737	R	
5/6/95	36-GS-SB02-04	X	X							X	X							5/14/95	5/26/95	20	736	QT	

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DATE SHIPPED	SAMPLE ID	Analysis Requested								Analysis Received								DATE EXPECTED	DATE REC'D	TURNAROUND TIME	SDG NO.	COMMENTS		
		TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	GRAIN SIZE	ATTERBURG LIMITS	RCRA	TCLP	TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	GRAIN SIZE	ATTERBURG LIMITS	RCRA	TCLP							
5/6/95	36-GS-SB01-00	X	X							X	X							6/11/95	6/19/95	43	737	R		
5/6/95	36-GS-SB01-04	X	X							X	X							5/14/95	5/26/95	20	736	QT		
5/6/95	36-GS-SB04-00	X	X							X	X							6/11/95	6/19/95	43	737	R		
5/6/95	36-GS-SB04-03	X	X							X	X							5/14/95	5/26/95	20	736	QT		
5/6/95	36-GS-SB04-05	X								X								6/11/95	6/15/95	39	735	R; TRIP BLANK		
5/8/95	COC#303076																							
5/8/95	36-GS-SB03-00	X								X								6/13/95	6/15/95	37	735	R; TRIP BLANK		
5/8/95	36-GS-SB03-00	X	X							X	X							6/13/95	6/19/95	41	737	R		
5/8/95	36-GS-SB03-02	X	X							X	X							5/16/95	5/26/95	18	736	QT		
5/8/95	36-GS-SB06-00	X	X							X	X							6/13/95	6/19/95	41	737	R		
5/8/95	36-GS-SB06-02	X	X							X	X							5/16/95	5/26/95	18	736	QT		
10/10/95	COC#303085																							
10/10/95	36-OA-SB01E-00			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01E-02			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01F-00			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01F-02			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01G-00			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01G-02			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01H-00			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01H-02			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01I-00			X														10/18/95					7-DAY TURN	
10/10/95	36-OA-SB01I-02			X														10/18/95					7-DAY TURN	
COUNT		163	149	133	133	1	2	6	2	157	139	123	123	1	1	6	2							



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DATE SHIPPED	SAMPLE ID	Analysis Requested						Analysis Received						DATE EXPECTED	DATE REC'D	TURNAROUND TIME	SDG NO.	COMMENTS
		TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	DISSOLVED METALS	TSS	TDS	TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	DISSOLVED METALS					
3/28/95	36-GW08-01	X	X	X			X	X						5/3/95	5/1/95	33	998	R
3/28/95	36-GW08D-01					X						X		5/3/95	5/1/95	33	998	R
3/28/95	<b>COC#303040</b>																	
3/28/95	36-GW01-01	X	X	X			X	X				X	X	5/3/95	5/1/95	33	998	R
3/28/95	36-GW01D-01					X						X		5/3/95	5/1/95	33	998	R
5/8/95	<b>COC#303076</b>																	
5/8/95	36-GW14-01	X							X					5/16/95	5/19/95	11	764	QT
5/8/95	36-GW12IW-01	X							X					5/16/95	5/19/95	11	764	QT
5/8/95	36-GW12-01	X							X					5/16/95	5/19/95	11	764	QT
5/9/95	<b>COC#303077</b>																	
5/9/95	36-GW04-01			X		X	X			X	X	X	X	6/14/95	6/15/95	36	807	R
5/9/95	36-GW14D-01				X					X				6/14/95	6/15/95	36	807	R
5/9/95	36-GW12IW-01			X		X	X			X	X	X	X	6/14/95	6/15/95	36	807	R
5/9/95	36-GW12-01			X		X	X			X	X	X	X	6/14/95	6/15/95	36	807	R
5/9/95	36-GW13IW-01	X		X		X	X	X		X	X	X	X	6/14/95	5/19/95	10	764	QT VOC ONLY
5/9/95	303-TB-30	X						X						6/14/95	6/15/95	36	807	ROUTINE; TRIP BLANK
5/9/95	36-GWER-03	X		X				X		X				6/14/95	6/15/95	36	807	R; RINSATE
5/9/95	303-TB-04	X						X						6/14/95	6/15/95	36	807	R; FIELD BLANK
5/9/95	36-GWER-04	X		X														HOLD; RINSATE
5/9/95	36-GW13-01	X		X		X	X	X		X	X	X	X	6/14/95	5/19/95	10	764	QT VOC ONLY
5/9/95	36-GW10IW-01	X						X					X	6/14/95	5/19/95	10	764	R MS/MSD; QT SAMPLE VOC
5/9/95	36-GW10IW-01D	X						X						6/14/95	6/15/95	36	807	R
5/9/95	<b>COC#303078</b>																	
5/9/95	303-TB-07		X	X	X				X	X	X			6/14/95	6/15/95	36	807	R; FIELD BLANK
5/9/95	36-GW10IW-01			X		X	X			X	X	X	X	6/14/95	6/15/95	36	807	R; MS/MSD
5/9/95	36-GW10IW-01D			X		X	X			X	X	X	X	6/14/95	6/15/95	36	807	R
7/11/95	<b>COC#303079</b>																	
7/11/95	303-TB-11	X						X						7/19/95	7/20/95	9	941	QT; RINSATE
7/11/95	36-GW13IW-02	X						X						7/19/95	7/20/95	9	941	QT
7/11/95	36-GW13-02	X						X						7/19/95	7/20/95	9	941	QT
7/11/95	36-GW12IW-02	X						X						7/19/95	7/20/95	9	941	QT
7/11/95	36-GW12-02	X						X						7/19/95	7/20/95	9	941	QT
7/11/95	36-GWER-05	X						X						7/19/95	7/20/95	9	941	QT; RINSATE
7/12/95	<b>COC#303080</b>																	
7/12/95	303-TB-52	X						X						7/20/95	7/24/95	12	991	QT
7/12/95	36-GW10-02	X						X						7/20/95	7/24/95	12	991	QT
7/12/95	36-GW10IW-02	X						X						7/20/95	7/24/95	12	991	QT
7/12/95	36-GWER-06	X						X						7/20/95	7/24/95	12	991	QT
7/12/95	36-GW10DW-01	X						X						7/20/95	7/24/95	12	991	QT; MS/MSD VOC ONLY
7/12/95	36-GW10DW-01D	X						X						7/20/95	7/24/95	12	991	QT
7/12/95	<b>COC#303081</b>																	

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DATE SHIPPED	SAMPLE ID	Analysis Requested							Analysis Received							DATE EXPECTED	DATE REC'D	TURNAROUND TIME	SDG NO.	COMMENTS
		TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	DISSOLVED METALS	TSS	TDS	TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	DISSOLVED METALS	TSS	TDS					
7/12/95	36-GW10DW-01	X	X	X			X	X		X	X			X	X	7/20/95	###	991	QT	
10/16/95	COCH303088																			
10/16/95	36-GW10-03			X						X						10/24/95	11/1/95	15	706	QT
COUNT		46	22	22	30	4	27	27	46	20	20	26	4	25	26					



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SURFACE WATER/SEDIMENT  
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DATE SHIPPED	SAMPLE ID	Analysis Requested							Analysis Received							DATE EXPECTED	DATE REC'D	TURNAROUND TIME	SDG NO.	COMMENTS
		TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	CN	DISSOLVED METALS	TOC	TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	CN	DISSOLVED METALS	TOC					
5/6/95	<b>COC#303074</b>															6/11/95	6/15/95	39	735	R; MS/MSD
5/6/95	36-DSW05						X							X		6/11/95	6/15/95	39	735	R
5/6/95	36-DSW05D						X							X		6/11/95	6/15/95	39	735	R
5/6/95	36-DSW06						X							X		6/11/95	6/15/95	39	735	R
5/6/95	36-DSW07						X							X		6/11/95	6/15/95	39	735	R
5/6/95	36-DSW04						X							X		6/11/95	6/15/95	39	735	R
5/6/95	36-DSW03						X							X		6/11/95	6/15/95	39	735	R
5/6/95	36-DSW02						X							X		6/11/95	6/15/95	39	735	R
5/6/95	36-DSW01						X							X		6/11/95	6/15/95	39	735	R
8/8/95	<b>COC#303082</b>																			
8/8/95	36-SD07-06							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD07-612							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD06-06							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD06-612							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD05-06							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD05-612							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD04-06	X	X	X	X	X		X						X		8/16/95		###		R
8/8/95	36-SD04-612	X	X	X	X	X		X						X		8/16/95		###		R
8/8/95	36-SD03-06							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD03-612							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD03-06D							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD02-06							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD02-612							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-SD01-06							X						X		8/16/95	8/24/95	16	457	QT
8/8/95	36-TB01	X														8/16/95		###		R; TRIP BLANK
10/16/95	<b>COC#303088</b>																			
10/16/95	36-SD08-01				X											10/24/95				7-DAY TURN
10/16/95	36-SD09-01				X											10/24/95				7-DAY TURN
COUNT		0	0	0	0	0	8		0	0	0	0	0	8	0					

OU No. 6, SITE 36

IDW

CTO-0303

DATE SHIPPED	SAMPLE ID	Analysis Requested										Analysis Received										DATE EXPECTED	DATE REC'D	TURNAROUND TIME	SDG						
		TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	FLASH POINT	REACTIVE CYANIDE	REACTIVE SULFIDE	TCLP	RCRA	TCL VOA	TCL SVOA	TCL PEST/PCB	TAL METALS	FLASH POINT	REACTIVE CYANIDE	REACTIVE SULFIDE	TCLP	RCRA												
5/6/95	CO#303075																														
5/6/95	36-RB01								X	X									X	X				5/14/95	5/26/95	20	736	QT			
5/9/95	CO#303077																														
5/9/95	36-TNK	X				X					X				X								5/17/95	5/19/95	10	764	QT				
5/9/95	CO#303078																														
5/9/95	36-TNK		X	X	X		X	X				X	X	X		X	X						5/17/95	5/30/95	21	764	QT				
COUNT		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									

## APPENDIX H DATA AND FREQUENCY SUMMARIES

**SOIL**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-DAB-SB01-00	36-DAB-SB02-00	36-DAB-SB03-00	36-DAD-SB01-00	36-DAD-SB02-00	36-DAD-SB03-00
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	12 U	130 U	17 U	14 U	15 U
BROMOMETHANE	12 U	12 U	130 U	17 U	14 U	15 U
VINYL CHLORIDE	12 U	12 U	130 U	17 U	14 U	15 U
CHLOROETHANE	12 U	12 U	130 U	17 U	14 U	15 U
METHYLENE CHLORIDE	12 U	12 U	130 U	17 U	14 U	15 U
ACETONE	12 U	12 U	130 U	19 U	14 U	15 U
CARBON DISULFIDE	12 U	12 U	130 U	17 U	14 U	15 U
1,1-DICHLOROETHENE	12 U	12 U	130 U	17 U	14 U	15 U
1,1-DICHLOROETHANE	12 U	12 U	130 U	17 U	14 U	15 U
1,2-DICHLOROETHENE (TOTAL)	12 U	12 U	130 U	17 U	14 U	15 U
CHLOROFORM	12 U	12 U	130 U	17 U	14 U	15 U
1,2-DICHLOROETHANE	12 U	12 U	130 U	17 U	14 U	15 U
2-BUTANONE	12 U	12 U	130 U	17 U	14 U	15 U
1,1,1-TRICHLOROETHANE	12 U	12 U	130 U	17 U	14 U	15 U
CARBON TETRACHLORIDE	12 U	12 U	130 U	17 U	14 U	15 U
BROMODICHLOROMETHANE	12 U	12 U	130 U	17 U	14 U	15 U
1,2-DICHLOROPROPANE	12 U	12 U	130 U	17 U	14 U	15 U
CIS-1,3-DICHLOROPROPENE	12 U	12 U	130 U	17 U	14 U	15 U
TRICHLOROETHENE	12 U	12 U	130 U	17 U	14 U	15 U
DIBROMOCHLOROMETHANE	12 U	12 U	130 U	17 U	14 U	15 U
1,1,2-TRICHLOROETHANE	12 U	12 U	130 U	17 U	14 U	15 U
BENZENE	12 U	12 U	130 U	17 U	14 U	15 U
TRANS-1,3-DICHLOROPROPENE	12 U	12 U	130 U	17 U	14 U	15 U
BROMOFORM	12 U	12 U	130 U	17 U	14 U	15 U
4-METHYL-2-PENTANONE	12 U	12 U	130 U	17 UJ	14 U	15 U
2-HEXANONE	12 U	12 U	130 U	17 UJ	14 U	15 U
TETRACHLOROETHENE	12 U	12 U	130 U	17 UJ	14 U	15 U
1,1,2,2-TETRACHLOROETHANE	12 U	12 U	130 U	17 UJ	14 U	15 U
TOLUENE	12 U	12 U	130 U	17 UJ	14 U	15 U
CHLOROBENZENE	12 U	12 U	130 U	17 UJ	14 U	15 U
ETHYLBENZENE	12 U	12 U	130 U	17 UJ	14 U	15 U
STYRENE	12 U	12 U	130 U	17 UJ	14 U	15 U
XYLENE (TOTAL)	12 U	12 U	130 U	17 UJ	14 U	15 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-DAB-SB01-00	36-DAB-SB02-00	36-DAB-SB03-00	36-DAD-SB01-00	36-DAD-SB02-00	36-DAD-SB03-00
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	390 U	400 U	440 U	560 U	450 U	500 U
BIS(2-CHLOROETHYL)ETHER	390 U	400 U	440 U	560 U	450 U	500 U
2-CHLOROPHENOL	390 U	400 U	440 U	560 U	450 U	500 U
1,3-DICHLOROBENZENE	390 U	400 U	440 U	560 U	450 U	500 U
1,4-DICHLOROBENZENE	390 U	400 U	440 U	560 U	450 U	500 U
1,2-DICHLOROBENZENE	390 U	400 U	440 U	560 U	450 U	500 U
2-METHYLPHENOL	390 U	400 U	440 U	560 U	450 U	500 U
2,2-OXYBIS(1-CHLOROPROPANE)	390 U	400 U	440 U	560 U	450 U	500 U
4-METHYLPHENOL	390 U	400 U	440 U	560 U	450 U	500 U
N-NITROSO-DI-N-PROPYLAMINE	390 U	400 U	320 J	560 U	450 U	500 U
HEXACHLOROETHANE	390 U	400 U	440 U	560 U	450 U	500 U
NITROBENZENE	390 U	400 U	440 U	560 U	450 U	500 U
ISOPHORONE	390 U	400 U	440 U	560 U	450 U	500 U
2-NITROPHENOL	390 U	400 U	440 U	560 U	450 U	500 U
2,4-DIMETHYLPHENOL	390 U	400 U	440 U	560 U	450 U	500 U
BIS(2-CHLOROETHOXY)METHANE	390 U	400 U	440 U	560 U	450 U	500 U
2,4-DICHLOROPHENOL	390 U	400 U	440 U	560 U	450 U	500 U
1,2,4-TRICHLOROBENZENE	390 U	400 U	440 U	560 U	450 U	500 U
NAPHTHALENE	390 U	400 U	440 U	560 U	450 U	500 U
4-CHLOROANILINE	390 U	400 U	440 U	560 U	450 U	500 U
HEXACHLOROBUTADIENE	390 U	400 U	440 U	560 U	450 U	500 U
4-CHLORO-3-METHYLPHENOL	390 U	400 U	440 U	560 U	450 U	500 U
2-METHYLNAPHTHALENE	390 U	400 U	440 U	560 U	450 U	500 U
HEXACHLOROCYCLOPENTADIENE	390 UJ	400 U	440 U	560 U	450 U	500 U
2,4,6-TRICHLOROPHENOL	390 U	400 U	440 U	560 U	450 U	500 U
2,4,5-TRICHLOROPHENOL	960 U	1000 U	1100 U	1400 U	1100 U	1200 U
2-CHLORONAPHTHALENE	390 U	400 U	440 U	560 U	450 U	500 U
2-NITROANILINE	960 U	1000 U	1100 U	1400 U	1100 U	1200 U
DIMETHYLPHTHALATE	390 U	400 U	440 U	560 U	450 U	500 U
ACENAPHTHYLENE	390 U	400 U	440 U	560 U	450 U	500 U
2,6-DINITROTOLUENE	390 U	400 U	440 U	560 U	450 U	500 U
3-NITROANILINE	960 U	1000 UJ	1100 U	1400 U	1100 UJ	1200 U
ACENAPHTHENE	390 U	400 U	440 U	560 U	450 U	500 U
2,4-DINITROPHENOL	960 U	1000 UJ	1100 U	1400 U	1100 UJ	1200 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-DAB-SB01-00	36-DAB-SB02-00	36-DAB-SB03-00	36-DAD-SB01-00	36-DAD-SB02-00	36-DAD-SB03-00
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	960 U	1000 UJ	1100 U	1400 U	1100 UJ	1200 U
DIBENZOFURAN	390 U	400 U	440 U	560 U	450 U	500 U
2,4-DINITROTOLUENE	390 U	400 U	440 U	560 U	450 U	500 U
DIETHYLPHTHALATE	390 U	400 U	440 U	560 U	450 U	500 U
4-CHLOROPHENYL-PHENYLETHER	390 U	400 U	440 U	560 U	450 U	500 U
FLUORENE	390 U	400 U	440 U	560 U	450 U	500 U
4-NITROANILINE	960 U	1000 R	1100 U	1400 U	1100 R	1200 U
4,6-DINITRO-2-METHYLPHENOL	960 U	1000 U	1100 U	1400 U	1100 U	1200 U
N-NITROSODIPHENYLAMINE (1)	390 U	400 U	440 U	560 U	450 U	500 U
4-BROMOPHENYL-PHENYLETHER	390 U	400 U	440 U	560 U	450 U	500 U
HEXACHLOROBENZENE	390 U	400 U	440 U	560 U	450 U	500 U
PENTACHLOROPHENOL	960 U	1000 U	1100 U	1400 U	1100 U	1200 U
PHENANTHRENE	390 U	400 U	68 J	560 U	59 J	500 U
ANTHRACENE	390 U	400 U	440 U	560 U	450 U	500 U
CARBAZOLE	390 U	400 U	440 U	560 U	450 U	500 U
DI-N-BUTYLPHTHALATE	390 U	400 U	440 U	560 U	450 U	500 U
FLUORANTHENE	390 U	400 U	88 J	100 J	140 J	54 J
PYRENE	41 J	400 U	120 J	110 J	130 J	140 J
BUTYLBENZYLPHTHALATE	390 U	400 U	440 UJ	560 U	450 U	500 UJ
3,3'-DICHLOROBENZIDINE	390 U	400 U	440 UJ	560 U	450 U	500 UJ
BENZO(A)ANTHRACENE	390 U	400 U	46 J	560 U	450 U	500 UJ
CHRYSENE	390 U	400 U	51 J	60 J	73 J	500 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	390 U	400 U	440 UJ	560 U	450 U	180 J
DI-N-OCTYL PHTHALATE	390 U	400 UJ	440 U	560 UJ	450 UJ	500 U
BENZO(B)FLUORANTHENE	390 U	400 U	440 U	560 UJ	81 J	500 U
BENZO(K)FLUORANTHENE	39 J	400 U	440 U	560 UJ	450 U	500 U
BENZO(A)PYRENE	390 U	400 U	440 U	560 UJ	450 U	500 U
INDENO(1,2,3-CD)PYRENE	390 U	400 U	58 J	560 UJ	450 U	500 U
DIBENZO(A,H)ANTHRACENE	390 U	400 U	440 U	560 UJ	450 U	500 U
BENZO(G,H,I)PERYLENE	390 U	400 U	440 U	560 UJ	450 U	500 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-DAB-SB01-00	36-DAB-SB02-00	36-DAB-SB03-00	36-DAD-SB01-00	36-DAD-SB02-00	36-DAD-SB03-00
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	19 U	2 UJ	2.2 UJ	2.8 UJ	2.2 UJ	2.5 UJ
BETA-BHC	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	2.5 UJ
DELTA-BHC	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	2.5 UJ
GAMMA-BHC (LINDANE)	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	2.5 UJ
HEPTACHLOR	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	2.5 UJ
ALDRIN	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	2.5 UJ
HEPTACHLOR EPOXIDE	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	3 J
ENDOSULFAN I	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	2.5 UJ
DIELDRIN	39 U	8.9 J	4.4 U	5.6 UJ	4.4 UJ	5 UJ
4,4'-DDE	960	67 J	55 J	530 J	31 J	61 J
ENDRIN	39 U	4.1 UJ	4.4 U	5.6 UJ	4.4 UJ	5 UJ
ENDOSULFAN II	39 U	4.1 UJ	4.4 U	5.6 UJ	4.4 UJ	5 UJ
4,4'-DDD	120 J	16 J	6.1 J	39 J	4.9 J	7.4 J
ENDOSULFAN SULFATE	39 U	4.1 UJ	4.4 U	5.6 UJ	4.4 UJ	5 UJ
4,4'-DDT	3300 J	7.7 J	17	60 J	10 J	17 J
METHOXYCHLOR	190 U	20 UJ	22 U	28 UJ	22 UJ	25 UJ
ENDRIN KETONE	39 U	4.1 UJ	4.4 U	5.6 UJ	4.4 UJ	5 UJ
ENDRIN ALDEHYDE	39 U	4.1 UJ	4.4 U	5.6 UJ	4.4 UJ	5 UJ
ALPHA-CHLORDANE	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	2.5 UJ
GAMMA-CHLORDANE	19 U	2 UJ	2.2 U	2.8 UJ	2.2 UJ	2.5 UJ
TOXAPHENE	1900 U	200 UJ	220 U	280 UJ	220 UJ	250 UJ
AROCLOR-1016	390 U	41 UJ	44 U	56 UJ	44 UJ	50 UJ
AROCLOR-1221	780 U	81 UJ	88 U	110 UJ	89 UJ	99 UJ
AROCLOR-1232	390 U	41 UJ	44 U	56 UJ	44 UJ	50 UJ
AROCLOR-1242	390 U	41 UJ	44 U	56 UJ	44 UJ	50 UJ
AROCLOR-1248	390 U	41 UJ	44 U	56 UJ	44 UJ	50 UJ
AROCLOR-1254	390 U	41 UJ	44 U	56 UJ	44 UJ	50 UJ
AROCLOR-1260	390 U	41 UJ	44 U	56 UJ	44 UJ	50 UJ



**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB01-00	36-FCA-SB02-00	36-FCA-SB03-00	36-FCA-SB04-00	36-FCA-SB05-00	36-FCA-SB06-00
DATE SAMPLED	02/27/95	02/22/95	02/23/95	02/25/95	02/27/95	02/23/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	14 U	16 U	12 U	12 U	14 U	14 U
BROMOMETHANE	14 U	16 U	12 U	12 U	14 U	14 U
VINYL CHLORIDE	14 U	16 U	12 U	12 U	14 U	14 U
CHLOROETHANE	14 U	16 U	12 U	12 U	14 U	14 U
METHYLENE CHLORIDE	14 U	16 U	12 U	12 U	14 U	14 U
ACETONE	14 U	16 U	12 U	12 U	14 U	14 U
CARBON DISULFIDE	14 U	16 U	12 U	12 U	14 U	14 U
1,1-DICHLOROETHENE	14 U	16 U	12 U	12 U	14 U	14 U
1,1-DICHLOROETHANE	14 U	16 U	12 U	12 U	14 U	14 U
1,2-DICHLOROETHENE (TOTAL)	14 U	16 U	12 U	12 U	14 U	14 U
CHLOROFORM	14 U	16 U	12 U	12 U	14 U	14 U
1,2-DICHLOROETHANE	14 U	16 U	12 U	12 U	14 U	14 U
2-BUTANONE	14 U	16 U	12 U	12 U	14 U	14 U
1,1,1-TRICHLOROETHANE	14 U	16 U	12 U	12 U	14 U	14 U
CARBON TETRACHLORIDE	14 U	16 U	12 U	12 U	14 U	14 U
BROMODICHLOROMETHANE	14 U	16 U	12 U	12 U	14 U	14 U
1,2-DICHLOROPROPANE	14 U	16 U	12 U	12 U	14 U	14 U
CIS-1,3-DICHLOROPROPENE	14 U	16 U	12 U	12 U	14 U	14 U
TRICHLOROETHENE	14 U	16 U	12 U	12 U	14 U	14 U
DIBROMOCHLOROMETHANE	14 U	16 U	12 U	12 U	14 U	14 U
1,1,2-TRICHLOROETHANE	14 U	16 U	12 U	12 U	14 U	14 U
BENZENE	14 U	16 U	12 U	12 U	14 U	14 U
TRANS-1,3-DICHLOROPROPENE	14 U	16 U	12 U	12 U	14 U	14 U
BROMOFORM	14 U	16 U	12 U	12 U	14 U	14 U
4-METHYL-2-PENTANONE	14 U	16 U	12 U	12 U	14 U	14 U
2-HEXANONE	14 U	16 U	12 U	12 U	14 U	14 U
TETRACHLOROETHENE	14 U	16 U	12 U	12 U	14 U	14 U
1,1,2,2-TETRACHLOROETHANE	14 U	16 U	12 U	12 U	14 U	14 U
TOLUENE	14 U	16 U	12 U	12 U	14 U	14 U
CHLOROBENZENE	14 U	16 U	12 U	12 U	14 U	14 U
ETHYLBENZENE	14 U	16 U	12 U	12 U	14 U	14 U
STYRENE	14 U	16 U	12 U	12 U	14 U	14 U
XYLENE (TOTAL)	14 U	16 U	12 U	12 U	14 U	14 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB01-00	36-FCA-SB02-00	36-FCA-SB03-00	36-FCA-SB04-00	36-FCA-SB05-00	36-FCA-SB06-00
DATE SAMPLED	02/27/95	02/22/95	02/23/95	02/25/95	02/27/95	02/23/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	470 U	520 U	410 U	400 U	460 U	460 U
BIS(2-CHLOROETHYL)ETHER	470 U	520 U	410 U	400 U	460 U	460 U
2-CHLOROPHENOL	470 U	520 U	410 U	400 U	460 U	460 U
1,3-DICHLOROBENZENE	470 U	520 U	410 U	400 U	460 U	460 U
1,4-DICHLOROBENZENE	470 U	520 U	410 U	400 U	460 U	460 U
1,2-DICHLOROBENZENE	470 U	520 U	410 U	400 U	460 U	460 U
2-METHYLPHENOL	470 U	520 U	410 U	400 U	460 U	460 U
2,2'-OXYBIS(1-CHLOROPROPANE)	470 U	520 U	410 U	400 U	460 U	460 U
4-METHYLPHENOL	470 U	520 U	410 U	400 U	460 U	460 U
N-NITROSO-DI-N-PROPYLAMINE	470 U	520 U	410 U	400 U	460 U	460 U
HEXACHLOROETHANE	470 U	520 U	410 U	400 U	460 U	460 U
NITROBENZENE	470 U	520 U	410 U	400 U	460 U	460 U
ISOPHORONE	470 U	520 U	410 U	400 U	460 U	460 U
2-NITROPHENOL	470 U	520 U	410 U	400 U	460 U	460 U
2,4-DIMETHYLPHENOL	470 U	520 U	410 U	400 U	460 U	460 U
BIS(2-CHLOROETHOXY)METHANE	470 U	520 U	410 U	400 U	460 U	460 U
2,4-DICHLOROPHENOL	470 U	520 U	410 U	400 U	460 U	460 U
1,2,4-TRICHLOROBENZENE	470 U	520 U	410 U	400 U	460 U	460 U
NAPHTHALENE	470 U	520 U	410 U	400 U	460 U	460 U
4-CHLOROANILINE	470 UJ	520 U	410 U	400 U	460 UJ	460 U
HEXACHLOROBUTADIENE	470 U	520 U	410 U	400 U	460 U	460 U
4-CHLORO-3-METHYLPHENOL	470 U	520 U	410 U	400 U	460 U	460 U
2-METHYLNAPHTHALENE	470 U	520 U	410 U	400 U	460 U	460 U
HEXACHLOROCYCLOPENTADIENE	470 U	520 U	410 U	400 UJ	460 U	460 U
2,4,6-TRICHLOROPHENOL	470 U	520 U	410 U	400 U	460 U	460 U
2,4,5-TRICHLOROPHENOL	1200 U	1300 U	1000 U	1000 U	1200 U	1200 U
2-CHLORONAPHTHALENE	470 U	520 U	410 U	400 U	460 U	460 U
2-NITROANILINE	1200 U	1300 U	1000 U	1000 U	1200 U	1200 U
DIMETHYLPHTHALATE	470 U	520 U	410 U	400 U	460 U	460 U
ACENAPHTHYLENE	470 U	520 U	410 U	400 U	460 U	460 U
2,6-DINITROTOLUENE	470 U	520 U	410 U	400 U	460 U	460 U
3-NITROANILINE	1200 U	1300 U	1000 U	1000 U	1200 U	1200 UJ
ACENAPHTHENE	470 U	520 U	410 U	400 U	460 U	460 U
2,4-DINITROPHENOL	1200 U	1300 U	1000 UJ	1000 U	1200 U	1200 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB01-00	36-FCA-SB02-00	36-FCA-SB03-00	36-FCA-SB04-00	36-FCA-SB05-00	36-FCA-SB06-00
DATE SAMPLED	02/27/95	02/22/95	02/23/95	02/25/95	02/27/95	02/23/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	1200 U	1300 U	1000 U	1000 U	1200 U	1200 UJ
DIBENZOFURAN	470 U	520 U	410 U	400 U	460 U	460 U
2,4-DINITROTOLUENE	470 U	520 U	410 U	400 U	460 U	460 U
DIETHYLPHTHALATE	470 U	520 U	410 U	400 U	460 U	460 U
4-CHLOROPHENYL-PHENYLETHER	470 U	520 U	410 U	400 U	460 U	460 U
FLUORENE	470 U	520 U	410 U	400 U	460 U	460 U
4-NITROANILINE	1200 U	1300 U	1000 U	1000 U	1200 U	1200 R
4,6-DINITRO-2-METHYLPHENOL	1200 U	1300 U	1000 U	1000 UJ	1200 U	1200 U
N-NITROSODIPHENYLAMINE (1)	470 U	520 U	410 U	400 U	460 U	460 U
4-BROMOPHENYL-PHENYLETHER	470 U	520 U	410 U	400 U	460 U	460 U
HEXACHLOROBENZENE	470 U	520 U	410 U	400 U	460 U	460 U
PENTACHLOROPHENOL	1200 U	1300 U	1000 U	1000 U	1200 U	1200 U
PHENANTHRENE	470 U	520 U	410 U	400 U	460 U	460 U
ANTHRACENE	470 U	520 U	410 U	400 U	460 U	460 U
CARBAZOLE	470 U	520 U	410 U	400 U	460 U	460 U
DI-N-BUTYLPHTHALATE	470 U	520 U	410 U	730 U	460 U	120 R
FLUORANTHENE	470 U	520 U	410 U	400 U	460 U	460 U
PYRENE	470 UJ	520 UJ	410 U	400 U	460 UJ	460 U
BUTYLBENZYLPHTHALATE	470 UJ	520 UJ	410 U	400 U	460 UJ	460 U
3,3'-DICHLOROBENZIDINE	470 UJ	520 UJ	410 U	400 U	460 UJ	460 U
BENZO(A)ANTHRACENE	470 UJ	520 UJ	410 U	400 U	460 UJ	460 U
CHRYSENE	470 UJ	520 UJ	410 U	400 U	460 UJ	460 U
BIS(2-ETHYLHEXYL)PHTHALATE	200 J	520 UJ	90 J	400 U	460 UJ	460 U
DI-N-OCTYL PHTHALATE	470 U	520 U	410 U	400 U	460 U	460 UJ
BENZO(B)FLUORANTHENE	470 U	520 U	410 U	400 U	460 U	460 U
BENZO(K)FLUORANTHENE	470 U	520 U	410 U	400 U	460 U	460 U
BENZO(A)PYRENE	470 U	520 U	410 U	400 U	460 U	460 U
INDENO(1,2,3-CD)PYRENE	470 U	520 U	410 U	400 U	460 U	460 U
DIBENZO(A,H)ANTHRACENE	470 U	520 U	410 U	400 U	460 U	460 U
BENZO(G,H,I)PERYLENE	470 U	520 U	410 U	400 U	460 U	460 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB01-00	36-FCA-SB02-00	36-FCA-SB03-00	36-FCA-SB04-00	36-FCA-SB05-00	36-FCA-SB06-00
DATE SAMPLED	02/27/95	02/22/95	02/23/95	02/25/95	02/27/95	02/23/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	2.3 UJ	2.6 UJ	2 UJ	2 UJ	2.3 U	2.3 U
BETA-BHC	2.3 UJ	2.6 UJ	2 U	2 UJ	2.3 U	2.3 U
DELTA-BHC	2.3 UJ	2.6 UJ	2 UJ	2 UJ	2.3 U	2.3 U
GAMMA-BHC (LINDANE)	2.3 UJ	2.6 UJ	2 UJ	2 UJ	2.3 U	2.3 U
HEPTACHLOR	2.3 UJ	2.6 UJ	2 U	2 UJ	2.3 U	2.3 U
ALDRIN	2.3 UJ	2.6 UJ	2 U	2 UJ	2.3 U	2.3 U
HEPTACHLOR EPOXIDE	2.3 UJ	2.6 UJ	2 U	2 UJ	2.3 U	2.3 U
ENDOSULFAN I	2.3 UJ	2.6 UJ	2 U	2 UJ	2.3 U	2.3 U
DIELDRIN	4.2 J	11 J	12	4 UJ	4.7 U	4.6 U
4,4'-DDE	27 J	12 J	12 J	33 J	3.3 J	4.6 U
ENDRIN	4.6 UJ	5.2 UJ	4.1 U	4 UJ	4.7 U	4.6 U
ENDOSULFAN II	4.6 UJ	5.2 UJ	4.1 U	4 UJ	4.7 U	4.6 U
4,4'-DDD	2.8 J	5.2 UJ	4.9 J	4.8 J	4.7 U	4.6 U
ENDOSULFAN SULFATE	4.6 UJ	5.2 UJ	4.1 U	4 UJ	4.7 U	4.6 U
4,4'-DDT	15 J	4.2 J	13 J	23 J	4.7 U	4.6 U
METHOXYCHLOR	23 UJ	26 UJ	20 U	20 UJ	23 UJ	23 U
ENDRIN KETONE	4.6 UJ	5.2 UJ	4.1 U	4 UJ	4.7 U	4.6 U
ENDRIN ALDEHYDE	4.6 UJ	5.2 UJ	4.1 U	4 UJ	4.7 U	4.6 U
ALPHA-CHLORDANE	17 J	2.6 UJ	2 U	2 UJ	2.3 U	2.3 U
GAMMA-CHLORDANE	13 J	2.6 UJ	2 U	2 UJ	2.3 U	2.3 U
TOXAPHENE	230 UJ	260 UJ	200 U	200 UJ	230 U	230 U
AROCLOR-1016	46 UJ	52 UJ	41 U	40 UJ	47 U	46 U
AROCLOR-1221	93 UJ	100 UJ	82 U	80 UJ	94 U	92 U
AROCLOR-1232	46 UJ	52 UJ	41 U	40 UJ	47 U	46 U
AROCLOR-1242	46 UJ	52 UJ	41 U	40 UJ	47 U	46 U
AROCLOR-1248	46 UJ	52 UJ	41 U	40 UJ	47 U	46 U
AROCLOR-1254	46 UJ	52 UJ	41 U	40 UJ	47 U	46 U
AROCLOR-1260	46 UJ	52 UJ	41 U	40 UJ	47 U	46 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB07-00	36-FCA-SB08-00	36-FCA-SB09-00	36-FCA-SB10-00	36-FCA-SB11-00	36-FCA-SB12-00
DATE SAMPLED	02/22/95	02/27/95	02/22/95	02/22/95	02/23/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	13 U	14 U	14 U	12 U	13 U	12 U
BROMOMETHANE	13 U	14 U	14 U	12 U	13 U	12 U
VINYL CHLORIDE	13 U	14 U	14 U	12 U	13 U	12 U
CHLOROETHANE	13 U	14 U	14 U	12 U	13 U	12 U
METHYLENE CHLORIDE	13 U	14 U	14 U	12 U	13 U	12 U
ACETONE	13 U	14 U	14 U	12 U	13 U	12 U
CARBON DISULFIDE	13 U	14 U	14 U	12 U	13 U	12 U
1,1-DICHLOROETHENE	13 U	14 U	14 U	12 U	13 U	12 U
1,1-DICHLOROETHANE	13 U	14 U	14 U	12 U	13 U	12 U
1,2-DICHLOROETHENE (TOTAL)	13 U	14 U	14 U	12 U	13 U	12 U
CHLOROFORM	13 U	14 U	14 U	12 U	13 U	12 U
1,2-DICHLOROETHANE	13 U	14 U	14 U	12 U	13 U	12 U
2-BUTANONE	13 U	14 U	14 U	12 U	13 U	12 U
1,1,1-TRICHLOROETHANE	13 U	14 U	14 U	12 U	13 U	12 U
CARBON TETRACHLORIDE	13 U	14 U	14 U	12 U	13 U	12 U
BROMODICHLOROMETHANE	13 U	14 U	14 U	12 U	13 U	12 U
1,2-DICHLOROPROPANE	13 U	14 U	14 U	12 U	13 U	12 U
CIS-1,3-DICHLOROPROPENE	13 U	14 U	14 U	12 U	13 U	12 U
TRICHLOROETHENE	13 U	14 U	14 U	12 U	13 U	12 U
DIBROMOCHLOROMETHANE	13 U	14 U	14 U	12 U	13 U	12 U
1,1,2-TRICHLOROETHANE	13 U	14 U	14 U	12 U	13 U	12 U
BENZENE	13 U	14 U	14 U	12 U	13 U	12 U
TRANS-1,3-DICHLOROPROPENE	13 U	14 U	14 U	12 U	13 U	12 U
BROMOFORM	13 U	14 U	14 U	12 U	13 U	12 U
4-METHYL-2-PENTANONE	13 U	14 U	14 U	12 U	13 U	12 U
2-HEXANONE	13 U	14 U	14 U	12 U	13 U	12 U
TETRACHLOROETHENE	13 U	14 U	14 U	12 U	13 U	12 U
1,1,2,2-TETRACHLOROETHANE	13 U	14 U	14 U	12 U	13 U	12 U
TOLUENE	13 U	14 U	14 U	12 U	13 U	12 U
CHLOROBENZENE	13 U	14 U	14 U	12 U	13 U	12 U
ETHYLBENZENE	13 U	14 U	14 U	12 U	13 U	12 U
STYRENE	13 U	14 U	14 U	12 U	13 U	12 U
XYLENE (TOTAL)	13 U	14 U	14 U	12 U	13 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB07-00	36-FCA-SB08-00	36-FCA-SB09-00	36-FCA-SB10-00	36-FCA-SB11-00	36-FCA-SB12-00
DATE SAMPLED	02/22/95	02/27/95	02/22/95	02/22/95	02/23/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	420 U	400 U	440 U	400 U	420 U	390 U
BIS(2-CHLOROETHYL)ETHER	420 U	400 U	440 U	400 U	420 U	390 U
2-CHLOROPHENOL	420 U	400 U	440 U	400 U	420 U	390 U
1,3-DICHLOROBENZENE	420 U	400 U	440 U	400 U	420 U	390 U
1,4-DICHLOROBENZENE	420 U	400 U	440 U	400 U	420 U	390 U
1,2-DICHLOROBENZENE	420 U	400 U	440 U	400 U	420 U	390 U
2-METHYLPHENOL	420 U	400 U	440 U	400 U	420 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	420 U	400 U	440 U	400 U	420 U	390 U
4-METHYLPHENOL	420 U	400 U	440 U	400 U	420 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	420 U	400 U	440 U	400 U	420 U	390 U
HEXACHLOROETHANE	420 U	400 U	440 U	400 U	420 U	390 U
NITROBENZENE	420 U	400 U	440 U	400 U	420 U	390 U
ISOPHORONE	420 U	400 U	440 U	400 U	420 U	390 U
2-NITROPHENOL	420 U	400 U	440 U	400 U	420 U	390 U
2,4-DIMETHYLPHENOL	420 U	400 U	440 U	400 U	420 U	390 U
BIS(2-CHLOROETHOXY)METHANE	420 U	400 U	440 U	400 U	420 U	390 U
2,4-DICHLOROPHENOL	420 U	400 U	440 U	400 U	420 U	390 U
1,2,4-TRICHLOROBENZENE	420 U	400 U	440 U	400 U	420 U	390 U
NAPHTHALENE	420 U	400 U	440 U	400 U	420 U	390 U
4-CHLOROANILINE	420 U	400 UJ	440 U	400 U	420 U	390 U
HEXACHLOROBUTADIENE	420 U	400 U	440 U	400 U	420 U	390 U
4-CHLORO-3-METHYLPHENOL	420 U	400 U	440 U	400 U	420 U	390 U
2-METHYLNAPHTHALENE	420 U	400 U	440 U	400 U	420 U	390 U
HEXACHLOROCYCLOPENTADIENE	420 U	400 U	440 U	400 U	420 U	390 U
2,4,6-TRICHLOROPHENOL	420 U	400 U	440 U	400 U	420 U	390 U
2,4,5-TRICHLOROPHENOL	1100 U	1000 U	1100 U	1000 U	1000 U	980 U
2-CHLORONAPHTHALENE	420 U	400 U	440 U	400 U	420 U	390 U
2-NITROANILINE	1100 U	1000 U	1100 U	1000 U	1000 U	980 U
DIMETHYLPHTHALATE	420 U	400 U	440 U	400 U	420 U	390 U
ACENAPHTHYLENE	420 U	400 U	440 U	400 U	420 U	390 U
2,6-DINITROTOLUENE	420 U	400 U	440 U	400 U	420 U	390 U
3-NITROANILINE	1100 U	1000 U	1100 U	1000 U	1000 UJ	980 U
ACENAPHTHENE	420 U	400 U	440 U	400 U	420 U	390 U
2,4-DINITROPHENOL	1100 UJ	1000 U	1100 UJ	1000 U	1000 UJ	980 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB07-00	36-FCA-SB08-00	36-FCA-SB09-00	36-FCA-SB10-00	36-FCA-SB11-00	36-FCA-SB12-00
DATE SAMPLED	02/22/95	02/27/95	02/22/95	02/22/95	02/23/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	1100 U	1000 U	1100 U	1000 U	1000 UJ	980 U
DIBENZOFURAN	420 U	400 U	440 U	400 U	420 U	390 U
2,4-DINITROTOLUENE	420 U	400 U	440 U	400 U	420 U	390 U
DIETHYLPHTHALATE	420 U	400 U	440 U	400 U	420 U	390 U
4-CHLOROPHENYL-PHENYLETHER	420 U	400 U	440 U	400 U	420 U	390 U
FLUORENE	420 U	400 U	440 U	400 U	420 U	390 U
4-NITROANILINE	1100 U	1000 U	1100 U	1000 U	1000 R	980 U
4,6-DINITRO-2-METHYLPHENOL	1100 UJ	1000 U	1100 UJ	1000 U	1000 U	980 UJ
N-NITROSODIPHENYLAMINE (1)	420 U	400 U	440 U	400 U	420 U	390 U
4-BROMOPHENYL-PHENYLETHER	420 U	400 U	440 U	400 U	420 U	390 U
HEXACHLOROBENZENE	420 U	400 U	440 U	400 U	420 U	390 U
PENTACHLOROPHENOL	1100 U	1000 U	1100 U	1000 U	1000 U	980 U
PHENANTHRENE	420 U	400 U	440 U	400 U	420 U	390 U
ANTHRACENE	420 U	400 U	440 U	400 U	420 U	390 U
CARBAZOLE	420 U	400 U	440 U	400 U	420 U	390 U
DI-N-BUTYLPHTHALATE	420 U	470 U	440 U	400 U	420 U	390 U
FLUORANTHENE	420 U	400 U	440 U	400 U	420 U	390 U
PYRENE	420 U	400 UJ	440 U	400 U	420 U	390 U
BUTYLBENZYLPHTHALATE	420 U	400 UJ	440 U	400 U	420 U	390 U
3,3'-DICHLOROBENZIDINE	420 U	400 UJ	440 U	400 U	420 U	390 U
BENZO(A)ANTHRACENE	420 U	400 UJ	440 U	400 U	420 U	390 U
CHRYSENE	420 U	400 UJ	440 U	400 U	420 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	140 J	400 UJ	140 J	400 U	420 U	390 U
DI-N-OCTYL PHTHALATE	420 UJ	400 U	440 UJ	400 U	420 UJ	390 UJ
BENZO(B)FLUORANTHENE	420 U	400 U	440 U	400 U	420 U	390 U
BENZO(K)FLUORANTHENE	420 U	400 U	440 U	400 U	420 U	390 U
BENZO(A)PYRENE	420 U	400 U	440 U	400 U	420 U	390 U
INDENO(1,2,3-CD)PYRENE	420 U	400 U	440 U	400 U	420 U	390 U
DIBENZO(A,H)ANTHRACENE	420 U	400 U	440 U	400 U	420 U	390 U
BENZO(G,H,I)PERYLENE	420 U	400 U	440 U	400 U	420 U	390 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB07-00	36-FCA-SB08-00	36-FCA-SB09-00	36-FCA-SB10-00	36-FCA-SB11-00	36-FCA-SB12-00
DATE SAMPLED	02/22/95	02/27/95	02/22/95	02/22/95	02/23/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	2.1 UJ	2 UJ	2.3 UJ	2 UJ	2 UJ	1.9 UJ
BETA-BHC	2.1 U	2 UJ	2.3 U	2 UJ	2 UJ	1.9 U
DELTA-BHC	2.1 UJ	2 UJ	2.3 UJ	2 UJ	2 UJ	1.9 UJ
GAMMA-BHC (LINDANE)	2.1 UJ	2 UJ	2.3 UJ	2 UJ	2 UJ	1.9 UJ
HEPTACHLOR	2.1 U	2 UJ	2.3 U	2 UJ	2 UJ	1.9
ALDRIN	2.1 U	2 UJ	2.3 U	2 UJ	2 UJ	1.9 U
HEPTACHLOR EPOXIDE	2.1 U	2 UJ	2.3 U	2 UJ	2 UJ	10 J
ENDOSULFAN I	2.1 U	2 UJ	2.3 U	2 UJ	2 UJ	1.9 U
DIELDRIN	4.3 U	4 UJ	4.5 U	47 J	4.1 UJ	3.8 U
4,4'-DDE	11 J	4.8 J	4.5 UJ	150	4.1 UJ	3.8 J
ENDRIN	4.3 U	4 UJ	4.5 U	4 UJ	4.1 UJ	3.8 U
ENDOSULFAN II	4.3 U	4 UJ	4.5 U	4 UJ	4.1 UJ	3.8 U
4,4'-DDD	4.3 U	4 UJ	4.5 U	4 UJ	4.1 UJ	3.8 U
ENDOSULFAN SULFATE	4.3 U	4 UJ	4.5 U	4 UJ	4.1 UJ	3.8 U
4,4'-DDT	9.4	4.4 J	4.5 U	51 J	4.1 UJ	2.7 J
METHOXYCHLOR	21 U	20 UJ	23 U	20 UJ	20 UJ	19 U
ENDRIN KETONE	4.3 U	4 UJ	4.5 U	4 UJ	4.1 UJ	3.8 U
ENDRIN ALDEHYDE	4.3 U	4 UJ	4.5 U	4 UJ	4.1 UJ	3.8 U
ALPHA-CHLORDANE	2.1 U	2 UJ	2.3 U	2 UJ	2 UJ	50 J
GAMMA-CHLORDANE	2.1 U	2 UJ	2.3 U	2 UJ	2 UJ	37
TOXAPHENE	210 U	200 UJ	230 U	200 UJ	200 UJ	190 U
AROCLOR-1016	43 U	40 UJ	45 U	40 UJ	41 UJ	38 U
AROCLOR-1221	86 U	80 UJ	90 U	79 UJ	82 UJ	77 U
AROCLOR-1232	43 U	40 UJ	45 U	40 UJ	41 UJ	38 U
AROCLOR-1242	43 U	40 UJ	45 U	40 UJ	41 UJ	38 U
AROCLOR-1248	43 U	40 UJ	45 U	40 UJ	41 UJ	38 U
AROCLOR-1254	43 U	40 UJ	45 U	40 UJ	41 UJ	38 U
AROCLOR-1260	43 U	40 UJ	45 U	40 UJ	41 UJ	38 U



**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB13-00	36-FCA-SB14-00	36-FDA-SB01-00	36-FDA-SB02-00	36-FDA-SB03-00	36-FDA-SB04-00
DATE SAMPLED	02/27/95	02/23/95	02/23/95	02/27/95	02/22/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	13 U	13 U	13 U	12 U	11 U
BROMOMETHANE	12 U	13 U	13 U	13 U	12 U	11 U
VINYL CHLORIDE	12 U	13 U	13 U	13 U	12 U	11 U
CHLOROETHANE	12 U	13 U	13 U	13 U	12 U	11 U
METHYLENE CHLORIDE	12 U	13 U	13 U	13 U	12 U	11 U
ACETONE	12 U	13 U	13 U	13 U	28	11 U
CARBON DISULFIDE	12 U	13 U	13 U	13 U	12 U	11 U
1,1-DICHLOROETHENE	12 U	13 U	13 U	13 U	12 U	11 U
1,1-DICHLOROETHANE	12 U	13 U	13 U	13 U	12 U	11 U
1,2-DICHLOROETHENE (TOTAL)	12 U	13 U	13 U	13 U	12 U	11 U
CHLOROFORM	12 U	13 U	13 U	13 U	12 U	11 U
1,2-DICHLOROETHANE	12 U	13 U	13 U	13 U	12 U	11 U
2-BUTANONE	12 U	13 U	13 U	13 U	12 U	11 U
1,1,1-TRICHLOROETHANE	12 U	13 U	13 U	13 U	12 U	11 U
CARBON TETRACHLORIDE	12 U	13 U	13 U	13 U	12 U	11 U
BROMODICHLOROMETHANE	12 U	13 U	13 U	13 U	12 U	11 U
1,2-DICHLOROPROPANE	12 U	13 U	13 U	13 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	12 U	13 U	13 U	13 U	12 U	11 U
TRICHLOROETHENE	12 U	13 U	13 U	13 U	4 J	11 U
DIBROMOCHLOROMETHANE	12 U	13 U	13 U	13 U	12 U	11 U
1,1,2-TRICHLOROETHANE	12 U	13 U	13 U	13 U	12 U	11 U
BENZENE	12 U	13 U	13 U	13 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	12 U	13 U	13 U	13 U	12 U	11 U
BROMOFORM	12 U	13 U	13 U	13 U	12 U	11 U
4-METHYL-2-PENTANONE	12 U	13 U	13 U	13 U	12 U	11 U
2-HEXANONE	12 U	13 U	13 U	13 U	12 U	11 U
TETRACHLOROETHENE	12 U	13 U	13 U	13 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	12 U	13 U	13 U	13 U	12 U	11 U
TOLUENE	12 U	13 U	13 U	13 U	12 U	11 U
CHLOROBENZENE	12 U	13 U	13 U	13 U	12 U	11 U
ETHYLBENZENE	12 U	13 U	13 U	13 U	12 U	11 U
STYRENE	12 U	13 U	13 U	13 U	12 U	11 U
XYLENE (TOTAL)	12 U	13 U	13 U	13 U	12 U	11 U

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-FCA-SB13-00	36-FCA-SB14-00	36-FDA-SB01-00	36-FDA-SB02-00	36-FDA-SB03-00	36-FDA-SB04-00
DATE SAMPLED	02/27/95	02/23/95	02/23/95	02/27/95	02/22/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	400 U	410 U	420 U	430 U	410 U	370 R
BIS(2-CHLOROETHYL)ETHER	400 U	410 U	420 U	430 U	410 U	370 R
2-CHLOROPHENOL	400 U	410 U	420 U	430 U	410 U	370 R
1,3-DICHLOROBENZENE	400 U	410 U	420 U	430 U	410 U	370 R
1,4-DICHLOROBENZENE	400 U	410 U	420 U	430 U	410 U	370 R
1,2-DICHLOROBENZENE	400 U	410 U	420 U	430 U	410 U	370 R
2-METHYLPHENOL	400 U	410 U	420 U	430 U	410 U	370 R
2,2'-OXYBIS(1-CHLOROPROPANE)	400 U	410 U	420 U	430 U	410 U	370 R
4-METHYLPHENOL	400 U	410 U	420 U	430 U	410 U	370 R
N-NITROSO-DI-N-PROPYLAMINE	400 U	410 U	420 U	430 U	410 U	370 R
HEXACHLOROETHANE	400 U	410 U	420 U	430 U	410 U	370 R
NITROBENZENE	400 U	410 U	420 U	430 U	410 U	370 R
ISOPHORONE	400 U	410 U	420 U	430 U	410 U	370 R
2-NITROPHENOL	400 U	410 U	420 U	430 U	410 U	370 R
2,4-DIMETHYLPHENOL	400 U	410 U	420 U	430 U	410 U	370 R
BIS(2-CHLOROETHOXY)METHANE	400 U	410 U	420 U	430 U	410 U	370 R
2,4-DICHLOROPHENOL	400 U	410 U	420 U	430 U	410 U	370 R
1,2,4-TRICHLOROBENZENE	400 U	410 U	420 U	430 U	410 U	370 R
NAPHTHALENE	400 U	410 U	420 U	430 U	410 U	370 R
4-CHLOROANILINE	400 U	410 U	420 U	430 U	410 U	370 R
HEXACHLOROBUTADIENE	400 U	410 U	420 U	430 U	410 U	370 R
4-CHLORO-3-METHYLPHENOL	400 U	410 U	420 U	430 U	410 U	370 R
2-METHYLNAPHTHALENE	400 U	410 U	420 U	430 U	410 U	370 R
HEXACHLOROCYCLOPENTADIENE	400 UJ	410 U	420 U	430 UJ	410 U	370 R
2,4,6-TRICHLOROPHENOL	400 U	410 U	420 U	430 U	410 U	370 R
2,4,5-TRICHLOROPHENOL	1000 U	1000 U	1100 U	1100 U	1000 U	920 R
2-CHLORONAPHTHALENE	400 U	410 U	420 U	430 U	410 U	370 R
2-NITROANILINE	1000 U	1000 U	1100 U	1100 U	1000 U	920 R
DIMETHYLPHTHALATE	400 U	410 U	420 U	430 U	410 U	370 R
ACENAPHTHYLENE	400 U	410 U	420 U	430 U	410 U	370 R
2,6-DINITROTOLUENE	400 U	410 U	420 U	430 U	410 U	370 R
3-NITROANILINE	1000 U	1000 U	1100 U	1100 U	1000 U	920 R
ACENAPHTHENE	400 U	410 U	420 U	430 U	410 U	370 R
2,4-DINITROPHENOL	1000 U	1000 UJ	1100 U	1100 U	1000 U	920 R

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB13-00	36-FCA-SB14-00	36-FDA-SB01-00	36-FDA-SB02-00	36-FDA-SB03-00	36-FDA-SB04-00
DATE SAMPLED	02/27/95	02/23/95	02/23/95	02/27/95	02/22/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	1000 U	1000 U	1100 U	1100 U	1000 U	920 R
DIBENZOFURAN	400 U	410 U	420 U	430 U	410 U	370 R
2,4-DINITROTOLUENE	400 U	410 U	420 U	430 U	410 U	370 R
DIETHYLPHTHALATE	400 U	410 U	420 U	430 U	410 U	370 R
4-CHLOROPHENYL-PHENYLETHER	400 U	410 U	420 U	430 U	410 U	370 R
FLUORENE	400 U	410 U	420 U	430 U	410 U	370 R
4-NITROANILINE	1000 U	1000 U	1100 U	1100 U	1000 U	920 R
4,6-DINITRO-2-METHYLPHENOL	1000 U	1000 U	1100 U	1100 UJ	1000 U	920 R
N-NITROSODIPHENYLAMINE (1)	400 U	410 U	420 U	430 U	410 U	370 R
4-BROMOPHENYL-PHENYLETHER	400 U	410 U	420 U	430 U	410 U	370 R
HEXACHLOROBENZENE	400 U	410 U	420 U	430 U	410 U	370 R
PENTACHLOROPHENOL	1000 U	1000 U	1100 U	1100 U	1000 U	920 R
PHENANTHRENE	400 U	410 U	420 U	430 U	410 U	370 R
ANTHRACENE	400 U	410 U	420 U	430 U	410 U	370 R
CARBAZOLE	400 U	410 U	420 U	430 U	410 U	370 R
DI-N-BUTYLPHTHALATE	760 U	410 U	420 U	2300 U	410 U	110 B
FLUORANTHENE	400 U	410 U	420 U	430 U	410 U	370 R
PYRENE	400 U	410 U	420 U	430 U	410 U	370 R
BUTYLBENZYLPHTHALATE	400 U	410 U	420 U	430 U	410 U	370 R
3,3'-DICHLOROBENZIDINE	400 U	410 U	420 U	430 U	410 U	370 R
BENZO(A)ANTHRACENE	400 U	410 U	420 U	430 U	410 U	370 R
CHRYSENE	400 U	410 U	420 U	430 U	410 U	370 R
BIS(2-ETHYLHEXYL)PHTHALATE	400 U	410 U	420 U	430 U	250 J	370 R
DI-N-OCTYL PHTHALATE	400 U	410 U	420 U	430 UJ	410 U	370 R
BENZO(B)FLUORANTHENE	400 U	410 U	420 U	430 U	410 U	370 R
BENZO(K)FLUORANTHENE	400 U	410 U	420 U	430 U	410 U	370 R
BENZO(A)PYRENE	400 U	410 U	420 U	430 U	410 U	370 R
INDENO(1,2,3-CD)PYRENE	400 U	410 U	420 U	430 U	410 U	370 R
DIBENZO(A,H)ANTHRACENE	400 U	410 U	420 U	430 U	410 U	370 R
BENZO(G,H,I)PERYLENE	400 U	410 U	420 U	430 U	410 U	370 R

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB13-00	36-FCA-SB14-00	36-FDA-SB01-00	36-FDA-SB02-00	36-FDA-SB03-00	36-FDA-SB04-00
DATE SAMPLED	02/27/95	02/23/95	02/23/95	02/27/95	02/22/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	2 U	2.1 UJ	2.1 UJ	2.2 U	2.1 UJ	1.8 UJ
BETA-BHC	2 U	2.1 U	2.1 U	2.2 U	2.1 U	1.8 U
DELTA-BHC	2 U	2.1 UJ	2.1 U	2.2 U	2.1 UJ	1.8 U
GAMMA-BHC (LINDANE)	2 U	2.1 UJ	2.1 U	2.2 U	2.1 UJ	1.8 U
HEPTACHLOR	2 U	2.1 U	2.1 U	2.2 UJ	2.1 U	1.8 U
ALDRIN	2 U	2.1 U	2.1 U	2.2 U	2.1 U	1.8 U
HEPTACHLOR EPOXIDE	2 U	2.1 U	2.1 U	2.2 U	2.1 U	1.8 U
ENDOSULFAN I	2 U	2.1 U	2.1 U	2.2 U	2.1 U	1.8 U
DIELDRIN	4 U	4.3 U	4.2 U	4.3 U	27	3.7 U
4,4'-DDE	4 U	5.1 J	100 J	3.5 J	50 J	2.2 J
ENDRIN	4 U	4.3 U	4.2 U	4.3 U	4.2 U	3.7 U
ENDOSULFAN II	4 U	4.3 U	4.2 U	4.3 U	4.2 U	3.7 U
4,4'-DDD	4 U	4.3 U	13 J	4.3 U	43 J	3.7 U
ENDOSULFAN SULFATE	4 U	4.3 U	4.2 U	4.3 U	4.2 U	3.7 U
4,4'-DDT	4 U	6.8 J	49 J	3.9 J	18 J	5.9
METHOXYCHLOR	20 UJ	21 U	21 U	22 UJ	21 U	18 U
ENDRIN KETONE	4 U	4.3 U	4.2 U	4.3 U	4.2 U	3.7 U
ENDRIN ALDEHYDE	4 U	4.3 U	4.2 U	4.3 U	4.2 U	3.7 U
ALPHA-CHLORDANE	2 U	2.1 U	1.7 J	2.2 U	2.1 U	1.8 U
GAMMA-CHLORDANE	2 U	2.1 U	1.3 J	2.2 U	2.1 U	1.8 U
TOXAPHENE	200 U	210 U	210 U	220 U	210 U	180 U
AROCLOR-1016	40 U	43 U	42 U	43 U	42 U	37 U
AROCLOR-1221	81 U	85 U	84 U	87 U	83 U	74 U
AROCLOR-1232	40 U	43 U	42 U	43 U	42 U	37 U
AROCLOR-1242	40 U	43 U	42 U	43 U	42 U	37 U
AROCLOR-1248	40 U	43 U	42 U	43 U	42 U	37 U
AROCLOR-1254	40 U	43 U	42 U	43 U	42 U	37 U
AROCLOR-1260	40 U	43 U	42 U	43 U	42 U	37 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FDA-SB05-00	36-FDA-SB06-00	36-GS-SB01-00	36-GS-SB02-00	36-GS-SB03-00	36-GS-SB04-00
DATE SAMPLED	02/27/95	02/25/95	05/06/95	05/06/95	05/07/95	05/06/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	11 U	12 U	11 U	11 U	11 U	11 U
BROMOMETHANE	11 U	12 U	11 U	11 U	11 U	11 U
VINYL CHLORIDE	11 U	12 U	11 U	11 U	11 U	11 U
CHLOROETHANE	11 U	12 U	11 U	11 U	11 U	11 U
METHYLENE CHLORIDE	11 U	12 U	11 U	11 U	11 U	11 U
ACETONE	11 U	12 U	11 U	11 U	11 U	11 U
CARBON DISULFIDE	11 U	12 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	11 U	12 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	11 U	12 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHENE (TOTAL)	11 U	12 U	11 U	11 U	11 U	11 U
CHLOROFORM	11 U	12 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	11 U	12 U	11 U	11 U	11 U	11 U
2-BUTANONE	11 U	12 U	11 U	11 U	11 U	11 U
1,1,1-TRICHLOROETHANE	11 U	12 U	11 U	11 U	11 U	11 U
CARBON TETRACHLORIDE	11 U	12 U	11 U	11 U	11 U	11 U
BROMODICHLOROMETHANE	11 U	12 U	11 U	11 U	11 U	11 U
1,2-DICHLOROPROPANE	11 U	12 U	11 U	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	11 U	12 U	11 U	11 U	11 U	11 U
TRICHLOROETHENE	11 U	12 U	11 U	11 U	11 U	11 U
DIBROMOCHLOROMETHANE	11 U	12 U	11 U	11 U	11 U	11 U
1,1,2-TRICHLOROETHANE	11 U	12 U	11 U	11 U	11 U	11 U
BENZENE	11 U	12 U	11 U	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	11 U	12 U	11 U	11 U	11 U	11 U
BROMOFORM	11 U	12 U	11 U	11 U	11 U	11 U
4-METHYL-2-PENTANONE	11 U	12 U	11 U	11 U	11 UJ	11 UJ
2-HEXANONE	11 U	12 U	11 U	11 U	11 UJ	11 UJ
TETRACHLOROETHENE	11 U	12 U	11 U	11 U	11 UJ	11 UJ
1,1,2,2-TETRACHLOROETHANE	11 U	12 U	11 U	11 U	11 UJ	11 UJ
TOLUENE	11 U	12 U	11 U	11 U	11 UJ	11 UJ
CHLOROBENZENE	11 U	12 U	11 U	11 U	11 UJ	11 UJ
ETHYLBENZENE	11 U	12 U	11 U	11 U	11 UJ	11 UJ
STYRENE	11 U	12 U	11 U	11 U	39 J	11 UJ
XYLENE (TOTAL)	11 U	12 U	11 U	11 U	11 UJ	11 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FDA-SB05-00	36-FDA-SB06-00	36-GS-SB01-00	36-GS-SB02-00	36-GS-SB03-00	36-GS-SB04-00
DATE SAMPLED	02/27/95	02/25/95	05/06/95	05/06/95	05/07/95	05/06/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	370 U	390 U	370 U	350 U	360 U	360 U
BIS(2-CHLOROETHYL)ETHER	370 U	390 U	370 U	350 U	360 U	360 U
2-CHLOROPHENOL	370 U	390 U	370 U	350 U	360 U	360 U
1,3-DICHLOROBENZENE	370 U	390 U	370 U	350 U	360 U	360 U
1,4-DICHLOROBENZENE	370 U	390 U	370 U	350 U	360 U	360 U
1,2-DICHLOROBENZENE	370 U	390 U	370 U	350 U	360 U	360 U
2-METHYLPHENOL	370 U	390 U	370 U	350 U	360 U	360 U
2,2-OXYBIS(1-CHLOROPROPANE)	370 U	390 U	370 U	350 U	360 U	360 U
4-METHYLPHENOL	370 U	390 U	370 U	350 U	360 U	360 U
N-NITROSO-DI-N-PROPYLAMINE	370 U	390 U	370 U	350 U	360 U	360 U
HEXACHLOROETHANE	370 U	390 U	370 U	350 U	360 U	360 U
NITROBENZENE	370 U	390 U	370 U	350 U	360 U	360 U
ISOPHORONE	370 U	390 U	370 U	350 U	360 U	360 U
2-NITROPHENOL	370 U	390 U	370 U	350 U	360 U	360 U
2,4-DIMETHYLPHENOL	370 U	390 U	370 U	350 U	360 U	360 U
BIS(2-CHLOROETHOXY)METHANE	370 U	390 U	370 U	350 U	360 U	360 U
2,4-DICHLOROPHENOL	370 U	390 U	370 U	350 U	360 U	360 U
1,2,4-TRICHLOROBENZENE	370 U	390 U	370 U	350 U	360 U	360 U
NAPHTHALENE	370 U	390 U	370 U	350 U	360 U	360 U
4-CHLOROANILINE	370 U	390 U	370 U	350 U	360 U	360 U
HEXACHLOROBUTADIENE	370 U	390 U	370 U	350 U	360 U	360 U
4-CHLORO-3-METHYLPHENOL	370 U	390 U	370 U	350 U	360 U	360 U
2-METHYLNAPHTHALENE	370 U	390 U	370 U	350 U	360 U	360 U
HEXACHLOROCYCLOPENTADIENE	370 U	390 U	370 U	350 U	360 U	360 U
2,4,6-TRICHLOROPHENOL	370 U	390 U	370 U	350 U	360 U	360 U
2,4,5-TRICHLOROPHENOL	920 U	980 U	920 U	880 U	900 U	900 U
2-CHLORONAPHTHALENE	370 U	390 U	370 U	350 U	360 U	360 U
2-NITROANILINE	920 U	980 U	920 U	880 U	900 U	900 U
DIMETHYLPHTHALATE	370 U	390 U	370 U	350 U	360 U	360 U
ACENAPHTHYLENE	370 U	390 U	370 U	350 U	360 U	360 U
2,6-DINITROTOLUENE	370 U	390 U	370 U	350 U	360 U	360 U
3-NITROANILINE	920 U	980 U	920 U	880 U	900 U	900 U
ACENAPHTHENE	370 U	390 U	370 U	350 U	360 U	360 U
2,4-DINITROPHENOL	920 U	980 U	920 U	880 U	900 U	900 U

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-FDA-SB05-00	36-FDA-SB06-00	36-GS-SB01-00	36-GS-SB02-00	36-GS-SB03-00	36-GS-SB04-00
DATE SAMPLED	02/27/95	02/25/95	05/06/95	05/06/95	05/07/95	05/08/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	920 U	980 U	920 U	880 U	900 U	900 U
DIBENZOFURAN	370 U	390 U	370 U	350 U	360 U	360 U
2,4-DINITROTOLUENE	370 U	390 U	370 U	350 U	360 U	360 U
DIETHYLPHTHALATE	370 U	390 U	370 U	350 U	360 U	360 U
4-CHLOROPHENYL-PHENYLETHER	370 U	390 U	370 U	350 U	360 U	360 U
FLUORENE	370 U	390 U	370 U	350 U	360 U	360 U
4-NITROANILINE	920 U	980 U	920 U	880 U	900 U	900 U
4,6-DINITRO-2-METHYLPHENOL	920 U	980 U	920 U	880 U	900 U	900 U
N-NITROSODIPHENYLAMINE (1)	370 U	390 U	370 U	350 U	360 U	360 U
4-BROMOPHENYL-PHENYLETHER	370 U	390 U	370 U	350 U	360 U	360 U
HEXACHLOROBENZENE	370 U	390 U	370 U	350 U	360 U	360 U
PENTACHLOROPHENOL	920 U	980 U	920 U	880 U	900 U	900 U
PHENANTHRENE	370 U	390 U	370 U	350 U	360 U	360 U
ANTHRACENE	370 U	390 U	370 U	350 U	360 U	360 U
CARBAZOLE	370 U	390 U	370 U	350 U	360 U	360 U
DI-N-BUTYLPHTHALATE	370 U	390 U	450 U	350 U	400 U	450 U
FLUORANTHENE	370 U	390 U	370 U	350 U	360 U	360 U
PYRENE	370 U	390 U	370 U	350 U	360 U	360 U
BUTYLBENZYLPHTHALATE	370 U	390 U	370 U	350 U	360 U	360 U
3,3'-DICHLOROBENZIDINE	370 U	390 U	370 U	350 U	360 U	360 U
BENZO(A)ANTHRACENE	370 U	390 U	370 U	350 U	360 U	360 U
CHRYSENE	370 U	390 U	370 U	350 U	360 U	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	370 U	390 U	370 U	350 U	360 U	360 U
DI-N-OCTYL PHTHALATE	370 U	390 U	370 U	350 U	360 U	360 U
BENZO(B)FLUORANTHENE	370 U	390 U	370 U	350 U	360 U	360 U
BENZO(K)FLUORANTHENE	370 U	390 U	370 U	350 U	360 U	360 U
BENZO(A)PYRENE	370 U	390 U	370 U	350 U	360 U	360 U
INDENO(1,2,3-CD)PYRENE	370 U	390 U	370 U	350 U	360 U	360 U
DIBENZO(A,H)ANTHRACENE	370 U	390 U	370 U	350 U	360 U	360 U
BENZO(G,H,I)PERYLENE	370 U	390 U	370 U	350 U	360 U	360 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FDA-SB05-00	36-FDA-SB06-00	36-GS-SB01-00	36-GS-SB02-00	36-GS-SB03-00	36-GS-SB04-00
DATE SAMPLED	02/27/95	02/25/95	05/06/95	05/06/95	05/07/95	05/06/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	1.8 UJ	2 UJ	NA	NA	NA	NA
BETA-BHC	1.8 UJ	2 U	NA	NA	NA	NA
DELTA-BHC	1.8 UJ	2 U	NA	NA	NA	NA
GAMMA-BHC (LINDANE)	1.8 UJ	2 U	NA	NA	NA	NA
HEPTACHLOR	1.8 UJ	2 U	NA	NA	NA	NA
ALDRIN	1.8 UJ	2 U	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	1.8 UJ	2 U	NA	NA	NA	NA
ENDOSULFAN I	1.8 UJ	2 U	NA	NA	NA	NA
DIELDRIN	3.7 UJ	2 J	NA	NA	NA	NA
4,4'-DDE	3.7 UJ	6.7	NA	NA	NA	NA
ENDRIN	3.7 UJ	3.9 U	NA	NA	NA	NA
ENDOSULFAN II	3.7 UJ	3.9 U	NA	NA	NA	NA
4,4'-DDD	3.7 UJ	3.5 J	NA	NA	NA	NA
ENDOSULFAN SULFATE	3.7 UJ	3.9 U	NA	NA	NA	NA
4,4'-DDT	1.8 J	7.1	NA	NA	NA	NA
METHOXYCHLOR	18 UJ	20 U	NA	NA	NA	NA
ENDRIN KETONE	3.7 UJ	3.9 U	NA	NA	NA	NA
ENDRIN ALDEHYDE	3.7 UJ	3.9 U	NA	NA	NA	NA
ALPHA-CHLORDANE	1.8 UJ	2 U	NA	NA	NA	NA
GAMMA-CHLORDANE	1.8 UJ	2 U	NA	NA	NA	NA
TOXAPHENE	180 UJ	200 U	NA	NA	NA	NA
AROCLOR-1016	37 UJ	39 U	NA	NA	NA	NA
AROCLOR-1221	73 UJ	78 U	NA	NA	NA	NA
AROCLOR-1232	37 UJ	39 U	NA	NA	NA	NA
AROCLOR-1242	37 UJ	39 U	NA	NA	NA	NA
AROCLOR-1248	37 UJ	39 U	NA	NA	NA	NA
AROCLOR-1254	37 UJ	39 U	NA	NA	NA	NA
AROCLOR-1260	37 UJ	39 U	NA	NA	NA	NA



**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GS-SB05-00	36-GS-SB06-00	36-GW07-00	36-GW09-00	36-GW10-00	36-GW11-00
DATE SAMPLED	05/06/95	05/07/95	03/07/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	11 U	12 U	16 U	12 U	12 U
BROMOMETHANE	12 U	11 U	12 U	16 U	12 U	12 U
VINYL CHLORIDE	12 U	11 U	12 U	16 U	12 U	12 U
CHLOROETHANE	12 U	11 U	12 U	16 U	12 U	12 U
METHYLENE CHLORIDE	12 U	11 U	12 U	16 U	12 U	12 U
ACETONE	12 U	11 U	12 U	16 U	12 U	12 U
CARBON DISULFIDE	12 U	11 U	12 U	16 U	12 U	12 U
1,1-DICHLOROETHENE	12 U	11 U	12 U	16 U	12 U	12 U
1,1-DICHLOROETHANE	12 U	11 U	12 U	16 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	12 U	11 U	12 U	16 U	12 U	12 U
CHLOROFORM	12 U	11 U	12 U	16 U	12 U	12 U
1,2-DICHLOROETHANE	12 U	11 U	12 U	16 U	12 U	12 U
2-BUTANONE	12 U	11 U	12 U	16 U	12 U	12 U
1,1,1-TRICHLOROETHANE	12 U	11 U	12 U	16 U	12 U	12 U
CARBON TETRACHLORIDE	12 U	11 U	12 U	16 U	12 U	12 U
BROMODICHLOROMETHANE	12 U	11 U	12 U	16 U	12 U	12 U
1,2-DICHLOROPROPANE	12 U	11 U	12 U	16 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	12 U	11 U	12 U	16 U	12 U	12 U
TRICHLOROETHENE	12 U	11 U	12 U	16 U	12 U	12 U
DIBROMOCHLOROMETHANE	12 U	11 U	12 U	16 U	12 U	12 U
1,1,2-TRICHLOROETHANE	12 U	11 U	12 U	16 U	12 U	12 U
BENZENE	12 U	11 U	12 U	16 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	12 U	11 U	12 U	16 U	12 U	12 U
BROMOFORM	12 U	11 U	12 U	16 U	12 U	12 U
4-METHYL-2-PENTANONE	12 U	11 U	12 U	16 UJ	12 U	12 U
2-HEXANONE	12 U	11 U	12 U	16 UJ	12 U	12 U
TETRACHLOROETHENE	12 U	11 U	12 U	16 UJ	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	12 U	11 U	12 U	16 UJ	12 U	12 U
TOLUENE	12 U	11 U	12 U	16 UJ	12 U	12 U
CHLOROBENZENE	12 U	11 U	12 U	16 UJ	12 U	12 U
ETHYLBENZENE	12 U	11 U	12 U	16 UJ	12 U	12 U
STYRENE	12 U	11 U	12 U	16 UJ	12 U	12 U
XYLENE (TOTAL)	12 U	11 U	12 U	16 UJ	12 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GS-SB05-00	36-GS-SB06-00	36-GW07-00	36-GW09-00	36-GW10-00	36-GW11-00
DATE SAMPLED	05/06/95	05/07/95	03/07/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	380 U	350 U	390 U	510 U	390 U	400 U
BIS(2-CHLOROETHYL)ETHER	380 U	350 U	390 U	510 U	390 U	400 U
2-CHLOROPHENOL	380 U	350 U	390 U	510 U	390 U	400 U
1,3-DICHLOROBENZENE	380 U	350 U	390 U	510 U	390 U	400 U
1,4-DICHLOROBENZENE	380 U	350 U	390 U	510 U	390 U	400 U
1,2-DICHLOROBENZENE	380 U	350 U	390 U	510 U	390 U	400 U
2-METHYLPHENOL	380 U	350 U	390 U	510 U	390 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	380 U	350 U	390 U	510 U	390 U	400 U
4-METHYLPHENOL	380 U	350 U	390 U	510 U	390 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	380 U	350 U	390 U	510 U	390 U	400 U
HEXACHLOROETHANE	380 U	350 U	390 U	510 U	390 U	400 U
NITROBENZENE	380 U	350 U	390 U	510 U	390 U	400 U
ISOPHORONE	380 U	350 U	390 U	510 U	390 U	400 U
2-NITROPHENOL	380 U	350 U	390 U	510 U	390 U	400 U
2,4-DIMETHYLPHENOL	380 U	350 U	390 U	510 U	390 U	400 U
BIS(2-CHLOROETHOXY)METHANE	380 U	350 U	390 U	510 U	390 U	400 U
2,4-DICHLOROPHENOL	380 U	350 U	390 U	510 U	390 U	400 U
1,2,4-TRICHLOROBENZENE	380 U	350 U	390 U	510 U	390 U	400 U
NAPHTHALENE	380 U	350 U	390 U	510 U	390 U	400 U
4-CHLOROANILINE	380 U	350 U	390 U	510 U	390 U	400 U
HEXACHLOROBUTADIENE	380 U	350 U	390 U	510 U	390 U	400 U
4-CHLORO-3-METHYLPHENOL	380 U	350 U	390 U	510 U	390 U	400 U
2-METHYLNAPHTHALENE	380 U	350 U	390 U	510 U	390 U	400 U
HEXACHLOROCYCLOPENTADIENE	380 U	350 U	390 U	510 U	390 U	400 U
2,4,6-TRICHLOROPHENOL	380 U	350 U	390 U	510 U	390 U	400 U
2,4,5-TRICHLOROPHENOL	960 U	880 U	980 U	1300 U	980 U	1000 U
2-CHLORONAPHTHALENE	380 U	350 U	390 U	510 U	390 U	400 U
2-NITROANILINE	960 U	880 U	980 U	1300 U	980 U	1000 U
DIMETHYLPHTHALATE	380 U	350 U	390 U	510 U	390 U	400 U
ACENAPHTHYLENE	380 U	350 U	390 U	510 U	390 U	400 U
2,6-DINITROTOLUENE	380 U	350 U	390 U	510 U	390 U	400 U
3-NITROANILINE	960 U	880 U	980 U	1300 U	980 U	1000 U
ACENAPHTHENE	380 U	350 U	390 U	510 U	390 U	400 U
2,4-DINITROPHENOL	960 U	880 U	980 U	1300 U	980 U	1000 U

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-GS-SB05-00	36-GS-SB06-00	36-GW07-00	36-GW09-00	36-GW10-00	36-GW11-00
DATE SAMPLED	05/06/95	05/07/95	03/07/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	960 U	880 U	980 U	1300 U	980 U	1000 U
DIBENZOFURAN	380 U	350 U	390 U	510 U	390 U	400 U
2,4-DINITROTOLUENE	380 U	350 U	390 U	510 U	390 U	400 U
DIETHYLPHTHALATE	380 U	350 U	390 U	510 U	390 U	400 U
4-CHLOROPHENYL-PHENYLETHER	380 U	350 U	390 U	510 U	390 U	400 U
FLUORENE	380 U	350 U	390 U	510 U	390 U	400 U
4-NITROANILINE	960 U	880 U	980 U	1300 U	980 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	960 U	880 U	980 U	1300 U	980 U	1000 U
N-NITROSODIPHENYLAMINE (1)	380 U	350 U	390 U	510 U	390 U	400 U
4-BROMOPHENYL-PHENYLETHER	380 U	350 U	390 U	510 U	390 U	400 U
HEXACHLOROBENZENE	380 U	350 U	390 U	510 U	390 U	400 U
PENTACHLOROPHENOL	960 U	880 U	980 U	1300 U	980 U	1000 U
PHENANTHRENE	380 U	350 U	390 U	510 U	390 U	400 U
ANTHRACENE	380 U	350 U	390 U	510 U	390 U	400 U
CARBAZOLE	380 U	350 U	390 U	510 U	390 U	400 U
DI-N-BUTYLPHTHALATE	380 U	410 U	390 U	510 U	390 U	1400 U
FLUORANTHENE	380 U	350 U	390 U	510 U	390 U	400 U
PYRENE	380 U	350 U	390 U	510 U	390 U	400 U
BUTYLBENZYLPHTHALATE	380 U	350 U	390 U	510 U	390 U	400 U
3,3'-DICHLOROBENZIDINE	380 U	350 U	390 U	510 U	390 U	400 U
BENZO(A)ANTHRACENE	380 U	350 U	390 U	510 U	390 U	400 U
CHRYSENE	380 U	350 U	390 U	510 U	390 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	380 U	350 U	360 J	160 J	390 U	400 U
DI-N-OCTYL PHTHALATE	380 U	350 U	390 U	510 U	390 U	400 U
BENZO(B)FLUORANTHENE	380 U	350 U	390 U	510 U	390 U	400 U
BENZO(K)FLUORANTHENE	380 U	350 U	390 U	510 U	390 U	400 U
BENZO(A)PYRENE	380 U	350 U	390 U	510 U	390 U	400 U
INDENO(1,2,3-CD)PYRENE	380 U	350 U	390 U	510 U	390 U	400 U
DIBENZO(A,H)ANTHRACENE	380 U	350 U	390 U	510 U	390 U	400 U
BENZO(G,H,I)PERYLENE	380 U	350 U	390 U	510 U	390 U	400 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GS-SB05-00	36-GS-SB06-00	36-GW07-00	36-GW09-00	36-GW10-00	36-GW11-00
DATE SAMPLED	05/06/95	05/07/95	03/07/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	NA	NA	2 U	2.6 UJ	2 U	2 UJ
BETA-BHC	NA	NA	2 U	2.6 UJ	2 U	2 UJ
DELTA-BHC	NA	NA	2 U	2.6 UJ	2 U	2 UJ
GAMMA-BHC (LINDANE)	NA	NA	2 U	2.6 UJ	2 U	2 UJ
HEPTACHLOR	NA	NA	2 U	2.6 UJ	2 U	2 UJ
ALDRIN	NA	NA	2 U	2.6 UJ	2 U	2 UJ
HEPTACHLOR EPOXIDE	NA	NA	2 U	2.6 UJ	2 U	2 UJ
ENDOSULFAN I	NA	NA	2 U	2.6 UJ	2 U	2 UJ
DIELDRIN	NA	NA	3.9 U	5.2 UJ	3.9 U	4 UJ
4,4'-DDE	NA	NA	13	10 J	3.9 U	30 J
ENDRIN	NA	NA	3.9 U	5.2 UJ	3.9 U	4 UJ
ENDOSULFAN II	NA	NA	3.9 U	5.2 UJ	3.9 U	4 UJ
4,4'-DDD	NA	NA	3.9 U	3.7 J	3.9 U	15 J
ENDOSULFAN SULFATE	NA	NA	3.9 U	5.2 UJ	3.9 U	4 UJ
4,4'-DDT	NA	NA	5.1	5.2 UJ	3.9 U	18 J
METHOXYCHLOR	NA	NA	20 U	26 UJ	20 U	20 UJ
ENDRIN KETONE	NA	NA	3.9 U	5.2 UJ	3.9 U	4 UJ
ENDRIN ALDEHYDE	NA	NA	3.9 U	5.2 UJ	3.9 U	4 UJ
ALPHA-CHLORDANE	NA	NA	2 U	2.6 UJ	2 U	1.2 J
GAMMA-CHLORDANE	NA	NA	2 U	2.6 UJ	2 U	1.2 J
TOXAPHENE	NA	NA	200 U	260 UJ	200 U	200 UJ
AROCLOR-1016	NA	NA	39 U	52 UJ	39 U	40 UJ
AROCLOR-1221	NA	NA	79 U	100 UJ	79 U	80 UJ
AROCLOR-1232	NA	NA	39 U	52 UJ	39 U	40 UJ
AROCLOR-1242	NA	NA	39 U	52 UJ	39 U	40 UJ
AROCLOR-1248	NA	NA	39 U	52 UJ	39 U	40 UJ
AROCLOR-1254	NA	NA	39 U	52 UJ	39 U	40 UJ
AROCLOR-1260	NA	NA	39 U	52 UJ	39 U	40 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW12-00	36-GW13-00	36-GW14-00	36-OA-SB01-00	36-OA-SB01A-00	36-OA-SB01B-00
DATE SAMPLED	04/23/95	04/24/95	04/24/95	02/22/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	11 U	11 U	10 U	12 U	12 U	12 U
BROMOMETHANE	11 U	11 U	10 U	12 U	12 U	12 U
VINYL CHLORIDE	11 U	11 U	10 U	12 U	12 U	12 U
CHLOROETHANE	11 U	11 U	10 U	12 U	12 U	12 U
METHYLENE CHLORIDE	11 U	11 U	10 U	12 U	12 U	12 U
ACETONE	11 U	11 U	10 U	12 U	12 U	12 U
CARBON DISULFIDE	11 U	11 U	10 U	12 U	12 U	12 U
1,1-DICHLOROETHENE	11 U	11 U	10 U	12 U	12 U	12 U
1,1-DICHLOROETHANE	11 U	11 U	10 U	12 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	11 U	11 U	10 U	12 U	12 U	12 U
CHLOROFORM	11 U	11 U	10 U	12 U	12 U	12 U
1,2-DICHLOROETHANE	11 U	11 U	10 U	12 U	12 U	12 U
2-BUTANONE	11 U	11 U	10 U	12 U	12 U	12 U
1,1,1-TRICHLOROETHANE	11 U	11 U	10 U	12 U	12 U	12 U
CARBON TETRACHLORIDE	11 U	11 U	10 U	12 U	12 U	12 U
BROMODICHLOROMETHANE	11 U	11 U	10 U	12 U	12 U	12 U
1,2-DICHLOROPROPANE	11 U	11 U	10 U	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	11 U	11 U	10 U	12 U	12 U	12 U
TRICHLOROETHENE	11 U	11 U	10 U	12 U	12 U	12 U
DIBROMOCHLOROMETHANE	11 U	11 U	10 U	12 U	12 U	12 U
1,1,2-TRICHLOROETHANE	11 U	11 U	10 U	12 U	12 U	12 U
BENZENE	11 U	11 U	10 U	12 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	11 U	11 U	10 U	12 U	12 U	12 U
BROMOFORM	11 U	11 U	10 U	12 U	12 U	12 U
4-METHYL-2-PENTANONE	11 U	11 U	10 U	12 U	12 UJ	12 U
2-HEXANONE	11 U	11 U	10 U	12 U	12 UJ	12 U
TETRACHLOROETHENE	3 J	2 J	2 J	12 U	12 UJ	12 U
1,1,2,2-TETRACHLOROETHANE	11 U	11 U	10 U	12 U	12 UJ	12 U
TOLUENE	11 U	11 U	10 U	12 U	12 UJ	12 U
CHLOROBENZENE	11 U	11 U	10 U	12 U	12 UJ	12 U
ETHYLBENZENE	11 U	11 U	10 U	12 U	12 UJ	12 U
STYRENE	11 U	11 U	10 U	12 U	12 UJ	12 U
XYLENE (TOTAL)	11 U	11 U	10 U	12 U	12 UJ	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW12-00	36-GW13-00	36-GW14-00	36-OA-SB01-00	36-OA-SB01A-00	36-OA-SB01B-00
DATE SAMPLED	04/23/95	04/24/95	04/24/95	02/22/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	NA	NA	NA	400 U	400 U	400 U
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	400 U	400 U	400 U
2-CHLOROPHENOL	NA	NA	NA	400 U	400 U	400 U
1,3-DICHLOROBENZENE	NA	NA	NA	400 U	400 U	400 U
1,4-DICHLOROBENZENE	NA	NA	NA	400 U	400 U	400 U
1,2-DICHLOROBENZENE	NA	NA	NA	400 U	400 U	400 U
2-METHYLPHENOL	NA	NA	NA	400 U	400 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA	NA	400 U	400 U	400 U
4-METHYLPHENOL	NA	NA	NA	400 U	400 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	400 U	400 U	400 U
HEXACHLOROETHANE	NA	NA	NA	400 U	400 U	400 U
NITROBENZENE	NA	NA	NA	400 U	400 U	400 U
ISOPHORONE	NA	NA	NA	400 U	400 U	400 U
2-NITROPHENOL	NA	NA	NA	400 U	400 U	400 U
2,4-DIMETHYLPHENOL	NA	NA	NA	400 U	400 U	400 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	400 U	400 U	400 U
2,4-DICHLOROPHENOL	NA	NA	NA	400 U	400 U	400 U
1,2,4-TRICHLOROBENZENE	NA	NA	NA	400 U	400 U	400 U
NAPHTHALENE	NA	NA	NA	400 U	48 J	400 U
4-CHLOROANILINE	NA	NA	NA	400 U	400 U	400 U
HEXACHLOROBUTADIENE	NA	NA	NA	400 U	400 U	400 U
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	400 U	400 U	400 U
2-METHYLNAPHTHALENE	NA	NA	NA	400 U	82 J	400 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	400 U	400 U	400 U
2,4,6-TRICHLOROPHENOL	NA	NA	NA	400 U	400 U	400 U
2,4,5-TRICHLOROPHENOL	NA	NA	NA	1000 U	990 U	1000 U
2-CHLORONAPHTHALENE	NA	NA	NA	400 U	400 U	400 U
2-NITROANILINE	NA	NA	NA	1000 U	990 U	1000 U
DIMETHYLPHTHALATE	NA	NA	NA	400 U	400 U	400 U
ACENAPHTHYLENE	NA	NA	NA	400 U	400 U	400 U
2,6-DINITROTOLUENE	NA	NA	NA	400 U	400 U	400 U
3-NITROANILINE	NA	NA	NA	1000 U	990 U	1000 U
ACENAPHTHENE	NA	NA	NA	400 U	400 U	400 U
2,4-DINITROPHENOL	NA	NA	NA	1000 U	990 U	1000 U

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-GW12-00	36-GW13-00	36-GW14-00	36-OA-SB01-00	36-OA-SB01A-00	36-OA-SB01B-00
DATE SAMPLED	04/23/95	04/24/95	04/24/95	02/22/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	NA	NA	NA	1000 U	990 U	1000 U
DIBENZOFURAN	NA	NA	NA	400 U	400 U	400 U
2,4-DINITROTOLUENE	NA	NA	NA	400 U	400 U	400 U
DIETHYLPHTHALATE	NA	NA	NA	400 U	400 U	400 U
4-CHLOROPHENYL-PHENYLETHER	NA	NA	NA	400 U	400 U	400 U
FLUORENE	NA	NA	NA	400 U	400 U	400 U
4-NITROANILINE	NA	NA	NA	1000 U	990 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	1000 U	990 U	1000 U
N-NITROSODIPHENYLAMINE (1)	NA	NA	NA	400 U	400 U	400 U
4-BROMOPHENYL-PHENYLETHER	NA	NA	NA	400 U	400 U	400 U
HEXACHLOROBENZENE	NA	NA	NA	400 U	400 U	400 U
PENTACHLOROPHENOL	NA	NA	NA	1000 U	990 U	1000 U
PHENANTHRENE	NA	NA	NA	400 U	120 J	400 U
ANTHRACENE	NA	NA	NA	400 U	400 U	400 U
CARBAZOLE	NA	NA	NA	400 U	400 U	400 U
DI-N-BUTYLPHTHALATE	NA	NA	NA	400 U	400 U	1900 U
FLUORANTHENE	NA	NA	NA	400 U	400 U	400 U
PYRENE	NA	NA	NA	400 U	400 U	400 U
BUTYLBENZYLPHTHALATE	NA	NA	NA	400 U	400 U	400 U
3,3'-DICHLOROBENZIDINE	NA	NA	NA	400 U	400 U	400 U
BENZO(A)ANTHRACENE	NA	NA	NA	400 U	400 U	400 U
CHRYSENE	NA	NA	NA	400 U	91 J	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	46 J	400 U	400 U
DI-N-OCTYL PHTHALATE	NA	NA	NA	400 U	400 U	400 U
BENZO(B)FLUORANTHENE	NA	NA	NA	400 U	51 J	400 U
BENZO(K)FLUORANTHENE	NA	NA	NA	400 U	400 U	400 U
BENZO(A)PYRENE	NA	NA	NA	400 U	40 J	400 U
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	400 U	400 U	400 U
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	400 U	400 U	400 U
BENZO(G,H,I)PERYLENE	NA	NA	NA	400 U	400 U	400 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW12-00	36-GW13-00	36-GW14-00	36-OA-SB01-00	36-OA-SB01A-00	36-OA-SB01B-00
DATE SAMPLED	04/23/95	04/24/95	04/24/95	02/22/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	NA	NA	NA	2 UJ	100 U	2 U
BETA-BHC	NA	NA	NA	2 U	100 U	2 U
DELTA-BHC	NA	NA	NA	2 UJ	100 U	2 U
GAMMA-BHC (LINDANE)	NA	NA	NA	2 UJ	100 U	2 U
HEPTACHLOR	NA	NA	NA	2 U	100 U	2 U
ALDRIN	NA	NA	NA	2 U	100 U	2 U
HEPTACHLOR EPOXIDE	NA	NA	NA	2 U	100 U	3.9 J
ENDOSULFAN I	NA	NA	NA	2 U	100 U	2 U
DIELDRIN	NA	NA	NA	58 J	200 U	6.3
4,4'-DDE	NA	NA	NA	110 J	2600	42 J
ENDRIN	NA	NA	NA	4 U	200 U	3.9 U
ENDOSULFAN II	NA	NA	NA	4 U	200 U	3.9 U
4,4'-DDD	NA	NA	NA	22	550 J	4.7 J
ENDOSULFAN SULFATE	NA	NA	NA	4 U	200 U	3.9 U
4,4'-DDT	NA	NA	NA	61 J	12000	20
METHOXYCHLOR	NA	NA	NA	20 U	1000 U	20 U
ENDRIN KETONE	NA	NA	NA	4 U	200 U	3.9 U
ENDRIN ALDEHYDE	NA	NA	NA	4 U	200 U	3.9 U
ALPHA-CHLORDANE	NA	NA	NA	2 U	100 U	2.4 J
GAMMA-CHLORDANE	NA	NA	NA	2 U	100 U	2 U
TOXAPHENE	NA	NA	NA	200 U	10000 U	200 U
AROCLOR-1016	NA	NA	NA	40 U	2000 U	39 U
AROCLOR-1221	NA	NA	NA	80 U	4000 U	79 U
AROCLOR-1232	NA	NA	NA	40 U	2000 U	39 U
AROCLOR-1242	NA	NA	NA	40 U	2000 U	39 U
AROCLOR-1248	NA	NA	NA	1400	2000 U	810
AROCLOR-1254	NA	NA	NA	530 J	2000 U	39 U
AROCLOR-1260	NA	NA	NA	40 U	2000 U	39 U



**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	6-OA-SB01C-00	36-OA-SB01D-00	36-OA-SB01E-00	36-OA-SB01F-00	36-OA-SB01G-00	36-OA-SB01H-00
DATE SAMPLED	03/09/95	03/09/95	10/09/95	10/09/95	10/09/95	10/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	12 U	NA	NA	NA	NA
BROMOMETHANE	12 U	12 U	NA	NA	NA	NA
VINYL CHLORIDE	12 U	12 U	NA	NA	NA	NA
CHLOROETHANE	12 U	12 U	NA	NA	NA	NA
METHYLENE CHLORIDE	12 U	12 U	NA	NA	NA	NA
ACETONE	12 U	12 U	NA	NA	NA	NA
CARBON DISULFIDE	12 U	12 U	NA	NA	NA	NA
1,1-DICHLOROETHENE	12 U	12 U	NA	NA	NA	NA
1,1-DICHLOROETHANE	12 U	12 U	NA	NA	NA	NA
1,2-DICHLOROETHENE (TOTAL)	12 U	12 U	NA	NA	NA	NA
CHLOROFORM	12 U	12 U	NA	NA	NA	NA
1,2-DICHLOROETHANE	12 U	12 U	NA	NA	NA	NA
2-BUTANONE	12 U	12 U	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	12 U	12 U	NA	NA	NA	NA
CARBON TETRACHLORIDE	12 U	12 U	NA	NA	NA	NA
BROMODICHLOROMETHANE	12 U	12 U	NA	NA	NA	NA
1,2-DICHLOROPROPANE	12 U	12 U	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	12 U	12 U	NA	NA	NA	NA
TRICHLOROETHENE	12 U	12 U	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	12 U	12 U	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	12 U	12 U	NA	NA	NA	NA
BENZENE	12 U	12 U	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	12 U	12 U	NA	NA	NA	NA
BROMOFORM	12 U	12 U	NA	NA	NA	NA
4-METHYL-2-PENTANONE	12 U	12 U	NA	NA	NA	NA
2-HEXANONE	12 U	12 U	NA	NA	NA	NA
TETRACHLOROETHENE	12 U	12 U	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	12 U	12 U	NA	NA	NA	NA
TOLUENE	12 U	12 U	NA	NA	NA	NA
CHLOROBENZENE	12 U	12 U	NA	NA	NA	NA
ETHYLBENZENE	12 U	12 U	NA	NA	NA	NA
STYRENE	12 U	12 U	NA	NA	NA	NA
XYLENE (TOTAL)	12 U	12 U	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	6-OA-SB01C-00	36-OA-SB01D-00	36-OA-SB01E-00	36-OA-SB01F-00	36-OA-SB01G-00	36-OA-SB01H-00
DATE SAMPLED	03/09/95	03/09/95	10/09/95	10/09/95	10/09/95	10/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	410 U	390 U	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	410 U	390 U	NA	NA	NA	NA
2-CHLOROPHENOL	410 U	390 U	NA	NA	NA	NA
1,3-DICHLOROBENZENE	410 U	390 U	NA	NA	NA	NA
1,4-DICHLOROBENZENE	410 U	390 U	NA	NA	NA	NA
1,2-DICHLOROBENZENE	410 U	390 U	NA	NA	NA	NA
2-METHYLPHENOL	410 U	390 U	NA	NA	NA	NA
2,2-OXYBIS(1-CHLOROPROPANE)	410 U	390 U	NA	NA	NA	NA
4-METHYLPHENOL	410 U	390 U	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	410 U	390 U	NA	NA	NA	NA
HEXACHLOROETHANE	410 U	390 U	NA	NA	NA	NA
NITROBENZENE	410 U	390 U	NA	NA	NA	NA
ISOPHORONE	410 U	390 U	NA	NA	NA	NA
2-NITROPHENOL	410 U	390 U	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	410 U	390 U	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	410 U	390 U	NA	NA	NA	NA
2,4-DICHLOROPHENOL	410 U	390 U	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	410 U	390 U	NA	NA	NA	NA
NAPHTHALENE	410 U	390 U	NA	NA	NA	NA
4-CHLOROANILINE	410 U	390 U	NA	NA	NA	NA
HEXACHLOROBUTADIENE	410 U	390 U	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	410 U	390 U	NA	NA	NA	NA
2-METHYLNAPHTHALENE	410 U	390 U	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	410 U	390 U	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	410 U	390 U	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	1000 U	980 U	NA	NA	NA	NA
2-CHLORONAPHTHALENE	410 U	390 U	NA	NA	NA	NA
2-NITROANILINE	1000 U	980 U	NA	NA	NA	NA
DIMETHYLPHTHALATE	410 U	390 U	NA	NA	NA	NA
ACENAPHTHYLENE	410 U	390 U	NA	NA	NA	NA
2,6-DINITROTOLUENE	410 U	390 U	NA	NA	NA	NA
3-NITROANILINE	1000 U	980 U	NA	NA	NA	NA
ACENAPHTHENE	410 U	390 U	NA	NA	NA	NA
2,4-DINITROPHENOL	1000 U	980 U	NA	NA	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	6-OA-SB01C-00	36-OA-SB01D-00	36-OA-SB01E-00	36-OA-SB01F-00	36-OA-SB01G-00	36-OA-SB01H-00
DATE SAMPLED	03/09/95	03/09/95	10/09/95	10/09/95	10/09/95	10/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	1000 U	980 U	NA	NA	NA	NA
DIBENZOFURAN	410 U	390 U	NA	NA	NA	NA
2,4-DINITROTOLUENE	410 U	390 U	NA	NA	NA	NA
DIETHYLPHTHALATE	410 U	390 U	NA	NA	NA	NA
4-CHLOROPHENYL-PHENYLETHER	410 U	390 U	NA	NA	NA	NA
FLUORENE	410 U	390 U	NA	NA	NA	NA
4-NITROANILINE	1000 U	980 U	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	1000 U	980 U	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE (1)	410 U	390 U	NA	NA	NA	NA
4-BROMOPHENYL-PHENYLETHER	410 U	390 U	NA	NA	NA	NA
HEXACHLOROBENZENE	410 U	390 U	NA	NA	NA	NA
PENTACHLOROPHENOL	1000 U	980 U	NA	NA	NA	NA
PHENANTHRENE	410 U	390 U	NA	NA	NA	NA
ANTHRACENE	410 U	390 U	NA	NA	NA	NA
CARBAZOLE	410 U	390 U	NA	NA	NA	NA
DI-N-BUTYLPHTHALATE	410 U	390 U	NA	NA	NA	NA
FLUORANTHENE	410 U	390 U	NA	NA	NA	NA
PYRENE	410 U	390 U	NA	NA	NA	NA
BUTYLBENZYLPHTHALATE	410 U	390 U	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	410 U	390 U	NA	NA	NA	NA
BENZO(A)ANTHRACENE	410 U	390 U	NA	NA	NA	NA
CHRYSENE	410 U	390 U	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	410 U	390 U	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	410 U	390 U	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	410 U	390 U	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	410 U	390 U	NA	NA	NA	NA
BENZO(A)PYRENE	410 U	390 U	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	410 U	390 U	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	410 U	390 U	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	410 U	390 U	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	6-OA-SB01C-00	36-OA-SB01D-00	36-OA-SB01E-00	36-OA-SB01F-00	36-OA-SB01G-00	36-OA-SB01H-00
DATE SAMPLED	03/09/95	03/09/95	10/09/95	10/09/95	10/09/95	10/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	2 U	2 U	2 UJ	2.2 U	2 U	2 UJ
BETA-BHC	2 U	2 U	2 UJ	2.2 U	2 U	2 UJ
DELTA-BHC	2 U	2 U	2 UJ	2.2 UJ	2 UJ	2 UJ
GAMMA-BHC (LINDANE)	2 U	2 U	2 UJ	2.2 U	2 U	2 UJ
HEPTACHLOR	2 U	2 U	2 UJ	2.2 U	2 U	2 UJ
ALDRIN	2 U	2 U	7.1 J	2.2 U	2 U	5.5 J
HEPTACHLOR EPOXIDE	2.4 J	2 J	6.7 J	2.2 U	2 U	6.3 J
ENDOSULFAN I	2 U	2 U	36 J	8.3 J	2 U	31 J
DIELDRIN	3.6 J	3.9 U	36 J	5.2 J	4 U	30 J
4,4'-DDE	300	29 J	59 J	42 J	40 UJ	65 J
ENDRIN	4 U	3.9 U	4 UJ	4.4 U	4 U	4 UJ
ENDOSULFAN II	4 U	3.9 U	4 UJ	4.4 U	4 U	4 UJ
4,4'-DDD	21 J	6.7 J	14 J	13 J	4 U	12 J
ENDOSULFAN SULFATE	4 U	3.9 U	4 UJ	4.4 U	4 U	4 UJ
4,4'-DDT	170	20	25 J	16 J	19 J	20 J
METHOXYCHLOR	20 U	20 U	20 UJ	22 UJ	20 UJ	20 UJ
ENDRIN KETONE	4 U	3.9 U	4 UJ	4.4 U	4 U	4 UJ
ENDRIN ALDEHYDE	4 U	3.9 U	4 UJ	4.4 U	4 U	4 UJ
ALPHA-CHLORDANE	2 U	2 U	29 J	7 J	12 J	34 J
GAMMA-CHLORDANE	2 U	2 U	2 UJ	2.2 U	6.7 J	2 UJ
TOXAPHENE	200 U	200 U	200 UJ	220 U	200 U	200 UJ
AROCLOR-1016	40 U	39 U	40 UJ	44 U	40 U	40 UJ
AROCLOR-1221	81 U	79 U	79 UJ	87 U	79 U	79 UJ
AROCLOR-1232	40 U	39 U	40 UJ	44 U	40 U	40 UJ
AROCLOR-1242	40 U	39 U	40 UJ	44 U	40 U	40 UJ
AROCLOR-1248	440	350	2400	350 J	68 J	1500
AROCLOR-1254	40 U	39 U	40 UJ	44 U	40 U	40 UJ
AROCLOR-1260	40 U	39 U	40 UJ	44 U	40 U	40 UJ

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB011-00	36-OA-SB02-00	36-OA-SB03-00	36-OA-SB04-00	36-OA-SB05-00	36-OA-SB06-00
DATE SAMPLED	10/09/95	02/25/95	02/25/95	02/24/95	02/28/95	02/27/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	NA	14 U	12 U	12 U	12 U	12 U
BROMOMETHANE	NA	14 U	12 U	12 U	12 U	12 U
VINYL CHLORIDE	NA	14 U	12 U	12 U	12 U	12 U
CHLOROETHANE	NA	14 U	12 U	12 U	12 U	12 U
METHYLENE CHLORIDE	NA	14 U	12 U	12 U	12 U	12 U
ACETONE	NA	14 U	12 U	12 U	12 U	12 U
CARBON DISULFIDE	NA	14 U	12 U	12 U	12 U	12 U
1,1-DICHLOROETHENE	NA	14 U	12 U	12 U	12 U	12 U
1,1-DICHLOROETHANE	NA	14 U	12 U	12 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	NA	14 U	12 U	12 U	12 U	12 U
CHLOROFORM	NA	14 U	12 U	12 U	12 U	12 U
1,2-DICHLOROETHANE	NA	14 U	12 U	12 U	12 U	12 U
2-BUTANONE	NA	14 U	12 U	12 U	12 U	12 U
1,1,1-TRICHLOROETHANE	NA	14 U	12 U	12 UJ	12 U	12 UJ
CARBON TETRACHLORIDE	NA	14 U	12 U	12 UJ	12 U	12 UJ
BROMODICHLOROMETHANE	NA	14 U	12 U	12 UJ	12 U	12 UJ
1,2-DICHLOROPROPANE	NA	14 U	12 U	12 UJ	12 U	12 UJ
CIS-1,3-DICHLOROPROPENE	NA	14 U	12 U	12 UJ	12 U	12 UJ
TRICHLOROETHENE	NA	14 U	12 U	12 UJ	12 U	12 UJ
DIBROMOCHLOROMETHANE	NA	14 U	12 U	12 UJ	12 U	12 UJ
1,1,2-TRICHLOROETHANE	NA	14 U	12 U	12 UJ	12 U	12 UJ
BENZENE	NA	14 U	12 U	12 UJ	12 U	12 UJ
TRANS-1,3-DICHLOROPROPENE	NA	14 U	12 U	12 UJ	12 U	12 UJ
BROMOFORM	NA	14 U	12 U	12 UJ	12 U	12 UJ
4-METHYL-2-PENTANONE	NA	14 U	12 U	12 UJ	12 UJ	12 UJ
2-HEXANONE	NA	14 U	12 U	12 UJ	12 UJ	12 UJ
TETRACHLOROETHENE	NA	14 U	12 U	12 UJ	12 UJ	12 UJ
1,1,2,2-TETRACHLOROETHANE	NA	14 U	12 U	12 UJ	12 UJ	12 UJ
TOLUENE	NA	14 U	12 U	12 UJ	12 UJ	12 UJ
CHLOROBENZENE	NA	14 U	12 U	12 UJ	12 UJ	12 UJ
ETHYLBENZENE	NA	14 U	12 U	12 UJ	12 UJ	12 UJ
STYRENE	NA	14 U	12 U	12 UJ	12 UJ	12 UJ
XYLENE (TOTAL)	NA	14 U	12 U	12 UJ	12 UJ	12 UJ

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB011-00	36-OA-SB02-00	36-OA-SB03-00	36-OA-SB04-00	36-OA-SB05-00	36-OA-SB06-00
DATE SAMPLED	10/09/95	02/25/95	02/25/95	02/24/95	02/28/95	02/27/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	NA	460 U	380 U	410 U	470 U	410 U
BIS(2-CHLOROETHYL)ETHER	NA	460 U	380 U	410 U	470 U	410 U
2-CHLOROPHENOL	NA	460 U	380 U	410 U	470 U	410 U
1,3-DICHLOROBENZENE	NA	460 U	380 U	410 U	470 U	410 U
1,4-DICHLOROBENZENE	NA	460 U	380 U	410 U	470 U	410 U
1,2-DICHLOROBENZENE	NA	460 U	380 U	410 U	470 U	410 U
2-METHYLPHENOL	NA	460 U	380 U	410 U	470 U	410 U
2,2-OXYBIS(1-CHLOROPROPANE)	NA	460 U	380 U	410 U	470 U	410 U
4-METHYLPHENOL	NA	460 U	380 U	410 U	470 U	410 U
N-NITROSO-DI-N-PROPYLAMINE	NA	460 U	380 U	410 U	470 U	410 U
HEXACHLOROETHANE	NA	460 U	380 U	410 U	470 U	410 U
NITROBENZENE	NA	460 U	380 U	410 U	470 U	410 U
ISOPHORONE	NA	460 U	380 U	410 U	470 U	410 U
2-NITROPHENOL	NA	460 U	380 U	410 U	470 U	410 U
2,4-DIMETHYLPHENOL	NA	460 U	380 U	410 U	470 U	410 U
BIS(2-CHLOROETHOXY)METHANE	NA	460 U	380 U	410 U	470 U	410 U
2,4-DICHLOROPHENOL	NA	460 U	380 U	410 U	470 U	410 U
1,2,4-TRICHLOROBENZENE	NA	460 U	380 U	410 U	470 U	410 U
NAPHTHALENE	NA	460 U	380 U	410 U	470 U	410 U
4-CHLOROANILINE	NA	460 U	380 U	410 U	470 U	410 U
HEXACHLOROBUTADIENE	NA	460 U	380 U	410 U	470 U	410 U
4-CHLORO-3-METHYLPHENOL	NA	460 U	380 U	410 U	470 U	410 U
2-METHYLNAPHTHALENE	NA	460 U	380 U	410 U	470 U	410 U
HEXACHLOROCYCLOPENTADIENE	NA	460 UJ	380 UJ	410 U	470 U	410 U
2,4,6-TRICHLOROPHENOL	NA	460 U	380 U	410 U	470 U	410 U
2,4,5-TRICHLOROPHENOL	NA	1100 U	940 U	1000 U	1200 U	1000 U
2-CHLORONAPHTHALENE	NA	460 U	380 U	410 U	470 U	410 U
2-NITROANILINE	NA	1100 U	940 U	1000 U	1200 U	1000 U
DIMETHYLPHTHALATE	NA	460 U	380 U	410 U	470 U	410 U
ACENAPHTHYLENE	NA	460 U	380 U	410 U	470 U	410 U
2,6-DINITROTOLUENE	NA	460 U	380 U	410 U	470 U	410 U
3-NITROANILINE	NA	1100 U	940 U	1000 U	1200 U	1000 U
ACENAPHTHENE	NA	460 U	380 U	410 U	470 U	410 U
2,4-DINITROPHENOL	NA	1100 U	940 U	1000 U	1200 U	1000 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OA-SB011-00	36-OA-SB02-00	36-OA-SB03-00	36-OA-SB04-00	36-OA-SB05-00	36-OA-SB06-00
DATE SAMPLED	10/09/95	02/25/95	02/25/95	02/24/95	02/28/95	02/27/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	NA	1100 U	940 U	1000 U	1200 U	1000 U
DIBENZOFURAN	NA	460 U	380 U	410 U	470 U	410 U
2,4-DINITROTOLUENE	NA	460 U	380 U	410 U	470 U	410 U
DIETHYLPHTHALATE	NA	460 U	380 U	410 U	470 U	410 U
4-CHLOROPHENYL-PHENYLETHER	NA	460 U	380 U	410 U	470 U	410 U
FLUORENE	NA	460 U	380 U	410 U	470 U	410 U
4-NITROANILINE	NA	1100 U	940 U	1000 U	1200 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	NA	1100 UJ	940 UJ	1000 U	1200 U	1000 U
N-NITROSODIPHENYLAMINE (1)	NA	460 U	380 U	410 U	470 U	410 U
4-BROMOPHENYL-PHENYLETHER	NA	460 U	380 U	410 U	470 U	410 U
HEXACHLOROBENZENE	NA	460 U	380 U	410 U	470 U	410 U
PENTACHLOROPHENOL	NA	1100 U	940 U	1000 U	1200 U	1000 U
PHENANTHRENE	NA	460 U	380 U	410 U	470 U	410 U
ANTHRACENE	NA	460 U	380 U	410 U	470 U	410 U
CARBAZOLE	NA	460 U	380 U	410 U	470 U	410 U
DI-N-BUTYLPHTHALATE	NA	3200 U	1900 U	410 U	470 U	410 U
FLUORANTHENE	NA	460 U	380 U	410 U	470 U	410 U
PYRENE	NA	460 U	380 U	53 J	470 UJ	410 UJ
BUTYLBENZYLPHTHALATE	NA	110 J	290 J	51 J	470 UJ	410 UJ
3,3'-DICHLOROBENZIDINE	NA	460 U	380 U	410 UJ	470 UJ	410 UJ
BENZO(A)ANTHRACENE	NA	460 U	380 U	410 UJ	470 UJ	410 UJ
CHRYSENE	NA	460 U	380 U	410 UJ	470 UJ	410 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	NA	460 U	380 U	630 J	670 J	410 UJ
DI-N-OCTYL PHTHALATE	NA	460 UJ	380 UJ	410 U	470 U	410 U
BENZO(B)FLUORANTHENE	NA	460 U	380 U	410 U	470 U	410 U
BENZO(K)FLUORANTHENE	NA	460 U	380 U	410 U	470 U	410 U
BENZO(A)PYRENE	NA	460 U	380 U	410 U	470 U	410 U
INDENO(1,2,3-CD)PYRENE	NA	460 U	380 U	46 J	470 U	410 U
DIBENZO(A,H)ANTHRACENE	NA	460 U	380 U	410 U	470 U	410 U
BENZO(G,H,I)PERYLENE	NA	460 U	380 U	410 U	470 U	410 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OA-SB011-00	36-OA-SB02-00	36-OA-SB03-00	36-OA-SB04-00	36-OA-SB05-00	36-OA-SB06-00
DATE SAMPLED	10/09/95	02/25/95	02/25/95	02/24/95	02/28/95	02/27/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	22 U	2.3 U	1.9 U	2.1 UJ	2.4 UJ	2.1 UJ
BETA-BHC	22 U	2.3 U	1.9 U	2.1 U	2.4 UJ	2.1 UJ
DELTA-BHC	22 UJ	2.3 U	1.9 U	2.1 U	2.4 UJ	2.1 UJ
GAMMA-BHC (LINDANE)	22 U	2.3 U	1.9 U	2.1 U	2.4 UJ	2.1 UJ
HEPTACHLOR	22 U	2.3 U	1.9 UJ	2.1 U	2.4 UJ	2.1 UJ
ALDRIN	22 U	2.3 U	1.9 U	2.1 U	2.4 UJ	2.1 UJ
HEPTACHLOR EPOXIDE	67 J	2.3 U	1.9 U	2.1 U	24 J	2.1 UJ
ENDOSULFAN I	430 U	2.3 U	1.9 U	2.1 U	2.4 UJ	2.1 UJ
DIELDRIN	430 U	27	3.8 U	4.1 U	160 J	4.1 J
4,4'-DDE	420 J	170 J	3.8 U	95 J	1000	18 J
ENDRIN	43 U	4.6 U	3.8 U	4.1 U	4.8 UJ	4.1 UJ
ENDOSULFAN II	43 U	4.6 U	3.8 U	4.1 U	4.8 UJ	4.1 UJ
4,4'-DDD	99	4.6 U	3.8 U	9.4 J	230 J	4.1 UJ
ENDOSULFAN SULFATE	43 U	4.6 U	3.8 U	2.5 J	4.8 UJ	4.1 UJ
4,4'-DDT	340 J	84 J	3.8 U	49 J	420	17 J
METHOXYCHLOR	220 U	23 UJ	19 UJ	21 U	24 UJ	21 UJ
ENDRIN KETONE	43 U	4.6 U	3.8 U	4.1 U	4.8 UJ	4.1 UJ
ENDRIN ALDEHYDE	43 U	4.6 U	3.8 U	4.1 U	4.8 UJ	4.1 UJ
ALPHA-CHLORDANE	430 U	2.3 U	1.9 U	2.1 U	980	2.1 UJ
GAMMA-CHLORDANE	22 U	2.3 U	1.9 U	2.1 U	840	2.1 UJ
TOXAPHENE	2200 U	230 U	190 U	210 U	240 UJ	210 UJ
AROCLOR-1016	430 U	46 U	38 U	41 U	48 UJ	41 UJ
AROCLOR-1221	870 U	92 U	75 U	82 U	96 UJ	83 UJ
AROCLOR-1232	430 U	46 U	38 U	41 U	48 UJ	41 UJ
AROCLOR-1242	430 U	46 U	38 U	41 U	48 UJ	41 UJ
AROCLOR-1248	24000	46 U	38 U	41 U	48 UJ	41 UJ
AROCLOR-1254	430 U	46 U	38 U	41 U	48 UJ	41 UJ
AROCLOR-1260	430 U	46 U	38 U	41 U	48 UJ	41 UJ



SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB07-00	36-OA-SB08-00	36-OF-SB01-00	36-OF-SB02-00	36-OF-SB03-00	36-OF-SB04-00
DATE SAMPLED	02/24/95	02/27/95	02/21/95	02/21/95	02/21/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	13 U	12 U	12 U	12 U	12 U	12 U
BROMOMETHANE	13 U	12 U	12 U	12 U	12 U	12 U
VINYL CHLORIDE	13 U	12 U	12 U	12 U	12 U	12 U
CHLOROETHANE	13 U	12 U	12 U	12 U	12 U	12 U
METHYLENE CHLORIDE	13 U	12 U	12 U	12 U	12 U	12 U
ACETONE	13 U	24 J	12 U	12 U	12 U	12 U
CARBON DISULFIDE	13 U	12 U	12 U	12 U	12 U	12 U
1,1-DICHLOROETHENE	13 U	12 U	12 U	12 U	12 U	12 U
1,1-DICHLOROETHANE	13 U	12 U	12 U	12 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	13 U	12 U	12 U	12 U	12 U	12 U
CHLOROFORM	13 U	12 U	12 U	12 U	12 U	12 U
1,2-DICHLOROETHANE	13 U	12 U	12 U	12 U	12 U	12 U
2-BUTANONE	13 U	12 U	12 U	12 U	12 U	12 U
1,1,1-TRICHLOROETHANE	13 U	12 UJ	12 U	12 U	12 U	12 U
CARBON TETRACHLORIDE	13 U	12 UJ	12 U	12 U	12 U	12 U
BROMODICHLOROMETHANE	13 U	12 UJ	12 U	12 U	12 U	12 U
1,2-DICHLOROPROPANE	13 U	12 UJ	12 U	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	13 U	12 UJ	12 U	12 U	12 U	12 U
TRICHLOROETHENE	13 U	12 UJ	12 UJ	12 U	12 U	12 U
DIBROMOCHLOROMETHANE	13 U	12 UJ	12 U	12 U	12 U	12 U
1,1,2-TRICHLOROETHANE	13 U	12 UJ	12 U	12 U	12 U	12 U
BENZENE	13 U	12 UJ	12 U	12 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	13 U	12 UJ	12 U	12 U	12 U	12 U
BROMOFORM	13 U	12 UJ	12 U	12 U	12 U	12 U
4-METHYL-2-PENTANONE	13 U	12 UJ	12 U	12 U	12 U	12 U
2-HEXANONE	13 U	12 UJ	12 U	12 U	12 U	12 U
TETRACHLOROETHENE	13 U	12 UJ	12 U	12 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	13 U	12 UJ	12 U	12 U	12 U	12 U
TOLUENE	13 U	12 UJ	98	12 U	8 J	12 U
CHLOROBENZENE	13 U	12 UJ	12 U	12 U	12 U	12 U
ETHYLBENZENE	13 U	12 UJ	12 U	12 U	12 U	12 U
STYRENE	13 U	12 UJ	12 U	12 U	12 U	12 U
XYLENE (TOTAL)	13 U	12 UJ	12 U	12 U	12 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB07-00	36-OA-SB08-00	36-OF-SB01-00	36-OF-SB02-00	36-OF-SB03-00	36-OF-SB04-00
DATE SAMPLED	02/24/95	02/27/95	02/21/95	02/21/95	02/21/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	420 U	410 U	370 U	400 U	380 U	390 U
BIS(2-CHLOROETHYL)ETHER	420 U	410 U	370 U	400 U	380 U	390 U
2-CHLOROPHENOL	420 U	410 U	370 U	400 U	380 U	390 U
1,3-DICHLOROBENZENE	420 U	410 U	370 U	400 U	380 U	390 U
1,4-DICHLOROBENZENE	420 U	410 U	370 U	400 U	380 U	390 U
1,2-DICHLOROBENZENE	420 U	410 U	370 U	400 U	380 U	390 U
2-METHYLPHENOL	420 U	410 U	370 U	400 U	380 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	420 U	410 U	370 U	400 U	380 U	390 U
4-METHYLPHENOL	420 U	410 U	370 U	400 U	380 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	420 U	410 U	370 U	400 U	380 U	390 U
HEXACHLOROETHANE	420 U	410 U	370 U	400 U	380 U	390 U
NITROBENZENE	420 U	410 U	370 U	400 U	380 U	390 U
ISOPHORONE	420 U	410 U	370 U	400 U	380 U	390 U
2-NITROPHENOL	420 U	410 U	370 U	400 U	380 U	390 U
2,4-DIMETHYLPHENOL	420 U	410 U	370 U	400 U	380 U	390 U
BIS(2-CHLOROETHOXY)METHANE	420 U	410 U	370 U	400 U	380 U	390 U
2,4-DICHLOROPHENOL	420 U	410 U	370 U	400 U	380 U	390 U
1,2,4-TRICHLOROBENZENE	420 U	410 U	370 U	400 U	380 U	390 U
NAPHTHALENE	420 U	410 U	370 U	400 U	380 U	120 J
4-CHLOROANILINE	420 U	410 U	370 U	400 U	380 U	390 U
HEXACHLOROBUTADIENE	420 U	410 U	370 U	400 U	380 U	390 U
4-CHLORO-3-METHYLPHENOL	420 U	410 U	370 U	400 U	380 U	390 U
2-METHYLNAPHTHALENE	420 U	410 U	370 U	400 U	380 U	54 J
HEXACHLOROCYCLOPENTADIENE	420 U	410 U	370 U	400 U	380 U	390 U
2,4,6-TRICHLOROPHENOL	420 U	410 U	370 U	400 U	380 U	390 U
2,4,5-TRICHLOROPHENOL	1000 U	1000 U	940 U	1000 U	950 U	960 U
2-CHLORONAPHTHALENE	420 U	410 U	370 U	400 U	380 U	390 U
2-NITROANILINE	1000 U	1000 U	940 U	1000 U	950 U	960 U
DIMETHYLPHTHALATE	420 U	410 U	370 U	400 U	380 U	390 U
ACENAPHTHYLENE	420 U	410 U	370 U	400 U	380 U	390 U
2,6-DINITROTOLUENE	420 U	410 U	370 U	400 U	380 U	390 U
3-NITROANILINE	1000 U	1000 U	940 U	1000 U	950 U	960 U
ACENAPHTHENE	420 U	410 U	370 U	400 U	380 U	330 J
2,4-DINITROPHENOL	1000 U	1000 UJ	940 U	1000 U	950 UJ	960 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB07-00	36-OA-SB08-00	36-OF-SB01-00	36-OF-SB02-00	36-OF-SB03-00	36-OF-SB04-00
DATE SAMPLED	02/24/95	02/27/95	02/21/95	02/21/95	02/21/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMI-VOLATILES cont</b>						
4-NITROPHENOL	1000 U	1000 U	940 U	1000 U	950 U	960 U
DIBENZOFURAN	420 U	410 U	370 U	400 U	380 U	150 J
2,4-DINITROTOLUENE	420 U	410 U	370 U	400 U	380 U	390 U
DIETHYLPHTHALATE	420 U	410 U	370 U	400 U	380 U	390 U
4-CHLOROPHENYL-PHENYLETHER	420 U	410 U	370 U	400 U	380 U	390 U
FLUORENE	420 U	410 U	370 U	400 U	380 U	200 J
4-NITROANILINE	1000 U	1000 U	940 U	1000 U	950 U	960 U
4,6-DINITRO-2-METHYLPHENOL	1000 U	1000 UJ	940 U	1000 UJ	950 UJ	960 U
N-NITROSODIPHENYLAMINE (1)	420 U	410 U	370 U	400 U	380 U	390 U
4-BROMOPHENYL-PHENYLETHER	420 U	410 U	370 U	400 U	380 U	390 U
HEXACHLOROBENZENE	420 U	410 U	370 U	400 U	380 UJ	390 U
PENTACHLOROPHENOL	1000 U	1000 U	940 U	1000 U	950 UJ	960 U
PHENANTHRENE	420 U	410 U	370 U	400 U	380 UJ	2500
ANTHRACENE	420 U	410 U	370 U	400 U	380 UJ	780
CARBAZOLE	420 U	410 U	370 U	400 U	380 UJ	240 J
DI-N-BUTYLPHTHALATE	420 U	410 U	370 U	1300 U	2200 U	390 U
FLUORANTHENE	420 U	410 U	370 U	400 U	380 UJ	5500
PYRENE	420 UJ	410 U	370 U	400 U	380 UJ	11000 J
BUTYLBENZYLPHTHALATE	420 UJ	410 U	370 U	400 U	380 UJ	390 UJ
3,3'-DICHLOROBENZIDINE	420 UJ	410 U	370 U	400 U	380 UJ	390 UJ
BENZO(A)ANTHRACENE	420 UJ	410 U	370 U	400 U	380 UJ	3900 J
CHRYSENE	420 UJ	410 U	370 U	400 U	380 UJ	4600 J
BIS(2-ETHYLHEXYL)PHTHALATE	55 J	410 U	380	190 J	380 UJ	480 J
DI-N-OCTYL PHTHALATE	420 U	410 U	370 U	400 U	380 UJ	390 U
BENZO(B)FLUORANTHENE	420 U	410 U	370 U	400 U	380 UJ	3600
BENZO(K)FLUORANTHENE	420 U	410 U	370 U	400 U	380 UJ	1500
BENZO(A)PYRENE	420 U	410 U	370 U	400 U	380 UJ	3300
INDENO(1,2,3-CD)PYRENE	420 U	410 U	370 U	400 U	380 UJ	2700
DIBENZO(A,H)ANTHRACENE	420 U	410 U	370 U	400 U	380 UJ	720
BENZO(G,H,I)PERYLENE	420 U	410 U	370 U	400 U	380 UJ	2400

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OA-SB07-00	36-OA-SB08-00	36-OF-SB01-00	36-OF-SB02-00	36-OF-SB03-00	36-OF-SB04-00
DATE SAMPLED	02/24/95	02/27/95	02/21/95	02/21/95	02/21/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	2.1 UJ	2.1 UJ	1.9 UJ	2 UJ	1.9 UJ	1.9 UJ
BETA-BHC	2.1 U	2.1 UJ	1.9 U	2 UJ	1.9 UJ	1.9 UJ
DELTA-BHC	2.1 U	2.1 UJ	1.9 UJ	2 UJ	1.9 UJ	1.9 UJ
GAMMA-BHC (LINDANE)	2.1 U	2.1 UJ	1.9 UJ	2 UJ	1.9 UJ	1.9 UJ
HEPTACHLOR	2.1 U	2.1 UJ	1.9 U	2 UJ	1.9 UJ	1.9 UJ
ALDRIN	2.1 U	2.1 UJ	1.9 U	2 UJ	1400	1.9 UJ
HEPTACHLOR EPOXIDE	2.1 U	2.1 UJ	1.9 U	2 UJ	1.9 UJ	7.7 J
ENDOSULFAN I	2.1 U	2.1 UJ	1.9 U	2 UJ	1.9 UJ	1.9 UJ
DIELDRIN	4.2 U	4.1 UJ	3.8 U	4 UJ	16000	47 J
4,4'-DDE	210	650 J	12 J	41 J	11 J	1000
ENDRIN	4.2 U	9.9 J	3.8 U	4 UJ	3.9 UJ	3.9 UJ
ENDOSULFAN II	4.2 U	4.1 UJ	3.8 U	4 UJ	3.9 UJ	3.9 UJ
4,4'-DDD	37	76 J	7.5 J	13 J	16 J	160
ENDOSULFAN SULFATE	4.2 U	4.1 UJ	3.8 U	4 UJ	3.9 UJ	3.9 UJ
4,4'-DDT	120	370	9 J	4 UJ	2.3 J	170
METHOXYCHLOR	21 U	21 UJ	19 U	20 UJ	19 UJ	19 UJ
ENDRIN KETONE	4.2 U	4.1 UJ	3.8 U	4 UJ	15 J	3.9 UJ
ENDRIN ALDEHYDE	4.2 U	4.1 UJ	3.8 U	12 J	3.9 UJ	3.9 UJ
ALPHA-CHLORDANE	2.5	14 J	1.9 U	2 UJ	2.3 J	1.9 UJ
GAMMA-CHLORDANE	2.1 U	16 J	1.9 U	2 UJ	1.9 UJ	1.9 UJ
TOXAPHENE	210 U	210 UJ	190 U	200 UJ	190 UJ	190 UJ
AROCLOR-1016	42 U	41 UJ	38 U	40 UJ	39 UJ	39 UJ
AROCLOR-1221	83 U	82 UJ	75 U	80 UJ	77 UJ	77 UJ
AROCLOR-1232	42 U	41 UJ	38 U	40 UJ	39 UJ	39 UJ
AROCLOR-1242	42 U	41 UJ	38 U	40 UJ	39 UJ	39 UJ
AROCLOR-1248	42 U	41 UJ	38 U	40 UJ	39 UJ	39 UJ
AROCLOR-1254	42 U	41 UJ	38 U	210 J	39 UJ	39 UJ
AROCLOR-1260	42 U	41 UJ	38 U	40 UJ	39 UJ	39 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OF-SB05-00	36-OF-SB06-00	36-OF-SB06A-00	36-OF-SB06B-00	36-OF-SB06C-00	36-OF-SB06D-00
DATE SAMPLED	02/21/95	02/21/95	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	11 U	13 U	15 U	18 U	13 U	16 U
BROMOMETHANE	11 U	13 U	15 U	18 U	13 U	16 U
VINYL CHLORIDE	11 U	13 U	15 U	18 U	13 U	16 U
CHLOROETHANE	11 U	13 U	15 U	18 U	13 U	16 U
METHYLENE CHLORIDE	11 U	13 U	15 U	18 U	13 U	16 U
ACETONE	11 U	13 U	15 U	18 U	13 U	16 U
CARBON DISULFIDE	11 U	13 U	15 U	18 U	13 U	16 U
1,1-DICHLOROETHENE	11 U	13 U	15 U	18 U	13 U	16 U
1,1-DICHLOROETHANE	11 U	13 U	15 U	18 U	13 U	16 U
1,2-DICHLOROETHENE (TOTAL)	11 U	13 U	15 U	18 U	13 U	16 U
CHLOROFORM	11 U	13 U	15 U	18 U	13 U	16 U
1,2-DICHLOROETHANE	11 U	13 U	15 U	18 U	13 U	16 U
2-BUTANONE	11 U	13 U	15 U	18 U	13 U	16 U
1,1,1-TRICHLOROETHANE	11 U	13 U	15 U	18 U	13 U	16 U
CARBON TETRACHLORIDE	11 U	13 U	15 U	18 U	13 U	16 U
BROMODICHLOROMETHANE	11 U	13 U	15 U	18 U	13 U	16 U
1,2-DICHLOROPROPANE	11 U	13 U	15 U	18 U	13 U	16 U
CIS-1,3-DICHLOROPROPENE	11 U	13 U	15 U	18 U	13 U	16 U
TRICHLOROETHENE	11 U	13 UJ	15 U	18 U	13 U	16 U
DIBROMOCHLOROMETHANE	11 U	13 U	15 U	18 U	13 U	16 U
1,1,2-TRICHLOROETHANE	11 U	13 U	15 U	18 U	13 U	16 U
BENZENE	11 U	13 U	15 U	18 U	13 U	16 U
TRANS-1,3-DICHLOROPROPENE	11 U	13 U	15 U	18 U	13 U	16 U
BROMOFORM	11 U	13 U	15 U	18 U	13 U	16 U
4-METHYL-2-PENTANONE	11 U	13 U	15 U	18 U	13 U	16 UJ
2-HEXANONE	11 U	13 U	15 U	18 U	13 U	16 UJ
TETRACHLOROETHENE	11 U	13 U	15 U	18 U	13 U	16 UJ
1,1,2,2-TETRACHLOROETHANE	11 U	13 U	15 U	18 U	13 U	16 UJ
TOLUENE	11	50	15 U	18 U	13 U	16 UJ
CHLOROBENZENE	11 U	13 U	15 U	18 U	13 U	16 UJ
ETHYLBENZENE	11 U	13 U	15 U	18 U	13 U	16 UJ
STYRENE	11 U	13 U	15 U	18 U	13 U	16 UJ
XYLENE (TOTAL)	11 U	13 U	15 U	7 J	13 U	16 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OF-SB05-00	36-OF-SB06-00	36-OF-SB06A-00	36-OF-SB06B-00	36-OF-SB06C-00	36-OF-SB06D-00
DATE SAMPLED	02/21/95	02/21/95	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	370 U	430 U	500 U	580 U	420 U	540 U
BIS(2-CHLOROETHYL)ETHER	370 U	430 U	500 U	580 U	420 U	540 U
2-CHLOROPHENOL	370 U	430 U	500 U	580 U	420 U	540 U
1,3-DICHLOROBENZENE	370 U	430 U	500 U	580 U	420 U	540 U
1,4-DICHLOROBENZENE	370 U	430 U	500 U	580 U	420 U	540 U
1,2-DICHLOROBENZENE	370 U	430 U	500 U	580 U	420 U	540 U
2-METHYLPHENOL	370 U	430 U	500 U	580 U	420 U	540 U
2,2'-OXYBIS(1-CHLOROPROPANE)	370 U	430 U	500 U	580 U	420 U	540 U
4-METHYLPHENOL	370 U	430 U	500 U	580 U	420 U	540 U
N-NITROSO-DI-N-PROPYLAMINE	370 U	430 U	500 U	580 U	420 U	540 U
HEXACHLOROETHANE	370 U	430 U	500 U	580 U	420 U	540 U
NITROBENZENE	370 U	430 U	500 U	580 U	420 U	540 U
ISOPHORONE	370 U	430 U	500 U	580 U	420 U	540 U
2-NITROPHENOL	370 U	430 U	500 U	580 U	420 U	540 U
2,4-DIMETHYLPHENOL	370 U	430 U	500 U	580 U	420 U	540 U
BIS(2-CHLOROETHOXY)METHANE	370 U	430 U	500 U	580 U	420 U	540 U
2,4-DICHLOROPHENOL	370 U	430 U	500 U	580 U	420 U	540 U
1,2,4-TRICHLOROBENZENE	370 U	430 U	500 U	580 U	420 U	540 U
NAPHTHALENE	370 U	430 U	500 U	580 U	420 U	540 U
4-CHLOROANILINE	370 U	430 U	500 U	580 U	420 U	540 U
HEXACHLOROBUTADIENE	370 U	430 U	500 U	580 U	420 U	540 U
4-CHLORO-3-METHYLPHENOL	370 U	430 U	500 U	580 U	420 U	540 U
2-METHYLNAPHTHALENE	370 U	430 U	500 U	580 U	420 U	540 U
HEXACHLOROCYCLOPENTADIENE	370 U	430 U	500 U	580 U	420 U	540 U
2,4,6-TRICHLOROPHENOL	370 U	430 U	500 U	580 U	420 U	540 U
2,4,5-TRICHLOROPHENOL	940 U	1100 U	1200 U	1500 U	1100 U	1400 U
2-CHLORONAPHTHALENE	370 U	430 U	500 U	580 U	420 U	540 U
2-NITROANILINE	940 U	1100 U	1200 U	1500 U	1100 U	1400 U
DIMETHYLPHTHALATE	370 U	430 U	500 U	580 U	420 U	540 U
ACENAPHTHYLENE	370 U	430 U	500 U	580 U	420 U	540 U
2,6-DINITROTOLUENE	370 U	430 U	500 U	580 U	420 U	540 U
3-NITROANILINE	940 U	1100 U	1200 U	1500 U	1100 U	1400 U
ACENAPHTHENE	370 U	430 U	500 U	580 U	420 U	540 U
2,4-DINITROPHENOL	940 U	1100 U	1200 U	1500 U	1100 U	1400 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OF-SB05-00	36-OF-SB06-00	36-OF-SB06A-00	36-OF-SB06B-00	36-OF-SB06C-00	36-OF-SB06D-00
DATE SAMPLED	02/21/95	02/21/95	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	940 U	1100 U	1200 U	1500 U	1100 U	1400 U
DIBENZOFURAN	370 U	430 U	500 U	580 U	420 U	540 U
2,4-DINITROTOLUENE	370 U	430 U	500 U	580 U	420 U	540 U
DIETHYLPHTHALATE	370 U	430 U	500 U	580 U	420 U	540 U
4-CHLOROPHENYL-PHENYLETHER	370 U	430 U	500 U	580 U	420 U	540 U
FLUORENE	370 U	430 U	500 U	580 U	420 U	540 U
4-NITROANILINE	940 U	1100 U	1200 U	1500 U	1100 U	1400 U
4,6-DINITRO-2-METHYLPHENOL	940 U	1100 U	1200 U	1500 U	1100 U	1400 U
N-NITROSODIPHENYLAMINE (1)	370 U	430 U	500 U	580 U	420 U	540 U
4-BROMOPHENYL-PHENYLETHER	370 U	430 U	500 U	580 U	420 U	540 U
HEXACHLOROBENZENE	370 U	430 U	500 U	580 U	420 U	540 U
PENTACHLOROPHENOL	940 U	1100 U	1200 U	1500 U	1100 U	1400 U
PHENANTHRENE	370 U	430 U	500 U	580 U	420 U	540 U
ANTHRACENE	370 U	430 U	500 U	580 U	420 U	540 U
CARBAZOLE	370 U	430 U	500 U	580 U	420 U	540 U
DI-N-BUTYLPHTHALATE	1400 U	430 U	500 U	2800 U	1600 U	1900 U
FLUORANTHENE	370 U	430 U	500 U	580 U	420 U	540 U
PYRENE	370 U	430 U	500 U	580 U	420 U	90 J
BUTYLBENZYLPHTHALATE	370 U	430 U	500 U	580 U	420 U	540 U
3,3'-DICHLOROBENZIDINE	370 U	430 U	500 U	580 U	420 U	540 U
BENZO(A)ANTHRACENE	370 U	430 U	500 U	580 U	420 U	540 U
CHRYSENE	370 U	430 U	500 U	580 U	420 U	540 U
BIS(2-ETHYLHEXYL)PHTHALATE	370 U	410 J	500 U	580 U	420 U	540 U
DI-N-OCTYL PHTHALATE	370 U	430 U	500 U	580 U	420 U	540 U
BENZO(B)FLUORANTHENE	370 U	430 U	500 U	580 U	420 U	540 U
BENZO(K)FLUORANTHENE	370 U	430 U	500 U	580 U	420 U	540 U
BENZO(A)PYRENE	370 U	430 U	500 U	580 U	420 U	540 U
INDENO(1,2,3-CD)PYRENE	370 U	430 U	500 U	580 U	420 U	540 U
DIBENZO(A,H)ANTHRACENE	370 U	430 U	500 U	580 U	420 U	540 U
BENZO(G,H,I)PERYLENE	370 U	430 U	500 U	580 U	420 U	540 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OF-SB05-00	36-OF-SB06-00	36-OF-SB06A-00	36-OF-SB06B-00	36-OF-SB06C-00	36-OF-SB06D-00
DATE SAMPLED	02/21/95	02/21/95	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	1.8 UJ	2.1 UJ	2.5 UJ	2.9 UJ	2.1 UJ	2.7 UJ
BETA-BHC	1.8 UJ	2.1 U	2.5 UJ	2.9 UJ	2.1 UJ	2.7 UJ
DELTA-BHC	1.8 UJ	2.1 UJ	2.5 UJ	2.9 UJ	2.1 UJ	2.7 UJ
GAMMA-BHC (LINDANE)	1.8 UJ	2.1 UJ	2.5 UJ	2.9 UJ	2.1 UJ	4
HEPTACHLOR	1.8 UJ	2.1 U	2.5 UJ	2.9 UJ	2.1 UJ	2.7 UJ
ALDRIN	1.8 UJ	2.1 U	2.5 UJ	2.9 UJ	2.1 UJ	2.7 UJ
HEPTACHLOR EPOXIDE	1.8 UJ	2.1 U	2.5 UJ	2.9 UJ	2.1 UJ	2.7 UJ
ENDOSULFAN I	1.8 UJ	2.1 U	2.5 UJ	2.9 UJ	2.1 UJ	2.7 UJ
DIELDRIN	11 J	6.3	5 UJ	5.8 UJ	11 J	5.4 UJ
4,4'-DDE	180 J	100 J	23 J	14 J	110	11 J
ENDRIN	3.7 UJ	4.2 U	5 UJ	5.8 UJ	4.1 UJ	5.4 UJ
ENDOSULFAN II	3.7 UJ	4.2 U	5 UJ	5.8 UJ	4.1 UJ	5.4 UJ
4,4'-DDD	50 J	85 J	11 J	5.2 J	240	3.2 J
ENDOSULFAN SULFATE	3.7 UJ	4.2 J	5 UJ	5.8 UJ	4.1 UJ	5.4 UJ
4,4'-DDT	35 J	26 J	30 J	23 J	120	7.6 J
METHOXYCHLOR	18 UJ	21 U	25 UJ	29 UJ	21 UJ	27 UJ
ENDRIN KETONE	3.7 UJ	4.2 U	5 UJ	5.8 UJ	4.1 UJ	5.4 UJ
ENDRIN ALDEHYDE	3.7 UJ	4.2 U	5 UJ	5.8 UJ	4.1 UJ	5.4 UJ
ALPHA-CHLORDANE	1.8 UJ	7.2	2.5 UJ	2.9 UJ	3.3 J	2.7 UJ
GAMMA-CHLORDANE	2.6 J	7.6	2.5 UJ	2.9 UJ	1.7 J	2.7 UJ
TOXAPHENE	180 UJ	210 U	250 UJ	290 UJ	210 UJ	270 UJ
AROCLOR-1016	37 UJ	42 U	50 UJ	58 UJ	41 UJ	54 UJ
AROCLOR-1221	74 UJ	84 U	100 UJ	120 UJ	83 UJ	110 UJ
AROCLOR-1232	37 UJ	42 U	50 UJ	58 UJ	41 UJ	54 UJ
AROCLOR-1242	37 UJ	42 U	50 UJ	58 UJ	41 UJ	54 UJ
AROCLOR-1248	37 UJ	42 U	50 UJ	58 UJ	41 UJ	54 UJ
AROCLOR-1254	37 UJ	92	50 UJ	58 UJ	41 UJ	54 UJ
AROCLOR-1260	37 UJ	42 U	50 UJ	58 UJ	41 UJ	54 UJ



**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OF-SB04A*	36-OF-SB04B*	36-OF-SB04C*	36-OF-SB04D*	36-OA-SB01L*	36-OA-SB01M*
DATE SAMPLED	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA
ACETONE	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHENE (TOTAL)	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA
XYLENE (TOTAL)	NA	NA	NA	NA	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OF-SB04A*	36-OF-SB04B*	36-OF-SB04C*	36-OF-SB04D*	36-OA-SB01L*	36-OA-SB01M*
DATE SAMPLED	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	420 U	1800 U	390 U	380 U	NA	NA
BIS(2-CHLOROETHYL)ETHER	420 U	1800 U	390 U	380 U	NA	NA
2-CHLOROPHENOL	420 U	1800 U	390 U	380 U	NA	NA
1,3-DICHLOROBENZENE	420 U	1800 U	390 U	380 U	NA	NA
1,4-DICHLOROBENZENE	420 U	1800 U	390 U	380 U	NA	NA
1,2-DICHLOROBENZENE	420 U	1800 U	390 U	380 U	NA	NA
2-METHYLPHENOL	420 U	1800 U	390 U	380 U	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	420 U	1800 U	390 U	380 U	NA	NA
4-METHYLPHENOL	420 U	1800 U	390 U	380 U	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	420 U	1800 U	390 U	380 U	NA	NA
HEXACHLOROETHANE	420 U	1800 U	390 U	380 U	NA	NA
NITROBENZENE	420 U	1800 U	390 U	380 U	NA	NA
ISOPHORONE	420 U	1800 U	390 U	380 U	NA	NA
2-NITROPHENOL	420 U	1800 U	390 U	380 U	NA	NA
2,4-DIMETHYLPHENOL	420 U	1800 U	390 U	380 U	NA	NA
BIS(2-CHLOROETHOXY)METHANE	420 U	1800 U	390 U	380 U	NA	NA
2,4-DICHLOROPHENOL	420 U	1800 U	390 U	380 U	NA	NA
1,2,4-TRICHLOROBENZENE	420 U	1800 U	390 U	380 U	NA	NA
NAPHTHALENE	420 U	820 J	390 U	380 U	NA	NA
4-CHLOROANILINE	420 U	1800 U	390 U	380 U	NA	NA
HEXACHLOROBUTADIENE	420 U	1800 U	390 U	380 U	NA	NA
4-CHLORO-3-METHYLPHENOL	420 U	1800 U	390 U	380 U	NA	NA
2-METHYLNAPHTHALENE	420 U	1000 J	390 U	380 U	NA	NA
HEXACHLOROCYCLOPENTADIENE	420 U	1800 U	390 U	380 U	NA	NA
2,4,6-TRICHLOROPHENOL	420 U	1800 U	390 U	380 U	NA	NA
2,4,5-TRICHLOROPHENOL	1000 U	4600 U	970 U	960 U	NA	NA
2-CHLORONAPHTHALENE	420 U	1800 U	390 U	380 U	NA	NA
2-NITROANILINE	1000 U	4600 U	970 U	960 U	NA	NA
DIMETHYLPHTHALATE	420 U	1800 U	390 U	380 U	NA	NA
ACENAPHTHYLENE	420 U	1800 U	390 U	380 U	NA	NA
2,6-DINITROTOLUENE	420 U	1800 U	390 U	380 U	NA	NA
3-NITROANILINE	1000 U	4600 U	970 U	960 U	NA	NA
ACENAPHTHENE	150 J	4200	390 U	380 U	NA	NA
2,4-DINITROPHENOL	1000 U	4600 U	970 U	960 U	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIATION INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OF-SB04A*	36-OF-SB04B*	36-OF-SB04C*	36-OF-SB04D*	36-OA-SB01L*	36-OA-SB01M*
DATE SAMPLED	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	1000 U	4600 U	970 U	960 U	NA	NA
DIBENZOFURAN	100 J	2400	390 U	380 U	NA	NA
2,4-DINITROTOLUENE	420 U	1800 U	390 U	380 U	NA	NA
DIETHYLPHTHALATE	420 U	1800 U	390 U	160 J	NA	NA
4-CHLOROPHENYL-PHENYLETHER	420 U	1800 U	390 U	380 U	NA	NA
FLUORENE	100 J	2200	390 U	380 U	NA	NA
4-NITROANILINE	1000 U	4600 U	970 U	960 U	NA	NA
4,6-DINITRO-2-METHYLPHENOL	1000 U	4600 U	970 U	960 U	NA	NA
N-NITROSODIPHENYLAMINE (1)	420 U	1800 U	390 U	380 U	NA	NA
4-BROMOPHENYL-PHENYLETHER	420 U	1800 U	390 U	380 U	NA	NA
HEXACHLOROBENZENE	420 U	1800 U	390 U	380 U	NA	NA
PENTACHLOROPHENOL	1000 U	4600 U	970 U	960 U	NA	NA
PHENANTHRENE	2800	29000	390 U	76 J	NA	NA
ANTHRACENE	740	8400	390 U	380 U	NA	NA
CARBAZOLE	420 U	2600	390 U	380 U	NA	NA
DI-N-BUTYLPHTHALATE	420 U	1800 U	390 U	380 U	NA	NA
FLUORANTHENE	3400	52000	61 J	160 J	NA	NA
PYRENE	3800	58000	63 J	170 J	NA	NA
BUTYLBENZYLPHTHALATE	99 J	1800 U	390 U	380 U	NA	NA
3,3'-DICHLOROBENZIDINE	420 U	1800 U	390 U	380 U	NA	NA
BENZO(A)ANTHRACENE	2100	39000	39 J	120 J	NA	NA
CHRYSENE	1900	44000	62 J	160 J	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	690	1800 U	150 J	380 U	NA	NA
DI-N-OCTYL PHTHALATE	420 U	1800 U	390 U	380 U	NA	NA
BENZO(B)FLUORANTHENE	3000	64000	84 J	180 J	NA	NA
BENZO(K)FLUORANTHENE	990	12000	390 U	80 J	NA	NA
BENZO(A)PYRENE	1900	43000	50 J	110 J	NA	NA
INDENO(1,2,3-CD)PYRENE	1300	35000	390 U	71 J	NA	NA
DIBENZO(A,H)ANTHRACENE	360 J	5700	390 U	380 U	NA	NA
BENZO(G,H,I)PERYLENE	980	31000	390 U	70 J	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OF-SB04A*	36-OF-SB04B*	36-OF-SB04C*	36-OF-SB04D*	36-OA-SB01L*	36-OA-SB01M*
DATE SAMPLED	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	NA	NA	NA	NA	1.8 U	1.8 U
BETA-BHC	NA	NA	NA	NA	1.8 U	1.8 U
DELTA-BHC	NA	NA	NA	NA	1.8 U	1.8 U
GAMMA-BHC (LINDANE)	NA	NA	NA	NA	1.8 U	1.8 U
HEPTACHLOR	NA	NA	NA	NA	1.8 U	1.8 U
ALDRIN	NA	NA	NA	NA	1.8 U	1.8 U
HEPTACHLOR EPOXIDE	NA	NA	NA	NA	49	180
ENDOSULFAN I	NA	NA	NA	NA	1.8 U	1.8 U
DIELDRIN	NA	NA	NA	NA	3.6 U	3.7 U
4,4'-DDE	NA	NA	NA	NA	250	200
ENDRIN	NA	NA	NA	NA	3.6 U	3.7 U
ENDOSULFAN II	NA	NA	NA	NA	3.6 U	3.7 U
4,4'-DDD	NA	NA	NA	NA	21	50
ENDOSULFAN SULFATE	NA	NA	NA	NA	3.6 U	3.7 U
4,4'-DDT	NA	NA	NA	NA	73	110
METHOXYCHLOR	NA	NA	NA	NA	18 U	18 U
ENDRIN KETONE	NA	NA	NA	NA	3.6 U	3.7 U
ENDRIN ALDEHYDE	NA	NA	NA	NA	3.6 U	3.7 U
ALPHA-CHLORDANE	NA	NA	NA	NA	1.8 U	1.8 U
GAMMA-CHLORDANE	NA	NA	NA	NA	1.8 U	1.8 U
TOXAPHENE	NA	NA	NA	NA	180 U	180 U
AROCLOR-1016	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB01J*	36-OA-SB01K*	36-OF-SB03A*	36-OF-SB03B*	36-OF-SB03C*	36-OF-SB03D*
DATE SAMPLED	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA
ACETONE	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHENE (TOTAL)	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA
XYLENE (TOTAL)	NA	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB01J*	36-OA-SB01K*	36-OF-SB03A*	36-OF-SB03B*	36-OF-SB03C*	36-OF-SB03D*
DATE SAMPLED	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA	NA	NA	NA	NA
4-METHYLPHENOL	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA
DIMETHYLPHTHALATE	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OA-SB01J*	36-OA-SB01K*	36-OF-SB03A*	36-OF-SB03B*	36-OF-SB03C*	36-OF-SB03D*
DATE SAMPLED	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
DIETHYLPHTHALATE	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL-PHENYLETHER	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE (1)	NA	NA	NA	NA	NA	NA
4-BROMOPHENYL-PHENYLETHER	NA	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA
CARBAZOLE	NA	NA	NA	NA	NA	NA
DI-N-BUTYLPHTHALATE	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA
BUTYLBENZYLPHTHALATE	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB01J*	36-OA-SB01K*	36-OF-SB03A*	36-OF-SB03B*	36-OF-SB03C*	36-OF-SB03D*
DATE SAMPLED	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96	05/31/96
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	NA	NA	1.8 U	2 U	2 U	1.9 U
BETA-BHC	NA	NA	1.8 U	2 U	2 U	1.9 U
DELTA-BHC	NA	NA	1.8 U	2 U	2 U	1.9 U
GAMMA-BHC (LINDANE)	NA	NA	1.8 U	2 U	2 U	1.9 U
HEPTACHLOR	NA	NA	1.8 U	2 U	2 U	1.9 U
ALDRIN	NA	NA	1.8 U	2 U	2 U	1.9 U
HEPTACHLOR EPOXIDE	NA	NA	1.8	2 U	2	1.9
ENDOSULFAN I	NA	NA	1.8 U	2 U	2 U	1.9 U
DIELDRIN	NA	NA	3.6 U	4 U	4 U	3.9 U
4,4'-DDE	NA	NA	27	26	36	80
ENDRIN	NA	NA	3.6 U	4 U	4 U	3.9 U
ENDOSULFAN II	NA	NA	3.6 U	4 U	4 U	3.9 U
4,4'-DDD	NA	NA	14	26	28	120
ENDOSULFAN SULFATE	NA	NA	3.6 U	4 U	4 U	3.9 U
4,4'-DDT	NA	NA	12	15	6.8	15
METHOXYCHLOR	NA	NA	18 U	20 U	20 U	19 U
ENDRIN KETONE	NA	NA	3.6 U	4 U	4 U	3.9 U
ENDRIN ALDEHYDE	NA	NA	3.6 U	4 U	4 U	3.9 U
ALPHA-CHLORDANE	NA	NA	1.8 U	4	5.6	5.8
GAMMA-CHLORDANE	NA	NA	1.8 U	2.4	4.4	5.1
TOXAPHENE	NA	NA	180 U	200 U	200 U	190 U
AROCLOR-1016	180 U	380 U	NA	NA	NA	NA
AROCLOR-1221	370 U	770 U	NA	NA	NA	NA
AROCLOR-1232	180 U	380 U	NA	NA	NA	NA
AROCLOR-1242	180 U	380 U	NA	NA	NA	NA
AROCLOR-1248	4100	20000	NA	NA	NA	NA
AROCLOR-1254	180 U	380 U	NA	NA	NA	NA
AROCLOR-1260	180 U	380 U	NA	NA	NA	NA



**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION	AVERAGE OF POSITIVE DETECTIONS	MEDIAN OF POSITIVE DETECTIONS
<b>VOLATILES</b>								
CHLOROMETHANE	10 U	130 U	ND	ND		0/61	NA	NA
BROMOMETHANE	10 U	130 U	ND	ND		0/61	NA	NA
VINYL CHLORIDE	10 U	130 U	ND	ND		0/61	NA	NA
CHLOROETHANE	10 U	130 U	ND	ND		0/61	NA	NA
METHYLENE CHLORIDE	10 U	130 U	ND	ND		0/61	NA	NA
ACETONE	10 U	130 U	24 J	28	36-FDA-SB03-00	2/61	26.00	26.00
CARBON DISULFIDE	10 U	130 U	ND	ND		0/61	NA	NA
1,1-DICHLOROETHENE	10 U	130 U	ND	ND		0/61	NA	NA
1,1-DICHLOROETHANE	10 U	130 U	ND	ND		0/61	NA	NA
1,2-DICHLOROETHENE (TOTAL)	10 U	130 U	ND	ND		0/61	NA	NA
CHLOROFORM	10 U	130 U	ND	ND		0/61	NA	NA
1,2-DICHLOROETHANE	10 U	130 U	ND	ND		0/61	NA	NA
2-BUTANONE	10 U	130 U	ND	ND		0/61	NA	NA
1,1,1-TRICHLOROETHANE	10 U	130 U	ND	ND		0/61	NA	NA
CARBON TETRACHLORIDE	10 U	130 U	ND	ND		0/61	NA	NA
BROMODICHLOROMETHANE	10 U	130 U	ND	ND		0/61	NA	NA
1,2-DICHLOROPROPANE	10 U	130 U	ND	ND		0/61	NA	NA
CIS-1,3-DICHLOROPROPENE	10 U	130 U	ND	ND		0/61	NA	NA
TRICHLOROETHENE	10 U	130 U	4 J	4 J	36-FDA-SB03-00	1/61	4.00	4.00
DIBROMOCHLOROMETHANE	10 U	130 U	ND	ND		0/61	NA	NA
1,1,2-TRICHLOROETHANE	10 U	130 U	ND	ND		0/61	NA	NA
BENZENE	10 U	130 U	ND	ND		0/61	NA	NA
TRANS-1,3-DICHLOROPROPENE	10 U	130 U	ND	ND		0/61	NA	NA
BROMOFORM	10 U	130 U	ND	ND		0/61	NA	NA
4-METHYL-2-PENTANONE	10 U	130 U	ND	ND		0/61	NA	NA
2-HEXANONE	10 U	130 U	ND	ND		0/61	NA	NA
TETRACHLOROETHENE	11 U	130 U	2 J	3 J	36-GW12-00	3/61	2.33	2.00
1,1,2,2-TETRACHLOROETHANE	10 U	130 U	ND	ND		0/61	NA	NA
TOLUENE	10 U	130 U	8 J	98	36-OF-SB01-00	4/61	41.75	30.50
CHLOROBENZENE	10 U	130 U	ND	ND		0/61	NA	NA
ETHYLBENZENE	10 U	130 U	ND	ND		0/61	NA	NA
STYRENE	10 U	130 U	39 J	39 J	36-GS-SB03-00	1/61	39.00	39.00
XYLENE (TOTAL)	10 U	130 U	7 J	7 J	36-OF-SB06B-00	1/61	7.00	7.00

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION	AVERAGE OF POSITIVE DETECTIONS	MEDIAN OF POSITIVE DETECTIONS
<b>SEMIVOLATILES</b>								
PHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
BIS(2-CHLOROETHYL)ETHER	350 U	1800 U	ND	ND		0/61	NA	NA
2-CHLOROPHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
1,3-DICHLOROBENZENE	350 U	1800 U	ND	ND		0/61	NA	NA
1,4-DICHLOROBENZENE	350 U	1800 U	ND	ND		0/61	NA	NA
1,2-DICHLOROBENZENE	350 U	1800 U	ND	ND		0/61	NA	NA
2-METHYLPHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	350 U	1800 U	ND	ND		0/61	NA	NA
4-METHYLPHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	350 U	1800 U	320 J	320 J	36-DAB-SB03-00	1/61	320.00	320.00
HEXACHLOROETHANE	350 U	1800 U	ND	ND		0/61	NA	NA
NITROBENZENE	350 U	1800 U	ND	ND		0/61	NA	NA
ISOPHORONE	350 U	1800 U	ND	ND		0/61	NA	NA
2-NITROPHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
2,4-DIMETHYLPHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
BIS(2-CHLOROETHOXY)METHANE	350 U	1800 U	ND	ND		0/61	NA	NA
2,4-DICHLOROPHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
1,2,4-TRICHLOROBENZENE	350 U	1800 U	ND	ND		0/61	NA	NA
NAPHTHALENE	350 U	580 U	48 J	820 J	36-OF-SB04B*	3/61	329.33	120.00
4-CHLOROANILINE	350 U	1800 U	ND	ND		0/61	NA	NA
HEXACHLOROBUTADIENE	350 U	1800 U	ND	ND		0/61	NA	NA
4-CHLORO-3-METHYLPHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
2-METHYLNAPHTHALENE	350 U	580 U	54 J	1000 J	36-OF-SB04B*	3/61	378.67	82.00
HEXACHLOROCYCLOPENTADIENE	350 U	1800 U	ND	ND		0/61	NA	NA
2,4,6-TRICHLOROPHENOL	350 U	1800 U	ND	ND		0/61	NA	NA
2,4,5-TRICHLOROPHENOL	880 U	4600 U	ND	ND		0/61	NA	NA
2-CHLORONAPHTHALENE	350 U	1800 U	ND	ND		0/61	NA	NA
2-NITROANILINE	880 U	4600 U	ND	ND		0/61	NA	NA
DIMETHYLPHTHALATE	350 U	1800 U	ND	ND		0/61	NA	NA
ACENAPHTHYLENE	350 U	1800 U	ND	ND		0/61	NA	NA
2,6-DINITROTOLUENE	350 U	1800 U	ND	ND		0/61	NA	NA
3-NITROANILINE	880 U	4600 U	ND	ND		0/61	NA	NA
ACENAPHTHENE	350 U	580 U	150 J	4200 J	36-OF-SB04B*	3/61	1560.00	330.00
2,4-DINITROPHENOL	880 U	4600 U	ND	ND		0/61	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION	AVERAGE OF POSITIVE DETECTIONS	MEDIAN OF POSITIVE DETECTIONS
<b>SEMIVOLATILES cont</b>								
4-NITROPHENOL	880 U	4600 U	ND	ND		0/61	NA	NA
DIBENZOFURAN	350 U	580 U	100 J	2400	36-OF-SB04B*	3/61	883.33	150.00
2,4-DINITROTOLUENE	350 U	1800 U	ND	ND		0/61	NA	NA
DIETHYLPHTHALATE	350 U	1800 U	160 J	160 J	36-OF-SB04D*	1/61	160.00	160.00
4-CHLOROPHENYL-PHENYLETHER	350 U	1800 U	ND	ND		0/61	NA	NA
FLUORENE	350 U	580 U	100 J	2200	36-OF-SB04B*	3/61	833.33	200.00
4-NITROANILINE	880 U	4600 U	ND	ND		0/57	NA	NA
4,6-DINITRO-2-METHYLPHENOL	880 U	4600 U	ND	ND		0/61	NA	NA
N-NITROSODIPHENYLAMINE (1)	350 U	1800 U	ND	ND		0/61	NA	NA
4-BROMOPHENYL-PHENYLETHER	350 U	1800 U	ND	ND		0/61	NA	NA
HEXACHLOROBENZENE	350 U	1800 U	ND	ND		0/61	NA	NA
PENTACHLOROPHENOL	880 U	4600 U	ND	ND		0/61	NA	NA
PHENANTHRENE	350 U	580 U	59 J	29000	36-OF-SB04B*	7/61	4946.14	120.00
ANTHRACENE	350 U	580 U	740	8400	36-OF-SB04B*	3/61	3306.67	780.00
CARBAZOLE	350 U	580 U	240 J	2600	36-OF-SB04B*	2/61	1420.00	1420.00
DI-N-BUTYLPHTHALATE	110 B	3200 U	ND	ND		0/61	NA	NA
FLUORANTHENE	350 U	580 U	54 J	52000	36-OF-SB04B*	9/61	6833.67	140.00
PYRENE	350 U	580 U	41 J	58000	36-OF-SB04B*	12/61	6143.08	125.00
BUTYLBENZYLPHTHALATE	350 U	1800 U	51 J	290 J	36-OA-SB03-00	4/61	137.50	104.50
3,3'-DICHLOROBENZIDINE	350 U	1800 U	ND	ND		0/61	NA	NA
BENZO(A)ANTHRACENE	350 U	580 U	39 J	39000	36-OF-SB04B*	6/61	7534.17	1110.00
CHRYSENE	350 U	580 U	51 J	44000	36-OF-SB04B*	9/61	5666.33	91.00
BIS(2-ETHYLHEXYL)PHTHALATE	350 U	1800 U	46 J	690	36-OF-SB04A*	18/61	290.06	195.00
DI-N-OCTYL PHTHALATE	350 U	1800 U	ND	ND		0/61	NA	NA
BENZO(B)FLUORANTHENE	350 U	580 U	51 J	64000	36-OF-SB04B*	7/61	10142.29	180.00
BENZO(K)FLUORANTHENE	350 U	580 U	39 J	12000	36-OF-SB04B*	5/61	2921.80	990.00
BENZO(A)PYRENE	350 U	580 U	40 J	43000	36-OF-SB04B*	6/61	8066.67	1005.00
INDENO(1,2,3-CD)PYRENE	350 U	580 U	46 J	35000	36-OF-SB04B*	6/61	6529.17	685.50
DIBENZO(A,H)ANTHRACENE	350 U	580 U	360 J	5700	36-OF-SB04B*	3/61	2260.00	720.00
BENZO(G,H,I)PERYLENE	350 U	580 U	70 J	31000	36-OF-SB04B*	4/61	8612.50	1690.00

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION	AVERAGE OF POSITIVE DETECTIONS	MEDIAN OF POSITIVE DETECTIONS
<b>PESTICIDES/PCBs</b>								
ALPHA-BHC	1.8 UJ	100 U	ND	ND		0/63	NA	NA
BETA-BHC	1.8 U	100 U	ND	ND		0/63	NA	NA
DELTA-BHC	1.8 U	100 U	ND	ND		0/63	NA	NA
GAMMA-BHC (LINDANE)	1.8 U	100 U	4	4	36-OF-SB06D-00	1/63	4.00	4.00
HEPTACHLOR	1.8 U	100 U	1.9	1.9	36-FCA-SB12-00	1/63	1.90	1.90
ALDRIN	1.8 U	100 U	5.5 J	1400	36-OF-SB03-00	3/63	470.87	7.10
HEPTACHLOR EPOXIDE	1.8 U	100 U	1.8	180	36-OA-SB01M*	15/63	24.51	6.30
ENDOSULFAN I	1.8 U	430 U	8.3 J	36 J	36-OA-SB01E-00	3/63	25.10	31.00
DIELDRIN	3.6 U	430 U	2 J	16000	36-OF-SB03-00	21/63	786.55	11.00
4,4'-DDE	3.7 UJ	40 UJ	2.2 J	2600	36-OA-SB01A-00	55/63	183.86	42.00
ENDRIN	3.6 U	200 U	9.9 J	9.9 J	36-OA-SB08-00	1/63	9.90	9.90
ENDOSULFAN II	3.6 U	200 U	ND	ND		0/63	NA	NA
4,4'-DDD	3.7 U	5.2 UJ	2.8 J	550 J	36-OA-SB01A-00	43/63	51.83	15.00
ENDOSULFAN SULFATE	3.6 U	200 U	2.5 J	4.2 J	36-OF-SB06-00	2/63	3.35	3.35
4,4'-DDT	3.8 U	5.2 UJ	1.8 J	12000	36-OA-SB01A-00	54/63	334.36	18.50
METHOXYCHLOR	18 U	1000 U	ND	ND		0/63	NA	NA
ENDRIN KETONE	3.6 U	200 U	15 J	15 J	36-OF-SB03-00	1/63	15.00	15.00
ENDRIN ALDEHYDE	3.6 U	200 U	12 J	12 J	36-OF-SB02-00	1/63	12.00	12.00
ALPHA-CHLORDANE	1.8 U	430 U	1.2 J	980	36-OA-SB05-00	18/63	65.50	6.40
GAMMA-CHLORDANE	1.8 U	100 U	1.2 J	840	36-OA-SB05-00	13/63	72.23	5.10
TOXAPHENE	180 U	10000 U	ND	ND		0/63	NA	NA
AROCLOR-1016	37 U	2000 U	ND	ND		0/59	NA	NA
AROCLOR-1221	73 UJ	4000 U	ND	ND		0/59	NA	NA
AROCLOR-1232	37 U	2000 U	ND	ND		0/59	NA	NA
AROCLOR-1242	37 U	2000 U	ND	ND		0/59	NA	NA
AROCLOR-1248	37 U	2000 U	68 J	24000	36-OA-SB011-00	11/59	5038.00	1400.00
AROCLOR-1254	37 U	2000 U	92	530 J	36-OA-SB01-00	3/59	277.33	210.00
AROCLOR-1260	37 U	2000 U	ND	ND		0/59	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 INORGANIC ANALYTES

LOCATION	36-DAB-SB01-00	36-DAB-SB02-00	36-DAB-SB03-00	36-DAD-SB01-00	36-DAD-SB02-00	36-DAD-SB03-00
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	2200	5890	3770	5510	3670	3460
ANTIMONY, TOTAL	2.2 UJ	2.4 UJ	4.8 UJ	3.3 J	2.6 UJ	8.4 J
ARSENIC, TOTAL	1.5	0.56	2.3	1.9	1.6	1.9
BARIUM, TOTAL	25.8	21.8	47.3	30.6	42.3	55.1
BERYLLIUM, TOTAL	0.06 U	0.07 U	0.21 U	0.08 U	0.07 U	0.23 U
CADMIUM, TOTAL	0.6 U	0.64 U	1.3 U	2.3	0.69 U	2.8 U
CALCIUM, TOTAL	519	1340	1390	3610	2630	2640
CHROMIUM, TOTAL	5.1 J	7 J	7.7	15 J	7.5 J	10.7
COBALT, TOTAL	0.47 U	0.5 U	1.4	3.1	1	1.6
COPPER, TOTAL	30.3	15.2	99.1	15	38.3	57.8
IRON, TOTAL	7190 J	4190 J	5810	84600 J	5020 J	13100
LEAD, TOTAL	71.3 J	33.4 J	91.9 J	111 J	86.3 J	222 J
MAGNESIUM, TOTAL	121	225	191	1020	299	440
MANGANESE, TOTAL	91.1	32	102	227	77.8	190
MERCURY, TOTAL	1.4 J	0.5 J	1.2	0.16 J	1.7 J	1.7
NICKEL, TOTAL	2.4	2	4.8	10.5	5.6	6.6
POTASSIUM, TOTAL	120	183	206	239	220	191
SELENIUM, TOTAL	0.28 U	0.29 U	0.38 U	0.49 U	0.29 U	0.43 U
SILVER, TOTAL	0.51 U	0.55 U	0.7 U	0.7 U	0.61	0.77 U
SODIUM, TOTAL	27.4	83.3	77.4	358	43.3	55
THALLIUM, TOTAL	0.13 U	0.14 U	0.18 U	0.23 U	0.14 U	0.2 U
VANADIUM, TOTAL	5.9	8.7	9.1	43.9	13.8	18.2
ZINC, TOTAL	155	65.8	224	1090	227	303

SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES

LOCATION	36-FCA-SB01-00	36-FCA-SB02-00	36-FCA-SB03-00	36-FCA-SB04-00	36-FCA-SB05-00	36-FCA-SB06-00
DATE SAMPLED	02/27/95	02/22/95	02/23/95	02/25/95	02/27/95	02/23/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	5450	6760	7520	2760	12900	13800
ANTIMONY, TOTAL	2.8 R	6.2 UJ	5 UJ	4.8 UJ	2.5 R	2.5 UJ
ARSENIC, TOTAL	0.85 U	0.61	0.84	0.45 U	7.7 J	1.3
BARIUM, TOTAL	25	16.4	18.1	5.6	23.2	20
BERYLLIUM, TOTAL	0.08 U	0.27 U	0.22 U	0.21 U	0.16 U	0.07 U
CADMIUM, TOTAL	0.75 U	0.83 U	0.67 U	0.65 U	0.68 U	0.68 U
CALCIUM, TOTAL	8630	2240	595	405	1900	340
CHROMIUM, TOTAL	8.8	10	9.6	4.1	23.1	20.1 J
COBALT, TOTAL	1.1 U	1.1 U	0.72 U	0.7 U	1.1 U	0.54 U
COPPER, TOTAL	3.7 U	1.5 J	1 U	0.44 U	3.2 U	1.4
IRON, TOTAL	3370	7100	5930	2240	16100	14300 J
LEAD, TOTAL	21.7	13.5	14.2	8.6	15.8	12.7
MAGNESIUM, TOTAL	372	320	301	126	637	534
MANGANESE, TOTAL	29.1	5.4	6.6	4.9	13.9	8.1
MERCURY, TOTAL	0.11 U	0.16 U	0.1 U	0.09 U	0.14 U	0.12 UJ
NICKEL, TOTAL	1.9	3.2 U	2.6 U	2.5 U	1.4	1.2
POTASSIUM, TOTAL	270	233	165 U	160 U	676	554
SELENIUM, TOTAL	0.41 J	0.44 U	0.32 U	0.36 U	0.38 J	0.47
SILVER, TOTAL	0.65 U	0.89 UJ	0.72 U	0.7 R	0.58 U	0.58 U
SODIUM, TOTAL	32.2	44.4	36.5	20.6 U	25.2	21.5
THALLIUM, TOTAL	0.18 U	0.2 U	0.15 U	0.26 U	0.16 UJ	0.14 U
VANADIUM, TOTAL	11.1	21.8	19.3	7.9	37.3	32.4
ZINC, TOTAL	31.4	9.3 J	6.9	2.1	9.1	5.4

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 INORGANIC ANALYTES

LOCATION	36-FCA-SB07-00	36-FCA-SB08-00	36-FCA-SB09-00	36-FCA-SB10-00	36-FCA-SB11-00	36-FCA-SB12-00
DATE SAMPLED	02/22/95	02/27/95	02/22/95	02/22/95	02/23/95	02/22/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	1610	4800	17600	2630	9390	2710
ANTIMONY, TOTAL	4 UJ	1.8 R	5.3 UJ	3.8 UJ	2.4 UJ	3.6 UJ
ARSENIC, TOTAL	0.4	2.7 J	7.3	0.55	0.39 U	0.34 U
BARIUM, TOTAL	5.5 U	9.7	24.1	8.9	12.8	10.3
BERYLLIUM, TOTAL	0.17 U	0.06 U	0.23 U	0.18	0.07 U	0.16 U
CADMIUM, TOTAL	0.54 U	0.48 U	0.72 U	0.51 U	0.65 U	0.49 U
CALCIUM, TOTAL	506	691	106	239	150	313
CHROMIUM, TOTAL	2.3	9.2	27.2	4.1	10.1 J	2.5
COBALT, TOTAL	0.58 U	0.5 U	0.77 U	0.71 U	0.51 U	0.52 U
COPPER, TOTAL	0.47 U	0.94 U	2.3 U	4.1 J	0.9 U	1.2 U
IRON, TOTAL	1210	6470	14500	4070	5400 J	1220
LEAD, TOTAL	4.3	9.8 J	10.3	19.2	10.2	11.5 J
MAGNESIUM, TOTAL	84.1	238	750	77.1	260	78.9
MANGANESE, TOTAL	8.8	4.9	7.9	12.1	4.9	7
MERCURY, TOTAL	0.1 U	0.09 U	0.11 U	0.11 U	0.13 UJ	0.11 U
NICKEL, TOTAL	2.1 U	1	2.8 U	2 U	0.94 U	1.9 U
POTASSIUM, TOTAL	132 U	286	527	126 U	289	120 U
SELENIUM, TOTAL	0.3 U	0.26 UJ	0.4 U	0.33 U	0.31 U	0.27 U
SILVER, TOTAL	0.58 U	0.41 U	0.77 U	0.55 UJ	0.56 U	0.52 U
SODIUM, TOTAL	12.9	17.8	40.8	26.8 U	12	9.6
THALLIUM, TOTAL	0.14 U	0.12 U	0.19 U	0.15 U	0.14 U	0.12 U
VANADIUM, TOTAL	5.6	16.4	36	7.3	16.3	5.5
ZINC, TOTAL	5.5 U	3.2	6.6	7.4 J	2.7	7.1

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 INORGANIC ANALYTES

LOCATION	36-FCA-SB13-00	36-FCA-SB14-00	36-FDA-SB01-00	36-FDA-SB02-00	36-FDA-SB03-00	36-FDA-SB04-00
DATE SAMPLED	02/27/95	02/23/95	02/23/95	02/27/95	02/22/95	02/24/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	2300	4400	5920	3000	1470	2670
ANTIMONY, TOTAL	4.5 R	3.5 UJ	4.6 UJ	4.5 UJ	2.7 UJ	4.2 UJ
ARSENIC, TOTAL	1.6	1.5	1.1	0.44 U	0.46	0.34 U
BARIUM, TOTAL	5	10	30.9	12.3	9.3	10
BERYLLIUM, TOTAL	0.19 U	0.15 U	0.2 U	0.19 U	0.15 U	0.18 U
CADMIUM, TOTAL	0.6 U	0.48 U	0.95 U	0.6 U	0.71 U	0.56 U
CALCIUM, TOTAL	212 J	168	2630	654	347	416
CHROMIUM, TOTAL	5 J	6.1	9	3.6	3	2.5
COBALT, TOTAL	0.65 U	0.51 U	0.88	0.65 U	0.69 U	0.6 U
COPPER, TOTAL	0.56	1.1 U	27.1	4.2	5	0.84 U
IRON, TOTAL	3210	3520	5300	1740	1210	1390
LEAD, TOTAL	4.7	16	87.1 J	23.7	14.5	8.3
MAGNESIUM, TOTAL	108	146	232	127	52	93.8
MANGANESE, TOTAL	6 J	4.3	67.3	10.6	9	10
MERCURY, TOTAL	0.12 U	0.13 U	0.29	0.13 U	0.1 U	0.11 U
NICKEL, TOTAL	2.3	1.8 U	3.8	2.3 U	1.4	2.2 U
POTASSIUM, TOTAL	148 U	123	153 U	174	64.1 U	138 U
SELENIUM, TOTAL	0.53	0.36 U	0.36 U	0.35 U	0.33 UJ	0.27 U
SILVER, TOTAL	0.65 U	0.51 U	0.67 U	0.65 R	0.61 U	0.6 U
SODIUM, TOTAL	14.3	22.6	30.3 U	22.8 U	14 U	10.8 U
THALLIUM, TOTAL	0.25 U	0.17 U	0.17 U	0.25 U	0.15 U	0.12 U
VANADIUM, TOTAL	7.9	13.3	15.4	7.2	4.8	4.7 U
ZINC, TOTAL	3.1	4.7 U	103	17.8	15.8	21.1



SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 INORGANIC ANALYTES

LOCATION	36-FDA-SB05-00	36-FDA-SB06-00	36-GW07-00	36-GW09-00	36-GW10-00	36-GW11-00
DATE SAMPLED	02/27/95	02/25/95	03/07/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	1010	2610	5680	6370	2280	2790
ANTIMONY, TOTAL	2.3 UJ	4.8 J	2.6 UJ	3.1 UJ	2.4 UJ	4.2 UJ
ARSENIC, TOTAL	0.42 U	0.39 U	0.51 J	1.7	0.47	0.56
BARIUM, TOTAL	4.5	10.7	8.8	17.9	5.3	18.2
BERYLLIUM, TOTAL	0.17 U	0.2 U	0.098 U	0.13 U	0.17 U	0.18 U
CADMIUM, TOTAL	0.61 U	0.62 U	0.68 U	0.84 U	0.65 U	0.56 U
CALCIUM, TOTAL	512	20400	134 J	14800 J	66.1 U	2110
CHROMIUM, TOTAL	1.6	3.9	5.2	13.8	2.3	5.1
COBALT, TOTAL	0.49 U	0.66 U	0.57 U	1.1 U	0.51 U	0.6 U
COPPER, TOTAL	1.6	6.7	0.94 U	12.5	0.89 U	9.9
IRON, TOTAL	863	1660	2960 J	3690 J	1330 J	2050
LEAD, TOTAL	14.5	51.9 J	7.8 U	19.2 U	4.7 U	35.3
MAGNESIUM, TOTAL	56	291	218	275	56.6	114
MANGANESE, TOTAL	14.3	24.2	3	45.8	2.1	25.9
MERCURY, TOTAL	0.1 U	0.1 U	0.11 U	0.16 U	0.088 U	0.11
NICKEL, TOTAL	0.89 U	2.4 U	0.98 U	1.2	0.94 U	2.2 U
POTASSIUM, TOTAL	33.7	152 U	174	279	53.4 U	186
SELENIUM, TOTAL	0.33 U	0.31 U	0.31 U	0.45 U	0.28 U	0.41 U
SILVER, TOTAL	0.53 U	0.66 U	0.59 U	0.72 U	0.56 U	0.6 U
SODIUM, TOTAL	6 U	46.6 U	21.6 U	20.2 U	4.3 U	30.1 U
THALLIUM, TOTAL	0.37 U	0.14 U	0.14 U	0.21 U	0.13 U	0.25 U
VANADIUM, TOTAL	2.6 U	5.5	7.8	10.9	4.2	5.5
ZINC, TOTAL	17.2	27.5	2.2	18.8	2.8	45.8

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-OA-SB01-00	36-OA-SB01A-00	36-OA-SB01B-00	36-OA-SB01C-00	36-OA-SB01D-00	36-OA-SB02-00
DATE SAMPLED	02/22/95	03/09/95	03/09/95	03/09/95	03/09/95	02/25/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	6950	3840	1560	2830	3910	3560
ANTIMONY, TOTAL	2 UJ	4.7 UJ	4.4 UJ	4.7 UJ	4.4 UJ	4.8 UJ
ARSENIC, TOTAL	2.7	5.1	0.91 J	1.5 J	0.82 J	2.1
BARIUM, TOTAL	19.3	45.2	4.8	12.3	10.8	19.2
BERYLLIUM, TOTAL	0.11 U	0.2 U	0.19 U	0.2 U	0.19 U	0.21 U
CADMIUM, TOTAL	0.87	0.64 U	0.6 U	0.63 U	0.6 U	0.64 U
CALCIUM, TOTAL	35800	979	9070	26500	47400	1700
CHROMIUM, TOTAL	11.3	6.7	4.3	5.4	6.1	4.1
COBALT, TOTAL	0.84 U	0.68 U	0.64 U	0.68 U	0.64 U	0.69 U
COPPER, TOTAL	13.4	5.7	3.2	8.3	5.8	1.8
IRON, TOTAL	4660	4600	1380	2410	2690	4060
LEAD, TOTAL	62.6	28.6	11.7	119	19.5	28.8
MAGNESIUM, TOTAL	675	157	206	502	665	201
MANGANESE, TOTAL	33.7	8.5	7.4	38.6	36.6	68.7
MERCURY, TOTAL	0.09 U	0.09 U	0.09 U	0.09 U	0.1 U	0.13 U
NICKEL, TOTAL	2.8	2.5 U	2.3 U	2.4 U	2.3 U	2.5 U
POTASSIUM, TOTAL	280	156 U	147 U	155 U	146 U	157 U
SELENIUM, TOTAL	0.31 UJ	0.53	0.33 U	0.33 U	0.31 U	0.39
SILVER, TOTAL	0.46 U	0.68 U	0.64 U	0.68 U	0.64 U	0.69 R
SODIUM, TOTAL	120	30.4 U	20	37.8	89.1	19.1 U
THALLIUM, TOTAL	0.15 U	0.24 U	0.31 U	0.31 UJ	0.29 UJ	0.27 U
VANADIUM, TOTAL	13.4	10	3.8	8.8	8.3	11.8
ZINC, TOTAL	51.3	13.7	15	43	25	74

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-OA-SB03-00	36-OA-SB04-00	36-OA-SB05-00	36-OA-SB06-00	36-OA-SB07-00	36-OA-SB08-00
DATE SAMPLED	02/25/95	02/24/95	02/28/95	02/27/95	02/24/95	02/27/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	4020	6220	5040	3340	3960	7010
ANTIMONY, TOTAL	3.5 UJ	6.3 J	2.8 R	2.5 R	6.3 J	31.7 J
ARSENIC, TOTAL	0.43 U	2.4	1.2 J	0.76 J	4.1	10.4
BARIUM, TOTAL	9.1	73	43.5	31.9	53.8	141
BERYLLIUM, TOTAL	0.15 U	0.21 U	0.18 U	0.07 U	0.19 U	0.25 U
CADMIUM, TOTAL	0.47 U	1.7 U	1.8	0.68 U	3.1 U	6.3
CALCIUM, TOTAL	502	59700	42000	2890	2240	4150
CHROMIUM, TOTAL	4.9	13.3	14.9	5.6	16.6	51.6
COBALT, TOTAL	0.51 U	1.6	1 U	0.75 U	2.7	9
COPPER, TOTAL	0.73	105	69.2	11.1	124	445
IRON, TOTAL	2870	10900	5100	2260	32200	86200
LEAD, TOTAL	7.1	477 J	116	35.6 J	299 J	836 J
MAGNESIUM, TOTAL	153	687	341	164	278	535
MANGANESE, TOTAL	4.9	89.9	49	31.7	267	940
MERCURY, TOTAL	0.11 U	0.84	2.4	0.29	0.3	1.4
NICKEL, TOTAL	1.8 U	6.5	15.8	1.4	8.3	48.3
POTASSIUM, TOTAL	221	157 U	150	136	271	277
SELENIUM, TOTAL	0.34 U	0.45	0.47 J	0.35 UJ	0.33 U	0.39
SILVER, TOTAL	0.51 R	3.8	3.1	0.58 U	0.62 U	0.7
SODIUM, TOTAL	20.2 U	86.7	37.8	12.2	49.2 U	83.5
THALLIUM, TOTAL	0.25 U	0.15 U	0.18 U	0.16 U	0.16 UJ	1.9 UJ
VANADIUM, TOTAL	7.9	15	14.8	5.3	24.2	46
ZINC, TOTAL	2.3	396	422	52.6	449	1320

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**- MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-OF-SB01-00	36-OF-SB02-00	36-OF-SB03-00	36-OF-SB04-00	36-OF-SB05-00	36-OF-SB06-00
DATE SAMPLED	02/21/95	02/21/95	02/21/95	02/22/95	02/21/95	02/21/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	2560	6620	3990	5820	3650	8160
ANTIMONY, TOTAL	2.3 UJ	3.4 UJ	7 J	4.6 UJ	3.2 UJ	2.5 UJ
ARSENIC, TOTAL	0.39	1.2	1.9	1.4	0.5	0.92 J
BARIUM, TOTAL	8.8	43.4	20	69.3	21.9	27.1
BERYLLIUM, TOTAL	0.11 U	0.15 U	0.17 U	0.2 U	0.14 U	0.11 U
CADMIUM, TOTAL	0.61 U	0.67	0.53 U	2.1	0.44 U	1.4
CALCIUM, TOTAL	3150	40300	29300	9350	3120	103000
CHROMIUM, TOTAL	1.9	10.6	5.9	21.5	8.9	11.5
COBALT, TOTAL	0.49 U	1 U	0.85 U	2.9 U	1.1 U	0.92
COPPER, TOTAL	1	52.6 J	29 J	105 J	28.9 J	22.1
IRON, TOTAL	1140	5520	5220	6370	13000	5280
LEAD, TOTAL	4.5	69	41	234	43.3	21.7
MAGNESIUM, TOTAL	70.8	321	228	903	133	587
MANGANESE, TOTAL	9.2	40.6	54.9	188	46.1	35.4
MERCURY, TOTAL	0.09 U	0.38	0.12	0.1 U	0.15	0.23
NICKEL, TOTAL	0.89 U	4.7	2.1 U	10.5	6.5	2.5
POTASSIUM, TOTAL	72.4 U	113 U	185	315	107 U	249
SELENIUM, TOTAL	0.28 UJ	0.32	0.28 U	0.3 U	0.29 U	0.35 UJ
SILVER, TOTAL	0.53 U	3 J	0.72 J	12 J	0.47 UJ	2
SODIUM, TOTAL	20 U	40.6	41.7	144	22.9 U	95
THALLIUM, TOTAL	0.13 U	0.13 U	0.13 U	0.14 U	0.14 U	0.16 U
VANADIUM, TOTAL	2.9	10.1	6	19	5.2	9.4
ZINC, TOTAL	4.7	276 J	108 J	434 J	53.8 J	58.4

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-OF-SB06A-00	36-OF-SB06B-00	36-OF-SB06C-00	36-OF-SB06D-00
DATE SAMPLED	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>				
ALUMINUM, TOTAL	4430	7390	4870	4540
ANTIMONY, TOTAL	3.3 UJ	6 UJ	4.9 UJ	6.2 UJ
ARSENIC, TOTAL	1.5	1.6 J	1	0.91
BARIUM, TOTAL	13.7	18.9	26	14.4
BERYLLIUM, TOTAL	0.23 U	0.26 U	0.21 U	0.27 U
CADMIUM, TOTAL	0.87 U	0.81 U	0.86	0.84 U
CALCIUM, TOTAL	10400 J	29800	21800	15600
CHROMIUM, TOTAL	6.1	7.8	7.6	5.2
COBALT, TOTAL	1.1 U	0.87 U	0.88	0.9 U
COPPER, TOTAL	12.6	12.4	19.8	9.8
IRON, TOTAL	3450 J	4920	29700	3010
LEAD, TOTAL	17.9 U	25.1	112	18.1
MAGNESIUM, TOTAL	185	354	251	257
MANGANESE, TOTAL	25.8	47.5	118	43.3
MERCURY, TOTAL	0.13 U	0.16 U	0.2	0.16 U
NICKEL, TOTAL	1.5	3.1 U	3.5	3.2 U
POTASSIUM, TOTAL	184	492	174	319
SELENIUM, TOTAL	0.47	0.62 U	0.33 U	0.53
SILVER, TOTAL	0.75 U	0.87 U	0.71 U	0.9 U
SODIUM, TOTAL	24.3 U	52.7	51.7 U	32.6 U
THALLIUM, TOTAL	0.18 U	0.38 U	0.2 U	0.3 U
VANADIUM, TOTAL	9.1	13	6.7	8.4
ZINC, TOTAL	20.2	27.3	79	21.4

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	NA	NA	1010	17600	36-FCA-SB09-00	52/52
ANTIMONY, TOTAL	2 UJ	6.2 UJ	3.3 J	31.7 J	36-OA-SB08-00	7/46
ARSENIC, TOTAL	0.34 U	0.85 UJ	0.39	10.4	36-OA-SB08-00	43/52
BARIUM, TOTAL	5.5 U	5.5 U	4.5	141	36-OA-SB08-00	51/52
BERYLLIUM, TOTAL	0.06 U	0.27 U	0.18	0.18	36-FCA-SB10-00	1/52
CADMIUM, TOTAL	0.44 U	3.1 U	0.67	6.3	36-OA-SB08-00	8/52
CALCIUM, TOTAL	66.1 U	66.1 U	106	103000	36-OF-SB06-00	51/52
CHROMIUM, TOTAL	NA	NA	1.6	51.6	36-OA-SB08-00	52/52
COBALT, TOTAL	0.47 U	2.9 U	0.88	9	36-OA-SB08-00	10/52
COPPER, TOTAL	0.44 U	3.7 U	0.56	445	36-OA-SB08-00	39/52
IRON, TOTAL	NA	NA	863	86200	36-OA-SB08-00	52/52
LEAD, TOTAL	4.7 U	19.2 U	4.3	836 J	36-OA-SB08-00	48/52
MAGNESIUM, TOTAL	NA	NA	52	1020	36-DAD-SB01-00	52/52
MANGANESE, TOTAL	NA	NA	2.1	940	36-OA-SB08-00	52/52
MERCURY, TOTAL	0.088 U	0.16 U	0.11	2.4	36-OA-SB05-00	18/52
NICKEL, TOTAL	0.89 U	3.2 U	1	48.3	36-OA-SB08-00	26/52
POTASSIUM, TOTAL	53.4 U	165 U	33.7	676	36-FCA-SB05-00	32/52
SELENIUM, TOTAL	0.26 U	0.62 U	0.32	0.53	36-OF-SB06D-00	12/52
SILVER, TOTAL	0.41 U	0.9 U	0.61	12 J	36-OF-SB04-00	8/48
SODIUM, TOTAL	4.3 U	51.7 U	9.6	358	36-DAD-SB01-00	31/52
THALLIUM, TOTAL	0.12 U	1.9 UJ	ND	ND		0/52
VANADIUM, TOTAL	2.6 U	4.7 U	2.9	46	36-OA-SB08-00	50/52
ZINC, TOTAL	4.7 U	5.5 U	2.1	1320	36-OA-SB08-00	50/52

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-DAB-SB01-01	36-DAB-SB02-02	36-DAB-SB03-01	36-DAD-SB02-01	36-FCA-SB01-04	36-FCA-SB02-04
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/27/95	02/22/95
DEPTH	1-3'	3-5'	1-3'	1-3'	7-9'	7-9'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	12 U	11 U	14 U	12 U	12 U
BROMOMETHANE	12 U	12 U	11 U	14 U	12 U	12 U
VINYL CHLORIDE	12 U	12 U	11 U	14 U	12 U	12 U
CHLOROETHANE	12 U	12 U	11 U	14 U	12 U	12 U
METHYLENE CHLORIDE	12 U	12 U	11 U	14 U	12 U	12 U
ACETONE	100 U	39 U	19 U	14 U	12 U	33 U
CARBON DISULFIDE	12 U	12 U	11 U	14 U	12 U	12 U
1,1-DICHLOROETHENE	12 U	12 U	11 U	14 U	12 U	12 U
1,1-DICHLOROETHANE	12 U	12 U	11 U	14 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	12 U	12 U	11 U	14 U	12 U	12 U
CHLOROFORM	12 U	12 U	11 U	14 U	12 U	12 U
1,2-DICHLOROETHANE	12 U	12 U	11 U	14 U	12 U	12 U
2-BUTANONE	10 J	12 U	11 U	14 U	12 U	12 U
1,1,1-TRICHLOROETHANE	12 U	12 U	11 U	14 U	12 U	12 U
CARBON TETRACHLORIDE	12 U	12 U	11 U	14 U	12 U	12 U
BROMODICHLOROMETHANE	12 U	12 U	11 U	14 U	12 U	12 U
1,2-DICHLOROPROPANE	12 U	12 U	11 U	14 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	12 U	12 U	11 U	14 U	12 U	12 U
TRICHLOROETHENE	12 U	12 U	11 U	14 U	12 U	12 U
DIBROMOCHLOROMETHANE	12 U	12 U	11 U	14 U	12 U	12 U
1,1,2-TRICHLOROETHANE	12 U	12 U	11 U	14 U	12 U	12 U
BENZENE	12 U	12 U	11 U	14 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	12 U	12 U	11 U	14 U	12 U	12 U
BROMOFORM	12 U	12 U	11 U	14 U	12 U	12 U
4-METHYL-2-PENTANONE	12 U	12 U	11 U	14 U	12 U	12 U
2-HEXANONE	12 U	12 U	11 U	14 U	12 U	12 U
TETRACHLOROETHENE	12 U	12 U	11 U	14 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	12 U	12 U	11 U	14 U	12 U	12 U
TOLUENE	12 U	12 U	11 U	14 U	12 U	12 U
CHLOROBENZENE	12 U	12 U	11 U	14 U	12 U	12 U
ETHYLBENZENE	12 U	12 U	11 U	14 U	12 U	12 U
STYRENE	12 U	12 U	11 U	14 U	12 U	12 U
XYLENE (TOTAL)	12 U	12 U	6 J	14 U	12 U	12 U

SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-DAB-SB01-01	36-DAB-SB02-02	36-DAB-SB03-01	36-DAD-SB02-01	36-FCA-SB01-04	36-FCA-SB02-04
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/27/95	02/22/95
DEPTH	1-3'	3-5'	1-3'	1-3'	7-9'	7-9'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	380 R	380 U	380 U	470 U	410 U	400 U
BIS(2-CHLOROETHYL)ETHER	380 R	380 U	380 U	470 U	410 U	400 U
2-CHLOROPHENOL	380 R	380 U	380 U	470 U	410 U	400 U
1,3-DICHLOROBENZENE	380 R	380 U	380 U	470 U	410 U	400 U
1,4-DICHLOROBENZENE	380 R	97 J	380 U	470 U	410 U	400 U
1,2-DICHLOROBENZENE	380 R	380 U	380 U	470 U	410 U	400 U
2-METHYLPHENOL	510 J	380 U	380 U	470 U	410 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	380 R	380 U	380 U	470 U	410 U	400 U
4-METHYLPHENOL	43 J	380 U	380 U	470 U	410 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	380 R	380 U	380 U	470 U	410 U	400 U
HEXACHLOROETHANE	380 R	380 U	380 U	470 U	410 U	400 U
NITROBENZENE	380 R	380 U	380 U	470 U	410 U	400 U
ISOPHORONE	2100	380 U	380 U	470 U	410 U	400 U
2-NITROPHENOL	380 R	380 U	380 U	470 U	410 U	400 U
2,4-DIMETHYLPHENOL	380 R	380 U	380 U	470 U	410 U	400 U
BIS(2-CHLOROETHOXY)METHANE	380 R	380 U	380 U	470 U	410 U	400 U
2,4-DICHLOROPHENOL	380 R	380 U	380 U	470 U	410 U	400 U
1,2,4-TRICHLOROBENZENE	380 R	380 U	380 U	470 U	410 U	400 U
NAPHTHALENE	380 R	380 U	380 U	470 U	410 U	400 U
4-CHLOROANILINE	380 R	380 U	380 U	470 U	410 UJ	400 U
HEXACHLOROBUTADIENE	380 R	380 U	380 U	470 U	410 U	400 U
4-CHLORO-3-METHYLPHENOL	380 R	380 U	380 U	470 U	410 U	400 U
2-METHYLNAPHTHALENE	380 R	380 U	380 U	470 U	410 U	400 U
HEXACHLOROCYCLOPENTADIENE	380 R	380 U	380 U	470 U	410 U	400 U
2,4,6-TRICHLOROPHENOL	380 R	380 U	380 U	470 U	410 U	400 U
2,4,5-TRICHLOROPHENOL	940 R	940 U	940 U	1200 U	1000 U	1000 U
2-CHLORONAPHTHALENE	380 R	380 U	380 U	470 U	410 U	400 U
2-NITROANILINE	940 R	940 U	940 U	1200 U	1000 U	1000 U
DIMETHYLPHTHALATE	380 R	380 U	380 U	470 U	410 U	400 U
ACENAPHTHYLENE	380 R	380 U	380 U	470 U	410 U	400 U
2,6-DINITROTOLUENE	380 R	380 U	380 U	470 U	410 U	400 U
3-NITROANILINE	940 R	940 UJ	940 U	1200 U	1000 U	1000 U
ACENAPHTHENE	380 R	380 U	380 U	470 U	410 U	400 U



SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-DAB-SB01-01	36-DAB-SB02-02	36-DAB-SB03-01	36-DAD-SB02-01	36-FCA-SB01-04	36-FCA-SB02-04
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/27/95	02/22/95
DEPTH	1-3'	3-5'	1-3'	1-3'	7-9'	7-9'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	940 R	940 UJ	940 U	1200 U	1000 U	1000 U
4-NITROPHENOL	940 R	940 UJ	940 U	1200 U	1000 U	1000 U
DIBENZOFURAN	380 R	380 U	380 U	470 U	410 U	400 U
2,4-DINITROTOLUENE	380 R	380 U	380 U	470 U	410 U	400 U
DIETHYLPHTHALATE	380 R	380 U	380 U	470 U	410 U	400 U
4-CHLOROPHENYL-PHENYLETHER	380 R	380 U	380 U	470 U	410 U	400 U
FLUORENE	380 R	380 U	380 U	470 U	410 U	400 U
4-NITROANILINE	940 R	940 R	940 U	1200 U	1000 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	940 R	940 U	940 U	1200 U	1000 U	1000 U
N-NITROSODIPHENYLAMINE (1)	380 R	380 U	380 U	470 U	410 U	400 U
4-BROMOPHENYL-PHENYLETHER	380 R	380 U	380 U	470 U	410 U	400 U
HEXACHLOROBENZENE	380 R	380 U	380 U	470 U	410 U	400 U
PENTACHLOROPHENOL	940 R	940 U	940 U	1200 U	1000 U	1000 U
PHENANTHRENE	380 R	380 U	380 U	470 U	410 U	400 U
ANTHRACENE	380 R	380 U	380 U	470 U	410 U	400 U
CARBAZOLE	380 R	380 U	380 U	470 U	410 U	400 U
DI-N-BUTYLPHTHALATE	380 U	380 U	380 U	470 U	410 U	400 U
FLUORANTHENE	380 R	380 U	380 U	470 U	410 U	400 U
PYRENE	380 R	380 U	380 U	65 J	410 U	400 U
BUTYLBENZYLPHTHALATE	380 R	380 U	380 U	470 UJ	410 U	400 U
3,3'-DICHLOROBENZIDINE	380 R	380 U	380 U	470 UJ	410 U	400 U
BENZO(A)ANTHRACENE	380 R	380 U	380 U	470 UJ	410 U	400 U
CHRYSENE	380 R	380 U	380 U	470 UJ	410 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	380 U	380 U	380 U	54 J	410 U	400 U
DI-N-OCTYL PHTHALATE	380 R	380 UJ	380 U	470 U	410 U	400 U
BENZO(B)FLUORANTHENE	380 R	380 U	380 U	470 U	410 U	400 U
BENZO(K)FLUORANTHENE	380 R	380 U	380 U	470 U	410 U	400 U
BENZO(A)PYRENE	380 R	380 U	380 U	470 U	410 U	400 U
INDENO(1,2,3-CD)PYRENE	380 R	380 U	380 U	470 U	410 U	400 U
DIBENZO(A,H)ANTHRACENE	380 R	380 U	380 U	470 U	410 U	400 U
BENZO(G,H,I)PERYLENE	380 R	380 U	380 U	470 U	410 U	400 U

SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-DAB-SB01-01	36-DAB-SB02-02	36-DAB-SB03-01	36-DAD-SB02-01	36-FCA-SB01-04	36-FCA-SB02-04
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/27/95	02/22/95
DEPTH	1-3'	3-5'	1-3'	1-3'	7-9'	7-9'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	1.9 UJ	1.9 UJ	1.9 UJ	2.4 UJ	2 U	2 UJ
BETA-BHC	1.9 UJ	1.9 UJ	1.9 U	2.4 U	2 U	2 UJ
DELTA-BHC	1.9 UJ	1.9 UJ	1.9 U	2.4 U	2 U	2 UJ
GAMMA-BHC (LINDANE)	1.9 UJ	1.9 UJ	1.9 U	2.4 U	2 U	2 UJ
HEPTACHLOR	1.9 UJ	1.9 UJ	1.9 U	2.4 U	2 U	2 UJ
ALDRIN	3.4 J	13 J	16 J	2.4 U	2 U	2 UJ
HEPTACHLOR EPOXIDE	1.9 UJ	1.9 UJ	1.9 U	2.4 U	2 U	2 UJ
ENDOSULFAN I	1.9 UJ	1.9 UJ	1.9 U	2.4 U	2 U	2 UJ
DIELDRIN	18 J	20 J	8.3	4.7 U	4 U	3.3 J
4,4'-DDE	99	82	67 J	66	4 U	4.1 UJ
ENDRIN	3.8 UJ	3.8 UJ	3.8 U	2.4 J	4 U	4.1 UJ
ENDOSULFAN II	3.8 UJ	3.8 UJ	3.8 U	4.7 U	4 U	4.1 UJ
4,4'-DDD	28 J	130	120 J	230	4 U	4.1 UJ
ENDOSULFAN SULFATE	3.8 UJ	3.8 UJ	3.8 U	4.7 U	4 U	4.1 UJ
4,4'-DDT	28 J	18 J	16	10 J	4 U	4.1 UJ
METHOXYCHLOR	19 UJ	19 UJ	19 U	24 U	20 UJ	20 UJ
ENDRIN KETONE	3.8 UJ	3.8 UJ	3.8 U	4.7 U	4 U	4.1 UJ
ENDRIN ALDEHYDE	3.8 UJ	3.8 UJ	3.8 U	4.7 U	4 U	4.1 UJ
ALPHA-CHLORDANE	1.9 UJ	1.9 UJ	1.9 U	2.4	2 U	2 UJ
GAMMA-CHLORDANE	1.9 UJ	2.3 J	1.9 U	2.4 U	2 U	2 UJ
TOXAPHENE	190 UJ	190 UJ	190 U	240 U	200 U	200 UJ
AROCLOR-1016	38 UJ	38 UJ	38 U	47 U	40 U	41 UJ
AROCLOR-1221	76 UJ	75 UJ	76 U	94 U	80 U	82 UJ
AROCLOR-1232	38 UJ	38 UJ	38 U	47 U	40 U	41 UJ
AROCLOR-1242	38 UJ	38 UJ	38 U	47 U	40 U	41 UJ
AROCLOR-1248	38 UJ	38 UJ	38 U	47 U	40 U	41 UJ
AROCLOR-1254	38 UJ	38 UJ	38 U	47 U	40 U	41 UJ
AROCLOR-1260	38 UJ	38 UJ	38 U	47 U	40 U	41 UJ

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-FCA-SB03-02	36-FCA-SB04-02	36-FCA-SB05-02	36-FCA-SB06-03	36-FCA-SB07-01	36-FCA-SB08-01
DATE SAMPLED	02/23/95	02/25/95	02/27/95	02/23/95	02/22/95	02/27/95
DEPTH	3-5'	3-5'	3-5'	5-7'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	13 U	12 U	12 U	12 U	14 U	12 U
BROMOMETHANE	13 U	12 U	12 U	12 U	14 U	12 U
VINYL CHLORIDE	13 U	12 U	12 U	12 U	14 U	12 U
CHLOROETHANE	13 U	12 U	12 U	12 U	14 U	12 U
METHYLENE CHLORIDE	13 U	12 U	12 U	12 U	14 U	12 U
ACETONE	14 U	12 UJ	12 U	12 U	700 B	52
CARBON DISULFIDE	13 U	12 U	12 U	12 U	14 U	12 U
1,1-DICHLOROETHENE	13 U	12 U	12 U	12 U	14 U	12 U
1,1-DICHLOROETHANE	13 U	12 U	12 U	12 U	14 U	12 U
1,2-DICHLOROETHENE (TOTAL)	13 U	12 U	12 U	12 U	14 U	12 U
CHLOROFORM	13 U	12 U	12 U	12 U	14 U	12 U
1,2-DICHLOROETHANE	13 U	12 U	12 U	12 U	14 U	12 U
2-BUTANONE	13 U	12 U	12 U	12 U	14 U	12 U
1,1,1-TRICHLOROETHANE	13 U	12 U	12 U	12 U	14 U	12 U
CARBON TETRACHLORIDE	13 U	12 U	12 U	12 U	14 U	12 U
BROMODICHLOROMETHANE	13 U	12 U	12 U	12 U	14 U	12 U
1,2-DICHLOROPROPANE	13 U	12 U	12 U	12 U	14 U	12 U
CIS-1,3-DICHLOROPROPENE	13 U	12 U	12 U	12 U	14 U	12 U
TRICHLOROETHENE	13 U	12 U	12 U	12 U	14 U	12 U
DIBROMOCHLOROMETHANE	13 U	12 U	12 U	12 U	14 U	12 U
1,1,2-TRICHLOROETHANE	13 U	12 U	12 U	12 U	14 U	12 U
BENZENE	13 U	12 U	12 U	12 U	14 U	12 U
TRANS-1,3-DICHLOROPROPENE	13 U	12 U	12 U	12 U	14 U	12 U
BROMOFORM	13 U	12 U	12 U	12 U	14 U	12 U
4-METHYL-2-PENTANONE	13 U	12 U	12 U	12 U	14 U	12 U
2-HEXANONE	13 U	12 U	12 U	12 U	14 U	12 U
TETRACHLOROETHENE	13 U	12 U	12 U	12 U	14 U	12 U
1,1,2,2-TETRACHLOROETHANE	13 U	12 U	12 U	12 U	14 U	12 U
TOLUENE	13 U	12 U	12 U	12 U	14 U	12 U
CHLOROBENZENE	13 U	12 U	12 U	12 U	14 U	12 U
ETHYLBENZENE	13 U	12 U	12 U	12 U	14 U	12 U
STYRENE	13 U	12 U	12 U	12 U	14 U	12 U
XYLENE (TOTAL)	13 U	12 U	12 U	12 U	14 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB03-02	36-FCA-SB04-02	36-FCA-SB05-02	36-FCA-SB06-03	36-FCA-SB07-01	36-FCA-SB08-01
DATE SAMPLED	02/23/95	02/25/95	02/27/95	02/23/95	02/22/95	02/27/95
DEPTH	3-5'	3-5'	3-5'	5-7'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	430 U	400 U	410 U	410 U	450 U	400 U
BIS(2-CHLOROETHYL)ETHER	430 U	400 U	410 U	410 U	450 U	400 U
2-CHLOROPHENOL	430 U	400 U	410 U	410 U	450 U	400 U
1,3-DICHLOROBENZENE	430 U	400 U	410 U	410 U	450 U	400 U
1,4-DICHLOROBENZENE	430 U	400 U	410 U	410 U	450 U	400 U
1,2-DICHLOROBENZENE	430 U	400 U	410 U	410 U	450 U	400 U
2-METHYLPHENOL	430 U	400 U	410 U	410 U	450 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	430 U	400 U	410 U	410 U	450 U	400 U
4-METHYLPHENOL	430 U	400 U	410 U	410 U	450 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	430 U	400 U	410 U	410 U	450 U	400 U
HEXACHLOROETHANE	430 U	400 U	410 U	410 U	450 U	400 U
NITROBENZENE	430 U	400 U	410 U	410 U	450 U	400 U
ISOPHORONE	430 U	400 U	410 U	410 U	450 U	400 U
2-NITROPHENOL	430 U	400 U	410 U	410 U	450 U	400 U
2,4-DIMETHYLPHENOL	430 U	400 U	410 U	410 U	450 U	400 U
BIS(2-CHLOROETHOXY)METHANE	430 U	400 U	410 U	410 U	450 U	400 U
2,4-DICHLOROPHENOL	430 U	400 U	410 U	410 U	450 U	400 U
1,2,4-TRICHLOROBENZENE	430 U	400 U	410 U	410 U	450 U	400 U
NAPHTHALENE	430 U	400 U	410 U	410 U	450 U	400 U
4-CHLOROANILINE	430 U	400 U	410 UJ	410 U	450 U	400 UJ
HEXACHLOROBUTADIENE	430 U	400 U	410 U	410 U	450 U	400 U
4-CHLORO-3-METHYLPHENOL	430 U	400 U	410 U	410 U	450 U	400 U
2-METHYLNAPHTHALENE	430 U	400 U	410 U	410 U	450 U	400 U
HEXACHLOROCYCLOPENTADIENE	430 U	400 UJ	410 U	410 U	450 U	400 U
2,4,6-TRICHLOROPHENOL	430 U	400 U	410 U	410 U	450 U	400 U
2,4,5-TRICHLOROPHENOL	1100 U	1000 U	1000 U	1000 U	1100 U	990 U
2-CHLORONAPHTHALENE	430 U	400 U	410 U	410 U	450 U	400 U
2-NITROANILINE	1100 U	1000 U	1000 U	1000 U	1100 U	990 U
DIMETHYLPHTHALATE	430 U	400 U	410 U	410 U	450 U	400 U
ACENAPHTHYLENE	430 U	400 U	410 U	410 U	450 U	400 U
2,6-DINITROTOLUENE	430 U	400 U	410 U	410 U	450 U	400 U
3-NITROANILINE	1100 U	1000 U	1000 U	1000 UJ	1100 U	990 U
ACENAPHTHENE	430 U	400 U	410 U	410 U	450 U	400 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-FCA-SB03-02	36-FCA-SB04-02	36-FCA-SB05-02	36-FCA-SB06-03	36-FCA-SB07-01	36-FCA-SB08-01
DATE SAMPLED	02/23/95	02/25/95	02/27/95	02/23/95	02/22/95	02/27/95
DEPTH	3-5'	3-5'	3-5'	5-7'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	1100 UJ	1000 U	1000 U	1000 UJ	1100 UJ	990 U
4-NITROPHENOL	1100 U	1000 U	1000 U	1000 UJ	1100 U	990 U
DIBENZOFURAN	430 U	400 U	410 U	410 U	450 U	400 U
2,4-DINITROTOLUENE	430 U	400 U	410 U	410 UJ	450 U	400 U
DIETHYLPHTHALATE	430 U	400 U	410 U	410 U	450 U	400 U
4-CHLOROPHENYL-PHENYLETHER	430 U	400 U	410 U	410 U	450 U	400 U
FLUORENE	430 U	400 U	410 U	410 U	450 U	400 U
4-NITROANILINE	1100 U	1000 U	1000 U	1000 R	1100 U	990 U
4,6-DINITRO-2-METHYLPHENOL	1100 U	1000 UJ	1000 U	1000 U	1100 UJ	990 U
N-NITROSODIPHENYLAMINE (1)	430 U	400 U	410 U	410 U	450 U	400 U
4-BROMOPHENYL-PHENYLETHER	430 U	400 U	410 U	410 U	450 U	400 U
HEXACHLOROBENZENE	430 U	400 U	410 U	410 U	450 U	400 U
PENTACHLOROPHENOL	1100 U	1000 U	1000 U	1000 U	1100 U	990 U
PHENANTHRENE	430 U	400 U	410 U	410 U	450 U	400 U
ANTHRACENE	430 U	400 U	410 U	410 U	450 U	400 U
CARBAZOLE	430 U	400 U	410 U	410 U	450 U	400 U
DI-N-BUTYLPHTHALATE	430 U	2700 U	590 U	410 U	450 U	400 U
FLUORANTHENE	430 U	400 U	410 U	410 U	450 U	400 U
PYRENE	430 U	400 U	410 UJ	410 U	450 U	400 U
BUTYLBENZYLPHTHALATE	430 U	400 U	410 UJ	410 U	450 U	400 U
3,3'-DICHLOROBENZIDINE	430 U	400 U	410 UJ	410 U	450 U	400 U
BENZO(A)ANTHRACENE	430 U	400 U	410 UJ	410 U	450 U	400 U
CHRYSENE	430 U	400 U	410 UJ	410 U	450 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	430 U	400 U	410 UJ	410 U	450 U	400 U
DI-N-OCTYL PHTHALATE	430 U	400 UJ	410 U	410 U	450 UJ	400 U
BENZO(B)FLUORANTHENE	430 U	400 U	410 U	410 U	450 U	400 U
BENZO(K)FLUORANTHENE	430 U	400 U	410 U	410 U	450 U	400 U
BENZO(A)PYRENE	430 U	400 U	410 U	410 U	450 U	400 U
INDENO(1,2,3-CD)PYRENE	430 U	400 U	410 U	410 U	450 U	400 U
DIBENZO(A,H)ANTHRACENE	430 U	400 U	410 U	410 U	450 U	400 U
BENZO(G,H,I)PERYLENE	430 U	400 U	410 U	410 U	450 U	400 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB03-02	36-FCA-SB04-02	36-FCA-SB05-02	36-FCA-SB06-03	36-FCA-SB07-01	36-FCA-SB08-01
DATE SAMPLED	02/23/95	02/25/95	02/27/95	02/23/95	02/22/95	02/27/95
DEPTH	3-5'	3-5'	3-5'	5-7'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	2.2 UJ	2 U	2 UJ	2 UJ	2.3 UJ	2 U
BETA-BHC	2.2 U	2 U	2 UJ	2 UJ	2.3 U	2 U
DELTA-BHC	2.2 UJ	2 U	2 UJ	2 UJ	2.3 UJ	2 U
GAMMA-BHC (LINDANE)	2.2 UJ	2 U	2 UJ	2 UJ	2.3 UJ	2 U
HEPTACHLOR	2.2 U	2 UJ	2 UJ	2 UJ	2.3 U	2 U
ALDRIN	2.2 U	2 U	2 UJ	2 UJ	2.3 U	2 U
HEPTACHLOR EPOXIDE	2.2 U	2 U	2 UJ	2 UJ	2.3 U	2 U
ENDOSULFAN I	2.2 U	2 U	2 UJ	2 UJ	2.3 U	2 U
DIELDRIN	4.3 U	3.9 U	4.1 UJ	4.1 UJ	4.5 U	4 U
4,4'-DDE	4.3 UJ	3.9 U	4.1 UJ	4.1 UJ	36 J	4 U
ENDRIN	4.3 U	3.9 U	4.1 UJ	4.1 UJ	4.5 U	4 U
ENDOSULFAN II	4.3 U	3.9 U	4.1 UJ	4.1 UJ	4.5 U	4 U
4,4'-DDD	4.3 U	3.9 U	4.1 UJ	4.1 UJ	4.5 U	4 U
ENDOSULFAN SULFATE	4.3 U	3.9 U	4.1 UJ	4.1 UJ	4.5 U	4 U
4,4'-DDT	4.3 U	3.9 U	4.1 UJ	4.1 UJ	14	4 U
METHOXYCHLOR	22 U	20 UJ	20 UJ	20 UJ	23 U	20 UJ
ENDRIN KETONE	4.3 U	3.9 U	4.1 UJ	4.1 UJ	4.5 U	4 U
ENDRIN ALDEHYDE	4.3 U	3.9 U	4.1 UJ	4.1 UJ	4.5 U	4 U
ALPHA-CHLORDANE	2.2 U	2 U	2 UJ	2 UJ	2.3 U	2 U
GAMMA-CHLORDANE	2.2 U	2 U	2 UJ	2 UJ	2.3 U	2 U
TOXAPHENE	220 U	200 U	200 UJ	200 UJ	230 U	200 U
AROCLOR-1016	43 U	39 U	41 UJ	41 UJ	45 U	40 U
AROCLOR-1221	86 U	78 U	81 UJ	81 UJ	90 U	80 U
AROCLOR-1232	43 U	39 U	41 UJ	41 UJ	45 U	40 U
AROCLOR-1242	43 U	39 U	41 UJ	41 UJ	45 U	40 U
AROCLOR-1248	43 U	39 U	41 UJ	41 UJ	45 U	40 U
AROCLOR-1254	43 U	39 U	41 UJ	41 UJ	45 U	40 U
AROCLOR-1260	43 U	39 U	41 UJ	41 UJ	45 U	40 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-FCA-SB09-02	36-FCA-SB10-02	36-FCA-SB11-03	36-FCA-SB12-02	36-FCA-SB13-01	36-FCA-SB14-01
DATE SAMPLED	02/22/95	02/22/95	02/23/95	02/22/95	02/27/95	02/23/95
DEPTH	3-5'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	12 U	12 U	12 U	12 U	11 U
BROMOMETHANE	12 U	12 U	12 U	12 U	12 U	11 U
VINYL CHLORIDE	12 U	12 U	12 U	12 U	12 U	11 U
CHLOROETHANE	12 U	12 U	12 U	12 U	12 U	11 U
METHYLENE CHLORIDE	12 U	12 U	12 U	12 U	12 U	11 U
ACETONE	13 U	12 U	12 U	12 U	12 U	11 U
CARBON DISULFIDE	12 U	12 U	12 U	12 U	12 U	11 U
1,1-DICHLOROETHENE	12 U	12 U	12 U	12 U	12 U	11 U
1,1-DICHLOROETHANE	12 U	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROETHENE (TOTAL)	12 U	12 U	12 U	12 U	12 U	11 U
CHLOROFORM	12 U	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROETHANE	12 U	12 U	12 U	12 U	12 U	11 U
2-BUTANONE	12 U	12 U	12 U	12 U	12 U	11 U
1,1,1-TRICHLOROETHANE	12 U	12 U	12 U	12 U	12 U	11 U
CARBON TETRACHLORIDE	12 U	12 U	12 U	12 U	12 U	11 U
BROMODICHLOROMETHANE	12 U	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROPROPANE	12 U	12 U	12 U	12 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	12 U	12 U	12 U	12 U	12 U	11 U
TRICHLOROETHENE	12 U	12 U	12 U	12 U	12 U	11 U
DIBROMOCHLOROMETHANE	12 U	12 U	12 U	12 U	12 U	11 U
1,1,2-TRICHLOROETHANE	12 U	12 U	12 U	12 U	12 U	11 U
BENZENE	12 U	12 U	12 U	12 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	12 U	12 U	12 U	12 U	12 U	11 U
BROMOFORM	12 U	12 U	12 U	12 U	12 U	11 U
4-METHYL-2-PENTANONE	12 U	12 U	12 U	12 U	12 U	11 U
2-HEXANONE	12 U	12 U	12 U	12 U	12 U	11 U
TETRACHLOROETHENE	12 U	12 U	12 U	12 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	12 U	12 U	12 U	12 U	12 U	11 U
TOLUENE	12 U	12 U	12 U	12 U	12 U	11 U
CHLOROBENZENE	12 U	12 U	12 U	12 U	12 U	11 U
ETHYLBENZENE	12 U	12 U	12 U	12 U	12 U	11 U
STYRENE	12 U	12 U	12 U	12 U	12 U	11 U
XYLENE (TOTAL)	12 U	12 U	12 U	12 U	12 U	11 U

SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-FCA-SB09-02	36-FCA-SB10-02	36-FCA-SB11-03	36-FCA-SB12-02	36-FCA-SB13-01	36-FCA-SB14-01
DATE SAMPLED	02/22/95	02/22/95	02/23/95	02/22/95	02/27/95	02/23/95
DEPTH	3-5'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	390 U	390 U	390 U	380 U	400 U	370 U
BIS(2-CHLOROETHYL)ETHER	390 U	390 U	390 U	380 U	400 U	370 U
2-CHLOROPHENOL	390 U	390 U	390 U	380 U	400 U	370 U
1,3-DICHLOROBENZENE	390 U	390 U	390 U	380 U	400 U	370 U
1,4-DICHLOROBENZENE	390 U	390 U	390 U	380 U	400 U	370 U
1,2-DICHLOROBENZENE	390 U	390 U	390 U	380 U	400 U	370 U
2-METHYLPHENOL	390 U	390 U	390 U	380 U	400 U	370 U
2,2'-OXYBIS(1-CHLOROPROPANE)	390 U	390 U	390 U	380 U	400 U	370 U
4-METHYLPHENOL	390 U	390 U	390 U	380 U	400 U	370 U
N-NITROSO-DI-N-PROPYLAMINE	390 U	390 U	390 U	380 U	400 U	370 U
HEXACHLOROETHANE	390 U	390 U	390 U	380 U	400 U	370 U
NITROBENZENE	390 U	390 U	390 U	380 U	400 U	370 U
ISOPHORONE	390 U	390 U	390 U	380 U	400 U	370 U
2-NITROPHENOL	390 U	390 U	390 U	380 U	400 U	370 U
2,4-DIMETHYLPHENOL	390 U	390 U	390 U	380 U	400 U	370 U
BIS(2-CHLOROETHOXY)METHANE	390 U	390 U	390 U	380 U	400 U	370 U
2,4-DICHLOROPHENOL	390 U	390 U	390 U	380 U	400 U	370 U
1,2,4-TRICHLOROBENZENE	390 U	390 U	390 U	380 U	400 U	370 U
NAPHTHALENE	390 U	390 U	390 U	380 U	400 U	370 U
4-CHLOROANILINE	390 U	390 U	390 U	380 U	400 U	370 U
HEXACHLOROBUTADIENE	390 U	390 U	390 U	380 U	400 U	370 U
4-CHLORO-3-METHYLPHENOL	390 U	390 U	390 U	380 U	400 U	370 U
2-METHYLNAPHTHALENE	390 U	390 U	390 U	380 U	400 U	370 U
HEXACHLOROCYCLOPENTADIENE	390 U	390 U	390 U	380 U	400 U	370 U
2,4,6-TRICHLOROPHENOL	390 U	390 U	390 U	380 U	400 U	370 U
2,4,5-TRICHLOROPHENOL	980 U	980 U	980 U	960 U	1000 U	920 U
2-CHLORONAPHTHALENE	390 U	390 U	390 U	380 U	400 U	370 U
2-NITROANILINE	980 U	980 U	980 U	960 U	1000 U	920 U
DIMETHYLPHthalate	390 U	390 U	390 U	380 U	400 U	370 U
ACENAPHTHYLENE	390 U	390 U	390 U	380 U	400 U	370 U
2,6-DINITROTOLUENE	390 U	390 U	390 U	380 U	400 U	370 U
3-NITROANILINE	980 U	980 U	980 U	960 U	1000 U	920 U
ACENAPHTHENE	390 U	390 U	390 U	380 U	400 U	370 U



SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-FCA-SB09-02	36-FCA-SB10-02	36-FCA-SB11-03	36-FCA-SB12-02	36-FCA-SB13-01	36-FCA-SB14-01
DATE SAMPLED	02/22/95	02/22/95	02/23/95	02/22/95	02/27/95	02/23/95
DEPTH	3-5'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	980 UJ	980 U	980 UJ	960 UJ	1000 U	920 UJ
4-NITROPHENOL	980 U	980 U	980 UJ	960 U	1000 U	920 U
DIBENZOFURAN	390 U	390 U	390 U	380 U	400 U	370 U
2,4-DINITROTOLUENE	390 U	390 U	390 U	380 U	400 U	370 U
DIETHYLPHTHALATE	390 U	390 U	390 U	380 U	400 U	370 U
4-CHLOROPHENYL-PHENYLETHER	390 U	390 U	390 U	380 U	400 U	370 U
FLUORENE	390 U	390 U	390 U	380 U	400 U	370 U
4-NITROANILINE	980 U	980 U	980 R	960 U	1000 U	920 U
4,6-DINITRO-2-METHYLPHENOL	980 UJ	980 U	980 U	960 UJ	1000 U	920 U
N-NITROSODIPHENYLAMINE (1)	390 U	390 U	390 U	380 U	400 U	370 U
4-BROMOPHENYL-PHENYLETHER	390 U	390 U	390 U	380 U	400 U	370 U
HEXACHLOROBENZENE	390 U	390 U	390 U	380 U	400 U	370 U
PENTACHLOROPHENOL	980 U	980 U	980 U	960 U	1000 U	920 U
PHENANTHRENE	390 U	390 U	390 U	380 U	400 U	370 U
ANTHRACENE	390 U	390 U	390 U	380 U	400 U	370 U
CARBAZOLE	390 U	390 U	390 U	380 U	400 U	370 U
DI-N-BUTYLPHTHALATE	390 U	390 U	390 U	380 U	400 U	370 U
FLUORANTHENE	390 U	390 U	390 U	380 U	400 U	370 U
PYRENE	390 U	390 U	390 U	380 U	400 U	370 U
BUTYLBENZYLPHTHALATE	390 U	390 U	390 U	380 U	400 U	370 U
3,3'-DICHLOROBENZIDINE	390 U	390 U	390 U	380 U	400 U	370 U
BENZO(A)ANTHRACENE	390 U	390 U	390 U	380 U	400 U	370 U
CHRYSENE	390 U	390 U	390 U	380 U	400 U	370 U
BIS(2-ETHYLHEXYL)PHTHALATE	390 U	390 U	390 U	45 J	400 U	370 U
DI-N-OCTYL PHTHALATE	390 UJ	390 U	390 UJ	380 UJ	400 U	370 U
BENZO(B)FLUORANTHENE	390 U	390 U	390 U	380 U	400 U	370 U
BENZO(K)FLUORANTHENE	390 U	390 U	390 U	380 U	400 U	370 U
BENZO(A)PYRENE	390 U	390 U	390 U	380 U	400 U	370 U
INDENO(1,2,3-CD)PYRENE	390 U	390 U	390 U	380 U	400 U	370 U
DIBENZO(A,H)ANTHRACENE	390 U	390 U	390 U	380 U	400 U	370 U
BENZO(G,H,I)PERYLENE	390 U	390 U	390 U	380 U	400 U	370 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-FCA-SB09-02	36-FCA-SB10-02	36-FCA-SB11-03	36-FCA-SB12-02	36-FCA-SB13-01	36-FCA-SB14-01
DATE SAMPLED	02/22/95	02/22/95	02/23/95	02/22/95	02/27/95	02/23/95
DEPTH	3-5'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	2 UJ	2 UJ	2 UJ	1.9 UJ	2 UJ	1.9 UJ
BETA-BHC	2 UJ	2 UJ	2 UJ	1.9 U	2 UJ	1.9 U
DELTA-BHC	2 UJ	2 UJ	2 UJ	1.9 UJ	2 UJ	1.9 UJ
GAMMA-BHC (LINDANE)	2 UJ	2 UJ	2 UJ	1.9 UJ	2 UJ	1.9 UJ
HEPTACHLOR	2 UJ	2 UJ	2 UJ	1.9 U	2 UJ	1.9 U
ALDRIN	2 UJ	2 UJ	2 UJ	1.9 U	2 UJ	1.9 U
HEPTACHLOR EPOXIDE	2 UJ	2 UJ	2 UJ	1.9 U	2 UJ	1.9 U
ENDOSULFAN I	2 UJ	2 UJ	2 UJ	1.9 U	2 UJ	1.9 U
DIELDRIN	4 UJ	2.4 J	3.9 UJ	3.8 U	4.1 UJ	3.8 U
4,4'-DDE	4 UJ	3.9 UJ	3.9 UJ	3.8 UJ	4.1 UJ	3.8 UJ
ENDRIN	4 UJ	3.9 UJ	3.9 UJ	3.8 U	4.1 UJ	3.8 U
ENDOSULFAN II	4 UJ	3.9 UJ	3.9 UJ	3.8 U	4.1 UJ	3.8 U
4,4'-DDD	4 UJ	3.9 UJ	3.9 UJ	3.8 U	4.1 UJ	3.8 U
ENDOSULFAN SULFATE	4 UJ	3.9 UJ	3.9 UJ	3.8 U	4.1 UJ	3.8 U
4,4'-DDT	4 UJ	3.9 UJ	3.9 UJ	3.8 U	4.1 UJ	3.8 U
METHOXYCHLOR	20 UJ	20 UJ	20 UJ	19 U	20 UJ	19 U
ENDRIN KETONE	4 UJ	3.9 UJ	3.9 UJ	3.8 U	4.1 UJ	3.8 U
ENDRIN ALDEHYDE	4 UJ	3.9 UJ	3.9 UJ	3.8 U	4.1 UJ	3.8 U
ALPHA-CHLORDANE	2 UJ	2 UJ	2 UJ	1.9 U	2 UJ	1.9 U
GAMMA-CHLORDANE	2 UJ	2 UJ	2 UJ	1.9 U	2 UJ	1.9 U
TOXAPHENE	200 UJ	200 UJ	200 UJ	190 U	200 UJ	190 U
AROCLOR-1016	40 UJ	39 UJ	39 UJ	38 U	41 UJ	38 U
AROCLOR-1221	79 UJ	79 UJ	79 UJ	76 U	82 UJ	75 U
AROCLOR-1232	40 UJ	39 UJ	39 UJ	38 U	41 UJ	38 U
AROCLOR-1242	40 UJ	39 UJ	39 UJ	38 U	41 UJ	38 U
AROCLOR-1248	40 UJ	39 UJ	39 UJ	38 U	41 UJ	38 U
AROCLOR-1254	40 UJ	39 UJ	39 UJ	38 U	41 UJ	38 U
AROCLOR-1260	40 UJ	39 UJ	39 UJ	38 U	41 UJ	38 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-FDA-SB01-02	36-FDA-SB02-04	36-FDA-SB03-04	36-FDA-SB04-01	36-FDA-SB05-01	36-FDA-SB06-07
DATE SAMPLED	02/23/95	02/27/95	02/22/95	02/24/95	02/27/95	02/25/95
DEPTH	3-5'	7-9'	7-9'	1-3'	1-3'	13-15'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	12 U	12 U	11 U	14 U	13 U
BROMOMETHANE	12 U	12 U	12 U	11 U	14 U	13 U
VINYL CHLORIDE	12 U	12 U	12 U	11 U	14 U	13 U
CHLOROETHANE	12 U	12 U	12 U	11 U	14 U	13 U
METHYLENE CHLORIDE	12 U	12 U	12 U	11 U	14 U	13 U
ACETONE	12 U	21 U	12 U	11 U	14 U	160 J
CARBON DISULFIDE	12 U	12 U	12 U	11 U	14 U	13 U
1,1-DICHLOROETHENE	12 U	12 U	12 U	11 U	14 U	13 U
1,1-DICHLOROETHANE	12 U	12 U	12 U	11 U	14 U	13 U
1,2-DICHLOROETHENE (TOTAL)	12 U	12 U	12 U	11 U	14 U	13 U
CHLOROFORM	12 U	12 U	12 U	11 U	14 U	13 U
1,2-DICHLOROETHANE	12 U	12 U	12 U	11 U	14 U	13 U
2-BUTANONE	12 U	12 U	12 U	11 U	14 U	16 J
1,1,1-TRICHLOROETHANE	12 U	12 U	12 U	11 U	14 U	13 U
CARBON TETRACHLORIDE	12 U	12 U	12 U	11 U	14 U	13 U
BROMODICHLOROMETHANE	12 U	12 U	12 U	11 U	14 U	13 U
1,2-DICHLOROPROPANE	12 U	12 U	12 U	11 U	14 U	13 U
CIS-1,3-DICHLOROPROPENE	12 U	12 U	12 U	11 U	14 U	13 U
TRICHLOROETHENE	5 J	12 U	4 J	11 U	14 U	13 U
DIBROMOCHLOROMETHANE	12 U	12 U	12 U	11 U	14 U	13 U
1,1,2-TRICHLOROETHANE	12 U	12 U	12 U	11 U	14 U	13 U
BENZENE	3 J	12 U	12 U	11 U	14 U	13 U
TRANS-1,3-DICHLOROPROPENE	12 U	12 U	12 U	11 U	14 U	13 U
BROMOFORM	12 U	12 U	12 U	11 U	14 U	13 U
4-METHYL-2-PENTANONE	12 UJ	12 U	12 U	11 U	14 UJ	13 U
2-HEXANONE	12 UJ	12 U	12 U	11 U	14 UJ	13 U
TETRACHLOROETHENE	12 UJ	12 U	12 U	11 U	14 UJ	13 U
1,1,2,2-TETRACHLOROETHANE	12 UJ	12 U	12 U	11 U	14 UJ	13 U
TOLUENE	12 UJ	12 U	12 U	11 U	14 UJ	13 U
CHLOROBENZENE	12 UJ	12 U	12 U	11 U	14 UJ	13 U
ETHYLBENZENE	12 UJ	12 U	12 U	11 U	14 UJ	13 U
STYRENE	12 UJ	12 U	12 U	11 U	14 UJ	13 U
XYLENE (TOTAL)	12 UJ	12 U	12 U	2 J	14 UJ	6 J

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-FDA-SB01-02	36-FDA-SB02-04	36-FDA-SB03-04	36-FDA-SB04-01	36-FDA-SB05-01	36-FDA-SB06-07
DATE SAMPLED	02/23/95	02/27/95	02/22/95	02/24/95	02/27/95	02/25/95
DEPTH	3-5'	7-9'	7-9'	1-3'	1-3'	13-15'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	400 U	400 U	390 U	370 U	440 U	420 U
BIS(2-CHLOROETHYL)ETHER	400 U	400 U	390 U	370 U	440 U	420 U
2-CHLOROPHENOL	400 U	400 U	390 U	370 U	440 U	420 U
1,3-DICHLOROBENZENE	400 U	400 U	390 U	370 U	440 U	420 U
1,4-DICHLOROBENZENE	400 U	400 U	390 U	370 U	440 U	420 U
1,2-DICHLOROBENZENE	400 U	400 U	390 U	370 U	440 U	420 U
2-METHYLPHENOL	400 U	400 U	390 U	370 U	440 U	420 U
2,2'-OXYBIS(1-CHLOROPROPANE)	400 U	400 U	390 U	370 U	440 U	420 U
4-METHYLPHENOL	400 U	400 U	390 U	370 U	440 U	420 U
N-NITROSO-DI-N-PROPYLAMINE	400 U	400 U	390 U	370 U	440 U	420 U
HEXACHLOROETHANE	400 U	400 U	390 U	370 U	440 U	420 U
NITROBENZENE	400 U	400 U	390 U	370 U	440 U	420 U
ISOPHORONE	400 U	400 U	390 U	370 U	440 U	420 U
2-NITROPHENOL	400 U	400 U	390 U	370 U	440 U	420 U
2,4-DIMETHYLPHENOL	400 U	400 U	390 U	370 U	440 U	420 U
BIS(2-CHLOROETHOXY)METHANE	400 U	400 U	390 U	370 U	440 U	420 U
2,4-DICHLOROPHENOL	400 U	400 U	390 U	370 U	440 U	420 U
1,2,4-TRICHLOROBENZENE	400 U	400 U	390 U	370 U	440 U	420 U
NAPHTHALENE	400 U	400 U	390 U	370 U	440 U	420 U
4-CHLOROANILINE	400 U	400 U	390 U	370 U	440 U	420 U
HEXACHLOROBUTADIENE	400 U	400 U	390 U	370 U	440 U	420 U
4-CHLORO-3-METHYLPHENOL	400 U	400 U	390 U	370 U	440 U	420 U
2-METHYLNAPHTHALENE	400 U	85 J	390 U	370 U	440 U	420 U
HEXACHLOROCYCLOPENTADIENE	400 U	400 U	390 U	370 U	440 U	420 U
2,4,6-TRICHLOROPHENOL	400 U	400 U	390 U	370 U	440 U	420 U
2,4,5-TRICHLOROPHENOL	1000 U	990 U	980 U	920 U	1100 U	1000 U
2-CHLORONAPHTHALENE	400 U	400 U	390 U	370 U	440 U	420 U
2-NITROANILINE	1000 U	990 U	980 U	920 U	1100 U	1000 U
DIMETHYLPHTHALATE	400 U	400 U	390 U	370 U	440 U	420 U
ACENAPHTHYLENE	400 U	400 U	390 U	370 U	440 U	420 U
2,6-DINITROTOLUENE	400 U	400 U	390 U	370 U	440 U	420 U
3-NITROANILINE	1000 U	990 U	980 U	920 U	1100 U	1000 U
ACENAPHTHENE	400 U	400 U	390 U	370 U	440 U	420 U

SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-FDA-SB01-02	36-FDA-SB02-04	36-FDA-SB03-04	36-FDA-SB04-01	36-FDA-SB05-01	36-FDA-SB06-07
DATE SAMPLED	02/23/95	02/27/95	02/22/95	02/24/95	02/27/95	02/25/95
DEPTH	3-5'	7-9'	7-9'	1-3'	1-3'	13-15'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	1000 U	990 U	980 U	920 U	1100 UJ	1000 U
4-NITROPHENOL	1000 U	990 U	980 U	920 U	1100 U	1000 U
DIBENZOFURAN	400 U	400 U	390 U	370 U	440 U	420 U
2,4-DINITROTOLUENE	400 U	400 U	390 U	370 U	440 U	420 U
DIETHYLPHTHALATE	400 U	400 U	390 U	370 U	440 U	420 U
4-CHLOROPHENYL-PHENYLETHER	400 U	400 U	390 U	370 U	440 U	420 U
FLUORENE	400 U	400 U	390 U	370 U	440 U	420 U
4-NITROANILINE	1000 U	990 U	980 U	920 U	1100 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	1000 U	990 U	980 U	920 U	1100 UJ	1000 U
N-NITROSODIPHENYLAMINE (1)	400 U	400 U	390 U	370 U	440 U	420 U
4-BROMOPHENYL-PHENYLETHER	400 U	400 U	390 U	370 U	440 U	420 U
HEXACHLOROBENZENE	400 U	400 U	390 U	370 U	440 U	420 U
PENTACHLOROPHENOL	1000 U	990 U	980 U	920 U	1100 U	1000 U
PHENANTHRENE	400 U	400 U	390 U	370 U	440 U	420 U
ANTHRACENE	400 U	400 U	390 U	370 U	440 U	420 U
CARBAZOLE	400 U	400 U	390 U	370 U	440 U	420 U
DI-N-BUTYLPHTHALATE	400 U	400 U	390 U	370 U	440 U	420 U
FLUORANTHENE	400 U	400 U	390 U	370 U	440 U	170 J
PYRENE	400 UJ	59 J	390 U	370 U	440 U	150 J
BUTYLBENZYLPHTHALATE	400 UJ	400 U	390 U	370 U	440 U	420 U
3,3'-DICHLOROBENZIDINE	400 UJ	400 U	390 U	370 U	440 U	420 U
BENZO(A)ANTHRACENE	400 UJ	400 U	390 U	370 U	440 U	110 J
CHRYSENE	400 UJ	41 J	390 U	370 U	440 U	180 J
BIS(2-ETHYLHEXYL)PHTHALATE	400 UJ	400 U	39 J	370 U	440 U	120 J
DI-N-OCTYL PHTHALATE	400 U	400 U	390 U	370 U	440 U	420 U
BENZO(B)FLUORANTHENE	400 U	47 J	390 U	370 U	440 U	130 J
BENZO(K)FLUORANTHENE	400 U	400 U	390 U	370 U	440 U	68 J
BENZO(A)PYRENE	400 U	400 U	390 U	370 U	440 U	77 J
INDENO(1,2,3-CD)PYRENE	400 U	400 U	390 U	370 U	440 U	51 J
DIBENZO(A,H)ANTHRACENE	400 U	400 U	390 U	370 U	440 U	420 U
BENZO(G,H,I)PERYLENE	400 U	400 U	390 U	370 U	440 U	42 J

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-FDA-SB01-02	36-FDA-SB02-04	36-FDA-SB03-04	36-FDA-SB04-01	36-FDA-SB05-01	36-FDA-SB06-07
DATE SAMPLED	02/23/95	02/27/95	02/22/95	02/24/95	02/27/95	02/25/95
DEPTH	3-5'	7-9'	7-9'	1-3'	1-3'	13-15'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	2 UJ	2 U	2 UJ	1.8 UJ	2.2 UJ	2.1 UJ
BETA-BHC	2 U	2 U	2 U	1.8 U	2.2 UJ	2.1 U
DELTA-BHC	2 U	2 U	2 UJ	1.8 U	2.2 UJ	2.1 U
GAMMA-BHC (LINDANE)	2 U	2 U	2 UJ	1.8 U	2.2 UJ	2.1 U
HEPTACHLOR	2 U	2 U	2 U	1.8 U	2.2 UJ	2.1 U
ALDRIN	2 U	2 U	2 U	1.8 U	2.2 UJ	2.1 U
HEPTACHLOR EPOXIDE	2 U	2 U	2 U	1.8 U	8 J	3.4 J
ENDOSULFAN I	2 U	2 U	2 U	1.8 U	2.2 UJ	2.1 U
DIELDRIN	4.1	3.9 U	3.9 U	3.6 U	1200 J	4.2 U
4,4'-DDE	32	250	3.9 UJ	190	1100 J	170 J
ENDRIN	4.1 U	3.9 U	3.9 U	3.6 U	4 J	4.2 U
ENDOSULFAN II	4.1 U	3.9 U	3.9 U	3.6 U	4.5 UJ	4.2 U
4,4'-DDD	36	260 J	3.9 U	22 J	1300 J	12
ENDOSULFAN SULFATE	4.1 U	3.9 U	3.9 U	3.6 U	4.5 UJ	4.2 U
4,4'-DDT	8.6 J	29	3.9 U	340	340	4.6 J
METHOXYCHLOR	20 U	20 UJ	20 U	18 U	22 UJ	21 U
ENDRIN KETONE	4.1 U	3.9 U	3.9 U	3.6 U	4.5 UJ	4.2 U
ENDRIN ALDEHYDE	4.1 U	3.9 U	3.9 U	3.6 U	32 J	4.2 U
ALPHA-CHLORDANE	1.6 J	9	2 U	1.8 U	140	3.4 J
GAMMA-CHLORDANE	2.5 J	8.2 J	2 U	1.8 U	100 J	3.4 J
TOXAPHENE	200 U	200 U	200 U	180 U	220 UJ	210 U
AROCLOR-1016	41 U	39 U	39 U	36 U	45 UJ	42 U
AROCLOR-1221	82 U	78 U	79 U	73 U	89 UJ	84 U
AROCLOR-1232	41 U	39 U	39 U	36 U	45 UJ	42 U
AROCLOR-1242	41 U	39 U	39 U	36 U	45 UJ	42 U
AROCLOR-1248	41 U	39 U	39 U	36 U	45 UJ	42 U
AROCLOR-1254	41 U	39 U	39 U	36 U	45 UJ	42 U
AROCLOR-1260	41 U	39 U	39 U	36 U	45 UJ	42 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GS-SB01-04	36-GS-SB02-04	36-GS-SB03-02	36-GS-SB04-03	36-GS-SB05-01	36-GS-SB05-03
DATE SAMPLED	05/06/95	05/06/95	05/07/95	05/06/95	05/06/95	05/06/95
DEPTH	7-9'	7-9'	3-5'	5-7'	1-3'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
BROMOMETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
VINYL CHLORIDE	12 U	12 U	25 UJ	12 U	12 U	12 U
CHLOROETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
METHYLENE CHLORIDE	12 U	12 U	25 UJ	12 U	12 U	12 U
ACETONE	12 U	12 U	480 J	12 U	23	12 U
CARBON DISULFIDE	12 U	12 U	25 UJ	12 U	12 U	12 U
1,1-DICHLOROETHENE	12 U	12 U	25 UJ	12 U	12 U	12 U
1,1-DICHLOROETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	12 U	12 U	25 UJ	12 U	12 U	12 U
CHLOROFORM	12 U	12 U	25 UJ	12 U	12 U	12 U
1,2-DICHLOROETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
2-BUTANONE	12 U	12 U	170 J	12 U	12 U	12 U
1,1,1-TRICHLOROETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
CARBON TETRACHLORIDE	12 U	12 U	25 UJ	12 U	12 U	12 U
BROMODICHLOROMETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
1,2-DICHLOROPROPANE	12 U	12 U	25 UJ	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	12 U	12 U	25 UJ	12 U	12 U	12 U
TRICHLOROETHENE	12 U	12 U	25 UJ	12 U	12 U	12 U
DIBROMOCHLOROMETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
1,1,2-TRICHLOROETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
BENZENE	12 U	12 U	25 UJ	12 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	12 U	12 U	25 UJ	12 U	12 U	12 U
BROMOFORM	12 U	12 U	25 UJ	12 U	12 U	12 U
4-METHYL-2-PENTANONE	12 U	12 U	25 UJ	12 U	12 U	12 U
2-HEXANONE	12 U	12 U	25 UJ	12 U	12 U	12 U
TETRACHLOROETHENE	12 U	12 U	25 UJ	12 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	12 U	12 U	25 UJ	12 U	12 U	12 U
TOLUENE	12 U	12 U	25 UJ	12 U	12 U	12 U
CHLOROBENZENE	12 U	12 U	25 UJ	12 U	12 U	12 U
ETHYLBENZENE	12 U	12 U	25 UJ	12 U	12 U	12 U
STYRENE	12 U	12 U	25 UJ	12 U	12 U	12 U
XYLENE (TOTAL)	12 U	12 U	25 UJ	12 U	12 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GS-SB01-04	36-GS-SB02-04	36-GS-SB03-02	36-GS-SB04-03	36-GS-SB05-01	36-GS-SB05-03
DATE SAMPLED	05/06/95	05/06/95	05/07/95	05/06/95	05/06/95	05/06/95
DEPTH	7-9'	7-9'	3-5'	5-7'	1-3'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	410 U	390 U	830 U	410 U	390 U	380 U
BIS(2-CHLOROETHYL)ETHER	410 U	390 U	830 U	410 U	390 U	380 U
2-CHLOROPHENOL	410 U	390 U	830 U	410 U	390 U	380 U
1,3-DICHLOROBENZENE	410 U	390 U	830 U	410 U	390 U	380 U
1,4-DICHLOROBENZENE	410 U	390 U	830 U	410 U	390 U	380 U
1,2-DICHLOROBENZENE	410 U	390 U	830 U	410 U	390 U	380 U
2-METHYLPHENOL	410 U	390 U	830 U	410 U	390 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	410 U	390 U	830 U	410 U	390 U	380 U
4-METHYLPHENOL	410 U	390 U	830 U	410 U	390 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	410 U	390 U	830 U	410 U	390 U	380 U
HEXACHLOROETHANE	410 U	390 U	830 U	410 U	390 U	380 U
NITROBENZENE	410 U	390 U	830 U	410 U	390 U	380 U
ISOPHORONE	410 U	390 U	830 U	410 U	390 U	380 U
2-NITROPHENOL	410 U	390 U	830 U	410 U	390 U	380 U
2,4-DIMETHYLPHENOL	410 U	390 U	830 U	410 U	390 U	380 U
BIS(2-CHLOROETHOXY)METHANE	410 U	390 U	830 U	410 U	390 U	380 U
2,4-DICHLOROPHENOL	410 U	390 U	830 U	410 U	390 U	380 U
1,2,4-TRICHLOROBENZENE	410 U	390 U	830 U	410 U	390 U	380 U
NAPHTHALENE	410 U	390 U	830 U	410 U	390 U	380 U
4-CHLOROANILINE	410 U	390 U	830 U	410 U	390 U	380 U
HEXACHLOROBUTADIENE	410 U	390 U	830 U	410 U	390 U	380 U
4-CHLORO-3-METHYLPHENOL	410 U	390 U	830 U	410 U	390 U	380 U
2-METHYLNAPHTHALENE	410 U	390 U	830 U	410 U	390 U	380 U
HEXACHLOROCYCLOPENTADIENE	410 U	390 U	830 U	410 U	390 U	380 U
2,4,6-TRICHLOROPHENOL	410 U	390 U	830 U	410 U	390 U	380 U
2,4,5-TRICHLOROPHENOL	1000 U	970 U	2100 U	1000 U	960 U	960 U
2-CHLORONAPHTHALENE	410 U	390 U	830 U	410 U	390 U	380 U
2-NITROANILINE	1000 U	970 U	2100 U	1000 U	960 U	960 U
DIMETHYLPHTHALATE	410 U	390 U	830 U	410 U	390 U	380 U
ACENAPHTHYLENE	410 U	390 U	830 U	410 U	390 U	380 U
2,6-DINITROTOLUENE	410 U	390 U	830 U	410 U	390 U	380 U
3-NITROANILINE	1000 U	970 U	2100 U	1000 U	960 U	960 U
ACENAPHTHENE	410 U	390 U	830 U	410 U	390 U	380 U



**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GS-SB01-04	36-GS-SB02-04	36-GS-SB03-02	36-GS-SB04-03	36-GS-SB05-01	36-GS-SB05-03
DATE SAMPLED	05/06/95	05/06/95	05/07/95	05/06/95	05/06/95	05/06/95
DEPTH	7-9'	7-9'	3-5'	5-7'	1-3'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	1000 U	970 U	2100 U	1000 U	960 U	960 U
4-NITROPHENOL	1000 U	970 U	2100 U	1000 U	960 U	960 U
DIBENZOFURAN	410 U	390 U	830 U	410 U	390 U	380 U
2,4-DINITROTOLUENE	410 U	390 U	830 U	410 U	390 U	380 U
DIETHYLPHTHALATE	410 U	390 U	830 U	410 U	390 U	380 U
4-CHLOROPHENYL-PHENYLETHER	410 U	390 U	830 U	410 U	390 U	380 U
FLUORENE	410 U	390 U	830 U	410 U	390 U	380 U
4-NITROANILINE	1000 U	970 U	2100 U	1000 U	960 U	960 U
4,6-DINITRO-2-METHYLPHENOL	1000 U	970 U	2100 U	1000 U	960 U	960 U
N-NITROSODIPHENYLAMINE (1)	410 U	390 U	830 U	410 U	390 U	380 U
4-BROMOPHENYL-PHENYLETHER	410 U	390 U	830 U	410 U	390 U	380 U
HEXACHLOROBENZENE	410 U	390 U	830 U	410 U	390 U	380 U
PENTACHLOROPHENOL	1000 U	970 U	2100 U	1000 U	960 U	960 U
PHENANTHRENE	410 U	390 U	830 U	410 U	390 U	380 U
ANTHRACENE	410 U	390 U	830 U	410 U	390 U	380 U
CARBAZOLE	410 U	390 U	830 U	410 U	390 U	380 U
DI-N-BUTYLPHTHALATE	700 U	550 U	830 U	410 U	1800 U	2200 U
FLUORANTHENE	410 U	390 U	830 U	410 U	390 U	380 U
PYRENE	410 U	390 U	830 U	410 U	390 U	380 U
BUTYLBENZYLPHTHALATE	410 U	390 U	830 U	410 U	390 U	380 U
3,3'-DICHLOROBENZIDINE	410 U	390 U	830 U	410 U	390 U	380 U
BENZO(A)ANTHRACENE	410 U	390 U	830 U	410 U	390 U	380 U
CHRYSENE	410 U	390 U	830 U	410 U	390 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	410 U	390 U	830 U	410 U	390 U	380 U
DI-N-OCTYL PHTHALATE	410 U	390 U	830 U	410 U	390 U	380 U
BENZO(B)FLUORANTHENE	410 U	390 U	830 U	410 U	390 U	380 U
BENZO(K)FLUORANTHENE	410 U	390 U	830 U	410 U	390 U	380 U
BENZO(A)PYRENE	410 U	390 U	450 J	410 U	390 U	380 U
INDENO(1,2,3-CD)PYRENE	410 U	390 U	830 U	410 U	390 U	380 U
DIBENZO(A,H)ANTHRACENE	410 U	390 U	830 U	410 U	390 U	380 U
BENZO(G,H,I)PERYLENE	410 U	390 U	830 U	410 U	390 U	380 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-GS-SB01-04	36-GS-SB02-04	36-GS-SB03-02	36-GS-SB04-03	36-GS-SB05-01	36-GS-SB05-03
DATE SAMPLED	05/06/95	05/06/95	05/07/95	05/06/95	05/06/95	05/06/95
DEPTH	7-9'	7-9'	3-5'	5-7'	1-3'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	NA	NA	NA	NA	NA	NA
BETA-BHC	NA	NA	NA	NA	NA	NA
DELTA-BHC	NA	NA	NA	NA	NA	NA
GAMMA-BHC (LINDANE)	NA	NA	NA	NA	NA	NA
HEPTACHLOR	NA	NA	NA	NA	NA	NA
ALDRIN	NA	NA	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	NA	NA	NA	NA	NA	NA
ENDOSULFAN I	NA	NA	NA	NA	NA	NA
DIELDRIN	NA	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA
ENDRIN	NA	NA	NA	NA	NA	NA
ENDOSULFAN II	NA	NA	NA	NA	NA	NA
4,4'-DDD	NA	NA	NA	NA	NA	NA
ENDOSULFAN SULFATE	NA	NA	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA	NA	NA
METHOXYCHLOR	NA	NA	NA	NA	NA	NA
ENDRIN KETONE	NA	NA	NA	NA	NA	NA
ENDRIN ALDEHYDE	NA	NA	NA	NA	NA	NA
ALPHA-CHLORDANE	NA	NA	NA	NA	NA	NA
GAMMA-CHLORDANE	NA	NA	NA	NA	NA	NA
TOXAPHENE	NA	NA	NA	NA	NA	NA
AROCLOR-1016	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-G8-SB06-02	36-GW07-01	36-GW09-04	36-GW10-03	36-GW11-04	36-GW11-06
DATE SAMPLED	05/07/95	03/07/95	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	3-5'	1-3'	7-9'	5-7'	7-9'	11-13'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	13 U	13 U	11 U	14 U	11 U	12 U
BROMOMETHANE	13 U	13 U	11 U	14 U	11 U	12 U
VINYL CHLORIDE	13 U	13 U	11 U	14 U	11 U	12 U
CHLOROETHANE	13 U	13 U	11 U	14 U	11 U	12 U
METHYLENE CHLORIDE	13 U	13 U	11 U	14 U	11 U	12 U
ACETONE	13 U	13 U	40	130	11 U	16 U
CARBON DISULFIDE	13 U	13 U	11 U	14 U	11 U	12 U
1,1-DICHLOROETHENE	13 U	13 U	11 U	14 U	11 U	12 U
1,1-DICHLOROETHANE	13 U	13 U	11 U	14 U	11 U	12 U
1,2-DICHLOROETHENE (TOTAL)	13 U	13 U	11 U	14 U	11 U	12 U
CHLOROFORM	13 U	13 U	11 U	14 U	11 U	12 U
1,2-DICHLOROETHANE	13 U	13 U	11 U	14 U	11 U	12 U
2-BUTANONE	13 U	13 U	11 U	14 U	11 U	12 U
1,1,1-TRICHLOROETHANE	13 U	13 U	11 U	14 U	11 U	12 U
CARBON TETRACHLORIDE	13 U	13 U	11 U	14 U	11 U	12 U
BROMODICHLOROMETHANE	13 U	13 U	11 U	14 U	11 U	12 U
1,2-DICHLOROPROPANE	13 U	13 U	11 U	14 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	13 U	13 U	11 U	14 U	11 U	12 U
TRICHLOROETHENE	13 U	13 U	11 U	14 U	11 U	12 U
DIBROMOCHLOROMETHANE	13 U	13 U	11 U	14 U	11 U	12 U
1,1,2-TRICHLOROETHANE	13 U	13 U	11 U	14 U	11 U	12 U
BENZENE	13 U	13 U	11 U	14 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	13 U	13 U	11 U	14 U	11 U	12 U
BROMOFORM	13 U	13 U	11 U	14 U	11 U	12 U
4-METHYL-2-PENTANONE	13 U	13 U	11 U	14 U	11 U	12 U
2-HEXANONE	13 U	13 U	11 U	14 U	11 U	12 U
TETRACHLOROETHENE	13 U	13 U	11 U	14 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	13 U	13 U	11 U	14 U	11 U	12 U
TOLUENE	13 U	13 U	11 U	14 U	11 U	12 U
CHLOROBENZENE	13 U	13 U	11 U	14 U	11 U	12 U
ETHYLBENZENE	13 U	13 U	11 U	14 U	11 U	12 U
STYRENE	13 U	13 U	11 U	14 U	11 U	12 U
XYLENE (TOTAL)	13 U	13 U	3 J	14 U	11 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GS-SB06-02	36-GW07-01	36-GW09-04	36-GW10-03	36-GW11-04	36-GW11-06
DATE SAMPLED	05/07/95	03/07/95	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	3-5'	1-3'	7-9'	5-7'	7-9'	11-13'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	430 U	410 U	370 U	460 U	370 U	390 U
BIS(2-CHLOROETHYL)ETHER	430 U	410 U	370 U	460 U	370 U	390 U
2-CHLOROPHENOL	430 U	410 U	370 U	460 U	370 U	390 U
1,3-DICHLOROBENZENE	430 U	410 U	370 U	460 U	370 U	390 U
1,4-DICHLOROBENZENE	430 U	410 U	370 U	460 U	370 U	390 U
1,2-DICHLOROBENZENE	430 U	410 U	370 U	460 U	370 U	390 U
2-METHYLPHENOL	430 U	410 U	370 U	460 U	370 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	430 U	410 U	370 U	460 U	370 U	390 U
4-METHYLPHENOL	430 U	410 U	370 U	460 U	370 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	430 U	410 U	370 U	460 U	370 U	390 U
HEXACHLOROETHANE	430 U	410 U	370 U	460 U	370 U	390 U
NITROBENZENE	430 U	410 U	370 U	460 U	370 U	390 U
ISOPHORONE	430 U	410 U	370 U	460 U	370 U	390 U
2-NITROPHENOL	430 U	410 U	370 U	460 U	370 U	390 U
2,4-DIMETHYLPHENOL	430 U	410 U	370 U	460 U	370 U	390 U
BIS(2-CHLOROETHOXY)METHANE	430 U	410 U	370 U	460 U	370 U	390 U
2,4-DICHLOROPHENOL	430 U	410 U	370 U	460 U	370 U	390 U
1,2,4-TRICHLOROBENZENE	430 U	410 U	370 U	460 U	370 U	390 U
NAPHTHALENE	430 U	410 U	370 U	460 U	370 U	390 U
4-CHLOROANILINE	430 U	410 U	370 U	460 U	370 U	390 U
HEXACHLOROBUTADIENE	430 U	410 U	370 U	460 U	370 U	390 U
4-CHLORO-3-METHYLPHENOL	430 U	410 U	370 U	460 U	370 U	390 U
2-METHYLNAPHTHALENE	430 U	410 U	370 U	460 U	370 U	390 U
HEXACHLOROCYCLOPENTADIENE	430 U	410 U	370 U	460 U	370 U	390 U
2,4,6-TRICHLOROPHENOL	430 U	410 U	370 U	460 U	370 U	390 U
2,4,5-TRICHLOROPHENOL	1100 U	1000 U	930 U	1200 U	920 U	980 U
2-CHLORONAPHTHALENE	430 U	410 U	370 U	460 U	370 U	390 U
2-NITROANILINE	1100 U	1000 U	930 U	1200 U	920 U	980 U
DIMETHYLPHTHALATE	430 U	410 U	370 U	460 U	370 U	390 U
ACENAPHTHYLENE	430 U	410 U	370 U	460 U	370 U	390 U
2,6-DINITROTOLUENE	430 U	410 U	370 U	460 U	370 U	390 U
3-NITROANILINE	1100 U	1000 U	930 U	1200 U	920 U	980 U
ACENAPHTHENE	430 U	410 U	370 U	460 U	370 U	390 U

SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-GS-SB06-02	36-GW07-01	36-GW09-04	36-GW10-03	36-GW11-04	36-GW11-06
DATE SAMPLED	05/07/95	03/07/95	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	3-5'	1-3'	7-9'	5-7'	7-9'	11-13'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	1100 U	1000 U	930 U	1200 U	920 U	980 U
4-NITROPHENOL	1100 U	1000 U	930 U	1200 U	920 U	980 U
DIBENZOFURAN	430 U	410 U	370 U	460 U	370 U	390 U
2,4-DINITROTOLUENE	430 U	410 U	370 U	460 U	370 U	390 U
DIETHYLPHTHALATE	430 U	410 U	370 U	460 U	370 U	390 U
4-CHLOROPHENYL-PHENYLETHER	430 U	410 U	370 U	460 U	370 U	390 U
FLUORENE	430 U	410 U	370 U	460 U	370 U	390 U
4-NITROANILINE	1100 U	1000 U	930 U	1200 U	920 U	980 U
4,6-DINITRO-2-METHYLPHENOL	1100 U	1000 U	930 U	1200 U	920 U	980 U
N-NITROSODIPHENYLAMINE (I)	430 U	410 U	370 U	460 U	370 U	390 U
4-BROMOPHENYL-PHENYLETHER	430 U	410 U	370 U	460 U	370 U	390 U
HEXACHLOROBENZENE	430 U	410 U	370 U	460 U	370 U	390 U
PENTACHLOROPHENOL	1100 U	1000 U	930 U	1200 U	920 U	980 U
PHENANTHRENE	430 U	410 U	370 U	460 U	370 U	390 U
ANTHRACENE	430 U	410 U	370 U	460 U	370 U	390 U
CARBAZOLE	430 U	410 U	370 U	460 U	370 U	390 U
DI-N-BUTYLPHTHALATE	430 U	410 U	370 U	2700 U	370 U	390 U
FLUORANTHENE	430 U	410 U	370 U	460 U	370 U	390 U
PYRENE	430 U	410 U	370 U	460 U	370 U	390 U
BUTYLBENZYLPHTHALATE	430 U	410 U	370 U	460 U	370 U	390 U
3,3'-DICHLOROBENZIDINE	430 U	410 U	370 U	460 U	370 U	390 U
BENZO(A)ANTHRACENE	430 U	410 U	370 U	460 U	370 U	390 U
CHRYSENE	430 U	410 U	370 U	460 U	370 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	430 U	530	370 U	460 U	370 U	390 U
DI-N-OCTYL PHTHALATE	430 U	410 U	370 U	460 U	370 U	390 U
BENZO(B)FLUORANTHENE	430 U	410 U	370 U	460 U	370 U	390 U
BENZO(K)FLUORANTHENE	430 U	410 U	370 U	460 U	370 U	390 U
BENZO(A)PYRENE	430 U	410 U	370 U	460 U	370 U	390 U
INDENO(1,2,3-CD)PYRENE	430 U	410 U	370 U	460 U	370 U	390 U
DIBENZO(A,H)ANTHRACENE	430 U	410 U	370 U	460 U	370 U	390 U
BENZO(G,H,I)PERYLENE	430 U	410 U	370 U	460 U	370 U	390 U

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GS-SB06-02	36-GW07-01	36-GW09-04	36-GW10-03	36-GW11-04	36-GW11-06
DATE SAMPLED	05/07/95	03/07/95	03/09/95	03/09/95	03/09/95	03/09/95
DEPTH	3-5'	1-3'	7-9'	5-7'	7-9'	11-13'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	NA	2 UJ	1.9 U	2.3 UJ	19 U	2 U
BETA-BHC	NA	2 UJ	1.9 U	2.3 UJ	19 U	2 U
DELTA-BHC	NA	2 UJ	1.9 U	2.3 UJ	19 U	2 U
GAMMA-BHC (LINDANE)	NA	2 UJ	1.9 U	2.3 UJ	19 U	2 U
HEPTACHLOR	NA	2 UJ	1.9 U	2.3 UJ	19 U	2 U
ALDRIN	NA	2 UJ	1.9 U	2.3 UJ	16 J	2 U
HEPTACHLOR EPOXIDE	NA	2 UJ	1.9 U	2.3 UJ	14 J	2 U
ENDOSULFAN I	NA	2 UJ	1.9 U	2.3 UJ	19 U	2 U
DIELDRIN	NA	4.1 UJ	3.7 U	4.5 UJ	37 U	4 U
4,4'-DDE	NA	4.1 UJ	6.7	4.5 UJ	470	4 U
ENDRIN	NA	4.1 UJ	3.7 U	4.5 UJ	37 U	4 U
ENDOSULFAN II	NA	4.1 UJ	3.7 U	4.5 UJ	37 U	4 U
4,4'-DDD	NA	4.1 UJ	7.9	6.8 J	440	4 U
ENDOSULFAN SULFATE	NA	4.1 UJ	3.7 U	4.5 UJ	37 U	4 U
4,4'-DDT	NA	4.1 UJ	3.7 U	4.5 UJ	79	4 U
METHOXYCHLOR	NA	20 UJ	19 U	23 UJ	190 U	20 U
ENDRIN KETONE	NA	4.1 UJ	3.7 U	4.5 UJ	37 U	4 U
ENDRIN ALDEHYDE	NA	4.1 UJ	3.7 U	4.5 UJ	37 U	4 U
ALPHA-CHLORDANE	NA	2 UJ	1.9 U	2.3 UJ	750	2 U
GAMMA-CHLORDANE	NA	2 UJ	1.9 U	2.3 UJ	770	2 U
TOXAPHENE	NA	200 UJ	190 U	230 UJ	1900 U	200 U
AROCLOR-1016	NA	41 UJ	37 U	45 UJ	370 U	40 U
AROCLOR-1221	NA	81 UJ	75 U	90 UJ	740 U	79 U
AROCLOR-1232	NA	41 UJ	37 U	45 UJ	370 U	40 U
AROCLOR-1242	NA	41 UJ	37 U	45 UJ	370 U	40 U
AROCLOR-1248	NA	41 UJ	37 U	45 UJ	370 U	40 U
AROCLOR-1254	NA	41 UJ	37 U	45 UJ	370 U	40 U
AROCLOR-1260	NA	41 UJ	37 U	45 UJ	370 U	40 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-GW12-03	36-GW13-02	36-GW13-03	36-GW14-02	36-OA-SB01-01	36-OA-SB01A-01
DATE SAMPLED	04/23/95	04/24/95	04/24/95	04/24/95	02/22/95	03/09/95
DEPTH	5-7'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	14 U	13 U	12 U	12 U	12 U	12 U
BROMOMETHANE	14 U	13 U	12 U	12 U	12 U	12 U
VINYL CHLORIDE	14 U	13 U	12 U	12 U	12 U	12 U
CHLOROETHANE	14 U	13 U	12 U	12 U	12 U	12 U
METHYLENE CHLORIDE	14 U	13 U	12 U	12 U	12 U	12 U
ACETONE	14 U	13 U	12 U	12 U	12 U	12 U
CARBON DISULFIDE	14 U	13 U	12 U	12 U	12 U	12 U
1,1-DICHLOROETHENE	14 U	13 U	12 U	12 U	12 U	12 U
1,1-DICHLOROETHANE	14 U	13 U	12 U	12 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	14 U	13 U	12 U	12 U	4 J	12 U
CHLOROFORM	14 U	13 U	12 U	12 U	12 U	12 U
1,2-DICHLOROETHANE	14 U	13 U	12 U	12 U	12 U	12 U
2-BUTANONE	14 U	13 U	12 U	12 U	12 U	12 U
1,1,1-TRICHLOROETHANE	14 U	13 U	12 U	12 U	12 U	12 U
CARBON TETRACHLORIDE	14 U	13 U	12 U	12 U	12 U	12 U
BROMODICHLOROMETHANE	14 U	13 U	12 U	12 U	12 U	12 U
1,2-DICHLOROPROPANE	14 U	13 U	12 U	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	14 U	13 U	12 U	12 U	12 U	12 U
TRICHLOROETHENE	14 U	13 U	12 U	12 U	3 J	12 U
DIBROMOCHLOROMETHANE	14 U	13 U	12 U	12 U	12 U	12 U
1,1,2-TRICHLOROETHANE	14 U	13 U	12 U	12 U	12 U	12 U
BENZENE	14 U	13 U	12 U	12 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	14 U	13 U	12 U	12 U	12 U	12 U
BROMOFORM	14 U	13 U	12 U	12 U	12 U	12 U
4-METHYL-2-PENTANONE	14 U	13 U	12 U	12 U	12 U	12 UJ
2-HEXANONE	14 U	13 U	12 U	12 U	12 U	12 UJ
TETRACHLOROETHENE	14 U	13 U	12 U	12 U	12 U	12 UJ
1,1,2,2-TETRACHLOROETHANE	14 U	13 U	12 U	12 U	12 U	12 UJ
TOLUENE	14 U	13 U	12 U	12 U	12 U	12 UJ
CHLOROBENZENE	14 U	13 U	12 U	12 U	12 U	12 UJ
ETHYLBENZENE	14 U	13 U	12 U	12 U	12 U	12 UJ
STYRENE	14 U	13 U	12 U	12 U	12 U	12 UJ
XYLENE (TOTAL)	14 U	13 U	12 U	12 U	3 J	12 UJ

SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-GW12-03	36-GW13-02	36-GW13-03	36-GW14-02	36-OA-SB01-01	36-OA-SB01A-01
DATE SAMPLED	04/23/95	04/24/95	04/24/95	04/24/95	02/22/95	03/09/95
DEPTH	5-7'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	NA	NA	NA	NA	380 U	400 U
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	380 U	400 U
2-CHLOROPHENOL	NA	NA	NA	NA	380 U	400 U
1,3-DICHLOROBENZENE	NA	NA	NA	NA	380 U	400 U
1,4-DICHLOROBENZENE	NA	NA	NA	NA	380 U	400 U
1,2-DICHLOROBENZENE	NA	NA	NA	NA	380 U	400 U
2-METHYLPHENOL	NA	NA	NA	NA	380 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA	NA	NA	380 U	400 U
4-METHYLPHENOL	NA	NA	NA	NA	380 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	380 U	400 U
HEXACHLOROETHANE	NA	NA	NA	NA	380 U	400 U
NITROBENZENE	NA	NA	NA	NA	380 U	400 U
ISOPHORONE	NA	NA	NA	NA	380 U	400 U
2-NITROPHENOL	NA	NA	NA	NA	380 U	400 U
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	380 U	400 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	380 U	400 U
2,4-DICHLOROPHENOL	NA	NA	NA	NA	380 U	400 U
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	380 U	400 U
NAPHTHALENE	NA	NA	NA	NA	380 U	41 J
4-CHLOROANILINE	NA	NA	NA	NA	380 U	400 U
HEXACHLOROBUTADIENE	NA	NA	NA	NA	380 U	400 U
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	380 U	400 U
2-METHYLNAPHTHALENE	NA	NA	NA	NA	380 U	65 J
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	380 U	400 U
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	380 U	400 U
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	960 U	990 U
2-CHLORONAPHTHALENE	NA	NA	NA	NA	380 U	400 U
2-NITROANILINE	NA	NA	NA	NA	960 U	990 U
DIMETHYLPHTHALATE	NA	NA	NA	NA	380 U	400 U
ACENAPHTHYLENE	NA	NA	NA	NA	380 U	400 U
2,6-DINITROTOLUENE	NA	NA	NA	NA	380 U	400 U
3-NITROANILINE	NA	NA	NA	NA	960 U	990 U
ACENAPHTHENE	NA	NA	NA	NA	380 U	400 U



SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-GW12-03	36-GW13-02	36-GW13-03	36-GW14-02	36-OA-SB01-01	36-OA-SB01A-01
DATE SAMPLED	04/23/95	04/24/95	04/24/95	04/24/95	02/22/95	03/09/95
DEPTH	5-7'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	NA	NA	NA	NA	960 UJ	990 U
4-NITROPHENOL	NA	NA	NA	NA	960 U	990 U
DIBENZOFURAN	NA	NA	NA	NA	380 U	400 U
2,4-DINITROTOLUENE	NA	NA	NA	NA	380 U	400 U
DIETHYLPHTHALATE	NA	NA	NA	NA	380 U	400 U
4-CHLOROPHENYL-PHENYLETHER	NA	NA	NA	NA	380 U	400 U
FLUORENE	NA	NA	NA	NA	380 U	400 U
4-NITROANILINE	NA	NA	NA	NA	960 U	990 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	960 U	990 U
N-NITROSODIPHENYLAMINE (1)	NA	NA	NA	NA	380 U	400 U
4-BROMOPHENYL-PHENYLETHER	NA	NA	NA	NA	380 U	400 U
HEXACHLOROBENZENE	NA	NA	NA	NA	380 U	400 U
PENTACHLOROPHENOL	NA	NA	NA	NA	960 U	990 U
PHENANTHRENE	NA	NA	NA	NA	380 U	95 J
ANTHRACENE	NA	NA	NA	NA	380 U	400 U
CARBAZOLE	NA	NA	NA	NA	380 U	400 U
DI-N-BUTYLPHTHALATE	NA	NA	NA	NA	56 J	400 U
FLUORANTHENE	NA	NA	NA	NA	380 U	400 U
PYRENE	NA	NA	NA	NA	380 U	400 U
BUTYLBENZYLPHTHALATE	NA	NA	NA	NA	380 U	400 U
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	380 U	400 U
BENZO(A)ANTHRACENE	NA	NA	NA	NA	380 U	400 U
CHRYSENE	NA	NA	NA	NA	380 U	55 J
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	48 J	630 U
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	380 U	400 U
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	380 U	400 U
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	380 U	400 U
BENZO(A)PYRENE	NA	NA	NA	NA	380 U	400 U
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	380 U	400 U
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	380 U	400 U
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	380 U	400 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW12-03	36-GW13-02	36-GW13-03	36-GW14-02	36-OA-SB01-01	36-OA-SB01A-01
DATE SAMPLED	04/23/95	04/24/95	04/24/95	04/24/95	02/22/95	03/09/95
DEPTH	5-7'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	NA	NA	NA	NA	1.9 UJ	20 U
BETA-BHC	NA	NA	NA	NA	1.9 U	20 U
DELTA-BHC	NA	NA	NA	NA	1.9 UJ	20 U
GAMMA-BHC (LINDANE)	NA	NA	NA	NA	1.9 UJ	20 U
HEPTACHLOR	NA	NA	NA	NA	1.9 U	20 U
ALDRIN	NA	NA	NA	NA	1.9 U	20 U
HEPTACHLOR EPOXIDE	NA	NA	NA	NA	1.9 U	20 U
ENDOSULFAN I	NA	NA	NA	NA	1.9 U	20 U
DIELDRIN	NA	NA	NA	NA	3.5 J	50
4,4'-DDE	NA	NA	NA	NA	38 J	1700
ENDRIN	NA	NA	NA	NA	3.9 U	40 U
ENDOSULFAN II	NA	NA	NA	NA	3.9 U	40 U
4,4'-DDD	NA	NA	NA	NA	8.9 J	210 J
ENDOSULFAN SULFATE	NA	NA	NA	NA	3.9 U	40 U
4,4'-DDT	NA	NA	NA	NA	18 J	3100
METHOXYCHLOR	NA	NA	NA	NA	19 U	200 U
ENDRIN KETONE	NA	NA	NA	NA	3.9 U	40 U
ENDRIN ALDEHYDE	NA	NA	NA	NA	3.9 U	40 U
ALPHA-CHLORDANE	NA	NA	NA	NA	1.9 U	20 U
GAMMA-CHLORDANE	NA	NA	NA	NA	1.9 U	20 U
TOXAPHENE	NA	NA	NA	NA	190 U	2000 U
AROCLOR-1016	NA	NA	NA	NA	39 U	400 U
AROCLOR-1221	NA	NA	NA	NA	77 U	800 U
AROCLOR-1232	NA	NA	NA	NA	39 U	400 U
AROCLOR-1242	NA	NA	NA	NA	39 U	400 U
AROCLOR-1248	NA	NA	NA	NA	850 J	400 U
AROCLOR-1254	NA	NA	NA	NA	39 U	400 U
AROCLOR-1260	NA	NA	NA	NA	39 U	400 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB01B-01	36-OA-SB01C-01	36-OA-SB01D-01	36-OA-SB01E-02	36-OA-SB01F-02	36-OA-SB01G-02
DATE SAMPLED	03/09/95	03/09/95	03/09/95	10/09/95	10/09/95	10/09/95
DEPTH	1-3'	1-3'	1-3'	3-5'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	11 U	11 U	11 U	NA	NA	NA
BROMOMETHANE	11 U	11 U	11 U	NA	NA	NA
VINYL CHLORIDE	11 U	11 U	11 U	NA	NA	NA
CHLOROETHANE	11 U	11 U	11 U	NA	NA	NA
METHYLENE CHLORIDE	11 U	11 U	11 U	NA	NA	NA
ACETONE	11 U	11 U	11 U	NA	NA	NA
CARBON DISULFIDE	11 U	11 U	11 U	NA	NA	NA
1,1-DICHLOROETHENE	11 U	11 U	11 U	NA	NA	NA
1,1-DICHLOROETHANE	11 U	11 U	11 U	NA	NA	NA
1,2-DICHLOROETHENE (TOTAL)	11 U	11 U	11 U	NA	NA	NA
CHLOROFORM	11 U	11 U	11 U	NA	NA	NA
1,2-DICHLOROETHANE	11 U	11 U	11 U	NA	NA	NA
2-BUTANONE	11 U	11 U	11 U	NA	NA	NA
1,1,1-TRICHLOROETHANE	11 U	11 U	11 U	NA	NA	NA
CARBON TETRACHLORIDE	11 U	11 U	11 U	NA	NA	NA
BROMODICHLOROMETHANE	11 U	11 U	11 U	NA	NA	NA
1,2-DICHLOROPROPANE	11 U	11 U	11 U	NA	NA	NA
CIS-1,3-DICHLOROPROPENE	11 U	11 U	11 U	NA	NA	NA
TRICHLOROETHENE	11 U	11 U	11 U	NA	NA	NA
DIBROMOCHLOROMETHANE	11 U	11 U	11 U	NA	NA	NA
1,1,2-TRICHLOROETHANE	11 U	11 U	11 U	NA	NA	NA
BENZENE	11 U	11 U	11 U	NA	NA	NA
TRANS-1,3-DICHLOROPROPENE	11 U	11 U	11 U	NA	NA	NA
BROMOFORM	11 U	11 U	11 U	NA	NA	NA
4-METHYL-2-PENTANONE	11 U	11 U	11 U	NA	NA	NA
2-HEXANONE	11 U	11 U	11 U	NA	NA	NA
TETRACHLOROETHENE	11 U	11 U	11 U	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	11 U	11 U	11 U	NA	NA	NA
TOLUENE	11 U	11 U	11 U	NA	NA	NA
CHLOROBENZENE	11 U	11 U	11 U	NA	NA	NA
ETHYLBENZENE	11 U	11 U	11 U	NA	NA	NA
STYRENE	11 U	11 U	11 U	NA	NA	NA
XYLENE (TOTAL)	11 U	11 U	11 U	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB01B-01	36-OA-SB01C-01	36-OA-SB01D-01	36-OA-SB01E-02	36-OA-SB01F-02	36-OA-SB01G-02
DATE SAMPLED	03/09/95	03/09/95	03/09/95	10/09/95	10/09/95	10/09/95
DEPTH	1-3'	1-3'	1-3'	3-5'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	380 U	370 U	380 U	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	380 U	370 U	380 U	NA	NA	NA
2-CHLOROPHENOL	380 U	370 U	380 U	NA	NA	NA
1,3-DICHLOROBENZENE	380 U	370 U	380 U	NA	NA	NA
1,4-DICHLOROBENZENE	380 U	370 U	380 U	NA	NA	NA
1,2-DICHLOROBENZENE	380 U	370 U	380 U	NA	NA	NA
2-METHYLPHENOL	380 U	370 U	380 U	NA	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	380 U	370 U	380 U	NA	NA	NA
4-METHYLPHENOL	380 U	370 U	380 U	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	380 U	370 U	380 U	NA	NA	NA
HEXACHLOROETHANE	380 U	370 U	380 U	NA	NA	NA
NITROBENZENE	380 U	370 U	380 U	NA	NA	NA
ISOPHORONE	380 U	370 U	380 U	NA	NA	NA
2-NITROPHENOL	380 U	370 U	380 U	NA	NA	NA
2,4-DIMETHYLPHENOL	380 U	370 U	380 U	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	380 U	370 U	380 U	NA	NA	NA
2,4-DICHLOROPHENOL	380 U	370 U	380 U	NA	NA	NA
1,2,4-TRICHLOROBENZENE	380 U	370 U	380 U	NA	NA	NA
NAPHTHALENE	380 U	370 U	380 U	NA	NA	NA
4-CHLOROANILINE	380 U	370 U	380 U	NA	NA	NA
HEXACHLOROBUTADIENE	380 U	370 U	380 U	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	380 U	370 U	380 U	NA	NA	NA
2-METHYLNAPHTHALENE	380 U	370 U	380 U	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	380 U	370 U	380 U	NA	NA	NA
2,4,6-TRICHLOROPHENOL	380 U	370 U	380 U	NA	NA	NA
2,4,5-TRICHLOROPHENOL	940 U	940 U	940 U	NA	NA	NA
2-CHLORONAPHTHALENE	380 U	370 U	380 U	NA	NA	NA
2-NITROANILINE	940 U	940 U	940 U	NA	NA	NA
DIMETHYLPHTHALATE	380 U	370 U	380 U	NA	NA	NA
ACENAPHTHYLENE	380 U	370 U	380 U	NA	NA	NA
2,6-DINITROTOLUENE	380 U	370 U	380 U	NA	NA	NA
3-NITROANILINE	940 U	940 U	940 U	NA	NA	NA
ACENAPHTHENE	380 U	370 U	380 U	NA	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB01B-01	36-OA-SB01C-01	36-OA-SB01D-01	36-OA-SB01E-02	36-OA-SB01F-02	36-OA-SB01G-02
DATE SAMPLED	03/09/95	03/09/95	03/09/95	10/09/95	10/09/95	10/09/95
DEPTH	1-3'	1-3'	1-3'	3-5'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	940 U	940 U	940 U	NA	NA	NA
4-NITROPHENOL	940 U	940 U	940 U	NA	NA	NA
DIBENZOFURAN	380 U	370 U	380 U	NA	NA	NA
2,4-DINITROTOLUENE	380 U	370 U	380 U	NA	NA	NA
DIETHYLPHTHALATE	380 U	370 U	380 U	NA	NA	NA
4-CHLOROPHENYL-PHENYLETHER	380 U	370 U	380 U	NA	NA	NA
FLUORENE	380 U	370 U	380 U	NA	NA	NA
4-NITROANILINE	940 U	940 U	940 U	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	940 U	940 U	940 U	NA	NA	NA
N-NITROSODIPHENYLAMINE (1)	380 U	370 U	380 U	NA	NA	NA
4-BROMOPHENYL-PHENYLETHER	380 U	370 U	380 U	NA	NA	NA
HEXACHLOROBENZENE	380 U	370 U	380 U	NA	NA	NA
PENTACHLOROPHENOL	940 U	940 U	940 U	NA	NA	NA
PHENANTHRENE	380 U	370 U	380 U	NA	NA	NA
ANTHRACENE	380 U	370 U	380 U	NA	NA	NA
CARBAZOLE	380 U	370 U	380 U	NA	NA	NA
DI-N-BUTYLPHTHALATE	380 U	370 U	380 U	NA	NA	NA
FLUORANTHENE	380 U	370 U	380 U	NA	NA	NA
PYRENE	380 U	370 U	380 U	NA	NA	NA
BUTYLBENZYLPHTHALATE	380 U	370 U	380 U	NA	NA	NA
3,3'-DICHLOROBENZIDINE	380 U	370 U	380 U	NA	NA	NA
BENZO(A)ANTHRACENE	380 U	370 U	380 U	NA	NA	NA
CHRYSENE	380 U	370 U	380 U	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	380 U	370 U	380 U	NA	NA	NA
DI-N-OCTYL PHTHALATE	380 U	370 U	380 U	NA	NA	NA
BENZO(B)FLUORANTHENE	380 U	370 U	380 U	NA	NA	NA
BENZO(K)FLUORANTHENE	380 U	370 U	380 U	NA	NA	NA
BENZO(A)PYRENE	380 U	370 U	380 U	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	380 U	370 U	380 U	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	380 U	370 U	380 U	NA	NA	NA
BENZO(G,H,I)PERYLENE	380 U	370 U	380 U	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OA-SB01B-01	36-OA-SB01C-01	36-OA-SB01D-01	36-OA-SB01E-02	36-OA-SB01F-02	36-OA-SB01G-02
DATE SAMPLED	03/09/95	03/09/95	03/09/95	10/09/95	10/09/95	10/09/95
DEPTH	1-3'	1-3'	1-3'	3-5'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
BETA-BHC	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
DELTA-BHC	1.9 U	1.9 U	1.9 U	1.9 UJ	1.9 UJ	2 UJ
GAMMA-BHC (LINDANE)	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
HEPTACHLOR	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
ALDRIN	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
HEPTACHLOR EPOXIDE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
ENDOSULFAN I	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
DIELDRIN	12	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U
4,4'-DDE	81	21	92	3.8 UJ	3.9 UJ	13 J
ENDRIN	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U
ENDOSULFAN II	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U
4,4'-DDD	27	13	47 J	3.8 U	2.7 J	180
ENDOSULFAN SULFATE	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U
4,4'-DDT	51 J	8.7	30	3.8 U	3.9 U	3.9 J
METHOXYCHLOR	19 U	19 U	19 U	19 UJ	19 UJ	20 UJ
ENDRIN KETONE	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U
ENDRIN ALDEHYDE	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U
ALPHA-CHLORDANE	1.9 U	1.9 U	4.5	1.9 U	1.9 U	2 U
GAMMA-CHLORDANE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
TOXAPHENE	190 U	190 U	190 U	190 U	190 U	200 U
AROCLOR-1016	38 U	38 U	38 U	38 U	39 U	39 U
AROCLOR-1221	75 U	75 U	75 U	76 U	77 U	78 U
AROCLOR-1232	38 U	38 U	38 U	38 U	39 U	39 U
AROCLOR-1242	38 U	38 U	38 U	38 U	39 U	39 U
AROCLOR-1248	38 U	38 U	420	19 J	39 U	120
AROCLOR-1254	38 U	38 U	38 U	38 U	39 U	39 U
AROCLOR-1260	38 U	38 U	38 U	38 U	39 U	39 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB01H-02	36-OA-SB01I-02	36-OA-SB02-03	36-OA-SB03-03	36-OA-SB04-02	36-OA-SB05-02
DATE SAMPLED	10/09/95	10/09/95	02/25/95	02/25/95	02/24/95	02/28/95
DEPTH	3-5'	3-5'	5-7'	5-7'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	NA	NA	12 U	12 U	12 U	12 U
BROMOMETHANE	NA	NA	12 U	12 U	12 U	12 U
VINYL CHLORIDE	NA	NA	12 U	12 U	12 U	12 U
CHLOROETHANE	NA	NA	12 U	12 U	12 U	12 U
METHYLENE CHLORIDE	NA	NA	12 U	12 U	12 U	12 U
ACETONE	NA	NA	12 U	12 UJ	12 U	12
CARBON DISULFIDE	NA	NA	12 U	12 U	12 U	12 U
1,1-DICHLOROETHENE	NA	NA	12 U	12 U	12 U	12 U
1,1-DICHLOROETHANE	NA	NA	12 U	12 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	NA	NA	12 U	12 U	12 U	12 U
CHLOROFORM	NA	NA	12 U	12 U	12 U	12 U
1,2-DICHLOROETHANE	NA	NA	12 U	12 U	12 U	12 U
2-BUTANONE	NA	NA	12 U	12 U	12 U	12 U
1,1,1-TRICHLOROETHANE	NA	NA	12 U	12 U	12 U	12 U
CARBON TETRACHLORIDE	NA	NA	12 U	12 U	12 U	12 U
BROMODICHLOROMETHANE	NA	NA	12 U	12 U	12 U	12 U
1,2-DICHLOROPROPANE	NA	NA	12 U	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	NA	NA	12 U	12 U	12 U	12 U
TRICHLOROETHENE	NA	NA	12 U	12 U	12 U	12 U
DIBROMOCHLOROMETHANE	NA	NA	12 U	12 U	12 U	12 U
1,1,2-TRICHLOROETHANE	NA	NA	12 U	12 U	12 U	12 U
BENZENE	NA	NA	12 U	12 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	NA	NA	12 U	12 U	12 U	12 U
BROMOFORM	NA	NA	12 U	12 U	12 U	12 U
4-METHYL-2-PENTANONE	NA	NA	12 U	12 U	12 U	12 U
2-HEXANONE	NA	NA	12 U	12 U	12 U	12 U
TETRACHLOROETHENE	NA	NA	12 U	12 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	NA	NA	12 U	12 U	12 U	12 U
TOLUENE	NA	NA	12 U	12 U	12 U	12 U
CHLOROBENZENE	NA	NA	12 U	12 U	12 U	12 U
ETHYLBENZENE	NA	NA	12 U	12 U	12 U	12 U
STYRENE	NA	NA	12 U	12 U	12 U	12 U
XYLENE (TOTAL)	NA	NA	12 U	12 U	12 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB01H-02	36-OA-SB01I-02	36-OA-SB02-03	36-OA-SB03-03	36-OA-SB04-02	36-OA-SB05-02
DATE SAMPLED	10/09/95	10/09/95	02/25/95	02/25/95	02/24/95	02/28/95
DEPTH	3-5'	3-5'	5-7'	5-7'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	NA	NA	390 U	390 U	390 U	400 U
BIS(2-CHLOROETHYL)ETHER	NA	NA	390 U	390 U	390 U	400 U
2-CHLOROPHENOL	NA	NA	390 U	390 U	390 U	400 U
1,3-DICHLOROBENZENE	NA	NA	390 U	390 U	390 U	400 U
1,4-DICHLOROBENZENE	NA	NA	390 U	390 U	390 U	400 U
1,2-DICHLOROBENZENE	NA	NA	390 U	390 U	390 U	400 U
2-METHYLPHENOL	NA	NA	390 U	390 U	390 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA	390 U	390 U	390 U	400 U
4-METHYLPHENOL	NA	NA	390 U	390 U	390 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	390 U	390 U	390 U	400 U
HEXACHLOROETHANE	NA	NA	390 U	390 U	390 U	400 U
NITROBENZENE	NA	NA	390 U	390 U	390 U	400 U
ISOPHORONE	NA	NA	390 U	390 U	390 U	400 U
2-NITROPHENOL	NA	NA	390 U	390 U	390 U	400 U
2,4-DIMETHYLPHENOL	NA	NA	390 U	390 U	390 U	400 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	390 U	390 U	390 U	400 U
2,4-DICHLOROPHENOL	NA	NA	390 U	390 U	390 U	400 U
1,2,4-TRICHLOROBENZENE	NA	NA	390 U	390 U	390 U	400 U
NAPHTHALENE	NA	NA	390 U	390 U	390 U	400 U
4-CHLOROANILINE	NA	NA	390 U	390 U	390 U	400 UJ
HEXACHLOROBUTADIENE	NA	NA	390 U	390 U	390 U	400 U
4-CHLORO-3-METHYLPHENOL	NA	NA	390 U	390 U	390 U	400 U
2-METHYLNAPHTHALENE	NA	NA	390 U	390 U	390 U	400 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	390 UJ	390 UJ	390 U	400 U
2,4,6-TRICHLOROPHENOL	NA	NA	390 U	390 U	390 U	400 U
2,4,5-TRICHLOROPHENOL	NA	NA	980 U	980 U	970 U	1000 U
2-CHLORONAPHTHALENE	NA	NA	390 U	390 U	390 U	400 U
2-NITROANILINE	NA	NA	980 U	980 U	970 U	1000 U
DIMETHYLPHTHALATE	NA	NA	390 U	390 U	390 U	400 U
ACENAPHTHYLENE	NA	NA	390 U	390 U	390 U	400 U
2,6-DINITROTOLUENE	NA	NA	390 U	390 U	390 U	400 U
3-NITROANILINE	NA	NA	980 U	980 U	970 U	1000 U
ACENAPHTHENE	NA	NA	390 U	390 U	390 U	400 U



**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB01H-02	36-OA-SB01I-02	36-OA-SB02-03	36-OA-SB03-03	36-OA-SB04-02	36-OA-SB05-02
DATE SAMPLED	10/09/95	10/09/95	02/25/95	02/25/95	02/24/95	02/28/95
DEPTH	3-5'	3-5'	5-7'	5-7'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	NA	NA	980 U	980 U	970 U	1000 U
4-NITROPHENOL	NA	NA	980 U	980 U	970 U	1000 U
DIBENZOFURAN	NA	NA	390 U	390 U	390 U	400 U
2,4-DINITROTOLUENE	NA	NA	390 U	390 U	390 U	400 U
DIETHYLPHTHALATE	NA	NA	390 U	390 U	390 U	400 U
4-CHLOROPHENYL-PHENYLETHER	NA	NA	390 U	390 U	390 U	400 U
FLUORENE	NA	NA	390 U	390 U	390 U	400 U
4-NITROANILINE	NA	NA	980 U	980 U	970 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	980 UJ	980 UJ	970 U	1000 U
N-NITROSODIPHENYLAMINE (I)	NA	NA	390 U	390 U	390 U	400 U
4-BROMOPHENYL-PHENYLETHER	NA	NA	390 U	390 U	390 U	400 U
HEXACHLOROBENZENE	NA	NA	390 U	390 U	390 U	400 U
PENTACHLOROPHENOL	NA	NA	980 U	980 U	970 U	1000 U
PHENANTHRENE	NA	NA	390 U	390 U	390 U	400 U
ANTHRACENE	NA	NA	390 U	390 U	390 U	400 U
CARBAZOLE	NA	NA	390 U	390 U	390 U	400 U
DI-N-BUTYLPHTHALATE	NA	NA	1600 U	2400 U	390 U	400 U
FLUORANTHENE	NA	NA	390 U	390 U	390 U	400 U
PYRENE	NA	NA	390 U	390 U	390 U	400 UJ
BUTYLBENZYLPHTHALATE	NA	NA	390 U	170 J	390 U	400 UJ
3,3'-DICHLOROBENZIDINE	NA	NA	390 U	390 U	390 U	400 UJ
BENZO(A)ANTHRACENE	NA	NA	390 U	390 U	390 U	400 UJ
CHRYSENE	NA	NA	390 U	390 U	390 U	400 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	390 U	390 U	390 U	350 J
DI-N-OCTYL PHTHALATE	NA	NA	390 U	390 UJ	390 U	400 U
BENZO(B)FLUORANTHENE	NA	NA	390 U	390 U	390 U	400 U
BENZO(K)FLUORANTHENE	NA	NA	390 U	390 U	390 U	400 U
BENZO(A)PYRENE	NA	NA	390 U	390 U	390 U	400 U
INDENO(1,2,3-CD)PYRENE	NA	NA	390 U	390 U	390 U	400 U
DIBENZO(A,H)ANTHRACENE	NA	NA	390 U	390 U	390 U	400 U
BENZO(G,H,I)PERYLENE	NA	NA	390 U	390 U	390 U	400 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB01H-02	36-OA-SB01I-02	36-OA-SB02-03	36-OA-SB03-03	36-OA-SB04-02	36-OA-SB05-02
DATE SAMPLED	10/09/95	10/09/95	02/25/95	02/25/95	02/24/95	02/28/95
DEPTH	3-5'	3-5'	5-7'	5-7'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	2.1 U	2 U	2 U	1.9 U	1.9 UJ	2 U
BETA-BHC	2.1 U	2 U	2 U	1.9 U	1.9 U	2 U
DELTA-BHC	2.1 U	2 UJ	2 U	1.9 U	1.9 U	2 U
GAMMA-BHC (LINDANE)	2.1 U	2 U	2 U	1.9 U	1.9 U	2 U
HEPTACHLOR	2.1 U	2 U	2 U	1.9 UJ	1.9 U	2 U
ALDRIN	2.1 U	2 U	2 U	1.9 U	1.9 U	2 U
HEPTACHLOR EPOXIDE	2.1 U	2 U	2 U	1.9 U	1.9 U	2 U
ENDOSULFAN I	2.1 U	2 U	2 U	1.9 U	1.9 U	2 U
DIELDRIN	4.1 U	4 U	3.9 U	3.8 U	3.9 U	4 U
4,4'-DDE	4.1 UJ	3.2 J	3.9 U	200	3.9 U	4 U
ENDRIN	4.1 U	4 U	3.9 U	3.8 U	3.9 U	4 U
ENDOSULFAN II	4.1 U	4 U	3.9 U	3.8 U	3.9 U	4 U
4,4'-DDD	4.1 U	4	3.9 U	430 J	3.9 U	4 U
ENDOSULFAN SULFATE	4.1 U	4 U	3.9 U	3.8 U	3.9 U	4 U
4,4'-DDT	5.4 J	2.8 J	3.9 U	220	3.9 U	4 U
METHOXYCHLOR	21 UJ	20 UJ	20 U	19 UJ	19 U	20 UJ
ENDRIN KETONE	4.1 U	4 U	3.9 U	3.8 U	3.9 U	4 U
ENDRIN ALDEHYDE	4.1 U	4 U	3.9 U	3.8 U	3.9 U	4 U
ALPHA-CHLORDANE	2.1 U	2 U	2 U	1.9 U	1.9 U	2 U
GAMMA-CHLORDANE	2.1 U	2 U	2 U	1.9 U	1.9 U	2 U
TOXAPHENE	210 U	200 U	200 U	190 U	190 U	200 U
AROCLOR-1016	41 U	40 U	39 U	38 U	39 U	40 U
AROCLOR-1221	83 U	81 U	78 U	77 U	77 U	80 U
AROCLOR-1232	41 U	40 U	39 U	38 U	39 U	40 U
AROCLOR-1242	41 U	40 U	39 U	38 U	39 U	40 U
AROCLOR-1248	41 U	35 J	39 U	38 U	39 U	40 U
AROCLOR-1254	41 U	40 U	39 U	38 U	39 U	40 U
AROCLOR-1260	41 U	40 U	39 U	38 U	39 U	40 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB06-02	36-OA-SB07-01	36-OA-SB08-01	36-OF-SB01-04	36-OF-SB02-02	36-OF-SB03-03
DATE SAMPLED	02/27/95	02/24/95	02/27/95	02/21/95	02/21/95	02/21/95
DEPTH	3-5'	1-3'	1-3'	7-9'	3-5'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	12 U	12 U	12 U	12 U	12 U	12 U
BROMOMETHANE	12 U	12 U	12 U	12 U	12 U	12 U
VINYL CHLORIDE	12 U	12 U	12 U	12 U	12 U	12 U
CHLOROETHANE	12 U	12 U	12 U	12 U	12 U	12 U
METHYLENE CHLORIDE	12 U	12 U	12 U	12 U	12 U	12 U
ACETONE	12 U	12 U	12 U	12 U	12 U	12 U
CARBON DISULFIDE	12 U	12 U	12 U	12 U	12 U	12 U
1,1-DICHLOROETHENE	12 U	12 U	12 U	12 U	12 U	12 U
1,1-DICHLOROETHANE	12 U	12 U	12 U	12 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	12 U	12 U	12 U	12 U	12 U	12 U
CHLOROFORM	12 U	12 U	12 U	12 U	12 U	12 U
1,2-DICHLOROETHANE	12 U	12 U	12 U	12 U	12 U	12 U
2-BUTANONE	12 U	12 U	12 U	12 U	12 U	12 U
1,1,1-TRICHLOROETHANE	12 U	12 UJ	12 U	12 U	12 U	12 U
CARBON TETRACHLORIDE	12 U	12 UJ	12 U	12 U	12 U	12 U
BROMODICHLOROMETHANE	12 U	12 UJ	12 U	12 U	12 U	12 U
1,2-DICHLOROPROPANE	12 U	12 UJ	12 U	12 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	12 U	12 UJ	12 U	12 U	12 U	12 U
TRICHLOROETHENE	12 U	12 UJ	12 U	12 UJ	12 U	12 U
DIBROMOCHLOROMETHANE	12 U	12 UJ	12 U	12 U	12 U	12 U
1,1,2-TRICHLOROETHANE	12 U	12 UJ	12 U	12 U	12 U	12 U
BENZENE	12 U	12 UJ	12 U	12 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	12 U	12 UJ	12 U	12 U	12 U	12 U
BROMOFORM	12 U	12 UJ	12 U	12 U	12 U	12 U
4-METHYL-2-PENTANONE	12 UJ	12 UJ	12 U	12 U	12 U	12 U
2-HEXANONE	12 UJ	12 UJ	12 U	12 U	12 U	12 U
TETRACHLOROETHENE	12 UJ	12 UJ	12 U	12 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	12 UJ	12 UJ	12 U	12 U	12 U	12 U
TOLUENE	12 UJ	12 UJ	12 U	10 J	5 J	13
CHLOROBENZENE	12 UJ	12 UJ	12 U	12 U	12 U	12 U
ETHYLBENZENE	12 UJ	12 UJ	12 U	12 U	12 U	12 U
STYRENE	12 UJ	12 UJ	12 U	12 U	12 U	12 U
XYLENE (TOTAL)	5 J	4 J	12 U	12 U	12 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB06-02	36-OA-SB07-01	36-OA-SB08-01	36-OF-SB01-04	36-OF-SB02-02	36-OF-SB03-03
DATE SAMPLED	02/27/95	02/24/95	02/27/95	02/21/95	02/21/95	02/21/95
DEPTH	3-5'	1-3'	1-3'	7-9'	3-5'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	380 U	410 U	390 U	400 U	380 U	380 U
BIS(2-CHLOROETHYL)ETHER	380 U	410 U	390 U	400 U	380 U	380 U
2-CHLOROPHENOL	380 U	410 U	390 U	400 U	380 U	380 U
1,3-DICHLOROBENZENE	380 U	410 U	390 U	400 U	380 U	380 U
1,4-DICHLOROBENZENE	380 U	410 U	390 U	400 U	380 U	380 U
1,2-DICHLOROBENZENE	380 U	410 U	390 U	400 U	380 U	380 U
2-METHYLPHENOL	380 U	410 U	390 U	400 U	380 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	380 U	410 U	390 U	400 U	380 U	380 U
4-METHYLPHENOL	380 U	410 U	390 U	400 U	380 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	380 U	410 U	390 U	400 U	380 U	380 U
HEXACHLOROETHANE	380 U	410 U	390 U	400 U	380 U	380 U
NITROBENZENE	380 U	410 U	390 U	400 U	380 U	380 U
ISOPHORONE	380 U	410 U	390 U	400 U	380 U	380 U
2-NITROPHENOL	380 U	410 U	390 U	400 U	380 U	380 U
2,4-DIMETHYLPHENOL	380 U	410 U	390 U	400 U	380 U	380 U
BIS(2-CHLOROETHOXY)METHANE	380 U	410 U	390 U	400 U	380 U	380 U
2,4-DICHLOROPHENOL	380 U	410 U	390 U	400 U	380 U	380 U
1,2,4-TRICHLOROBENZENE	380 U	410 U	390 U	400 U	380 U	380 U
NAPHTHALENE	380 U	410 U	390 U	400 U	380 U	380 U
4-CHLOROANILINE	380 U	410 U	390 U	400 U	380 U	380 U
HEXACHLOROBUTADIENE	380 U	410 U	390 U	400 U	380 U	380 U
4-CHLORO-3-METHYLPHENOL	380 U	410 U	390 U	400 U	380 U	380 U
2-METHYLNAPHTHALENE	380 U	410 U	390 U	400 U	380 U	380 U
HEXACHLOROCYCLOPENTADIENE	380 U	410 U	390 U	400 U	380 U	380 U
2,4,6-TRICHLOROPHENOL	380 U	410 U	390 U	400 U	380 U	380 U
2,4,5-TRICHLOROPHENOL	950 U	1000 U	980 U	1000 U	950 U	950 U
2-CHLORONAPHTHALENE	380 U	410 U	390 U	400 U	380 U	380 U
2-NITROANILINE	950 U	1000 U	980 U	1000 U	950 U	950 U
DIMETHYLPHTHALATE	380 U	410 U	390 U	400 U	380 U	380 U
ACENAPHTHYLENE	380 U	410 U	390 U	400 U	380 U	380 U
2,6-DINITROTOLUENE	380 U	410 U	390 U	400 U	380 U	380 U
3-NITROANILINE	950 U	1000 U	980 U	1000 U	950 U	950 U
ACENAPHTHENE	380 U	410 U	390 U	400 U	380 U	380 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB06-02	36-OA-SB07-01	36-OA-SB08-01	36-OF-SB01-04	36-OF-SB02-02	36-OF-SB03-03
DATE SAMPLED	02/27/95	02/24/95	02/27/95	02/21/95	02/21/95	02/21/95
DEPTH	3-5'	1-3'	1-3'	7-9'	3-5'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	950 U	1000 U	980 U	1000 U	950 U	950 U
4-NITROPHENOL	950 U	1000 U	980 U	1000 U	950 U	950 U
DIBENZOFURAN	380 U	410 U	390 U	400 U	380 U	380 U
2,4-DINITROTOLUENE	380 U	410 U	390 U	400 U	380 U	380 U
DIETHYLPHTHALATE	380 U	410 U	390 U	400 U	380 U	380 U
4-CHLOROPHENYL-PHENYLETHER	380 U	410 U	390 U	400 U	380 U	380 U
FLUORENE	380 U	410 U	390 U	400 U	380 U	380 U
4-NITROANILINE	950 U	1000 U	980 U	1000 U	950 U	950 U
4,6-DINITRO-2-METHYLPHENOL	950 U	1000 U	980 U	1000 U	950 U	950 UJ
N-NITROSODIPHENYLAMINE (1)	380 U	410 U	390 U	400 U	380 U	380 U
4-BROMOPHENYL-PHENYLETHER	380 U	410 U	390 U	400 U	380 U	380 U
HEXACHLOROBENZENE	380 U	410 U	390 U	400 U	380 U	380 U
PENTACHLOROPHENOL	950 U	1000 U	980 U	1000 U	950 U	950 U
PHENANTHRENE	380 U	190 J	390 U	400 U	380 U	380 U
ANTHRACENE	380 U	410 U	390 U	400 U	380 U	380 U
CARBAZOLE	380 U	410 U	390 U	400 U	380 U	380 U
DI-N-BUTYLPHTHALATE	380 U	410 U	390 U	400 U	380 U	2300 U
FLUORANTHENE	380 U	320 J	390 U	400 U	380 U	380 U
PYRENE	380 U	320 J	390 U	400 U	380 U	380 U
BUTYLBENZYLPHTHALATE	380 U	410 UJ	390 U	42 J	380 U	110 J
3,3'-DICHLOROBENZIDINE	380 U	410 UJ	390 U	400 U	380 U	380 U
BENZO(A)ANTHRACENE	380 U	140 J	390 U	400 U	380 U	380 U
CHRYSENE	380 U	200 J	390 U	400 U	380 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	380 U	140 J	390 U	63 J	380 U	380 U
DI-N-OCTYL PHTHALATE	380 U	410 U	390 U	400 U	380 U	380 U
BENZO(B)FLUORANTHENE	380 U	170 J	390 U	400 U	380 U	380 U
BENZO(K)FLUORANTHENE	380 U	68 J	390 U	400 U	380 U	380 U
BENZO(A)PYRENE	380 U	83 J	390 U	400 U	380 U	380 U
INDENO(1,2,3-CD)PYRENE	380 U	110 J	390 U	400 U	380 U	380 U
DIBENZO(A,H)ANTHRACENE	380 U	410 U	390 U	400 U	380 U	380 U
BENZO(G,H,I)PERYLENE	380 U	89 J	390 U	400 U	380 U	380 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB06-02	36-OA-SB07-01	36-OA-SB08-01	36-OF-SB01-04	36-OF-SB02-02	36-OF-SB03-03
DATE SAMPLED	02/27/95	02/24/95	02/27/95	02/21/95	02/21/95	02/21/95
DEPTH	3-5'	1-3'	1-3'	7-9'	3-5'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	1.9 UJ	2 UJ	2 UJ	2 UJ	1.9 UJ	1.9 UJ
BETA-BHC	1.9 UJ	2 U	2 UJ	2 U	1.9 UJ	1.9 UJ
DELTA-BHC	1.9 UJ	2 U	2 UJ	2 UJ	1.9 UJ	1.9 UJ
GAMMA-BHC (LINDANE)	1.9 UJ	2 U	2 UJ	2 UJ	1.9 UJ	1.9 UJ
HEPTACHLOR	1.9 UJ	2 U	2 UJ	2 U	1.9 UJ	1.9 UJ
ALDRIN	1.9 UJ	2 U	2 UJ	2 U	1.9 UJ	1.5 J
HEPTACHLOR EPOXIDE	1.9 UJ	2 U	2 UJ	2 U	1.9 UJ	1.9 UJ
ENDOSULFAN I	1.9 UJ	2 U	2 UJ	2 U	1.9 UJ	1.9 UJ
DIELDRIN	3.7 UJ	4.1 U	4 UJ	4 U	12 J	22 J
4,4'-DDE	3.7 UJ	450 J	35 J	4 UJ	3.7 UJ	3.7 UJ
ENDRIN	3.7 UJ	4.1 J	4 UJ	4 U	3.7 UJ	3.7 UJ
ENDOSULFAN II	3.7 UJ	4.1 U	4 UJ	4 U	3.7 UJ	3.7 UJ
4,4'-DDD	3.7 UJ	430 J	15 J	4 U	3.7 UJ	3.7 UJ
ENDOSULFAN SULFATE	3.7 UJ	4.1 U	4 UJ	4 U	3.7 UJ	3.7 UJ
4,4'-DDT	3.7 UJ	56	18 J	4 U	3.7 UJ	3.7 UJ
METHOXYCHLOR	19 UJ	20 U	20 UJ	20 U	19 UJ	19 UJ
ENDRIN KETONE	3.7 UJ	4.1 U	4 UJ	4 U	3.7 UJ	3.7 UJ
ENDRIN ALDEHYDE	3.7 UJ	4.1 U	4 UJ	4 U	3.7 UJ	3.7 UJ
ALPHA-CHLORDANE	1.9 UJ	4.1 J	20 J	2 U	1.9 UJ	1.9 UJ
GAMMA-CHLORDANE	1.9 UJ	5.7 J	17 J	2 U	1.9 UJ	1.9 UJ
TOXAPHENE	190 UJ	200 U	200 UJ	200 U	190 UJ	190 UJ
AROCLOR-1016	37 UJ	41 U	40 UJ	40 U	37 UJ	37 UJ
AROCLOR-1221	75 UJ	81 U	79 UJ	80 U	74 UJ	74 UJ
AROCLOR-1232	37 UJ	41 U	40 UJ	40 U	37 UJ	37 UJ
AROCLOR-1242	37 UJ	41 U	40 UJ	40 U	37 UJ	37 UJ
AROCLOR-1248	37 UJ	41 U	40 UJ	40 U	37 UJ	37 UJ
AROCLOR-1254	37 UJ	41 U	40 UJ	40 U	37 UJ	37 UJ
AROCLOR-1260	37 UJ	41 U	40 UJ	40 U	37 UJ	37 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OF-SB04-04	36-OF-SB05-06	36-OF-SB06-03	36-OF-SB06A-01	36-OF-SB06B-02	36-OF-SB06C-02
DATE SAMPLED	02/22/95	02/21/95	02/21/95	03/09/95	03/09/95	03/09/95
DEPTH	7-9'		5-7'	1-3'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	13 U	12 U	13 U	12 U	13 U	12 U
BROMOMETHANE	13 U	12 U	13 U	12 U	13 U	12 U
VINYL CHLORIDE	13 U	12 U	13 U	12 U	13 U	12 U
CHLOROETHANE	13 U	12 U	13 U	12 U	13 U	12 U
METHYLENE CHLORIDE	13 U	12 U	13 U	12 U	13 U	12 U
ACETONE	120 U	24	14 U	12 U	13 U	12 U
CARBON DISULFIDE	13 U	12 U	13 U	12 U	13 U	12 U
1,1-DICHLOROETHENE	13 U	12 U	13 U	12 U	13 U	12 U
1,1-DICHLOROETHANE	13 U	12 U	13 U	12 U	13 U	12 U
1,2-DICHLOROETHENE (TOTAL)	13 U	12 U	13 U	12 U	13 U	12 U
CHLOROFORM	13 U	12 U	13 U	12 U	13 U	12 U
1,2-DICHLOROETHANE	13 U	12 U	13 U	12 U	13 U	12 U
2-BUTANONE	13 U	12 U	13 U	12 U	13 U	12 U
1,1,1-TRICHLOROETHANE	13 U	12 U	13 U	12 U	13 U	12 U
CARBON TETRACHLORIDE	13 U	12 U	13 U	12 U	13 U	12 U
BROMODICHLOROMETHANE	13 U	12 U	13 U	12 U	13 U	12 U
1,2-DICHLOROPROPANE	13 U	12 U	13 U	12 U	13 U	12 U
CIS-1,3-DICHLOROPROPENE	13 U	12 U	13 U	12 U	13 U	12 U
TRICHLOROETHENE	13 U	12 U	13 UJ	12 U	13 U	12 U
DIBROMOCHLOROMETHANE	13 U	12 U	13 U	12 U	13 U	12 U
1,1,2-TRICHLOROETHANE	13 U	12 U	13 U	12 U	13 U	12 U
BENZENE	13 U	12 U	13 U	12 U	13 U	12 U
TRANS-1,3-DICHLOROPROPENE	13 U	12 U	13 U	12 U	13 U	12 U
BROMOFORM	13 U	12 U	13 U	12 U	13 U	12 U
4-METHYL-2-PENTANONE	13 U	12 U	13 U	12 UJ	13 U	12 U
2-HEXANONE	13 U	12 U	13 U	12 UJ	13 U	12 U
TETRACHLOROETHENE	13 U	12 U	13 U	12 UJ	13 U	12 U
1,1,2,2-TETRACHLOROETHANE	13 U	12 U	13 U	12 UJ	13 U	12 U
TOLUENE	13 U	14	17	12 UJ	13 U	12 U
CHLOROBENZENE	13 U	12 U	13 U	12 UJ	13 U	12 U
ETHYLBENZENE	13 U	12 U	13 U	12 UJ	13 U	12 U
STYRENE	13 U	12 U	13 U	12 UJ	13 U	12 U
XYLENE (TOTAL)	13 U	12 U	13 U	4 J	13 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OF-SB04-04	36-OF-SB05-06	36-OF-SB06-03	36-OF-SB06A-01	36-OF-SB06B-02	36-OF-SB06C-02
DATE SAMPLED	02/22/95	02/21/95	02/21/95	03/09/95	03/09/95	03/09/95
DEPTH	7-9'		5-7'	1-3'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	430 U	390 U	430 U	390 U	410 U	390 U
BIS(2-CHLOROETHYL)ETHER	430 U	390 U	430 U	390 U	410 U	390 U
2-CHLOROPHENOL	430 U	390 U	430 U	390 U	410 U	390 U
1,3-DICHLOROBENZENE	430 U	390 U	430 U	390 U	410 U	390 U
1,4-DICHLOROBENZENE	430 U	390 U	430 U	390 U	410 U	390 U
1,2-DICHLOROBENZENE	430 U	390 U	430 U	390 U	410 U	390 U
2-METHYLPHENOL	430 U	390 U	430 U	390 U	410 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	430 U	390 U	430 U	390 U	410 U	390 U
4-METHYLPHENOL	430 U	390 U	430 U	390 U	410 U	390 U
N-NITROSO-DI-N-PROPYLAMINE	430 U	390 U	430 U	390 U	410 U	390 U
HEXACHLOROETHANE	430 U	390 U	430 U	390 U	410 U	390 U
NITROBENZENE	430 U	390 U	430 U	390 U	410 U	390 U
ISOPHORONE	430 U	390 U	430 U	390 U	410 U	390 U
2-NITROPHENOL	430 U	390 U	430 U	390 U	410 U	390 U
2,4-DIMETHYLPHENOL	430 U	390 U	430 U	390 U	410 U	390 U
BIS(2-CHLOROETHOXY)METHANE	430 U	390 U	430 U	390 U	410 U	390 U
2,4-DICHLOROPHENOL	430 U	390 U	430 U	390 U	410 U	390 U
1,2,4-TRICHLOROBENZENE	430 U	390 U	430 U	390 U	410 U	390 U
NAPHTHALENE	430 U	390 U	430 U	390 U	410 U	390 U
4-CHLOROANILINE	430 U	390 U	430 U	390 U	410 U	390 U
HEXACHLOROBUTADIENE	430 U	390 U	430 U	390 U	410 U	390 U
4-CHLORO-3-METHYLPHENOL	430 U	390 U	430 U	390 U	410 U	390 U
2-METHYLNAPHTHALENE	430 U	390 U	430 U	390 U	410 U	390 U
HEXACHLOROCYCLOPENTADIENE	430 U	390 U	430 U	390 U	410 U	390 U
2,4,6-TRICHLOROPHENOL	430 U	390 U	430 U	390 U	410 U	390 U
2,4,5-TRICHLOROPHENOL	1100 U	960 U	1100 U	970 U	1000 U	960 U
2-CHLORONAPHTHALENE	430 U	390 U	430 U	390 U	410 U	390 U
2-NITROANILINE	1100 U	960 U	1100 U	970 U	1000 U	960 U
DIMETHYLPHTHALATE	430 U	390 U	430 U	390 U	410 U	390 U
ACENAPHTHYLENE	430 U	390 U	430 U	390 U	410 U	390 U
2,6-DINITROTOLUENE	430 U	390 U	430 U	390 U	410 U	390 U
3-NITROANILINE	1100 U	960 U	1100 U	970 U	1000 U	960 U
ACENAPHTHENE	430 U	390 U	430 U	390 U	410 U	390 U



SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OF-SB04-04	36-OF-SB05-06	36-OF-SB06-03	36-OF-SB06A-01	36-OF-SB06B-02	36-OF-SB06C-02
DATE SAMPLED	02/22/95	02/21/95	02/21/95	03/09/95	03/09/95	03/09/95
DEPTH	7-9'		5-7'	1-3'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	1100 U	960 U	1100 U	970 U	1000 U	960 U
4-NITROPHENOL	1100 U	960 U	1100 U	970 U	1000 U	960 U
DIBENZOFURAN	430 U	390 U	430 U	390 U	410 U	390 U
2,4-DINITROTOLUENE	430 U	390 U	430 U	390 U	410 U	390 U
DIETHYLPHTHALATE	430 U	390 U	430 U	390 U	410 U	390 U
4-CHLOROPHENYL-PHENYLETHER	430 U	390 U	430 U	390 U	410 U	390 U
FLUORENE	430 U	390 U	430 U	390 U	410 U	390 U
4-NITROANILINE	1100 U	960 U	1100 U	970 U	1000 U	960 U
4,6-DINITRO-2-METHYLPHENOL	1100 U	960 UJ	1100 U	970 U	1000 U	960 U
N-NITROSODIPHENYLAMINE (1)	430 U	390 U	430 U	390 U	410 U	390 U
4-BROMOPHENYL-PHENYLETHER	430 U	390 U	430 U	390 U	410 U	390 U
HEXACHLOROBENZENE	430 U	390 U	430 U	390 U	410 U	390 U
PENTACHLOROPHENOL	1100 U	960 U	1100 U	970 U	1000 U	960 U
PHENANTHRENE	430 U	390 U	430 U	390 U	410 U	390 U
ANTHRACENE	430 U	390 U	430 U	390 U	410 U	390 U
CARBAZOLE	430 U	390 U	430 U	390 U	410 U	390 U
DI-N-BUTYLPHTHALATE	430 U	1900 U	430 U	390 U	1400 U	1000 U
FLUORANTHENE	430 U	390 U	430 U	390 U	410 U	390 U
PYRENE	430 U	390 U	430 U	390 U	410 U	390 U
BUTYLBENZYLPHTHALATE	430 U	390 U	430 U	390 U	410 U	390 U
3,3'-DICHLOROBENZIDINE	430 U	390 U	430 U	390 U	410 U	390 U
BENZO(A)ANTHRACENE	430 U	390 U	430 U	390 U	410 U	390 U
CHRYSENE	430 U	390 U	430 U	390 U	410 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	76 J	120 J	97 J	200 J	410 U	390 U
DI-N-OCTYL PHTHALATE	430 U	390 U	430 U	390 U	410 U	390 U
BENZO(B)FLUORANTHENE	44 J	390 U	430 U	390 U	410 U	390 U
BENZO(K)FLUORANTHENE	430 U	390 U	430 U	390 U	410 U	390 U
BENZO(A)PYRENE	430 U	390 U	430 U	390 U	410 U	390 U
INDENO(1,2,3-CD)PYRENE	430 U	390 U	430 U	390 U	410 U	390 U
DIBENZO(A,H)ANTHRACENE	430 U	390 U	430 U	390 U	410 U	390 U
BENZO(G,H,I)PERYLENE	430 U	390 U	430 U	390 U	410 U	390 U

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OF-SB04-04	36-OF-SB05-06	36-OF-SB06-03	36-OF-SB06A-01	36-OF-SB06B-02	36-OF-SB06C-02
DATE SAMPLED	02/22/95	02/21/95	02/21/95	03/09/95	03/09/95	03/09/95
DEPTH	7-9'		5-7'	1-3'	3-5'	3-5'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	2.2 UJ	1.9 UJ	2.2 UJ	1.9 UJ	2.1 UJ	1.9 UJ
BETA-BHC	2.2 UJ	1.9 UJ	2.2 U	1.9 UJ	2.1 UJ	1.9 UJ
DELTA-BHC	2.2 UJ	1.9 UJ	2.2 UJ	1.9 UJ	2.1 UJ	1.9 UJ
GAMMA-BHC (LINDANE)	2.2 UJ	1.9 UJ	2.2 UJ	1.9 UJ	2.1 UJ	1.9 UJ
HEPTACHLOR	2.2 UJ	1.9 UJ	2.2 U	1.9 UJ	2.1 UJ	1.9 UJ
ALDRIN	2.2 UJ	1.9 UJ	2.2 U	1.9 UJ	2.1 UJ	1.9 UJ
HEPTACHLOR EPOXIDE	2.2 UJ	1.9 UJ	2.2 U	1.9 UJ	2.1 UJ	1.9 UJ
ENDOSULFAN I	2.2 UJ	1.9 UJ	2.2 U	1.9 UJ	2.1 UJ	1.9 UJ
DIELDRIN	2.2 J	3.8 UJ	4.4 U	16 J	4.5 J	3.1 J
4,4'-DDE	3.9 J	2.3 J	12 J	230 J	650 J	14 J
ENDRIN	4.3 UJ	3.8 UJ	4.4 U	3.1 J	5 J	3.9 UJ
ENDOSULFAN II	4.3 UJ	3.8 UJ	4.4 U	3.9 UJ	2 J	3.9 UJ
4,4'-DDD	3 J	2.3 J	28	180	190	41 J
ENDOSULFAN SULFATE	4.3 UJ	3.8 UJ	4.4 U	3.9 UJ	4.1 UJ	3.9 UJ
4,4'-DDT	3 J	3.8 UJ	4.4 J	18 J	8.3 J	21 J
METHOXYCHLOR	22 UJ	19 UJ	22 U	19 UJ	21 UJ	19 UJ
ENDRIN KETONE	4.3 UJ	3.8 UJ	4.4 U	3.9 UJ	4.1 UJ	3.9 UJ
ENDRIN ALDEHYDE	4.3 UJ	3.8 UJ	4.4 U	3.5 J	4.1 J	3.9 UJ
ALPHA-CHLORDANE	2.2 UJ	1.9 UJ	2.2 U	5.1 J	1.7 J	1.9 UJ
GAMMA-CHLORDANE	2.2 UJ	1.9 UJ	2.2 U	3.1 J	2.1 UJ	1.9 UJ
TOXAPHENE	220 UJ	190 UJ	220 U	190 UJ	210 UJ	190 UJ
AROCLOR-1016	43 UJ	38 UJ	44 U	39 UJ	41 UJ	39 UJ
AROCLOR-1221	86 UJ	76 UJ	87 U	78 UJ	83 UJ	77 UJ
AROCLOR-1232	43 UJ	38 UJ	44 U	39 UJ	41 UJ	39 UJ
AROCLOR-1242	43 UJ	38 UJ	44 U	39 UJ	41 UJ	39 UJ
AROCLOR-1248	43 UJ	38 UJ	44 U	39 UJ	41 UJ	39 UJ
AROCLOR-1254	43 UJ	38 UJ	44 U	39 UJ	41 UJ	39 UJ
AROCLOR-1260	43 UJ	38 UJ	44 U	39 UJ	41 UJ	39 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OF-SB06D-02
DATE SAMPLED	03/09/95
DEPTH	3-5'
UNITS	UG/KG

**VOLATILES**

CHLOROMETHANE	12 U
BROMOMETHANE	12 U
VINYL CHLORIDE	12 U
CHLOROETHANE	12 U
METHYLENE CHLORIDE	12 U
ACETONE	12 U
CARBON DISULFIDE	12 U
1,1-DICHLOROETHENE	12 U
1,1-DICHLOROETHANE	12 U
1,2-DICHLOROETHENE (TOTAL)	12 U
CHLOROFORM	12 U
1,2-DICHLOROETHANE	12 U
2-BUTANONE	12 U
1,1,1-TRICHLOROETHANE	12 U
CARBON TETRACHLORIDE	12 U
BROMODICHLOROMETHANE	12 U
1,2-DICHLOROPROPANE	12 U
CIS-1,3-DICHLOROPROPENE	12 U
TRICHLOROETHENE	12 U
DIBROMOCHLOROMETHANE	12 U
1,1,2-TRICHLOROETHANE	12 U
BENZENE	12 U
TRANS-1,3-DICHLOROPROPENE	12 U
BROMOFORM	12 U
4-METHYL-2-PENTANONE	12 U
2-HEXANONE	12 U
TETRACHLOROETHENE	12 U
1,1,2,2-TETRACHLOROETHANE	12 U
TOLUENE	12 U
CHLOROBENZENE	12 U
ETHYLBENZENE	12 U
STYRENE	12 U
XYLENE (TOTAL)	12 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OF-SB06D-02
DATE SAMPLED	03/09/95
DEPTH	3-5'
UNITS	UG/KG

**SEMIVOLATILES**

PHENOL	410 U
BIS(2-CHLOROETHYL)ETHER	410 U
2-CHLOROPHENOL	410 U
1,3-DICHLOROBENZENE	410 U
1,4-DICHLOROBENZENE	410 U
1,2-DICHLOROBENZENE	410 U
2-METHYLPHENOL	410 U
2,2'-OXYBIS(1-CHLOROPROPANE)	410 UJ
4-METHYLPHENOL	410 U
N-NITROSO-DI-N-PROPYLAMINE	410 U
HEXACHLOROETHANE	410 U
NITROBENZENE	410 U
ISOPHORONE	410 U
2-NITROPHENOL	410 U
2,4-DIMETHYLPHENOL	410 U
BIS(2-CHLOROETHOXY)METHANE	410 U
2,4-DICHLOROPHENOL	410 U
1,2,4-TRICHLOROBENZENE	410 U
NAPHTHALENE	410 U
4-CHLOROANILINE	410 U
HEXACHLOROBUTADIENE	410 U
4-CHLORO-3-METHYLPHENOL	410 U
2-METHYLNAPHTHALENE	410 U
HEXACHLOROCYCLOPENTADIENE	410 U
2,4,6-TRICHLOROPHENOL	410 U
2,4,5-TRICHLOROPHENOL	1000 U
2-CHLORONAPHTHALENE	410 U
2-NITROANILINE	1000 U
DIMETHYLPHTHALATE	410 U
ACENAPHTHYLENE	410 U
2,6-DINITROTOLUENE	410 U
3-NITROANILINE	1000 U
ACENAPHTHENE	410 U

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION 36-OF-SB06D-02  
 DATE SAMPLED 03/09/95  
 DEPTH 3-5'  
 UNITS UG/KG

SEMIVOLATILES cont.

2,4-DINITROPHENOL	1000 U
4-NITROPHENOL	1000 U
DIBENZOFURAN	410 U
2,4-DINITROTOLUENE	410 U
DIETHYLPHTHALATE	410 U
4-CHLOROPHENYL-PHENYLEETHER	410 U
FLUORENE	410 U
4-NITROANILINE	1000 U
4,6-DINITRO-2-METHYLPHENOL	1000 U
N-NITROSODIPHENYLAMINE (1)	410 U
4-BROMOPHENYL-PHENYLEETHER	410 U
HEXACHLOROBENZENE	410 U
PENTACHLOROPHENOL	1000 U
PHENANTHRENE	48 J
ANTHRACENE	410 U
CARBAZOLE	410 U
DI-N-BUTYLPHTHALATE	1000 U
FLUORANTHENE	130 J
PYRENE	120 J
BUTYLBENZYLPHTHALATE	410 U
3,3'-DICHLOROBENZIDINE	410 U
BENZO(A)ANTHRACENE	69 J
CHRYSENE	110 J
BIS(2-ETHYLHEXYL)PHTHALATE	410 U
DI-N-OCTYL PHTHALATE	410 U
BENZO(B)FLUORANTHENE	110 J
BENZO(K)FLUORANTHENE	42 J
BENZO(A)PYRENE	72 J
INDENO(1,2,3-CD)PYRENE	48 J
DIBENZO(A,H)ANTHRACENE	410 U
BENZO(G,H,I)PERYLENE	410 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OF-SB06D-02
DATE SAMPLED	03/09/95
DEPTH	3-5'
UNITS	UG/KG

<b>PESTICIDE/PCBs</b>	
ALPHA-BHC	2 U
BETA-BHC	2 U
DELTA-BHC	2 U
GAMMA-BHC (LINDANE)	4
HEPTACHLOR	2 U
ALDRIN	2 U
HEPTACHLOR EPOXIDE	2 U
ENDOSULFAN I	2 U
DIELDRIN	11
4,4'-DDE	220 J
ENDRIN	4 U
ENDOSULFAN II	4 U
4,4'-DDD	110
ENDOSULFAN SULFATE	4 U
4,4'-DDT	82
METHOXYCHLOR	20 U
ENDRIN KETONE	4 U
ENDRIN ALDEHYDE	4 U
ALPHA-CHLORDANE	1.6 J
GAMMA-CHLORDANE	2 U
TOXAPHENE	200 U
AROCLOR-1016	40 U
AROCLOR-1221	80 U
AROCLOR-1232	40 U
AROCLOR-1242	40 U
AROCLOR-1248	40 U
AROCLOR-1254	40 U
AROCLOR-1260	40 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
CHLOROMETHANE	11 U	25 UJ	ND	ND		0/62
BROMOMETHANE	11 U	25 UJ	ND	ND		0/62
VINYL CHLORIDE	11 U	25 UJ	ND	ND		0/62
CHLOROETHANE	11 U	25 UJ	ND	ND		0/62
METHYLENE CHLORIDE	11 U	25 UJ	ND	ND		0/62
ACETONE	11 U	700 B	12	480 J	36-GS-SB03-02	8/62
CARBON DISULFIDE	11 U	25 UJ	ND	ND		0/62
1,1-DICHLOROETHENE	11 U	25 UJ	ND	ND		0/62
1,1-DICHLOROETHANE	11 U	25 UJ	ND	ND		0/62
1,2-DICHLOROETHENE (TOTAL)	11 U	25 UJ	4 J	4 J	36-OA-SB01-01	1/62
CHLOROFORM	11 U	25 UJ	ND	ND		0/62
1,2-DICHLOROETHANE	11 U	25 UJ	ND	ND		0/62
2-BUTANONE	11 U	14 U	10 J	170 J	36-GS-SB03-02	3/62
1,1,1-TRICHLOROETHANE	11 U	25 UJ	ND	ND		0/62
CARBON TETRACHLORIDE	11 U	25 UJ	ND	ND		0/62
BROMODICHLOROMETHANE	11 U	25 UJ	ND	ND		0/62
1,2-DICHLOROPROPANE	11 U	25 UJ	ND	ND		0/62
CIS-1,3-DICHLOROPROPENE	11 U	25 UJ	ND	ND		0/62
TRICHLOROETHENE	11 U	25 UJ	3 J	5 J	36-FDA-SB01-02	3/62
DIBROMOCHLOROMETHANE	11 U	25 UJ	ND	ND		0/62
1,1,2-TRICHLOROETHANE	11 U	25 UJ	ND	ND		0/62
BENZENE	11 U	25 UJ	3 J	3 J	36-FDA-SB01-02	1/62
TRANS-1,3-DICHLOROPROPENE	11 U	25 UJ	ND	ND		0/62
BROMOFORM	11 U	25 UJ	ND	ND		0/62
4-METHYL-2-PENTANONE	11 U	25 UJ	ND	ND		0/62
2-HEXANONE	11 U	25 UJ	ND	ND		0/62
TETRACHLOROETHENE	11 U	25 UJ	ND	ND		0/62
1,1,2,2-TETRACHLOROETHANE	11 U	25 UJ	ND	ND		0/62
TOLUENE	11 U	25 UJ	5 J	17	36-OF-SB06-03	5/62
CHLOROBENZENE	11 U	25 UJ	ND	ND		0/62
ETHYLBENZENE	11 U	25 UJ	ND	ND		0/62
STYRENE	11 U	25 UJ	ND	ND		0/62
XYLENE (TOTAL)	11 U	25 UJ	2 J	6 J	36-FDA-SB06-07	8/62

SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
PHENOL	370 U	830 U	ND	ND		0/57
BIS(2-CHLOROETHYL)ETHER	370 U	830 U	ND	ND		0/57
2-CHLOROPHENOL	370 U	830 U	ND	ND		0/57
1,3-DICHLOROBENZENE	370 U	830 U	ND	ND		0/57
1,4-DICHLOROBENZENE	370 U	830 U	97 J	97 J	36-DAB-SB02-02	1/57
1,2-DICHLOROBENZENE	370 U	830 U	ND	ND		0/57
2-METHYLPHENOL	370 U	830 U	510 J	510 J	36-DAB-SB01-01	1/58
2,2'-OXYBIS(1-CHLOROPROPANE)	370 U	830 U	ND	ND		0/57
4-METHYLPHENOL	370 U	830 U	43 J	43 J	36-DAB-SB01-01	1/58
N-NITROSO-DI-N-PROPYLAMINE	370 U	830 U	ND	ND		0/57
HEXACHLOROETHANE	370 U	830 U	ND	ND		0/57
NITROBENZENE	370 U	830 U	ND	ND		0/57
ISOPHORONE	370 U	830 U	2100	2100	36-DAB-SB01-01	1/58
2-NITROPHENOL	370 U	830 U	ND	ND		0/57
2,4-DIMETHYLPHENOL	370 U	830 U	ND	ND		0/57
BIS(2-CHLOROETHOXY)METHANE	370 U	830 U	ND	ND		0/57
2,4-DICHLOROPHENOL	370 U	830 U	ND	ND		0/57
1,2,4-TRICHLOROBENZENE	370 U	830 U	ND	ND		0/57
NAPHTHALENE	370 U	830 U	41 J	41 J	36-OA-SB01A-01	1/57
4-CHLOROANILINE	370 U	830 U	ND	ND		0/57
HEXACHLOROBUTADIENE	370 U	830 U	ND	ND		0/57
4-CHLORO-3-METHYLPHENOL	370 U	830 U	ND	ND		0/57
2-METHYLNAPHTHALENE	370 U	830 U	65 J	85 J	36-FDA-SB02-04	2/57
HEXACHLOROCYCLOPENTADIENE	370 U	830 U	ND	ND		0/57
2,4,6-TRICHLOROPHENOL	370 U	830 U	ND	ND		0/57
2,4,5-TRICHLOROPHENOL	920 U	2100 U	ND	ND		0/57
2-CHLORONAPHTHALENE	370 U	830 U	ND	ND		0/57
2-NITROANILINE	920 U	2100 U	ND	ND		0/57
DIMETHYLPHTHALATE	370 U	830 U	ND	ND		0/57
ACENAPHTHYLENE	370 U	830 U	ND	ND		0/57
2,6-DINITROTOLUENE	370 U	830 U	ND	ND		0/57
3-NITROANILINE	920 U	2100 U	ND	ND		0/57
ACENAPHTHENE	370 U	830 U	ND	ND		0/57



SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont.</b>						
2,4-DINITROPHENOL	920 UJ	2100 U	ND	ND		0/57
4-NITROPHENOL	920 U	2100 U	ND	ND		0/57
DIBENZOFURAN	370 U	830 U	ND	ND		0/57
2,4-DINITROTOLUENE	370 U	830 U	ND	ND		0/57
DIETHYLPHTHALATE	370 U	830 U	ND	ND		0/57
4-CHLOROPHENYL-PHENYLEETHER	370 U	830 U	ND	ND		0/57
FLUORENE	370 U	830 U	ND	ND		0/57
4-NITROANILINE	920 U	2100 U	ND	ND		0/54
4,6-DINITRO-2-METHYLPHENOL	920 U	2100 U	ND	ND		0/57
N-NITROSODIPHENYLAMINE (1)	370 U	830 U	ND	ND		0/57
4-BROMOPHENYL-PHENYLEETHER	370 U	830 U	ND	ND		0/57
HEXACHLOROBENZENE	370 U	830 U	ND	ND		0/57
PENTACHLOROPHENOL	920 U	2100 U	ND	ND		0/57
PHENANTHRENE	370 U	830 U	48 J	190 J	36-OA-SB07-01	3/57
ANTHRACENE	370 U	830 U	ND	ND		0/57
CARBAZOLE	370 U	830 U	ND	ND		0/57
DI-N-BUTYLPHTHALATE	370 U	2700 U	56 J	56 J	36-OA-SB01-01	1/58
FLUORANTHENE	370 U	830 U	130 J	320 J	36-OA-SB07-01	3/57
PYRENE	370 U	830 U	59 J	320 J	36-OA-SB07-01	5/57
BUTYLBENZYLPHTHALATE	370 U	830 U	42 J	170 J	36-OA-SB03-03	3/57
3,3'-DICHLOROBENZIDINE	370 U	830 U	ND	ND		0/57
BENZO(A)ANTHRACENE	370 U	830 U	69 J	140 J	36-OA-SB07-01	3/57
CHRYSENE	370 U	830 U	41 J	200 J	36-OA-SB07-01	5/57
BIS(2-ETHYLHEXYL)PHTHALATE	370 U	830 U	39 J	530	36-GW07-01	13/58
DI-N-OCTYL PHTHALATE	370 U	830 U	ND	ND		0/57
BENZO(B)FLUORANTHENE	370 U	830 U	44 J	170 J	36-OA-SB07-01	5/57
BENZO(K)FLUORANTHENE	370 U	830 U	42 J	68 J	36-OA-SB07-01	3/57
BENZO(A)PYRENE	370 U	470 U	72 J	450 J	36-GS-SB03-02	4/57
INDENO(1,2,3-CD)PYRENE	370 U	830 U	48 J	110 J	36-OA-SB07-01	3/57
DIBENZO(A,H)ANTHRACENE	370 U	830 U	ND	ND		0/57
BENZO(G,H,I)PERYLENE	370 U	830 U	42 J	89 J	36-OA-SB07-01	2/57

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>PESTICIDE/PCBs</b>						
ALPHA-BHC	1.8 U	20 U	ND	ND		0/56
BETA-BHC	1.8 U	20 U	ND	ND		0/56
DELTA-BHC	1.8 U	20 U	ND	ND		0/56
GAMMA-BHC (LINDANE)	1.8 U	20 U	4	4	36-OF-SB06D-02	1/56
HEPTACHLOR	1.8 U	20 U	ND	ND		0/56
ALDRIN	1.8 U	20 U	1.5 J	16 J	36-GW11-04	5/56
HEPTACHLOR EPOXIDE	1.8 U	20 U	3.4 J	14 J	36-GW11-04	3/56
ENDOSULFAN I	1.8 U	20 U	ND	ND		0/56
DIELDRIN	3.6 U	37 U	2.2 J	1200 J	36-FDA-SB05-01	17/56
4,4'-DDE	3.7 UJ	4.5 UJ	2.3 J	1700	36-OA-SB01A-01	29/56
ENDRIN	3.6 U	40 U	2.4 J	5 J	36-OF-SB06B-02	5/56
ENDOSULFAN II	3.6 U	40 U	2 J	2 J	36-OF-SB06B-02	1/56
4,4'-DDD	3.7 UJ	4.5 U	2.3 J	1300 J	36-FDA-SB05-01	30/56
ENDOSULFAN SULFATE	3.6 U	40 U	ND	ND		0/56
4,4'-DDT	3.7 U	4.5 UJ	2.8 J	3100	36-OA-SB01A-01	28/56
METHOXYCHLOR	18 U	200 U	ND	ND		0/56
ENDRIN KETONE	3.6 U	40 U	ND	ND		0/56
ENDRIN ALDEHYDE	3.6 U	40 U	3.5 J	32 J	36-FDA-SB05-01	3/56
ALPHA-CHLORDANE	1.8 U	20 U	1.6 J	750	36-GW11-04	12/56
GAMMA-CHLORDANE	1.8 U	20 U	2.3 J	770	36-GW11-04	9/56
TOXAPHENE	180 U	2000 U	ND	ND		0/56
AROCLOR-1016	36 U	400 U	ND	ND		0/56
AROCLOR-1221	73 U	800 U	ND	ND		0/56
AROCLOR-1232	36 U	400 U	ND	ND		0/56
AROCLOR-1242	36 U	400 U	ND	ND		0/56
AROCLOR-1248	36 U	400 U	19 J	850 J	36-OA-SB01-01	5/56
AROCLOR-1254	36 U	400 U	ND	ND		0/56
AROCLOR-1260	36 U	400 U	ND	ND		0/56

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-DAB-SB01-01	36-DAB-SB02-02	36-DAB-SB03-01	36-DAD-SB02-01	36-FCA-SB01-04	36-FCA-SB02-04
DATE SAMPLED	02/24/95	02/24/95	02/24/95	02/24/95	02/27/95	02/22/95
DEPTH	1-3'	3-5'	1-3'	1-3'	7-9'	7-9'
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	3640	3610	4740	5440	8410	5280
ANTIMONY, TOTAL	1.8 UJ	2.5 UJ	3.7 UJ	4.9 UJ	2.4 R	4.1 UJ
ARSENIC, TOTAL	0.99	1.1	0.67	0.96	0.45 J	0.75
BARIIUM, TOTAL	58.5	39.5	32.3	28.4	11	9
BERYLLIUM, TOTAL	0.05 U	0.07 U	0.16 U	0.21 U	0.07 U	0.18 U
CADMIUM, TOTAL	0.47 U	0.66	0.81 U	0.7 U	0.64 U	0.56 U
CALCIUM, TOTAL	768	2830	657	2250	30.9 U	81.8
CHROMIUM, TOTAL	13.2 J	8.6 J	5.6	10	8.1	4.4
COBALT, TOTAL	0.57	0.86	0.66	0.71 U	0.62 U	0.96 U
COPPER, TOTAL	37.2	19.9	12.1	12.4	0.89 U	0.38 UJ
IRON, TOTAL	4070 J	7090 J	3240	3500	3460	2840
LEAD, TOTAL	158 J	82.8 J	37.6 J	60.1 J	8.4	5 J
MAGNESIUM, TOTAL	165	212	186	353	301	142
MANGANESE, TOTAL	67.2	76.1	36.9	27.8	4.2	1.7
MERCURY, TOTAL	1.7 J	1.4 J	0.54	1.9	0.37	0.11 U
NICKEL, TOTAL	4.4	55.1	6.9	72.1	1.1	2.8
POTASSIUM, TOTAL	153	142	132	199	165	136 U
SELENIUM, TOTAL	0.31 U	0.27 U	0.26 U	0.35 U	0.27 UJ	0.34 U
SILVER, TOTAL	0.41 U	0.56 U	0.54 U	0.71 U	0.55	0.6 UJ
SODIUM, TOTAL	243	150	132	129	35.6	35
THALLIUM, TOTAL	0.14 U	0.13 U	0.12 U	0.16 U	0.13 U	0.16 U
VANADIUM, TOTAL	6.5	6.4	6.4	9.7	9.4	8
ZINC, TOTAL	206	361	112	98.2	1.8 U	1.9

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

LOCATION	36-FCA-SB03-02	36-FCA-SB04-02	36-FCA-SB05-02	36-FCA-SB06-03	36-FCA-SB07-01	36-FCA-SB08-01
DATE SAMPLED	02/23/95	02/25/95	02/27/95	02/23/95	02/22/95	02/27/95
DEPTH	3-5'	3-5'	3-5'	11-13'	1-3'	1-3'
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	9910	6370	7490	8330	10200	2980
ANTIMONY, TOTAL	4.7 UJ	4.9 UJ	1.8 R	2.6 UJ	5.1 UJ	1.8 R
ARSENIC, TOTAL	1.9	0.45 U	0.46 UJ	0.41 U	5	0.36 J
BARIUM, TOTAL	17.9	8.2	11.1	14.3	19.6	5.9
BERYLLIUM, TOTAL	0.2 U	0.21 U	0.05 U	0.07 U	0.22 U	0.05 U
CADMIUM, TOTAL	0.64 U	0.66 U	0.48 U	0.68 U	0.69 U	0.48 U
CALCIUM, TOTAL	105	51.4	27.7	238	196	49.7
CHROMIUM, TOTAL	14.9	4.7	7	6.1 J	19.6	3.1
COBALT, TOTAL	0.68 U	0.71 U	0.57 U	0.54 U	0.74 U	0.41 U
COPPER, TOTAL	2 U	0.45 U	0.67 U	0.94 U	2.2 U	0.9 U
IRON, TOTAL	8820	3140	3000	5290 J	9450	1670
LEAD, TOTAL	9.7	6	8.7	8.9	10.1	4.6
MAGNESIUM, TOTAL	335	216	237	291	436	122
MANGANESE, TOTAL	3.2	3.7	4.6	4.9	3.2	1.8 U
MERCURY, TOTAL	0.1 U	0.1 U	0.09 U	0.11 UJ	0.12 U	0.11 U
NICKEL, TOTAL	2.5 U	2.5 U	0.7 U	0.98 U	2.7 U	0.69 U
POTASSIUM, TOTAL	390	161 U	142	146	333	90.9
SELENIUM, TOTAL	0.37 U	0.35 U	0.37 UJ	0.33 U	0.39 U	0.28 UJ
SILVER, TOTAL	0.68 U	0.71 R	0.42 U	0.59 U	0.74 U	0.41 U
SODIUM, TOTAL	29.9	20.3 U	16.7	22.6	32.6	12
THALLIUM, TOTAL	0.17 U	0.26 U	0.17 U	0.15 U	0.18 U	0.13 U
VANADIUM, TOTAL	21.6	6.1	9.5	6	30.6	4.7
ZINC, TOTAL	2.5 U	1.4	1.9 U	2.5	3.5 U	0.88 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-FCA-SB09-02	36-FCA-SB10-02	36-FCA-SB11-03	36-FCA-SB12-02	36-FCA-SB13-01	36-FCA-SB14-01
DATE SAMPLED	02/22/95	02/22/95	02/23/95	02/22/95	02/27/95	02/23/95
DEPTH	3-5'	3-5'	5-7'	3-5'	1-3'	1-3'
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	5760	2330	5650	1790	5620	5630
ANTIMONY, TOTAL	4.4 UJ	3.4 UJ	2.5 UJ	4.2 UJ	4.9 R	4.4 UJ
ARSENIC, TOTAL	0.54	0.26 U	0.43 U	0.39 U	0.44	0.74
BARIUM, TOTAL	9.1	4.7	8.2	4 U	7.6	13.6
BERYLLIUM, TOTAL	0.19 U	0.18	0.07 U	0.18 U	0.21 U	0.19 U
CADMIUM, TOTAL	0.6 U	0.46 U	0.65 U	0.57 U	0.67 U	0.59 U
CALCIUM, TOTAL	14.8	43.9	14.8 U	35.9	79.4 J	42.6
CHROMIUM, TOTAL	5.2	3.9	4.8 J	2	4.2 J	4.8
COBALT, TOTAL	0.64 U	0.73 U	0.52 U	0.61 U	0.71 U	0.63 U
COPPER, TOTAL	0.41 U	0.47 J	0.9 U	0.39 U	0.45 U	0.4 U
IRON, TOTAL	3500	620	2550 J	788	2590	2970
LEAD, TOTAL	8.5	3.7	7	2.4	8.3	3.9
MAGNESIUM, TOTAL	156	58.9	148	49.1	193	147
MANGANESE, TOTAL	1.7 U	1.7	2.5	1.7 U	2.5 J	8.1
MERCURY, TOTAL	0.11 U	0.1 U	0.09 UJ	0.08 U	0.087 U	0.08 U
NICKEL, TOTAL	2.3 U	1.8 U	0.94 U	2.2 U	2.7	2.3 U
POTASSIUM, TOTAL	147 U	113 U	106	139 U	163 U	144 U
SELENIUM, TOTAL	0.31 U	0.3 U	0.34 U	0.31 U	0.37 U	0.3 U
SILVER, TOTAL	0.64 U	0.49 UJ	0.56 U	0.61 U	0.71 U	0.63 U
SODIUM, TOTAL	25.1	19.4 U	14.3	10.8	15.8 U	20.5
THALLIUM, TOTAL	0.15 U	0.14 U	0.16 U	0.14 U	0.23 U	0.14 U
VANADIUM, TOTAL	9.7	4.6	6.7	3 U	6.5	8.1
ZINC, TOTAL	1.6 U	1.3 J	0.99	0.77 U	0.99	2 U

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

LOCATION	36-FDA-SB01-02	36-FDA-SB02-04	36-FDA-SB03-04	36-FDA-SB04-01	36-FDA-SB05-01	36-FDA-SB06-07
DATE SAMPLED	02/23/95	02/27/95	02/22/95	02/24/95	02/27/95	02/25/95
DEPTH	3-5'	7-9'	7-9'	1-3'	1-3'	13-15'
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	5920	1860	886	2940	19700	18200
ANTIMONY, TOTAL	13.3 J	3.6 R	2.4 UJ	4.9 J	6.2 J	4.5 UJ
ARSENIC, TOTAL	25.9	9.3	0.41 U	1.5	5.2	11.4
BARIUM, TOTAL	182	43.1	2.9	11.7	348	39.2
BERYLLIUM, TOTAL	0.21 U	0.16 U	0.07 U	0.16 U	0.25 U	0.2 U
CADMIUM, TOTAL	4.7	1.3	0.64 U	0.62 U	5.8	2.1 U
CALCIUM, TOTAL	12700	1750 J	69.4	227	2230	3850
CHROMIUM, TOTAL	35.1	8.6 J	1.4	5.9	32.5	39.1
COBALT, TOTAL	7.8	1.4 U	0.51 U	1.7	8.3	4.2
COPPER, TOTAL	133	33.1	0.88 U	16.6	399	67
IRON, TOTAL	81900	18100	529	13100	70500	47700
LEAD, TOTAL	457 J	190 J	1.2	33.8 J	424 J	143 J
MAGNESIUM, TOTAL	624	130	27	72.7	238	971
MANGANESE, TOTAL	1260	148 J	7.6	85.2	497	195
MERCURY, TOTAL	0.11 U	0.24	0.1 U	0.08 U	0.44	0.12 U
NICKEL, TOTAL	26.6	8.1	0.93 U	7	49.2	15.1
POTASSIUM, TOTAL	327	133	64.5 U	125 U	210	1640
SELENIUM, TOTAL	0.27 U	0.41 U	0.32 UJ	0.23 U	0.3 U	0.79
SILVER, TOTAL	0.69 U	0.52 U	0.55 U	0.55 U	0.52 U	0.66 U
SODIUM, TOTAL	150	60.9	16.7 U	19.8 U	61	501
THALLIUM, TOTAL	0.13 UJ	0.25 UJ	0.15 U	0.11 UJ	1.7 UJ	0.16 UJ
VANADIUM, TOTAL	10.9	5.3	3.2	4.3	12.1	37.9
ZINC, TOTAL	2490	882	1.2 U	171	2580	1040

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-GW07-01	36-GW09-04	36-GW10-03	36-GW11-04	36-GW11-06	36-OA-SB01-01
DATE SAMPLED	03/07/95	03/09/95	03/09/95	03/09/95	03/09/95	02/22/95
DEPTH	1-3'	7-9'	5-7'	7-9'	11-13'	1-3'
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	4630	5570	7770	8620	2740	2640
ANTIMONY, TOTAL	2.7 UJ	1.8 UJ	5.3 UJ	21.6 J	4.4 UJ	2.2 UJ
ARSENIC, TOTAL	0.4 U	6.2	0.53	13	0.92	6.6
BARIIUM, TOTAL	6.8	24.3	12.8	475	4.3	9.9
BERYLLIUM, TOTAL	0.16 U	0.12 U	0.23 U	0.19 U	0.19 U	0.14 U
CADMIUM, TOTAL	0.73 U	38.5	0.71 U	42.8	0.6 U	0.59 U
CALCIUM, TOTAL	29.7 J	3270 J	141	24900	386	2920
CHROMIUM, TOTAL	4.5 U	29	7.4	71.9	5.6	3.4
COBALT, TOTAL	0.58 U	4.3	0.76 U	8.1	0.64 U	0.48
COPPER, TOTAL	1 U	82.5	0.61 U	782	1.1	3.7
IRON, TOTAL	2720 J	39300 J	3360	132000	2880	1570
LEAD, TOTAL	6.1 U	151	10	1980	5.1	16.6
MAGNESIUM, TOTAL	162	236	256	2700	205	129
MANGANESE, TOTAL	2.7	220	5.8	1150	11.9	7.3
MERCURY, TOTAL	0.12 U	0.088 U	0.13 U	0.8	0.1 U	0.11 U
NICKEL, TOTAL	1.1 U	24.1	2.7 U	40.1	2.3 U	1.3
POTASSIUM, TOTAL	101	153	183	739	288	91.9 U
SELENIUM, TOTAL	0.35 U	0.31 U	0.4 U	0.38 U	0.37 U	0.3 UJ
SILVER, TOTAL	0.63 U	0.41 U	0.76 U	0.89	0.64 U	0.51 U
SODIUM, TOTAL	14.3 U	65.8	33 U	491	66.6	23.2 U
THALLIUM, TOTAL	0.16 U	0.14 UJ	0.24 U	0.23 UJ	0.22 U	0.14 U
VANADIUM, TOTAL	6	4.3	6.1	13.5	7.6	5.1
ZINC, TOTAL	1.3	1080	3.7	720	2	11.2

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

LOCATION	36-OA-SB01A-01	36-OA-SB01B-01	36-OA-SB01C-01	36-OA-SB01D-01	36-OA-SB02-03	36-OA-SB03-03
DATE SAMPLED	03/09/95	03/09/95	03/09/95	03/09/95	02/25/95	02/25/95
DEPTH	1-3'	1-3'	1-3'	1-3'	5-7'	5-7'
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	3600	3380	3400	3950	2970	4850
ANTIMONY, TOTAL	4.8 UJ	4.2 UJ	4.4 UJ	4 UJ	4.5 UJ	4.5 UJ
ARSENIC, TOTAL	3.4	4.8 J	4.1 J	3.3 J	0.88	1.7
BARIUM, TOTAL	48	14.2	9.4	14.4	4.9	22.6
BERYLLIUM, TOTAL	0.21 U	0.18 U	0.19 U	0.17 U	0.2 U	0.2 U
CADMIUM, TOTAL	0.68	0.56 U	0.59 U	0.54 U	0.61 U	0.61 U
CALCIUM, TOTAL	535	588	2000	3640	42.7	4490
CHROMIUM, TOTAL	5.9	4.6	4.3	4.7	4.9	8.9
COBALT, TOTAL	0.7	0.77	0.63 U	0.58 U	0.65 U	0.66 U
COPPER, TOTAL	4.5	11.5	4.2	5.1	0.41 U	40.2
IRON, TOTAL	4260	2000	3180	3670	2450	8940
LEAD, TOTAL	30.2	13	5.5	23.2	3.6	209 J
MAGNESIUM, TOTAL	102	111	118	342	129	374
MANGANESE, TOTAL	7.6	9.4	15.5	20.5	2.9	46.4
MERCURY, TOTAL	0.12	0.1 U	0.11 U	0.09 U	0.1 U	0.09 U
NICKEL, TOTAL	2.5 U	2.2 U	2.3 U	2.1 U	2.4 U	3.2
POTASSIUM, TOTAL	160 U	138 U	145 U	133 U	149 U	183
SELENIUM, TOTAL	0.43	0.31 U	0.3 U	0.29 U	0.32 U	0.31 U
SILVER, TOTAL	0.7 U	0.6 U	0.63 U	0.58 U	0.65 R	0.66 R
SODIUM, TOTAL	34.1 U	11.8	12.5	11.4	16.5 U	38.9 U
THALLIUM, TOTAL	0.2 U	0.29 UJ	0.28 UJ	0.27 UJ	0.24 U	0.22 U
VANADIUM, TOTAL	9.4	6.3	5.8	7.4	12.1	10.6
ZINC, TOTAL	17.1	57.8	19.4	14.3	1.5	111



**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-OA-SB04-02	36-OA-SB05-02	36-OA-SB06-02	36-OA-SB07-01	36-OA-SB08-01	36-OF-SB01-04
DATE SAMPLED	02/24/95	02/28/95	02/27/95	02/24/95	02/27/95	02/21/95
DEPTH	3-5'	3-5'	3-5'	1-3'	1-3'	7-9'
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	1280	752	2910	8690	3850	3290
ANTIMONY, TOTAL	4 UJ	2.5 R	2.2 R	16.2 J	2.2 UJ	2.4 UJ
ARSENIC, TOTAL	0.33 U	0.42 J	1.5 J	13.5	0.91	0.95
BARIUM, TOTAL	2.8	2	93.5	130	11.3	7.5
BERYLLIUM, TOTAL	0.17 U	0.07 U	0.06 U	0.21 U	0.18 U	0.07 U
CADMIUM, TOTAL	0.54 U	0.66 U	0.58 U	6.3	0.59 U	0.64 U
CALCIUM, TOTAL	167	84.3	402	15000	1570	350
CHROMIUM, TOTAL	2.2	1.5	4.2	34.4	3.6	4.5
COBALT, TOTAL	0.58 U	0.52 U	1.1 U	9.4	0.47 U	0.51 U
COPPER, TOTAL	0.46	0.99 U	4.6 U	163	0.88	0.89 U
IRON, TOTAL	475	408	5320	94600	1360	2490
LEAD, TOTAL	1.4	2.8	112	2680 J	7.7	3.3
MAGNESIUM, TOTAL	40.5	20.4	68.7	749	127	112
MANGANESE, TOTAL	2	1.8 U	38.3	842	6.7	5.3
MERCURY, TOTAL	0.1 U	0.1 U	0.1 U	3.9	0.089 U	0.1 U
NICKEL, TOTAL	2.1 U	0.95 U	10.3	39	0.86 U	0.93 U
POTASSIUM, TOTAL	132 U	47.2	48.1	307	70.1	121 U
SELENIUM, TOTAL	0.26 U	0.33 UJ	0.25 UJ	0.34 U	0.33 U	0.36 UJ
SILVER, TOTAL	0.58 U	0.68	0.5 U	0.69 U	0.51 U	0.55 U
SODIUM, TOTAL	17.9 U	9.5	5.2	138	20.6 U	18.1 U
THALLIUM, TOTAL	0.12 U	0.15 U	0.57 U	0.16 UJ	0.37 U	0.17 U
VANADIUM, TOTAL	3.3	1.6	2.1	17	4	8.6
ZINC, TOTAL	0.85	1.4 U	122	1020	10	2.5

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

LOCATION	36-OF-SB02-02	36-OF-SB03-03	36-OF-SB04-04	36-OF-SB05-06	36-OF-SB06-03	36-OF-SB06A-01
DATE SAMPLED	02/21/95	02/21/95	02/22/95	02/21/95	02/21/95	03/09/95
DEPTH	3-5'	5-7'	7-9'	11-13'	5-7'	1-3'
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	787	7720	13700	5520	13900	3560
ANTIMONY, TOTAL	3.5 UJ	3.6 UJ	4.1 UJ	3.8 UJ	2.8 UJ	2.5 UJ
ARSENIC, TOTAL	0.26 U	0.44	6.7	1.2	6.8	5.8
BARIIUM, TOTAL	2.1	14	25.4	11.8	18.5	147
BERYLLIUM, TOTAL	0.17	0.16 U	0.18 U	0.17 U	0.14 U	0.074 U
CADMIUM, TOTAL	0.48 U	0.49 U	0.56 U	0.51 U	0.74 U	0.74
CALCIUM, TOTAL	271	890	2850	1250	1880	41900 J
CHROMIUM, TOTAL	1.8	11.1	27.7	9.1	34.7	14.2
COBALT, TOTAL	0.51 U	0.81 U	0.69 U	1.4 U	1.6	2.8 U
COPPER, TOTAL	0.5 J	0.87 J	3.1 J	17.9 J	3.9	38.7
IRON, TOTAL	695	7430	22800	10300	58400	28400 J
LEAD, TOTAL	2.1 J	5.1	17.4	37.6	11.2	871
MAGNESIUM, TOTAL	20.2	283	642	333	523	652
MANGANESE, TOTAL	0.85	50.9	7.5	45.4	48.3	169
MERCURY, TOTAL	0.08 U	0.11 U	0.11 U	0.1 U	0.42	0.28
NICKEL, TOTAL	6.1	1.9 U	5.4	4	1.1 U	28.6
POTASSIUM, TOTAL	117 U	438	745	388	630	115
SELENIUM, TOTAL	0.3 U	0.32 U	0.56	0.3 U	1.2 J	0.34 U
SILVER, TOTAL	0.51 UJ	0.52 UJ	0.6 UJ	0.55 UJ	0.64 U	0.58 U
SODIUM, TOTAL	14.4 U	45.2	60.7	81.7	64.6 U	97.8
THALLIUM, TOTAL	0.14 U	0.15 U	0.15 U	0.14 U	0.85 UJ	0.16 U
VANADIUM, TOTAL	2.3 U	20.2	40.4	10.4	52.6	6.5
ZINC, TOTAL	2.3	18.2	7.6	201	92.1	363

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-OF-SB06B-02	36-OF-SB06C-02	36-OF-SB06D-02
DATE SAMPLED	03/09/95	03/09/95	03/09/95
DEPTH	3-5'	3-5'	3-5'
UNITS	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>			
ALUMINUM, TOTAL	5650	4320	3710
ANTIMONY, TOTAL	5.8 J	3.8 UJ	6.4 J
ARSENIC, TOTAL	12.9	0.23	2.4
BARIIUM, TOTAL	246	12.4	53.2
BERYLLIUM, TOTAL	0.2 U	0.16 U	0.18 U
CADMIUM, TOTAL	12.7	0.51 U	2.4
CALCIUM, TOTAL	46300	343	16300
CHROMIUM, TOTAL	26.7	2.3	18.5
COBALT, TOTAL	5.4	0.55 U	3.3
COPPER, TOTAL	1320	2.5	129
IRON, TOTAL	67400	2130	45100
LEAD, TOTAL	1210	12.6	555
MAGNESIUM, TOTAL	885	123	408
MANGANESE, TOTAL	560	9.5	376
MERCURY, TOTAL	0.13 U	0.08 U	0.75
NICKEL, TOTAL	40.4	2 U	15.1
POTASSIUM, TOTAL	375	125 U	255
SELENIUM, TOTAL	0.43 U	0.3 U	0.42 U
SILVER, TOTAL	0.66 U	0.55 U	0.61 U
SODIUM, TOTAL	235	23.1 U	56.6
THALLIUM, TOTAL	0.26 UJ	0.18 U	0.26 U
VANADIUM, TOTAL	10.4	4.4	8.3
ZINC, TOTAL	1540	9.4	647

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	NA	NA	752	19700	36-FDA-SB05-01	51/51
ANTIMONY, TOTAL	1.8 UJ	5.3 UJ	4.9 J	21.6 J	36-GW11-04	7/44
ARSENIC, TOTAL	0.26 U	0.46 UJ	0.23	25.9	36-FDA-SB01-02	41/51
BARIUM, TOTAL	4 U	4 U	2	475	36-GW11-04	50/51
BERYLLIUM, TOTAL	0.05 U	0.25 U	0.17	0.18	36-FCA-SB10-02	2/51
CADMIUM, TOTAL	0.46 U	2.1 U	0.66	42.8	36-GW11-04	11/51
CALCIUM, TOTAL	14.8 U	30.9 U	14.8	46300	36-OF-SB06B-02	49/51
CHROMIUM, TOTAL	4.5 U	4.5 U	1.4	71.9	36-GW11-04	50/51
COBALT, TOTAL	0.41 U	2.8 U	0.48	9.4	36-OA-SB07-01	16/51
COPPER, TOTAL	0.38 UJ	4.6 U	0.46	1320	36-OF-SB06B-02	31/51
IRON, TOTAL	NA	NA	408	132000	36-GW11-04	51/51
LEAD, TOTAL	6.1 U	6.1 U	1.2	2680 J	36-OA-SB07-01	50/51
MAGNESIUM, TOTAL	NA	NA	20.2	2700	36-GW11-04	51/51
MANGANESE, TOTAL	1.7 U	1.8 U	0.85	1260	36-FDA-SB01-02	47/51
MERCURY, TOTAL	0.08 U	0.13 U	0.12	3.9	36-OA-SB07-01	13/51
NICKEL, TOTAL	0.69 U	2.7 U	1.1	72.1	36-DAD-SB02-01	24/51
POTASSIUM, TOTAL	64.5 U	163 U	47.2	1640	36-FDA-SB06-07	32/51
SELENIUM, TOTAL	0.23 U	0.43 U	0.43	1.2 J	36-OF-SB06-03	4/51
SILVER, TOTAL	0.41 U	0.76 U	0.55	0.89	36-GW11-04	3/48
SODIUM, TOTAL	14.3 U	64.6 U	5.2	501	36-FDA-SB06-07	34/51
THALLIUM, TOTAL	0.11 UJ	1.7 UJ	ND	ND		0/51
VANADIUM, TOTAL	2.3 U	3 U	1.6	52.6	36-OF-SB06-03	49/51
ZINC, TOTAL	0.77 U	3.5 U	0.85	2580	36-FDA-SB05-01	41/51

**GROUNDWATER**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW01-01	36-GW02-01	36-GW03-01	36-GW04-01	36-GW05-01	36-GW06-01
DATE SAMPLED	03/28/95	03/27/95	03/26/95	03/26/95	03/26/95	03/27/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>						
CHLOROMETHANE	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
VINYL CHLORIDE	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
METHYLENE CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	10 U	4 J	10 U	10 U
CHLOROFORM	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 U	10 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	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW01-01	36-GW02-01	36-GW03-01	36-GW04-01	36-GW05-01	36-GW06-01
DATE SAMPLED	03/28/95	03/27/95	03/26/95	03/26/95	03/26/95	03/27/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
PHENOL	10 U	10 U	10 U	10 U	9 U	10 U
BIS(2-CHLOROETHYL)ETHER	10 U	10 U	10 U	10 U	9 U	10 U
2-CHLOROPHENOL	10 U	10 U	10 U	10 U	9 U	10 U
1,3-DICHLOROBENZENE	10 U	10 U	10 U	10 U	9 U	10 U
1,4-DICHLOROBENZENE	10 U	10 U	10 U	10 U	9 U	10 U
1,2-DICHLOROBENZENE	10 U	10 U	10 U	10 U	9 U	10 U
2-METHYLPHENOL	10 U	10 U	10 U	10 U	9 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	10 R	10 R	10 U	10 U	9 U	10 U
4-METHYLPHENOL	10 U	10 U	10 U	10 U	9 U	10 U
N-NITROSO-DI-N-PROPYLAMINE	10 U	10 U	10 U	10 U	9 U	10 U
HEXACHLOROETHANE	10 U	10 U	10 U	10 U	9 U	10 U
NITROBENZENE	10 U	10 U	10 U	10 U	9 U	10 U
ISOPHORONE	10 U	10 U	10 U	10 U	9 U	10 U
2-NITROPHENOL	10 U	10 U	10 U	10 U	9 U	10 U
2,4-DIMETHYLPHENOL	10 U	10 U	10 U	10 U	9 U	10 U
BIS(2-CHLOROETHOXY)METHANE	10 U	10 U	10 U	10 U	9 U	10 U
2,4-DICHLOROPHENOL	10 U	10 U	10 U	10 U	9 U	10 U
1,2,4-TRICHLOROBENZENE	10 U	10 U	10 U	10 U	9 U	10 U
NAPHTHALENE	10 U	10 U	10 U	10 U	9 U	10 U
4-CHLOROANILINE	10 U	10 U	10 U	10 U	9 U	10 U
HEXACHLOROBUTADIENE	10 U	10 U	10 U	10 U	9 U	10 U
4-CHLORO-3-METHYLPHENOL	10 U	10 U	10 U	10 U	9 U	10 U
2-METHYLNAPHTHALENE	10 U	10 U	10 U	10 U	9 U	10 U
HEXACHLOROCYCLOPENTADIENE	10 U	10 U	10 U	10 U	9 U	10 U
2,4,6-TRICHLOROPHENOL	10 U	10 U	10 U	10 U	9 U	10 U
2,4,5-TRICHLOROPHENOL	24 U	25 U	24 U	24 U	23 U	24 U
2-CHLORONAPHTHALENE	10 U	10 U	10 U	10 U	9 U	10 U
2-NITROANILINE	24 U	25 U	24 U	24 U	23 U	24 U
DIMETHYLPHTHALATE	10 U	10 U	10 U	10 U	9 U	10 U
ACENAPHTHYLENE	10 U	10 U	10 U	10 U	9 U	10 U
2,6-DINITROTOLUENE	10 U	10 U	10 U	10 U	9 U	10 U
3-NITROANILINE	24 U	25 U	24 U	24 U	23 U	24 U
ACENAPHTHENE	10 U	10 U	10 U	10 U	9 U	10 U
2,4-DINITROPHENOL	24 UJ	25 UJ	24 U	24 U	23 U	24 U

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED UNITS	36-GW01-01 03/28/95 UG/L	36-GW02-01 03/27/95 UG/L	36-GW03-01 03/26/95 UG/L	36-GW04-01 03/26/95 UG/L	36-GW05-01 03/26/95 UG/L	36-GW06-01 03/27/95 UG/L
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	24 U	25 U	24 U	24 U	23 U	24 U
DIBENZOFURAN	10 U	10 U	10 U	10 U	9 U	10 U
2,4-DINITROTOLUENE	10 U	10 U	10 U	10 U	9 U	10 U
DIETHYLPHTHALATE	10 U	10 U	10 U	10 U	9 U	10 U
4-CHLOROPHENYL-PHENYLETHER	10 U	10 U	10 U	10 U	9 U	10 U
FLUORENE	10 U	10 U	10 U	10 U	9 U	10 U
4-NITROANILINE	24 U	25 U	24 U	24 U	23 U	24 U
4,6-DINITRO-2-METHYLPHENOL	24 U	25 U	24 U	24 U	23 U	24 U
N-NITROSODIPHENYLAMINE (1)	10 U	10 U	10 U	10 U	9 U	10 U
4-BROMOPHENYL-PHENYLETHER	10 U	10 U	10 U	10 U	9 U	10 U
HEXACHLOROBENZENE	10 U	10 U	10 U	10 U	9 U	10 U
PENTACHLOROPHENOL	24 U	25 U	24 U	24 U	23 U	24 U
PHENANTHRENE	10 U	10 U	10 U	10 U	9 U	10 U
ANTHRACENE	10 U	10 U	10 U	10 U	9 U	10 U
CARBAZOLE	10 U	10 U	10 U	10 U	9 U	10 U
DI-N-BUTYLPHTHALATE	10 U	10 U	10 U	10 U	9 U	10 U
FLUORANTHENE	10 U	10 U	10 U	10 U	9 U	10 U
PYRENE	10 U	10 U	10 U	10 U	9 U	10 U
BUTYLBENZYLPHTHALATE	10 U	10 U	10 U	10 U	9 U	10 U
3,3'-DICHLOROBENZIDINE	10 U	10 U	10 U	10 U	9 U	10 U
BENZO(A)ANTHRACENE	10 U	10 U	10 U	10 U	9 U	10 U
CHRYSENE	10 U	10 U	10 U	10 U	9 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	10 U	10 U	10 U	10 U	9 U	10 U
DI-N-OCTYL PHTHALATE	10 U	10 U	10 U	10 U	9 U	10 U
BENZO(B)FLUORANTHENE	10 U	10 U	10 U	10 U	9 U	10 U
BENZO(K)FLUORANTHENE	10 U	10 U	10 U	10 U	9 U	10 U
BENZO(A)PYRENE	10 U	10 U	10 U	10 U	9 U	10 U
INDENO(1,2,3-CD)PYRENE	10 U	10 U	10 U	10 U	9 U	10 U
DIBENZO(A,H)ANTHRACENE	10 U	10 U	10 U	10 U	9 U	10 U
BENZO(G,H,I)PERYLENE	10 U	10 U	10 U	10 U	9 U	10 U



**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW01-01	36-GW02-01	36-GW03-01	36-GW04-01	36-GW05-01	36-GW06-01
DATE SAMPLED	03/28/95	03/27/95	03/26/95	03/26/95	03/26/95	03/27/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>PESTICIDES/PCB's</b>						
ALPHA-BHC	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
BETA-BHC	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
DELTA-BHC	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
GAMMA-BHC (LINDANE)	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
HEPTACHLOR	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
ALDRIN	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
HEPTACHLOR EPOXIDE	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
ENDOSULFAN I	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
DIELDRIN	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
4,4'-DDE	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
ENDRIN	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
ENDOSULFAN II	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
4,4'-DDD	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
ENDOSULFAN SULFATE	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
4,4'-DDT	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
METHOXYCHLOR	0.46 UJ	0.5 UJ	0.46 UJ	0.48 UJ	0.48 UJ	0.48 UJ
ENDRIN KETONE	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
ENDRIN ALDEHYDE	0.093 U	0.1 UJ	0.092 U	0.097 UJ	0.095 UJ	0.096 UJ
ALPHA-CHLORDANE	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
GAMMA-CHLORDANE	0.046 U	0.05 UJ	0.046 U	0.048 UJ	0.048 UJ	0.048 UJ
TOXAPHENE	4.6 U	5 UJ	4.6 U	4.8 UJ	4.8 UJ	4.8 UJ
AROCLOR-1016	0.93 U	1 UJ	0.92 U	0.97 UJ	0.95 UJ	0.96 UJ
AROCLOR-1221	1.9 U	2 UJ	1.8 U	1.9 UJ	1.9 UJ	1.9 UJ
AROCLOR-1232	0.93 U	1 UJ	0.92 U	0.97 UJ	0.95 UJ	0.96 UJ
AROCLOR-1242	0.93 U	1 UJ	0.92 U	0.97 UJ	0.95 UJ	0.96 UJ
AROCLOR-1248	0.93 U	1 UJ	0.92 U	0.97 UJ	0.95 UJ	0.96 UJ
AROCLOR-1254	0.93 U	1 UJ	0.92 U	0.97 UJ	0.95 UJ	0.96 UJ
AROCLOR-1260	0.93 U	1 UJ	0.92 U	0.97 UJ	0.95 UJ	0.96 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW06DW-01	36-GW07-01	36-GW07DW-01	36-GW08-01	36-GW09-01	36-GW10-01
DATE SAMPLED	03/26/95	03/26/95	03/26/95	03/27/95	03/27/95	03/25/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>						
CHLOROMETHANE	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
VINYL CHLORIDE	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
METHYLENE CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	10 U	5 J	10 U	10 U
CHLOROFORM	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	8 J
DIBROMOCHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 U	10 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	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW06DW-01	36-GW07-01	36-GW07DW-01	36-GW08-01	36-GW09-01	36-GW10-01
DATE SAMPLED	03/26/95	03/26/95	03/26/95	03/27/95	03/27/95	03/25/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
PHENOL	10 U	9 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL)ETHER	10 U	9 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	10 U	9 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	10 U	9 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	10 U	9 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	10 U	9 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	10 U	9 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	10 U	9 U	10 U	10 R	10 U	10 U
4-METHYLPHENOL	10 U	9 U	10 U	10 U	10 U	10 U
N-NITROSO-DI-N-PROPYLAMINE	10 U	9 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	10 U	9 U	10 U	10 U	10 U	10 U
NITROBENZENE	10 U	9 U	10 U	10 U	10 U	10 U
ISOPHORONE	10 U	9 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	10 U	9 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	10 U	9 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY)METHANE	10 U	9 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	10 U	9 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	10 U	9 U	10 U	10 U	10 U	10 U
NAPHTHALENE	10 U	9 U	10 U	10 U	10 U	10 U
4-CHLOROANILINE	10 U	9 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	10 U	9 U	10 U	10 U	10 U	10 U
4-CHLORO-3-METHYLPHENOL	10 U	9 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	10 U	9 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	10 U	9 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	10 U	9 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	24 U	24 U	24 U	24 U	25 U	24 U
2-CHLORONAPHTHALENE	10 U	9 U	10 U	10 U	10 U	10 U
2-NITROANILINE	24 U	24 U	24 U	24 U	25 U	24 U
DIMETHYLPHTHALATE	10 U	9 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	10 U	9 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	10 U	9 U	10 U	10 U	10 U	10 U
3-NITROANILINE	24 U	24 U	24 U	24 U	25 U	24 U
ACENAPHTHENE	10 U	9 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	24 U	24 U	24 U	24 U	25 U	24 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW06DW-01	36-GW07-01	36-GW07DW-01	36-GW08-01	36-GW09-01	36-GW10-01
DATE SAMPLED	03/26/95	03/26/95	03/26/95	03/27/95	03/27/95	03/25/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	24 U	24 U	24 U	24 U	25 U	24 U
DIBENZOFURAN	10 U	9 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	10 U	9 U	10 U	10 U	10 U	10 U
DIETHYLPHTHALATE	10 U	9 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL-PHENYLETHER	10 U	9 U	10 U	10 U	10 U	10 U
FLUORENE	10 U	9 U	10 U	10 U	10 U	10 U
4-NITROANILINE	24 U	24 U	24 U	24 U	25 U	24 U
4,6-DINITRO-2-METHYLPHENOL	24 U	24 U	24 U	24 U	25 U	24 U
N-NITROSODIPHENYLAMINE (1)	10 U	9 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL-PHENYLETHER	10 U	9 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	10 U	9 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	24 U	24 U	24 U	24 U	25 U	24 U
PHENANTHRENE	10 U	9 U	10 U	10 U	10 U	10 U
ANTHRACENE	10 U	9 U	10 U	10 U	10 U	10 U
CARBAZOLE	10 U	9 U	10 U	10 U	10 U	10 U
DI-N-BUTYLPHTHALATE	10 U	9 U	10 U	10 U	10 U	10 U
FLUORANTHENE	10 U	9 U	10 U	10 U	10 U	10 U
PYRENE	10 U	9 U	10 U	10 U	10 U	10 U
BUTYLBENZYLPHTHALATE	10 U	9 U	10 U	10 U	10 U	10 U
3,3'-DICHLOROBENZIDINE	10 U	9 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	10 U	9 U	10 U	10 U	10 U	10 U
CHRYSENE	10 U	9 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	10 U	9 U	10 U	10 U	5 J	10 U
DI-N-OCTYL PHTHALATE	10 U	9 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	10 U	9 U	10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	10 U	9 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	10 U	9 U	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD)PYRENE	10 U	9 U	10 U	10 U	10 U	10 U
DIBENZO(A,H)ANTHRACENE	10 U	9 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	10 U	9 U	10 U	10 U	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW06DW-01	36-GW07-01	36-GW07DW-01	36-GW08-01	36-GW09-01	36-GW10-01
DATE SAMPLED	03/26/95	03/26/95	03/26/95	03/27/95	03/27/95	03/25/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>PESTICIDES/PCB's</b>						
ALPHA-BHC	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
BETA-BHC	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
DELTA-BHC	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
GAMMA-BHC (LINDANE)	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
HEPTACHLOR	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
ALDRIN	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
HEPTACHLOR EPOXIDE	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
ENDOSULFAN I	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
DIELDRIN	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.094 UJ
4,4'-DDE	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.094 UJ
ENDRIN	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.094 UJ
ENDOSULFAN II	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.094 UJ
4,4'-DDD	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.056 J
ENDOSULFAN SULFATE	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.094 UJ
4,4'-DDT	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.094 UJ
METHOXYCHLOR	0.48 UJ	0.48 UJ	0.47 UJ	0.46 UJ	0.5 UJ	0.47 UJ
ENDRIN KETONE	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.094 UJ
ENDRIN ALDEHYDE	0.096 UJ	0.095 UJ	0.094 UJ	0.093 U	0.1 UJ	0.094 UJ
ALPHA-CHLORDANE	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
GAMMA-CHLORDANE	0.048 UJ	0.048 UJ	0.047 UJ	0.046 U	0.05 UJ	0.047 UJ
TOXAPHENE	4.8 UJ	4.8 UJ	4.7 UJ	4.6 U	5 UJ	4.7 UJ
AROCLOR-1016	0.96 UJ	0.95 UJ	0.94 UJ	0.93 U	1 UJ	0.94 UJ
AROCLOR-1221	1.9 UJ	1.9 UJ	1.9 UJ	1.9 U	2 UJ	1.9 UJ
AROCLOR-1232	0.96 UJ	0.95 UJ	0.94 UJ	0.93 U	1 UJ	0.94 UJ
AROCLOR-1242	0.96 UJ	0.95 UJ	0.94 UJ	0.93 U	1 UJ	0.94 UJ
AROCLOR-1248	0.96 UJ	0.95 UJ	0.94 UJ	0.93 U	1 UJ	0.94 UJ
AROCLOR-1254	0.96 UJ	0.95 UJ	0.94 UJ	0.93 U	1 UJ	0.94 UJ
AROCLOR-1260	0.96 UJ	0.95 UJ	0.94 UJ	0.93 U	1 UJ	0.94 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW10IW-01	36-GW11-01	36-GW11DW-01	36-GW12-01	36-GW12IW-01	36-GW13-01
DATE SAMPLED	05/09/95	03/27/95	03/27/95	05/08/95	05/08/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>						
CHLOROMETHANE	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
VINYL CHLORIDE	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
METHYLENE CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	31 J	10 U	10 U	10 UJ	10 UJ	8 J
CHLOROFORM	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	70	10 U	10 U	9 J	10 U	6 J
DIBROMOCHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 U	10 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	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10	10 U	10 U	6 J	10 U	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW10IW-01	36-GW11-01	36-GW11DW-01	36-GW12-01	36-GW12IW-01	36-GW13-01
DATE SAMPLED	05/09/95	03/27/95	03/27/95	05/08/95	05/08/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
PHENOL	NA	10 U	10 U	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	10 U	10 U	NA	NA	NA
2-CHLOROPHENOL	NA	10 U	10 U	NA	NA	NA
1,3-DICHLOROBENZENE	NA	10 U	10 U	NA	NA	NA
1,4-DICHLOROBENZENE	NA	10 U	10 U	NA	NA	NA
1,2-DICHLOROBENZENE	NA	10 U	10 U	NA	NA	NA
2-METHYLPHENOL	NA	10 U	10 U	NA	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	10 R	10 U	NA	NA	NA
4-METHYLPHENOL	NA	10 U	10 U	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	10 U	10 U	NA	NA	NA
HEXACHLOROETHANE	NA	10 U	10 U	NA	NA	NA
NITROBENZENE	NA	10 U	10 U	NA	NA	NA
ISOPHORONE	NA	10 U	10 U	NA	NA	NA
2-NITROPHENOL	NA	10 U	10 U	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	10 U	10 U	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	10 U	10 U	NA	NA	NA
2,4-DICHLOROPHENOL	NA	10 U	10 U	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	10 U	10 U	NA	NA	NA
NAPHTHALENE	NA	10 U	10 U	NA	NA	NA
4-CHLOROANILINE	NA	10 U	10 U	NA	NA	NA
HEXACHLOROBUTADIENE	NA	10 U	10 U	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	10 U	10 U	NA	NA	NA
2-METHYLNAPHTHALENE	NA	10 U	10 U	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	10 U	10 U	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	10 U	10 U	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	24 U	24 U	NA	NA	NA
2-CHLORONAPHTHALENE	NA	10 U	10 U	NA	NA	NA
2-NITROANILINE	NA	24 U	24 U	NA	NA	NA
DIMETHYLPHTHALATE	NA	10 U	10 U	NA	NA	NA
ACENAPHTHYLENE	NA	10 U	10 U	NA	NA	NA
2,6-DINITROTOLUENE	NA	10 U	10 U	NA	NA	NA
3-NITROANILINE	NA	24 U	24 U	NA	NA	NA
ACENAPHTHENE	NA	10 U	10 U	NA	NA	NA
2,4-DINITROPHENOL	NA	24 UJ	24 U	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW10IW-01	36-GW11-01	36-GW11DW-01	36-GW12-01	36-GW12IW-01	36-GW13-01
DATE SAMPLED	05/09/95	03/27/95	03/27/95	05/08/95	05/08/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	NA	24 U	24 U	NA	NA	NA
DIBENZOFURAN	NA	10 U	10 U	NA	NA	NA
2,4-DINITROTOLUENE	NA	10 U	10 U	NA	NA	NA
DIETHYLPHTHALATE	NA	10 U	10 U	NA	NA	NA
4-CHLOROPHENYL-PHENYLEETHER	NA	10 U	10 U	NA	NA	NA
FLUORENE	NA	10 U	10 U	NA	NA	NA
4-NITROANILINE	NA	24 U	24 U	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	24 U	24 U	NA	NA	NA
N-NITROSODIPHENYLAMINE (1)	NA	10 U	10 U	NA	NA	NA
4-BROMOPHENYL-PHENYLEETHER	NA	10 U	10 U	NA	NA	NA
HEXACHLOROBENZENE	NA	10 U	10 U	NA	NA	NA
PENTACHLOROPHENOL	NA	24 U	24 U	NA	NA	NA
PHENANTHRENE	NA	10 U	10 U	NA	NA	NA
ANTHRACENE	NA	10 U	10 U	NA	NA	NA
CARBAZOLE	NA	10 U	10 U	NA	NA	NA
DI-N-BUTYLPHTHALATE	NA	10 U	10 U	NA	NA	NA
FLUORANTHENE	NA	10 U	10 U	NA	NA	NA
PYRENE	NA	10 U	10 U	NA	NA	NA
BUTYLBENZYLPHTHALATE	NA	10 U	10 U	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	10 U	10 U	NA	NA	NA
BENZO(A)ANTHRACENE	NA	10 U	10 U	NA	NA	NA
CHRYSENE	NA	10 U	10 U	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	10 U	10 U	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA	10 U	10 U	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	10 U	10 U	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	10 U	10 U	NA	NA	NA
BENZO(A)PYRENE	NA	10 U	10 U	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	10 U	10 U	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	10 U	10 U	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	10 U	10 U	NA	NA	NA



**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW10IW-01	36-GW11-01	36-GW11DW-01	36-GW12-01	36-GW12IW-01	36-GW13-01
DATE SAMPLED	05/09/95	03/27/95	03/27/95	05/08/95	05/08/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>PESTICIDES/PCB's</b>						
ALPHA-BHC	NA	0.048 U	0.048 UJ	NA	NA	NA
BETA-BHC	NA	0.048 U	0.048 UJ	NA	NA	NA
DELTA-BHC	NA	0.048 U	0.048 UJ	NA	NA	NA
GAMMA-BHC (LINDANE)	NA	0.048 U	0.048 UJ	NA	NA	NA
HEPTACHLOR	NA	0.048 U	0.048 UJ	NA	NA	NA
ALDRIN	NA	0.048 U	0.048 UJ	NA	NA	NA
HEPTACHLOR EPOXIDE	NA	0.048 U	0.048 UJ	NA	NA	NA
ENDOSULFAN I	NA	0.048 U	0.048 UJ	NA	NA	NA
DIELDRIN	NA	0.095 U	0.095 UJ	NA	NA	NA
4,4'-DDE	NA	0.095 U	0.095 UJ	NA	NA	NA
ENDRIN	NA	0.095 U	0.095 UJ	NA	NA	NA
ENDOSULFAN II	NA	0.095 U	0.095 UJ	NA	NA	NA
4,4'-DDD	NA	0.095 U	0.095 UJ	NA	NA	NA
ENDOSULFAN SULFATE	NA	0.095 U	0.095 UJ	NA	NA	NA
4,4'-DDT	NA	0.095 U	0.095 UJ	NA	NA	NA
METHOXYCHLOR	NA	0.48 UJ	0.48 UJ	NA	NA	NA
ENDRIN KETONE	NA	0.095 U	0.095 UJ	NA	NA	NA
ENDRIN ALDEHYDE	NA	0.095 U	0.095 UJ	NA	NA	NA
ALPHA-CHLORDANE	NA	0.048 U	0.048 UJ	NA	NA	NA
GAMMA-CHLORDANE	NA	0.048 U	0.048 UJ	NA	NA	NA
TOXAPHENE	NA	4.8 U	4.8 UJ	NA	NA	NA
AROCLOR-1016	NA	0.95 U	0.95 UJ	NA	NA	NA
AROCLOR-1221	NA	1.9 U	1.9 UJ	NA	NA	NA
AROCLOR-1232	NA	0.95 U	0.95 UJ	NA	NA	NA
AROCLOR-1242	NA	0.95 U	0.95 UJ	NA	NA	NA
AROCLOR-1248	NA	0.95 U	0.95 UJ	NA	NA	NA
AROCLOR-1254	NA	0.95 U	0.95 UJ	NA	NA	NA
AROCLOR-1260	NA	0.95 U	0.95 UJ	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW13IW-01	36-GW14-01	36-TW01-01	36-TW02-01	36-GW10-02	36-GW10DW-01
DATE SAMPLED	05/08/95	05/08/95	03/15/95	03/14/95	07/12/95	07/12/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>						
CHLOROMETHANE	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
VINYL CHLORIDE	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
METHYLENE CHLORIDE	10 U	10 U	10 U	10 U	1 J	10 U
ACETONE	10 U	10 U	19 U	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	14 J	10 UJ	10 U	10 U	10 U	10 U
CHLOROFORM	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	3 J	10 U	10 U	10 U	10	10 U
DIBROMOCHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 U	10 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	10 U	10 U	10 U	10 U	1 J	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10 U	10 U	3 J	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW13IW-01	36-GW14-01	36-TW01-01	36-TW02-01	36-GW10-02	36-GW10DW-01
DATE SAMPLED	05/08/95	05/08/95	03/15/95	03/14/95	07/12/95	07/12/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
PHENOL	NA	NA	11 U	11 U	NA	10 U
BIS(2-CHLOROETHYL)ETHER	NA	NA	11 U	11 U	NA	10 U
2-CHLOROPHENOL	NA	NA	11 U	11 U	NA	10 U
1,3-DICHLOROBENZENE	NA	NA	11 U	11 U	NA	10 U
1,4-DICHLOROBENZENE	NA	NA	11 U	11 U	NA	10 U
1,2-DICHLOROBENZENE	NA	NA	11 U	11 U	NA	10 U
2-METHYLPHENOL	NA	NA	11 U	11 U	NA	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA	11 U	11 U	NA	10 U
4-METHYLPHENOL	NA	NA	11 U	11 U	NA	10 U
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	11 U	11 U	NA	10 U
HEXACHLOROETHANE	NA	NA	11 U	11 U	NA	10 U
NITROBENZENE	NA	NA	11 U	11 U	NA	10 U
ISOPHORONE	NA	NA	11 U	11 U	NA	10 U
2-NITROPHENOL	NA	NA	11 U	11 U	NA	10 U
2,4-DIMETHYLPHENOL	NA	NA	11 U	11 U	NA	10 U
BIS(2-CHLOROETHOXY)METHANE	NA	NA	11 U	11 U	NA	10 U
2,4-DICHLOROPHENOL	NA	NA	11 U	11 U	NA	10 U
1,2,4-TRICHLOROBENZENE	NA	NA	11 U	11 U	NA	10 U
NAPHTHALENE	NA	NA	11 U	11 U	NA	10 U
4-CHLOROANILINE	NA	NA	11 U	11 U	NA	10 U
HEXACHLOROBUTADIENE	NA	NA	11 U	11 U	NA	10 U
4-CHLORO-3-METHYLPHENOL	NA	NA	11 U	11 U	NA	10 U
2-METHYLNAPHTHALENE	NA	NA	11 U	11 U	NA	10 U
HEXACHLOROCYCLOPENTADIENE	NA	NA	11 U	11 U	NA	10 U
2,4,6-TRICHLOROPHENOL	NA	NA	11 U	11 U	NA	10 U
2,4,5-TRICHLOROPHENOL	NA	NA	26 U	26 U	NA	24 U
2-CHLORONAPHTHALENE	NA	NA	11 U	11 U	NA	10 U
2-NITROANILINE	NA	NA	26 U	26 U	NA	24 U
DIMETHYLPHTHALATE	NA	NA	11 U	11 U	NA	10 U
ACENAPHTHYLENE	NA	NA	11 U	11 U	NA	10 U
2,6-DINITROTOLUENE	NA	NA	11 U	11 U	NA	10 U
3-NITROANILINE	NA	NA	26 U	26 U	NA	24 U
ACENAPHTHENE	NA	NA	11 U	11 U	NA	10 U
2,4-DINITROPHENOL	NA	NA	26 U	26 U	NA	24 U

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW13IW-01	36-GW14-01	36-TW01-01	36-TW02-01	36-GW10-02	36-GW10DW-01
DATE SAMPLED	05/08/95	05/08/95	03/15/95	03/14/95	07/12/95	07/12/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	NA	NA	26 U	26 U	NA	24 U
DIBENZOFURAN	NA	NA	11 U	11 U	NA	10 U
2,4-DINITROTOLUENE	NA	NA	11 U	11 U	NA	10 U
DIETHYLPHTHALATE	NA	NA	11 U	11 U	NA	10 U
4-CHLOROPHENYL-PHENYLETHER	NA	NA	11 U	11 U	NA	10 U
FLUORENE	NA	NA	11 U	11 U	NA	10 U
4-NITROANILINE	NA	NA	26 U	26 U	NA	24 U
4,6-DINITRO-2-METHYLPHENOL	NA	NA	26 U	26 U	NA	24 U
N-NITROSODIPHENYLAMINE (1)	NA	NA	11 U	11 U	NA	10 U
4-BROMOPHENYL-PHENYLETHER	NA	NA	11 U	11 U	NA	10 U
HEXACHLOROBENZENE	NA	NA	11 U	11 U	NA	10 U
PENTACHLOROPHENOL	NA	NA	26 U	26 U	NA	24 U
PHENANTHRENE	NA	NA	11 U	11 U	NA	10 U
ANTHRACENE	NA	NA	11 U	11 U	NA	10 U
CARBAZOLE	NA	NA	11 U	11 U	NA	10 U
DI-N-BUTYLPHTHALATE	NA	NA	11 U	11 U	NA	10 U
FLUORANTHENE	NA	NA	11 U	11 U	NA	10 U
PYRENE	NA	NA	11 U	11 U	NA	10 U
BUTYLBENZYLPHTHALATE	NA	NA	11 U	11 U	NA	10 U
3,3'-DICHLOROBENZIDINE	NA	NA	11 U	11 U	NA	10 U
BENZO(A)ANTHRACENE	NA	NA	11 U	11 U	NA	10 U
CHRYSENE	NA	NA	11 U	11 U	NA	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	1 J	11 U	NA	10 U
DI-N-OCTYL PHTHALATE	NA	NA	11 U	11 U	NA	10 U
BENZO(B)FLUORANTHENE	NA	NA	11 U	11 U	NA	10 U
BENZO(K)FLUORANTHENE	NA	NA	11 U	11 U	NA	10 U
BENZO(A)PYRENE	NA	NA	11 U	11 U	NA	10 U
INDENO(1,2,3-CD)PYRENE	NA	NA	11 U	11 U	NA	10 U
DIBENZO(A,H)ANTHRACENE	NA	NA	11 U	11 U	NA	10 U
BENZO(G,H,I)PERYLENE	NA	NA	11 U	11 U	NA	10 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW13IW-01	36-GW14-01	36-TW01-01	36-TW02-01	36-GW10-02	36-GW10DW-01
DATE SAMPLED	05/08/95	05/08/95	03/15/95	03/14/95	07/12/95	07/12/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>PESTICIDES/PCB's</b>						
ALPHA-BHC	NA	NA	0.054 UJ	0.05 UJ	0.051 UJ	0.048 UJ
BETA-BHC	NA	NA	0.054 UJ	0.05 UJ	0.051 U	0.048 UJ
DELTA-BHC	NA	NA	0.054 UJ	0.05 UJ	0.051 UJ	0.048 UJ
GAMMA-BHC (LINDANE)	NA	NA	0.054 UJ	0.05 UJ	0.051 U	0.048 UJ
HEPTACHLOR	NA	NA	0.054 UJ	0.05 UJ	0.051 U	0.048 UJ
ALDRIN	NA	NA	0.054 UJ	0.05 UJ	0.051 U	0.048 UJ
HEPTACHLOR EPOXIDE	NA	NA	0.054 UJ	0.05 UJ	0.051 U	0.048 UJ
ENDOSULFAN I	NA	NA	0.054 UJ	0.05 UJ	0.051 U	0.048 UJ
DIELDRIN	NA	NA	0.11 UJ	0.1 UJ	0.1 U	0.096 UJ
4,4'-DDE	NA	NA	0.11 UJ	0.1 UJ	0.1 U	0.096 UJ
ENDRIN	NA	NA	0.11 UJ	0.1 UJ	0.1 U	0.096 UJ
ENDOSULFAN II	NA	NA	0.11 UJ	0.1 UJ	0.1 U	0.096 UJ
4,4'-DDD	NA	NA	0.11 UJ	0.1 UJ	0.1 UJ	0.096 UJ
ENDOSULFAN SULFATE	NA	NA	0.11 UJ	0.1 UJ	0.1 U	0.096 UJ
4,4'-DDT	NA	NA	0.11 UJ	0.1 UJ	0.1 U	0.096 UJ
METHOXYCHLOR	NA	NA	0.54 UJ	0.5 UJ	0.51 U	0.48 UJ
ENDRIN KETONE	NA	NA	0.11 UJ	0.1 UJ	0.1 U	0.096 UJ
ENDRIN ALDEHYDE	NA	NA	0.11 UJ	0.1 UJ	0.1 U	0.096 UJ
ALPHA-CHLORDANE	NA	NA	0.054 UJ	0.05 UJ	0.051 U	0.048 UJ
GAMMA-CHLORDANE	NA	NA	0.054 UJ	0.05 UJ	0.051 U	0.48 UJ
TOXAPHENE	NA	NA	5.4 UJ	5 UJ	5.1 U	4.8 UJ
AROCLOR-1016	NA	NA	1.1 UJ	1 UJ	1 U	0.96 UJ
AROCLOR-1221	NA	NA	2.2 UJ	2 UJ	2 U	1.9 UJ
AROCLOR-1232	NA	NA	1.1 UJ	1 UJ	1 U	0.96 UJ
AROCLOR-1242	NA	NA	1.1 UJ	1 UJ	1 U	0.96 UJ
AROCLOR-1248	NA	NA	1.1 UJ	1 UJ	1 U	0.96 UJ
AROCLOR-1254	NA	NA	1.1 UJ	1 UJ	1 U	0.96 UJ
AROCLOR-1260	NA	NA	1.1 UJ	1 UJ	1 U	0.96 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GW10IW-02	36-GW12-02	36-GW12IW-02	36-GW13-02	36-GW13IW-02
DATE SAMPLED	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>					
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	10 U	10 U	10 U	10 U	10 U
ACETONE	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	37	10 U	10 U	13	9 J
CHLOROFORM	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	97	4 J	10 U	5 J	3 J
DIBROMOCHLOROMETHANE	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 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	2 J	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	8 J	3 J	10 U	4 J	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW10IW-02	36-GW12-02	36-GW12IW-02	36-GW13-02	36-GW13IW-02
DATE SAMPLED	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>					
PHENOL	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA	NA	NA	NA
4-METHYLPHENOL	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA
DIMETHYLPHTHALATE	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW10IW-02	36-GW12-02	36-GW12IW-02	36-GW13-02	36-GW13IW-02
DATE SAMPLED	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>					
4-NITROPHENOL	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA
DIETHYLPHTHALATE	NA	NA	NA	NA	NA
4-CHLOROPHENYL-PHENYLETHER	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE (1)	NA	NA	NA	NA	NA
4-BROMOPHENYL-PHENYLETHER	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA
CARBAZOLE	NA	NA	NA	NA	NA
DI-N-BUTYLPHTHALATE	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA
BUTYLBENZYLPHTHALATE	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA



**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW10IW-02	36-GW12-02	36-GW12IW-02	36-GW13-02	36-GW13IW-02
DATE SAMPLED	07/11/95	07/11/95	07/11/95	07/11/95	07/11/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L
<b>PESTICIDES/PCB's</b>					
ALPHA-BHC	NA	NA	NA	NA	NA
BETA-BHC	NA	NA	NA	NA	NA
DELTA-BHC	NA	NA	NA	NA	NA
GAMMA-BHC (LINDANE)	NA	NA	NA	NA	NA
HEPTACHLOR	NA	NA	NA	NA	NA
ALDRIN	NA	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	NA	NA	NA	NA	NA
ENDOSULFAN I	NA	NA	NA	NA	NA
DIELDRIN	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA
ENDRIN	NA	NA	NA	NA	NA
ENDOSULFAN II	NA	NA	NA	NA	NA
4,4'-DDD	NA	NA	NA	NA	NA
ENDOSULFAN SULFATE	NA	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA	NA
METHOXYCHLOR	NA	NA	NA	NA	NA
ENDRIN KETONE	NA	NA	NA	NA	NA
ENDRIN ALDEHYDE	NA	NA	NA	NA	NA
ALPHA-CHLORDANE	NA	NA	NA	NA	NA
GAMMA-CHLORDANE	NA	NA	NA	NA	NA
TOXAPHENE	NA	NA	NA	NA	NA
AROCLOR-1016	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
CHLOROMETHANE	10 U	10 U	ND	ND		0/29
BROMOMETHANE	10 U	10 U	ND	ND		0/29
VINYL CHLORIDE	10 U	10 U	ND	ND		0/29
CHLOROETHANE	10 U	10 U	ND	ND		0/29
METHYLENE CHLORIDE	10 U	10 U	1 J	1 J	36-GW10-02	1/29
ACETONE	10 U	19 U	ND	ND		0/29
CARBON DISULFIDE	10 U	10 U	ND	ND		0/29
1,1-DICHLOROETHENE	10 U	10 U	ND	ND		0/29
1,1-DICHLOROETHANE	10 U	10 U	ND	ND		0/29
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	4 J	37	36-GW10IW-02	8/29
CHLOROFORM	10 U	10 U	ND	ND		0/29
1,2-DICHLOROETHANE	10 U	10 U	ND	ND		0/29
2-BUTANONE	10 U	10 U	ND	ND		0/29
1,1,1-TRICHLOROETHANE	10 U	10 U	ND	ND		0/29
CARBON TETRACHLORIDE	10 U	10 U	ND	ND		0/29
BROMODICHLOROMETHANE	10 U	10 U	ND	ND		0/29
1,2-DICHLOROPROPANE	10 U	10 U	ND	ND		0/29
CIS-1,3-DICHLOROPROPENE	10 U	10 U	ND	ND		0/29
TRICHLOROETHENE	10 U	10 U	3 J	97	36-GW10IW-02	10/29
DIBROMOCHLOROMETHANE	10 U	10 U	ND	ND		0/29
1,1,2-TRICHLOROETHANE	10 U	10 U	ND	ND		0/29
BENZENE	10 U	10 U	ND	ND		0/29
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	ND	ND		0/29
BROMOFORM	10 U	10 U	ND	ND		0/29
4-METHYL-2-PENTANONE	10 U	10 U	ND	ND		0/29
2-HEXANONE	10 U	10 U	ND	ND		0/29
TETRACHLOROETHENE	10 U	10 U	1 J	2 J	36-GW10IW-02	2/29
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	3 J	10	36-GW10IW-01	6/29
TOLUENE	10 U	10 U	ND	ND		0/29
CHLOROBENZENE	10 U	10 U	ND	ND		0/29
ETHYLBENZENE	10 U	10 U	ND	ND		0/29
STYRENE	10 U	10 U	ND	ND		0/29
XYLENE (TOTAL)	10 U	10 U	ND	ND		0/29

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
PHENOL	9 U	11 U	ND	ND		0/17
BIS(2-CHLOROETHYL)ETHER	9 U	11 U	ND	ND		0/17
2-CHLOROPHENOL	9 U	11 U	ND	ND		0/17
1,3-DICHLOROBENZENE	9 U	11 U	ND	ND		0/17
1,4-DICHLOROBENZENE	9 U	11 U	ND	ND		0/17
1,2-DICHLOROBENZENE	9 U	11 U	ND	ND		0/17
2-METHYLPHENOL	9 U	11 U	ND	ND		0/17
2,2'-OXYBIS(1-CHLOROPROPANE)	9 U	11 U	ND	ND		0/13
4-METHYLPHENOL	9 U	11 U	ND	ND		0/17
N-NITROSO-DI-N-PROPYLAMINE	9 U	11 U	ND	ND		0/17
HEXACHLOROETHANE	9 U	11 U	ND	ND		0/17
NITROBENZENE	9 U	11 U	ND	ND		0/17
ISOPHORONE	9 U	11 U	ND	ND		0/17
2-NITROPHENOL	9 U	11 U	ND	ND		0/17
2,4-DIMETHYLPHENOL	9 U	11 U	ND	ND		0/17
BIS(2-CHLOROETHOXY)METHANE	9 U	11 U	ND	ND		0/17
2,4-DICHLOROPHENOL	9 U	11 U	ND	ND		0/17
1,2,4-TRICHLOROBENZENE	9 U	11 U	ND	ND		0/17
NAPHTHALENE	9 U	11 U	ND	ND		0/17
4-CHLOROANILINE	9 U	11 U	ND	ND		0/17
HEXACHLOROBUTADIENE	9 U	11 U	ND	ND		0/17
4-CHLORO-3-METHYLPHENOL	9 U	11 U	ND	ND		0/17
2-METHYLNAPHTHALENE	9 U	11 U	ND	ND		0/17
HEXACHLOROCYCLOPENTADIENE	9 U	11 U	ND	ND		0/17
2,4,6-TRICHLOROPHENOL	9 U	11 U	ND	ND		0/17
2,4,5-TRICHLOROPHENOL	23 U	26 U	ND	ND		0/17
2-CHLORONAPHTHALENE	9 U	11 U	ND	ND		0/17
2-NITROANILINE	23 U	26 U	ND	ND		0/17
DIMETHYLPHTHALATE	9 U	11 U	ND	ND		0/17
ACENAPHTHYLENE	9 U	11 U	ND	ND		0/17
2,6-DINITROTOLUENE	9 U	11 U	ND	ND		0/17
3-NITROANILINE	23 U	26 U	ND	ND		0/17
ACENAPHTHENE	9 U	11 U	ND	ND		0/17
2,4-DINITROPHENOL	23 U	26 U	ND	ND		0/17

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	23 U	26 U	ND	ND		0/17
DIBENZOFURAN	9 U	11 U	ND	ND		0/17
2,4-DINITROTOLUENE	9 U	11 U	ND	ND		0/17
DIETHYLPHTHALATE	9 U	11 U	ND	ND		0/17
4-CHLOROPHENYL-PHENYLETHER	9 U	11 U	ND	ND		0/17
FLUORENE	9 U	11 U	ND	ND		0/17
4-NITROANILINE	23 U	26 U	ND	ND		0/17
4,6-DINITRO-2-METHYLPHENOL	23 U	26 U	ND	ND		0/17
N-NITROSODIPHENYLAMINE (1)	9 U	11 U	ND	ND		0/17
4-BROMOPHENYL-PHENYLETHER	9 U	11 U	ND	ND		0/17
HEXACHLOROBENZENE	9 U	11 U	ND	ND		0/17
PENTACHLOROPHENOL	23 U	26 U	ND	ND		0/17
PHENANTHRENE	9 U	11 U	ND	ND		0/17
ANTHRACENE	9 U	11 U	ND	ND		0/17
CARBAZOLE	9 U	11 U	ND	ND		0/17
DI-N-BUTYLPHTHALATE	9 U	11 U	ND	ND		0/17
FLUORANTHENE	9 U	11 U	ND	ND		0/17
PYRENE	9 U	11 U	ND	ND		0/17
BUTYLBENZYLPHTHALATE	9 U	11 U	ND	ND		0/17
3,3'-DICHLOROBENZIDINE	9 U	11 U	ND	ND		0/17
BENZO(A)ANTHRACENE	9 U	11 U	ND	ND		0/17
CHRYSENE	9 U	11 U	ND	ND		0/17
BIS(2-ETHYLHEXYL)PHTHALATE	9 U	11 U	1 J	5 J	36-GW09-01	2/17
DI-N-OCTYL PHTHALATE	9 U	11 U	ND	ND		0/17
BENZO(B)FLUORANTHENE	9 U	11 U	ND	ND		0/17
BENZO(K)FLUORANTHENE	9 U	11 U	ND	ND		0/17
BENZO(A)PYRENE	9 U	11 U	ND	ND		0/17
INDENO(1,2,3-CD)PYRENE	9 U	11 U	ND	ND		0/17
DIBENZO(A,H)ANTHRACENE	9 U	11 U	ND	ND		0/17
BENZO(G,H,I)PERYLENE	9 U	11 U	ND	ND		0/17

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>PESTICIDES/PCB's</b>						
ALPHA-BHC	0.046 U	0.054 UJ	ND	ND		0/18
BETA-BHC	0.046 U	0.054 UJ	ND	ND		0/18
DELTA-BHC	0.046 U	0.054 UJ	ND	ND		0/18
GAMMA-BHC (LINDANE)	0.046 U	0.054 UJ	ND	ND		0/18
HEPTACHLOR	0.046 U	0.054 UJ	ND	ND		0/18
ALDRIN	0.046 U	0.054 UJ	ND	ND		0/18
HEPTACHLOR EPOXIDE	0.046 U	0.054 UJ	ND	ND		0/18
ENDOSULFAN I	0.046 U	0.054 UJ	ND	ND		0/18
DIELDRIN	0.092 U	0.11 UJ	ND	ND		0/18
4,4'-DDE	0.092 U	0.11 UJ	ND	ND		0/18
ENDRIN	0.092 U	0.11 UJ	ND	ND		0/18
ENDOSULFAN II	0.092 U	0.11 UJ	ND	ND		0/18
4,4'-DDD	0.092 U	0.11 UJ	0.056 J	0.056 J	36-GW10-01	1/18
ENDOSULFAN SULFATE	0.092 U	0.11 UJ	ND	ND		0/18
4,4'-DDT	0.092 U	0.11 UJ	ND	ND		0/18
METHOXYCHLOR	0.46 UJ	0.54 UJ	ND	ND		0/18
ENDRIN KETONE	0.092 U	0.11 UJ	ND	ND		0/18
ENDRIN ALDEHYDE	0.092 U	0.11 UJ	ND	ND		0/18
ALPHA-CHLORDANE	0.046 U	0.054 UJ	ND	ND		0/18
GAMMA-CHLORDANE	0.046 U	0.48 UJ	ND	ND		0/18
TOXAPHENE	4.6 U	5.4 UJ	ND	ND		0/18
AROCLOR-1016	0.92 U	1.1 UJ	ND	ND		0/18
AROCLOR-1221	1.8 U	2.2 UJ	ND	ND		0/18
AROCLOR-1232	0.92 U	1.1 UJ	ND	ND		0/18
AROCLOR-1242	0.92 U	1.1 UJ	ND	ND		0/18
AROCLOR-1248	0.92 U	1.1 UJ	ND	ND		0/18
AROCLOR-1254	0.92 U	1.1 UJ	ND	ND		0/18
AROCLOR-1260	0.92 U	1.1 UJ	ND	ND		0/18

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-GW01-01	36-GW02-01	36-GW03-01	36-GW04-01	36-GW05-01	36-GW06-01
DATE SAMPLED	03/28/95	03/27/95	03/26/95	03/26/95	03/26/95	03/27/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	58.3 U	64.9 U	21.9	128	143	590
ANTIMONY, TOTAL	20.7 U	20.7 U	10.9 U	10.9 U	10.9 U	10.9 U
ARSENIC, TOTAL	3.6	3.4	1.9 U	1.9 U	1.9 U	1.9 U
BARIUM, TOTAL	290	69	4.4 U	81.5	43.9	61.5
BERYLLIUM, TOTAL	0.9 U	0.9 U	0.34 U	0.33 U	0.34 U	0.44 U
CADMIUM, TOTAL	2.8 U	2.8 U	2.9 U	2.9 U	2.9 U	2.9 U
CALCIUM, TOTAL	139000	92300	1740	27300	18100	6110
CHROMIUM, TOTAL	2.9 U	2.9 U	4.7 U	4.7 U	4.7 U	4.7 U
COBALT, TOTAL	3 U	3 U	2.3 U	2.3 U	2.3 U	2.3 U
COPPER, TOTAL	2.3 U	1.9 U	4 U	4 U	4 U	4 U
IRON, TOTAL	13300 J	16900 J	160	32.8	692	4870
LEAD, TOTAL	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
MAGNESIUM, TOTAL	13000	28900	274	4420	3830	2630
MANGANESE, TOTAL	1150	452	54.5	19.2	4.9 U	22.3
MERCURY, TOTAL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL, TOTAL	10.8 U	10.8 U	4.2 U	4.2 U	4.2 U	4.2 U
POTASSIUM, TOTAL	11600	37500	2470	1340	620	854
SELENIUM, TOTAL	1.4 U	1.4 U	1.5 U	1.6	1.5 U	1.5 U
SILVER, TOTAL	3 U	3 U	2.5 U	2.5 U	2.5 U	2.5 U
SODIUM, TOTAL	14800	46400	42200	11200	10600	11600
THALLIUM, TOTAL	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
VANADIUM, TOTAL	2.3 U	2.3 U	2.1 U	2.1 U	2.1 U	2.1 U
ZINC, TOTAL	3.8 U	3.8 U	1.9 U	1.9 U	1.9 U	1.9 U

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES

LOCATION	36-GW06DW-01	36-GW07DW-01	36-GW07-01	36-GW08-01	36-GW09-01	36-GW10-01
DATE SAMPLED	03/26/95	03/26/95	03/26/95	03/27/95	03/27/95	03/25/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	16.8 U	16.8 U	16.8 U	136 U	72.9	16.8 U
ANTIMONY, TOTAL	10.9 U	10.9 U	10.9 U	20.7 U	10.9 U	10.9 U
ARSENIC, TOTAL	1.9 U	1.9 U	1.9 U	1.6 U	1.9 U	1.9 U
BARIUM, TOTAL	2.9 U	2.8 U	12.3	54.5	45.8	49.2
BERYLLIUM, TOTAL	0.35 U	0.35 U	0.3 U	0.9 U	0.76 U	0.3 U
CADMIUM, TOTAL	2.9 U	2.9 U	2.9 U	2.8 U	2.9 U	2.9 U
CALCIUM, TOTAL	45700	42500	70600	28600	165000	121000
CHROMIUM, TOTAL	4.7 U	4.7 U	4.7 U	2.9 U	4.7 U	4.7 U
COBALT, TOTAL	2.3 U	2.3 U	2.3 U	3 U	6.4 U	2.3 U
COPPER, TOTAL	4 U	4 U	4 U	1.9 U	4 U	4 U
IRON, TOTAL	49.5	27.4	341	172 J	2880	3.3
LEAD, TOTAL	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
MAGNESIUM, TOTAL	2580	2020	1930	4430	41500	5960
MANGANESE, TOTAL	34.7	40.8	37.7	21.1	3180	207
MERCURY, TOTAL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL, TOTAL	4.2 U	4.2 U	4.2 U	10.8 U	7.4	4.2 U
POTASSIUM, TOTAL	5930	4260	1230	6450	26000	1150
SELENIUM, TOTAL	1.5 U	1.5 U	1.5 U	1.4 U	1.5 UJ	1.5 U
SILVER, TOTAL	2.5 U	2.5 U	2.5 U	3 U	2.5 U	2.5 U
SODIUM, TOTAL	33400	33100	13500	17700	49100	12800
THALLIUM, TOTAL	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
VANADIUM, TOTAL	2.1 U	2.1 U	2.3 U	2.3 U	2.1 U	2.1 U
ZINC, TOTAL	166	1.9 U	1.9 U	16.8 U	224	1.9 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-GW10IW-01	36-GW11-01	36-GW11DW-01	36-GW12-01	36-GW12IW-01	36-GW13-01
DATE SAMPLED	05/09/95	03/27/95	03/27/95	05/08/95	05/08/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	88.4 U	31.2 U	16.8 U	705	36.8 U	41.1 U
ANTIMONY, TOTAL	12 U	20.7 U	10.9 U	12 U	12 U	12 U
ARSENIC, TOTAL	1.5 U	1.6 U	1.9 U	1.5 U	1.5 U	1.5 U
BARIUM, TOTAL	28.4	57.8	11.5	41.2	52.2	23.2
BERYLLIUM, TOTAL	0.3 U	0.9 U	0.33 U	0.3 U	0.3 U	0.3 U
CADMIUM, TOTAL	3.9 U	2.8 U	3	3.9 U	3.9 U	3.9 U
CALCIUM, TOTAL	159000	191000	50400	106000	102000	120000
CHROMIUM, TOTAL	3.8 U	2.9 U	4.7 U	3.8 U	3.8 U	3.8 U
COBALT, TOTAL	1.4 U	3 U	2.3 U	1.7 U	1.4 U	1.4 U
COPPER, TOTAL	1.8 U	2 U	4 U	1.8 U	1.8 U	1.8 U
IRON, TOTAL	101	375 J	106	686	17.1 U	337
LEAD, TOTAL	1.6 U	1.6 U	1.6 U	3.4 U	14.7	1.9 U
MAGNESIUM, TOTAL	11300	42800	21700	4690	4030	4640
MANGANESE, TOTAL	92.4	126	84	44.6	51.3	183
MERCURY, TOTAL	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL, TOTAL	5.4 U	10.8 U	4.2 U	5.4 U	5.4 U	5.4 U
POTASSIUM, TOTAL	3850	37900	20100	2650	3210	2310
SELENIUM, TOTAL	1.8 U	3.3	1.5 U	1.8 U	1.8 U	1.8 U
SILVER, TOTAL	1.9 U	3 U	2.5 U	1.9 U	1.9 U	1.9 U
SODIUM, TOTAL	41300	46100	70700	13900	19200	13000
THALLIUM, TOTAL	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
VANADIUM, TOTAL	1.5 U	2.3 U	2.1 U	2.9 U	1.5 U	1.5 U
ZINC, TOTAL	2.5 U	6.5 U	1.9 U	3.9 U	2.8 U	2.4 U



**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-GW13IW-01	36-GW14-01	36-TW02-01	36-GW10DW-01
DATE SAMPLED	05/08/95	05/08/95	03/14/95	07/12/95
UNITS	UG/L	UG/L	UG/L	UG/L
<b>TOTAL METALS</b>				
ALUMINUM, TOTAL	58 U	386	155 U	56.3
ANTIMONY, TOTAL	12 U	12 U	20.7 U	18.1 U
ARSENIC, TOTAL	1.5 U	1.5 U	1.9 U	1.8 U
BARIUM, TOTAL	12.3	36.7	204	15.1
BERYLLIUM, TOTAL	0.3 U	0.3 U	0.9 U	0.3 U
CADMIUM, TOTAL	3.9 U	3.9 U	2.8 U	3.7 U
CALCIUM, TOTAL	76300	47800	68400	39000
CHROMIUM, TOTAL	4.5 U	3.8 U	2.9 U	3.8 U
COBALT, TOTAL	1.4 U	1.4 U	3 U	1.1 U
COPPER, TOTAL	1.8 U	1.8 U	1.9 U	2.3 U
IRON, TOTAL	425	6650	7640	18.9
LEAD, TOTAL	12.7	0.9 U	1 U	2.2
MAGNESIUM, TOTAL	9590	2480	36200	16000
MANGANESE, TOTAL	66.6	31.6	210	2.2
MERCURY, TOTAL	0.2 U	0.2 U	1.4	0.2 U
NICKEL, TOTAL	5.4 U	5.4 U	65.2	4.8 U
POTASSIUM, TOTAL	5060	758	15300	24700
SELENIUM, TOTAL	1.8 U	1.8 U	1.5 U	1.6 U
SILVER, TOTAL	1.9 U	1.9 U	3 U	2.4 U
SODIUM, TOTAL	40200	6710	308000	61700
THALLIUM, TOTAL	0.7 U	0.7 U	1.1 U	1.3 U
VANADIUM, TOTAL	1.5 U	1.5 U	2.6	6.7
ZINC, TOTAL	2.2 U	4.7 U	8.5	3.7

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	16.8 U	155 U	21.9	705	36-GW12-01	8/22
ANTIMONY, TOTAL	10.9 U	20.7 U	ND	ND		0/22
ARSENIC, TOTAL	1.5 U	1.9 U	3.4	3.6	36-GW01-01	2/22
BARIIUM, TOTAL	2.8 U	4.4 U	11.5	290	36-GW01-01	19/22
BERYLLIUM, TOTAL	0.3 U	0.9 U	ND	ND		0/22
CADMIUM, TOTAL	2.8 U	3.9 U	3	3	36-GW11DW-01	1/22
CALCIUM, TOTAL	NA	NA	1740	191000	36-GW11-01	22/22
CHROMIUM, TOTAL	2.9 U	4.7 U	ND	ND		0/22
COBALT, TOTAL	1.1 U	6.4 U	ND	ND		0/22
COPPER, TOTAL	1.8 U	4 U	ND	ND		0/22
IRON, TOTAL	17.1 U	17.1 U	3.3	16900 J	36-GW02-01	21/22
LEAD, TOTAL	0.9 U	3.4 U	2.2	14.7	36-GW12IW-01	3/22
MAGNESIUM, TOTAL	NA	NA	274	42800	36-GW11-01	22/22
MANGANESE, TOTAL	4.9 U	4.9 U	2.2	3180	36-GW09-01	21/22
MERCURY, TOTAL	0.2 U	0.2 U	1.4	1.4	36-TW02-01	1/22
NICKEL, TOTAL	4.2 U	10.8 U	7.4	65.2	36-TW02-01	2/22
POTASSIUM, TOTAL	NA	NA	620	37900	36-GW11-01	22/22
SELENIUM, TOTAL	1.4 U	1.8 U	1.6	3.3	36-GW11-01	2/22
SILVER, TOTAL	1.9 U	3 U	ND	ND		0/22
SODIUM, TOTAL	NA	NA	6710	308000	36-TW02-01	22/22
THALLIUM, TOTAL	0.7 U	1.3 U	ND	ND		0/22
VANADIUM, TOTAL	1.5 U	2.9 U	2.6	6.7	36-GW10DW-01	2/22
ZINC, TOTAL	1.9 U	16.8 U	3.7	224	36-GW09-01	4/22

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**DISSOLVED INORGANIC ANALYTES**

LOCATION	36-GW01D-01	36-GW08D-01	36-GW14D-01	36-TW02D-01
DATE SAMPLED	03/28/95	03/27/95	05/08/95	03/14/95
UNITS	UG/L	UG/L	UG/L	UG/L
<b>DISSOLVED METALS</b>				
ALUMINUM, SOLUBLE	24 U	149 U	21.9 U	91.1 U
ANTIMONY, SOLUBLE	20.7 U	20.7 U	12 U	20.7 U
ARSENIC, SOLUBLE	1.9	1.6 U	1.5 U	1.9 U
BARIUM, SOLUBLE	278	57.7	35	200
BERYLLIUM, SOLUBLE	0.9 U	0.9 U	0.3 U	0.9 U
CADMIUM, SOLUBLE	2.8 U	2.8 U	3.9 U	2.8 U
CALCIUM, SOLUBLE	134000	28000	49700	68500
CHROMIUM, SOLUBLE	2.9 U	2.9 U	3.8 U	2.9 U
COBALT, SOLUBLE	3 U	3 U	1.4 U	3 U
COPPER, SOLUBLE	1.9 U	1.9 U	1.8 U	1.9 U
IRON, SOLUBLE	12700 J	155 J	5570	7170
LEAD, SOLUBLE	1.6 U	1.6 U	1.1 U	1 U
MAGNESIUM, SOLUBLE	12400	4580	2500	36200
MANGANESE, SOLUBLE	1110	24.5	32.7	208
MERCURY, SOLUBLE	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL, SOLUBLE	10.8 U	10.8 U	5.4 U	66.4
POTASSIUM, SOLUBLE	10500	6690	793	15900
SELENIUM, SOLUBLE	1.4 UJ	1.4 UJ	1.8 U	1.5 U
SILVER, SOLUBLE	3 U	3 U	1.9 U	3 U
SODIUM, SOLUBLE	14200	18600	6700	313000
THALLIUM, SOLUBLE	0.7 U	0.7 U	0.7 U	1.1 U
VANADIUM, SOLUBLE	2.3 U	2.3 U	1.5 U	2.3 U
ZINC, SOLUBLE	4.8 U	12.2 U	3.1 U	10.4

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**DISSOLVED INORGANIC ANALYTES**

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>DISSOLVED METALS</b>						
ALUMINUM, SOLUBLE	21.9 U	149 U	ND	ND		0/4
ANTIMONY, SOLUBLE	12 U	20.7 U	ND	ND		0/4
ARSENIC, SOLUBLE	1.5 U	1.9 U	1.9	1.9	36-GW01D-01	1/4
BARIUM, SOLUBLE	NA	NA	35	278	36-GW01D-01	4/4
BERYLLIUM, SOLUBLE	0.3 U	0.9 U	ND	ND		0/4
CADMIUM, SOLUBLE	2.8 U	3.9 U	ND	ND		0/4
CALCIUM, SOLUBLE	NA	NA	28000	134000	36-GW01D-01	4/4
CHROMIUM, SOLUBLE	2.9 U	3.8 U	ND	ND		0/4
COBALT, SOLUBLE	1.4 U	3 U	ND	ND		0/4
COPPER, SOLUBLE	1.8 U	1.9 U	ND	ND		0/4
IRON, SOLUBLE	NA	NA	155 J	12700 J	36-GW01D-01	4/4
LEAD, SOLUBLE	1 U	1.6 U	ND	ND		0/4
MAGNESIUM, SOLUBLE	NA	NA	2500	36200	36-TW02D-01	4/4
MANGANESE, SOLUBLE	NA	NA	24.5	1110	36-GW01D-01	4/4
MERCURY, SOLUBLE	0.2 U	0.2 U	ND	ND		0/4
NICKEL, SOLUBLE	5.4 U	10.8 U	66.4	66.4	36-TW02D-01	1/4
POTASSIUM, SOLUBLE	NA	NA	793	15900	36-TW02D-01	4/4
SELENIUM, SOLUBLE	1.4 UJ	1.8 U	ND	ND		0/4
SILVER, SOLUBLE	1.9 U	3 U	ND	ND		0/4
SODIUM, SOLUBLE	NA	NA	6700	313000	36-TW02D-01	4/4
THALLIUM, SOLUBLE	0.7 U	1.1 U	ND	ND		0/4
VANADIUM, SOLUBLE	1.5 U	2.3 U	ND	ND		0/4
ZINC, SOLUBLE	3.1 U	12.2 U	10.4	10.4	36-TW02D-01	1/4

**SURFACE WATER**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED UNITS	36-SW01 04/19/94 UG/L	36-SW02 04/19/94 UG/L	36-SW03 04/19/94 UG/L	36-SW04 04/19/94 UG/L	36-SW05 04/19/94 UG/L	36-SW06 04/19/94 UG/L
<b>VOLATILES</b>						
Chloromethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Bromomethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Vinyl Chloride	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Chloroethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Methylene Chloride	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Acetone	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Carbon Disulfide	10 U	10 U	10 U	10 U	10 UJ	10 UJ
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
1,2-Dichloroethene (total)	10 U	7	10 U	10 U	10 UJ	10 UJ
Chloroform	10 U	10 U	10 U	10 U	10 UJ	10 UJ
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2-Butanone	10 U	10 U	10 U	10 U	10 UJ	10 UJ
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Bromodichloromethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
1,2-Dichloropropane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Trichloroethene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dibromochloromethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Benzene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Bromoform	10 U	10 U	10 U	10 U	10 UJ	10 UJ
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2-Hexanone	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Tetrachloroethene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Toluene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Chlorobenzene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Ethylbenzene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Styrene	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Xylene (total)	10 U	10 U	10 U	10 U	10 UJ	10 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SW01	36-SW02	36-SW03	36-SW04	36-SW05	36-SW06
DATE SAMPLED	04/19/94	04/19/94	04/19/94	04/19/94	04/19/94	04/19/94
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
Phenol	10 UJ	11 UJ	10 UJ	10 UJ	10 UJ	10 UJ
bis(2-Chloroethyl)ether	10 U	11 U	10 U	10 UJ	10 UJ	10 U
2-Chlorophenol	10 U	11 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	11 U	10 U	10 U	10 UJ	10 U
1,4-Dichlorobenzene	10 U	11 U	10 U	10 U	10 UJ	10 U
1,2-Dichlorobenzene	10 U	11 U	10 U	10 U	10 UJ	10 U
2-Methylphenol	10 U	11 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10 U	11 U	10 U	10 UJ	10 UJ	10 U
4-Methylphenol	10 U	11 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	11 U	10 U	10 UJ	10 UJ	10 U
Hexachloroethane	10 U	11 U	10 U	10 U	10 UJ	10 U
Nitrobenzene	10 U	11 U	10 U	10 U	10 UJ	10 U
Isophorone	10 U	11 U	10 U	10 U	10 UJ	10 U
2-Nitrophenol	10 U	11 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	11 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	11 U	10 U	10 U	10 UJ	10 U
2,4-Dichlorophenol	10 U	11 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	11 U	10 U	10 U	10 UJ	10 U
Naphthalene	10 U	11 U	10 U	10 U	10 UJ	10 U
4-Chloroaniline	10 U	11 U	10 U	10 U	10 UJ	10 U
Hexachlorobutadiene	10 U	11 U	10 U	10 U	10 UJ	10 U
4-Chloro-3-methylphenol	10 U	11 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	11 U	10 U	10 U	10 UJ	10 U
Hexachlorocyclopentadiene	10 U	11 U	10 U	10 U	10 UJ	10 U
2,4,6-Trichlorophenol	10 U	11 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25 U	28 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10 U	11 U	10 U	10 U	10 UJ	10 U
2-Nitroaniline	25 U	28 U	25 U	25 U	25 UJ	25 U
Dimethylphthalate	10 UJ	11 UJ	10 UJ	10 U	10 UJ	10 UJ
Acenaphthylene	10 U	11 U	10 U	10 U	10 UJ	10 U
2,6-Dinitrotoluene	10 U	11 U	10 U	10 U	10 UJ	10 U
3-Nitroaniline	25 U	28 U	25 U	25 U	25 UJ	25 U
Acenaphthene	10 U	11 U	10 U	10 U	10 UJ	10 U
2,4-Dinitrophenol	25 UJ	28 UJ	25 UJ	25 UJ	25 UJ	25 U

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE WATER - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-SW01	36-SW02	36-SW03	36-SW04	36-SW05	36-SW06
DATE SAMPLED	04/19/94	04/19/94	04/19/94	04/19/94	04/19/94	04/19/94
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont.</b>						
Dibenzofuran	10 U	11 U	10 U	10 U	10 UJ	10 U
4-Nitrophenol	10 U	11 U	10 U	10 U	10 U	10 UJ
2,4-Dinitrotoluene	10 U	11 U	10 U	10 U	10 UJ	10 U
Diethylphthalate	10 U	11 U	10 U	10 U	10 UJ	10 U
Fluorene	10 U	11 U	10 U	10 U	10 UJ	10 U
4-Chlorophenyl-phenylether	10 U	11 U	10 U	10 U	10 UJ	10 U
4-Nitroaniline	25 U	28 U	25 U	25 U	25 UJ	25 U
4,6-Dinitro-2-methylphenol	25 U	28 U	25 U	25 UJ	25 U	25 U
N-Nitrosodiphenylamine	10 UJ	11 UJ	10 UJ	10 U	10 UJ	10 UJ
4-Bromophenyl-phenylether	10 U	11 U	10 U	10 U	10 UJ	10 U
Hexachlorobenzene	10 U	11 U	10 U	10 U	10 UJ	10 U
Pentachlorophenol	25 U	28 U	25 U	25 U	25 U	25 U
Phenanthrene	10 U	11 U	10 U	10 U	10 UJ	10 U
Anthracene	10 U	11 U	10 U	10 U	10 UJ	10 U
Carbazole	10 U	11 U	10 U	10 U	10 UJ	10 U
Di-n-butylphthalate	10 U	11 U	10 U	10 U	10 UJ	10 U
Fluoranthene	10 U	11 U	10 U	10 U	10 UJ	10 U
Pyrene	10 U	11 U	10 U	10 U	10 UJ	10 U
Butylbenzylphthalate	10 UJ	11 UJ	10 UJ	10 U	10 UJ	10 UJ
Benzo(a)anthracene	10 U	11 U	10 U	10 U	10 UJ	10 U
3,3'-Dichlorobenzidine	10 U	11 U	10 U	10 U	10 UJ	10 U
Chrysene	10 U	11 U	10 U	10 U	10 UJ	10 UJ
bis(2-Ethylhexyl)phthalate	10 UJ	11 UJ	10 UJ	10 U	10 UJ	10 UJ
Di-n-octylphthalate	10 UJ	11 UJ	10 UJ	10 U	10 UJ	10 U
Benzo(b)fluoranthene	10 U	11 U	10 U	10 U	10 UJ	10 U
Benzo(k)fluoranthene	10 U	11 U	10 U	10 U	10 UJ	10 U
Benzo(a)pyrene	10 U	11 U	10 U	10 U	10 UJ	10 U
Indeno(1,2,3-cd)pyrene	10 U	11 U	10 U	10 U	10 UJ	10 U
Dibenz(a,h)anthracene	10 U	11 U	10 U	10 U	10 UJ	10 U
Benzo(g,h,i)perylene	10 U	11 U	10 U	10 U	10 UJ	10 U



**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION 36-SW07  
 DATE SAMPLED 04/19/94  
 UNITS UG/L

**VOLATILES**

Chloromethane	10 UJ
Bromomethane	10 UJ
Vinyl Chloride	10 UJ
Chloroethane	10 UJ
Methylene Chloride	10 UJ
Acetone	10 UJ
Carbon Disulfide	10 UJ
1,1-Dichloroethene	10 UJ
1,1-Dichloroethane	10 UJ
1,2-Dichloroethene (total)	10 UJ
Chloroform	10 UJ
1,2-Dichloroethane	10 UJ
2-Butanone	10 UJ
1,1,1-Trichloroethane	10 UJ
Carbon Tetrachloride	10 UJ
Bromodichloromethane	10 UJ
1,2-Dichloropropane	10 UJ
cis-1,3-Dichloropropene	10 UJ
Trichloroethene	10 UJ
Dibromochloromethane	10 UJ
1,1,2-Trichloroethane	10 UJ
Benzene	10 UJ
trans-1,3-Dichloropropene	10 UJ
Bromoform	10 UJ
4-Methyl-2-Pentanone	10 UJ
2-Hexanone	10 UJ
Tetrachloroethene	10 UJ
1,1,2,2-Tetrachloroethane	10 UJ
Toluene	10 UJ
Chlorobenzene	10 UJ
Ethylbenzene	10 UJ
Styrene	10 UJ
Xylene (total)	10 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION 36-SW07  
 DATE SAMPLED 04/19/94  
 UNITS UG/L

**SEMIVOLATILES**

Phenol	11 UJ
bis(2-Chloroethyl)ether	11 U
2-Chlorophenol	11 U
1,3-Dichlorobenzene	11 U
1,4-Dichlorobenzene	11 U
1,2-Dichlorobenzene	11 U
2-Methylphenol	11 U
2,2'-oxybis(1-Chloropropane)	11 U
4-Methylphenol	11 U
N-Nitroso-di-n-propylamine	11 U
Hexachloroethane	11 U
Nitrobenzene	11 U
Isophorone	11 U
2-Nitrophenol	11 U
2,4-Dimethylphenol	11 U
bis(2-Chloroethoxy)methane	11 U
2,4-Dichlorophenol	11 U
1,2,4-Trichlorobenzene	11 U
Naphthalene	11 U
4-Chloroaniline	11 U
Hexachlorobutadiene	11 U
4-Chloro-3-methylphenol	11 U
2-Methylnaphthalene	11 U
Hexachlorocyclopentadiene	11 U
2,4,6-Trichlorophenol	11 U
2,4,5-Trichlorophenol	28 U
2-Chloronaphthalene	11 U
2-Nitroaniline	28 U
Dimethylphthalate	11 UJ
Acenaphthylene	11 U
2,6-Dinitrotoluene	11 U
3-Nitroaniline	28 U
Acenaphthene	11 U
2,4-Dinitrophenol	28 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION 36-SW07  
 DATE SAMPLED 04/19/94  
 UNITS UG/L

**SEMIVOLATILES cont.**

Dibenzofuran	11 U
4-Nitrophenol	11 UJ
2,4-Dinitrotoluene	11 U
Diethylphthalate	11 U
Fluorene	11 U
4-Chlorophenyl-phenylether	11 U
4-Nitroaniline	28 U
4,6-Dinitro-2-methylphenol	28 U
N-Nitrosodiphenylamine	11 UJ
4-Bromophenyl-phenylether	11 U
Hexachlorobenzene	11 U
Pentachlorophenol	28 U
Phenanthrene	11 U
Anthracene	11 U
Carbazole	11 U
Di-n-butylphthalate	11 U
Fluoranthene	11 U
Pyrene	11 U
Butylbenzylphthalate	11 UJ
Benzo(a)anthracene	11 U
3,3'-Dichlorobenzidine	11 U
Chrysene	11 UJ
bis(2-Ethylhexyl)phthalate	11 UJ
Di-n-octylphthalate	11 U
Benzo(b)fluoranthene	11 U
Benzo(k)fluoranthene	11 U
Benzo(a)pyrene	11 U
Indeno(1,2,3-cd)pyrene	11 U
Dibenz(a,h)anthracene	11 U
Benzo(g,h,i)perylene	11 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
Chloromethane	10 U	10 U	ND	ND		0/7
Bromomethane	10 U	10 U	ND	ND		0/7
Vinyl Chloride	10 U	10 U	ND	ND		0/7
Chloroethane	10 U	10 U	ND	ND		0/7
Methylene Chloride	10 U	10 U	ND	ND		0/7
Acetone	10 U	10 U	ND	ND		0/7
Carbon Disulfide	10 U	10 U	ND	ND		0/7
1,1-Dichloroethene	10 U	10 U	ND	ND		0/7
1,1-Dichloroethane	10 U	10 U	ND	ND		0/7
1,2-Dichloroethene (total)	10 U	10 U	7	7	36-SW02	1/7
Chloroform	10 U	10 U	ND	ND		0/7
1,2-Dichloroethane	10 U	10 U	ND	ND		0/7
2-Butanone	10 U	10 U	ND	ND		0/7
1,1,1-Trichloroethane	10 U	10 U	ND	ND		0/7
Carbon Tetrachloride	10 U	10 U	ND	ND		0/7
Bromodichloromethane	10 U	10 U	ND	ND		0/7
1,2-Dichloropropane	10 U	10 U	ND	ND		0/7
cis-1,3-Dichloropropene	10 U	10 U	ND	ND		0/7
Trichloroethene	10 U	10 U	ND	ND		0/7
Dibromochloromethane	10 U	10 U	ND	ND		0/7
1,1,2-Trichloroethane	10 U	10 U	ND	ND		0/7
Benzene	10 U	10 U	ND	ND		0/7
trans-1,3-Dichloropropene	10 U	10 U	ND	ND		0/7
Bromoform	10 U	10 U	ND	ND		0/7
4-Methyl-2-Pentanone	10 U	10 U	ND	ND		0/7
2-Hexanone	10 U	10 U	ND	ND		0/7
Tetrachloroethene	10 U	10 U	ND	ND		0/7
1,1,2,2-Tetrachloroethane	10 U	10 U	ND	ND		0/7
Toluene	10 U	10 U	ND	ND		0/7
Chlorobenzene	10 U	10 U	ND	ND		0/7
Ethylbenzene	10 U	10 U	ND	ND		0/7
Styrene	10 U	10 U	ND	ND		0/7
Xylene (total)	10 U	10 U	ND	ND		0/7

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE WATER - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
Phenol	10 UJ	11 UJ	ND	ND		0/7
bis(2-Chloroethyl)ether	10 U	11 U	ND	ND		0/7
2-Chlorophenol	10 U	11 U	ND	ND		0/7
1,3-Dichlorobenzene	10 U	11 U	ND	ND		0/7
1,4-Dichlorobenzene	10 U	11 U	ND	ND		0/7
1,2-Dichlorobenzene	10 U	11 U	ND	ND		0/7
2-Methylphenol	10 U	11 U	ND	ND		0/7
2,2'-oxybis(1-Chloropropane)	10 U	11 U	ND	ND		0/7
4-Methylphenol	10 U	11 U	ND	ND		0/7
N-Nitroso-di-n-propylamine	10 U	11 U	ND	ND		0/7
Hexachloroethane	10 U	11 U	ND	ND		0/7
Nitrobenzene	10 U	11 U	ND	ND		0/7
Isophorone	10 U	11 U	ND	ND		0/7
2-Nitrophenol	10 U	11 U	ND	ND		0/7
2,4-Dimethylphenol	10 U	11 U	ND	ND		0/7
bis(2-Chloroethoxy)methane	10 U	11 U	ND	ND		0/7
2,4-Dichlorophenol	10 U	11 U	ND	ND		0/7
1,2,4-Trichlorobenzene	10 U	11 U	ND	ND		0/7
Naphthalene	10 U	11 U	ND	ND		0/7
4-Chloroaniline	10 U	11 U	ND	ND		0/7
Hexachlorobutadiene	10 U	11 U	ND	ND		0/7
4-Chloro-3-methylphenol	10 U	11 U	ND	ND		0/7
2-Methylnaphthalene	10 U	11 U	ND	ND		0/7
Hexachlorocyclopentadiene	10 U	11 U	ND	ND		0/7
2,4,6-Trichlorophenol	10 U	11 U	ND	ND		0/7
2,4,5-Trichlorophenol	25 U	28 U	ND	ND		0/7
2-Chloronaphthalene	10 U	11 U	ND	ND		0/7
2-Nitroaniline	25 U	28 U	ND	ND		0/7
Dimethylphthalate	10 UJ	11 UJ	ND	ND		0/7
Acenaphthylene	10 U	11 U	ND	ND		0/7
2,6-Dinitrotoluene	10 U	11 U	ND	ND		0/7
3-Nitroaniline	25 U	28 U	ND	ND		0/7
Acenaphthene	10 U	11 U	ND	ND		0/7
2,4-Dinitrophenol	25 UJ	28 UJ	ND	ND		0/7

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE WATER - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont.</b>						
Dibenzofuran	10 U	11 U	ND	ND		0/7
4-Nitrophenol	10 U	11 U	ND	ND		0/7
2,4-Dinitrotoluene	10 U	11 U	ND	ND		0/7
Diethylphthalate	10 U	11 U	ND	ND		0/7
Fluorene	10 U	11 U	ND	ND		0/7
4-Chlorophenyl-phenylether	10 U	11 U	ND	ND		0/7
4-Nitroaniline	25 U	28 U	ND	ND		0/7
4,6-Dinitro-2-methylphenol	25 U	28 U	ND	ND		0/7
N-Nitrosodiphenylamine	10 UJ	11 UJ	ND	ND		0/7
4-Bromophenyl-phenylether	10 U	11 U	ND	ND		0/7
Hexachlorobenzene	10 U	11 U	ND	ND		0/7
Pentachlorophenol	25 U	28 U	ND	ND		0/7
Phenanthrene	10 U	11 U	ND	ND		0/7
Anthracene	10 U	11 U	ND	ND		0/7
Carbazole	10 U	11 U	ND	ND		0/7
Di-n-butylphthalate	10 U	11 U	ND	ND		0/7
Fluoranthene	10 U	11 U	ND	ND		0/7
Pyrene	10 U	11 U	ND	ND		0/7
Butylbenzylphthalate	10 UJ	11 UJ	ND	ND		0/7
Benzo(a)anthracene	10 U	11 U	ND	ND		0/7
3,3'-Dichlorobenzidine	10 U	11 U	ND	ND		0/7
Chrysene	10 U	11 U	ND	ND		0/7
bis(2-Ethylhexyl)phthalate	10 UJ	11 UJ	ND	ND		0/7
Di-n-octylphthalate	10 UJ	11 UJ	ND	ND		0/7
Benzo(b)fluoranthene	10 U	11 U	ND	ND		0/7
Benzo(k)fluoranthene	10 U	11 U	ND	ND		0/7
Benzo(a)pyrene	10 U	11 U	ND	ND		0/7
Indeno(1,2,3-cd)pyrene	10 U	11 U	ND	ND		0/7
Dibenz(a,h)anthracene	10 U	11 U	ND	ND		0/7
Benzo(g,h,i)perylene	10 U	11 U	ND	ND		0/7

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-SW01	36-SW02	36-SW03	36-SW04	36-SW05	36-SW06
DATE SAMPLED	04/19/94	04/19/94	04/19/94	04/19/94	04/19/94	04/19/94
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>TOTAL METALS</b>						
Aluminum	1 U	1 U	2.4	1 U	1.3	1.2 J
Antimony	2 J	1 U	2.8	1.9 J	3.9	1 U
Arsenic	1 U	1 U	1 U	1.3 U	2.4 U	1 U
Barium	12.1	27.3	39.8	22.2 U	19.6 U	18.2 U
Beryllium	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	19500	44400	44300 U	33700	41700	44000
Chromium	1.7 U	1.7 U	5.8 U	3.8 U	1.7 U	1.9 U
Cobalt	24.3 U	9 U	9 U	9 U	9 U	9 U
Copper	56.5	15.8 U	16.5 U	12.3 U	7 U	8 U
Iron	2710 J	2320 J	4840 J	1370 J	967 J	1070 J
Lead	15.9 U	8.5 U	20.9 U	21 U	3.3 U	3.1 U
Magnesium	719 U	1550	7850	6420	17900	13200
Manganese	58.4	91.2	126	12.7 U	31.9	29.5
Mercury	0.14 U	0.11 U	0.22 U	0.33 U	0.17 U	0.35 U
Molybdenum	33 UJ	33 UJ	50 J	35 J	65 J	57 J
Nickel	28.3	31.4	16.4	23.2	10 U	10 U
Potassium	18800	5310	8020	6170	8210	7490
Selenium	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ
Silver	1 U	1 U	1 U	1 U	1 U	1 U
Sodium	330000	99500	82000	95500	192000	136000
Thallium	1 UJ	1 UJ	1 UJ	1.1 J	1 UJ	1 UJ
Vanadium	387	131	79	85	11.2	9
Zinc	55.8 U	38.2 U	55.4 U	42.1 U	28.1 U	14.6 U
Hardness mg/L CaCO3	74	122	130	116	194	180

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-SW07
DATE SAMPLED	04/19/94
UNITS	UG/L

**TOTAL METALS**

Aluminum	1
Antimony	2.4 J
Arsenic	1 U
Barium	18.3 U
Beryllium	1 U
Cadmium	1 U
Calcium	48800
Chromium	2.7 U
Cobalt	9 U
Copper	5.3 U
Iron	1380 J
Lead	2.9 U
Magnesium	9300
Manganese	24.5
Mercury	0.33 U
Molybdenum	46 J
Nickel	10 U
Potassium	5920
Selenium	1 U
Silver	1 U
Sodium	103000
Thallium	1 UJ
Vanadium	4.5
Zinc	16.3 U
Hardness mg/L CaCO3	158



**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TOTAL METALS</b>						
Aluminum	1 U	1 U	1	2.4	36-SW03	4/7
Antimony	1 U	1 U	1.9 J	3.9	36-SW05	5/7
Arsenic	1 U	2.4 U	ND	ND		0/7
Barium	18.2 U	22.2 U	12.1	39.8	36-SW03	3/7
Beryllium	1 U	1 U	ND	ND		0/7
Cadmium	1 U	1 U	ND	ND		0/7
Calcium	44300 U	44300 U	19500	48800	36-SW07	6/7
Chromium	1.7 U	5.8 U	ND	ND		0/7
Cobalt	9 U	24.3 U	ND	ND		0/7
Copper	5.3 U	16.5 U	56.5	56.5	36-SW01	1/7
Iron	NA	NA	967 J	4840 J	36-SW03	7/7
Lead	2.9 U	21 U	ND	ND		0/7
Magnesium	719 U	719 U	1550	17900	36-SW05	6/7
Manganese	12.7 U	12.7 U	24.5	126	36-SW03	6/7
Mercury	0.11 U	0.35 U	ND	ND		0/7
Molybdenum	33 UJ	33 UJ	35 J	65 J	36-SW05	5/7
Nickel	10 U	10 U	16.4	31.4	36-SW02	4/7
Potassium	NA	NA	5310	18800	36-SW01	7/7
Selenium	1 UJ	1 UJ	ND	ND		0/7
Silver	1 U	1 U	ND	ND		0/7
Sodium	NA	NA	82000	330000	36-SW01	7/7
Thallium	1 UJ	1 UJ	1.1 J	1.1 J	36-SW04	1/7
Vanadium	NA	NA	4.5	387	36-SW01	7/7
Zinc	14.6 U	55.8 U	ND	ND		0/7
Hardness mg/L CaCO3	NA	NA	74	194	36-SW05	7/7

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**DISSOLVED INORGANIC ANALYTES**

LOCATION	36-DSW01	36-DSW02	36-DSW03	36-DSW04	36-DSW05	36-DSW06
DATE SAMPLED	05/05/95	05/05/95	05/05/95	05/05/95	05/05/95	05/05/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>DISSOLVED METALS</b>						
ALUMINUM, SOLUBLE	37.9	21.2 U	21.2 U	21.2 U	21.2 U	62
ANTIMONY, SOLUBLE	20.8 U	20.8 U	20.8 U	20.8 U	20.8 U	20.8 U
ARSENIC, SOLUBLE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
BARIUM, SOLUBLE	5.3	19.1	11.7	32.6	25	22.6
BERYLLIUM, SOLUBLE	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
CADMIUM, SOLUBLE	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.7
CALCIUM, SOLUBLE	9470	40300	30200	86400	107000	110000
CHROMIUM, SOLUBLE	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
COBALT, SOLUBLE	4.1	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
COPPER, SOLUBLE	19	4.9	3.4	2.6	4.8	1.8 U
IRON, SOLUBLE	1340	1630	1240	145	29.6 U	23.6 U
LEAD, SOLUBLE	9.8 J	15.6 J	9.1 J	0.8 J	0.8 UJ	0.8 UJ
MAGNESIUM, SOLUBLE	688	1420	1910	187000	271000	271000
MANGANESE, SOLUBLE	83.5	63.6	28.6	50.9	23.8	26.6
MERCURY, SOLUBLE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL, SOLUBLE	29.9	21.2	20.4	10.9 U	10.9 U	10.9 U
POTASSIUM, SOLUBLE	6080 J	4560 J	4090 J	64900 J	94500 J	95900 J
SELENIUM, SOLUBLE	1.8 U	1.8 U	1.8 U	1.8 UJ	9 U	1.8 UJ
SILVER, SOLUBLE	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
SODIUM, SOLUBLE	159000	90100	73400	1570000	2180000	2190000
THALLIUM, SOLUBLE	0.7 U	0.7 U	0.7 U	0.7 UJ	0.7 UJ	0.7 UJ
VANADIUM, SOLUBLE	243	143	81	41.5	5.6	2 U
ZINC, SOLUBLE	32.8	24	14.1	8.5	6 U	6 U

SITE 36, CAMP GEIGER AREA DUMP  
SURFACE WATER - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
DISSOLVED INORGANIC ANALYTES

LOCATION 36-DSW07  
DATE SAMPLED 05/05/95  
UNITS UG/L

**DISSOLVED METALS**

ALUMINUM, SOLUBLE	21.2 U
ANTIMONY, SOLUBLE	20.8 U
ARSENIC, SOLUBLE	1.7 U
BARIIUM, SOLUBLE	22.4
BERYLLIUM, SOLUBLE	0.8 U
CADMIUM, SOLUBLE	2.2
CALCIUM, SOLUBLE	108000
CHROMIUM, SOLUBLE	4.1 U
COBALT, SOLUBLE	3.4 U
COPPER, SOLUBLE	4.3
IRON, SOLUBLE	29.3 U
LEAD, SOLUBLE	0.8 UJ
MAGNESIUM, SOLUBLE	258000
MANGANESE, SOLUBLE	27
MERCURY, SOLUBLE	0.2 U
NICKEL, SOLUBLE	10.9 U
POTASSIUM, SOLUBLE	90900 J
SELENIUM, SOLUBLE	9 U
SILVER, SOLUBLE	2.8 U
SODIUM, SOLUBLE	2050000
THALLIUM, SOLUBLE	0.7 UJ
VANADIUM, SOLUBLE	2 U
ZINC, SOLUBLE	6 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**DISSOLVED INORGANIC ANALYTES**

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>DISSOLVED METALS</b>						
ALUMINUM, SOLUBLE	21.2 U	21.2 U	37.9	62	36-DSW06	2/7
ANTIMONY, SOLUBLE	20.8 U	20.8 U	ND	ND		0/7
ARSENIC, SOLUBLE	1.7 U	1.7 U	ND	ND		0/7
BARIUM, SOLUBLE	NA	NA	5.3	32.6	36-DSW04	7/7
BERYLLIUM, SOLUBLE	0.8 U	0.8 U	ND	ND		0/7
CADMIUM, SOLUBLE	1.9 U	1.9 U	2.2	2.7	36-DSW06	2/7
CALCIUM, SOLUBLE	NA	NA	9470	110000	36-DSW06	7/7
CHROMIUM, SOLUBLE	4.1 U	4.1 U	ND	ND		0/7
COBALT, SOLUBLE	3.4 U	3.4 U	4.1	4.1	36-DSW01	1/7
COPPER, SOLUBLE	1.8 U	1.8 U	2.6	19	36-DSW01	6/7
IRON, SOLUBLE	23.6 U	29.6 U	145	1630	36-DSW02	4/7
LEAD, SOLUBLE	0.8 UJ	0.8 UJ	0.8 J	15.6 J	36-DSW02	4/7
MAGNESIUM, SOLUBLE	NA	NA	688	271000	36-DSW06	7/7
MANGANESE, SOLUBLE	NA	NA	23.8	83.5	36-DSW01	7/7
MERCURY, SOLUBLE	0.2 U	0.2 U	ND	ND		0/7
NICKEL, SOLUBLE	10.9 U	10.9 U	20.4	29.9	36-DSW01	3/7
POTASSIUM, SOLUBLE	NA	NA	4090 J	95900 J	36-DSW06	7/7
SELENIUM, SOLUBLE	1.8 U	9 U	ND	ND		0/7
SILVER, SOLUBLE	2.8 U	2.8 U	ND	ND		0/7
SODIUM, SOLUBLE	NA	NA	73400	2190000	36-DSW06	7/7
THALLIUM, SOLUBLE	0.7 U	0.7 U	ND	ND		0/7
VANADIUM, SOLUBLE	2 U	2 U	5.6	243	36-DSW01	5/7
ZINC, SOLUBLE	6 U	6 U	8.5	32.8	36-DSW01	4/7

**SEDIMENT**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIATION INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SD01-06	36-SD02-06	36-SD02-612	36-SD03-06	36-SD03-612	36-SD04-06
DATE SAMPLED	05/18/94	05/17/94	05/17/94	05/18/94	05/18/94	08/08/95
DEPTH	0-6"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
Chloromethane	16 U	12 U	13 U	29 U	26 U	15 U
Bromomethane	16 U	12 U	13 U	29 U	26 U	15 U
Vinyl Chloride	16 U	12 U	13 U	29 U	26 U	15 U
Chloroethane	16 U	12 U	13 U	29 U	26 U	15 U
Methylene Chloride	16 U	12 U	13 U	29 U	26 U	15 U
Acetone	16 UJ	12 U	13 U	29 UJ	26 UJ	18 U
Carbon Disulfide	67 R	12 U	13 U	103 R	97 R	15 U
1,1-Dichloroethene	16 U	12 U	13 U	29 U	26 U	15 U
1,1-Dichloroethane	16 U	12 U	13 U	29 U	26 U	15 U
1,2-Dichloroethene (total)	16 U	12 U	13 U	29 U	26 U	15 U
Chloroform	16 U	12 U	13 U	29 U	26 U	15 U
1,2-Dichloroethane	16 U	12 U	13 U	29 U	26 U	15 U
2-Butanone	16 U	12 U	13 U	29 U	26 U	15 U
1,1,1-Trichloroethane	16 U	12 U	13 U	29 U	26 U	15 U
Carbon Tetrachloride	16 U	12 U	13 U	29 U	26 U	15 U
Bromodichloromethane	16 U	12 U	13 U	29 U	26 U	15 U
1,2-Dichloropropane	16 U	12 U	13 U	29 U	26 U	15 U
cis-1,3-Dichloropropene	16 U	12 U	13 U	29 U	26 U	15 U
Trichloroethene	16 U	12 U	13 U	29 U	26 U	15 U
Dibromochloromethane	16 U	12 U	13 U	29 U	26 U	15 U
1,1,2-Trichloroethane	16 U	12 U	13 U	29 U	26 U	15 U
Benzene	16 U	12 U	13 U	29 U	26 U	15 U
trans-1,3-Dichloropropene	16 U	12 U	13 U	29 U	26 U	15 U
Bromoform	16 U	12 U	13 U	29 U	26 U	15 U
4-Methyl-2-Pentanone	16 U	12 U	13 U	29 U	26 U	15 U
2-Hexanone	16 U	12 U	13 U	29 U	26 U	15 U
Tetrachloroethene	16 U	12 U	13 U	29 U	26 U	15 U
1,1,2,2-Tetrachloroethane	16 U	12 U	13 U	29 U	26 U	15 U
Toluene	16 U	12 U	13 U	29 U	26 U	15 U
Chlorobenzene	16 U	12 U	13 U	29 U	26 U	15 U
Ethylbenzene	16 U	12 U	13 U	29 U	26 U	15 U
Styrene	16 UJ	12 U	13 U	29 UJ	26 UJ	15 U
Xylene (total)	16 U	12 U	13 U	29 U	26 U	15 U

**SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

LOCATION	36-SD01-06	36-SD02-06	36-SD02-612	36-SD03-06	36-SD03-612	36-SD04-06
DATE SAMPLED	05/18/94	05/17/94	05/17/94	05/18/94	05/18/94	08/08/95
DEPTH	0-6"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
Phenol	532 U	407 U	440 U	956 U	866 U	490 U
bis(2-Chloroethyl)ether	532 UJ	407 UJ	440 UJ	956 UJ	866 UJ	490 U
2-Chlorophenol	532 U	407 U	440 U	956 U	866 U	490 U
1,3-Dichlorobenzene	532 U	407 U	440 U	956 U	866 U	490 U
1,4-Dichlorobenzene	532 U	407 U	440 U	956 U	866 U	490 U
1,2-Dichlorobenzene	532 U	407 U	440 U	956 U	866 U	490 U
2-Methylphenol	532 U	407 U	440 U	956 U	866 U	490 U
2,2'-oxybis(1-Chloropropane)	532 U	407 U	440 U	956 U	866 U	490 U
4-Methylphenol	532 U	407 U	440 U	956 U	866 U	490 U
N-Nitroso-di-n-propylamine	532 U	407 U	440 U	956 U	866 U	490 U
Hexachloroethane	532 U	407 U	440 U	956 U	866 U	490 U
Nitrobenzene	532 U	407 U	440 U	956 U	866 U	490 U
Isophorone	532 UJ	407 UJ	440 UJ	956 UJ	866 UJ	490 U
2-Nitrophenol	532 U	407 U	440 U	956 U	866 U	490 U
2,4-Dimethylphenol	532 U	407 U	440 U	956 U	866 U	490 U
bis(2-Chloroethoxy)methane	532 U	407 U	440 U	956 U	866 U	490 U
2,4-Dichlorophenol	532 U	407 U	440 U	956 U	866 U	490 U
1,2,4-Trichlorobenzene	532 U	407 U	440 U	956 U	866 U	490 U
Naphthalene	532 U	407 U	440 U	956 U	866 U	490 U
4-Chloroaniline	532 UJ	407 UJ	440 UJ	956 UJ	866 UJ	490 U
Hexachlorobutadiene	532 U	407 U	440 U	956 U	866 U	490 U
4-Chloro-3-methylphenol	532 U	407 U	440 U	956 U	866 U	490 U
2-Methylnaphthalene	532 U	407 U	440 U	956 U	866 U	490 U
Hexachlorocyclopentadiene	532 U	407 U	440 U	956 U	866 U	490 U
2,4,6-Trichlorophenol	532 U	407 U	440 U	956 U	866 U	490 U
2,4,5-Trichlorophenol	1290 U	988 U	1067 U	2319 U	2100 U	1200 U
2-Chloronaphthalene	532 U	407 U	440 U	956 U	866 U	490 U
2-Nitroaniline	1290 U	988 U	1067 U	2319 U	2100 U	1200 U
Dimethylphthalate	532 U	407 U	440 U	956 U	866 U	490 U
Acenaphthylene	532 U	407 U	440 U	956 U	866 U	490 U
2,6-Dinitrotoluene	532 UJ	407 UJ	440 UJ	956 UJ	866 UJ	490 U
3-Nitroaniline	1290 UJ	988 UJ	1067 UJ	2319 UJ	2100 UJ	1200 U
Acenaphthene	532 U	407 U	440 U	956 U	866 U	490 U
2,4-Dinitrophenol	1290 U	988 U	1067 U	2319 UJ	2100 UJ	1200 U
Dibenzofuran	532 U	407 U	440 U	956 U	866 U	490 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SD01-06	36-SD02-06	36-SD02-612	36-SD03-06	36-SD03-612	36-SD04-06
DATE SAMPLED	05/18/94	05/17/94	05/17/94	05/18/94	05/18/94	08/08/95
DEPTH	0-6"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
4-Nitrophenol	532 UJ	407 UJ	440 UJ	956 UJ	866 UJ	1200 U
2,4-Dinitrotoluene	532 U	407 U	440 U	956 U	866 U	490 U
Diethylphthalate	532 U	330 J	440 U	956 U	896	490 U
Fluorene	532 U	407 U	440 U	956 U	866 U	490 U
4-Chlorophenyl-phenylether	532 U	407 U	440 U	956 U	866 U	490 U
4-Nitroaniline	1290 U	988 U	1067 U	2319 UJ	2100 UJ	1200 U
4,6-Dinitro-2-methylphenol	1290 U	988 U	1067 U	2319 U	2100 U	1200 U
N-Nitrosodiphenylamine	532 U	407 U	440 U	956 U	866 U	490 U
4-Bromophenyl-phenylether	532 U	407 U	440 U	956 U	866 U	490 U
Hexachlorobenzene	532 U	407 U	440 U	956 U	866 U	490 U
Pentachlorophenol	1290 U	988 U	1067 U	2319 U	2100 U	1200 U
Phenanthrene	532 U	407 U	440 U	956 U	866 U	490 U
Anthracene	532 U	407 U	440 U	956 U	866 U	490 U
Carbazole	532 U	407 U	440 U	956 U	866 U	490 U
Di-n-butylphthalate	532 U	407 U	440 U	956 U	866 U	490 U
Fluoranthene	532 U	407 U	440 U	956 U	866 U	490 U
Pyrene	532 U	407 U	316 J	956 U	866 U	490 U
Butylbenzylphthalate	532 U	407 U	440 U	956 U	866 U	490 U
Benzo(a)anthracene	532 U	407 U	440 U	956 U	866 U	490 U
3,3'-Dichlorobenzidine	532 U	407 U	440 U	956 UJ	866 UJ	490 U
Chrysene	532 U	407 U	440 U	956 U	866 U	490 U
bis(2-Ethylhexyl)phthalate	532 U	242 J	328 J	956 UJ	866 UJ	490 U
Di-n-octylphthalate	532 U	407 U	440 UJ	956 U	866 U	490 U
Benzo(b)fluoranthene	532 U	407 U	440 UJ	956 U	866 U	490 U
Benzo(k)fluoranthene	532 U	407 U	440 UJ	956 U	866 U	490 U
Benzo(a)pyrene	532 U	407 U	440 UJ	956 U	866 U	490 U
Indeno(1,2,3-cd)pyrene	532 U	407 U	440 UJ	956 U	866 U	490 U
Dibenz(a,h)anthracene	532 U	407 U	440 UJ	956 U	866 U	490 U
Benzo(g,h,i)perylene	532 U	407 U	440 UJ	956 U	866 U	490 U



**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SD01-06	36-SD02-06	36-SD02-612	36-SD03-06	36-SD03-612	36-SD04-06
DATE SAMPLED	05/18/94	05/17/94	05/17/94	05/18/94	05/18/94	08/08/95
DEPTH	0-6"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
alpha-BHC	2.7 U	21 U	11 U	25 U	45 U	2.5 U
beta-BHC	2.7 U	21 U	11 U	25 U	45 U	2.5 U
delta-BHC	2.7 U	21 U	11 U	25 U	45 U	2.5 U
gamma-BHC (Lindane)	2.7 U	21 U	11 U	25 U	45 U	2.5 U
Heptachlor	2.7 U	21 U	11 U	25 U	45 U	2.5 U
Aldrin	0.93 J	21 U	11 U	25 U	45 U	2.5 U
Heptachlor epoxide	2.7 U	21 U	11 U	25 U	45 U	2.5 U
Endosulfan I	2.7 U	21 U	11 U	25 U	45 U	2.5 U
Dieldrin	0.8 J	41 U	22 U	48 U	87 U	4.9 U
4,4'-DDE	5.3 U	66 J	22 U	169	87 U	120 J
Endrin	2.7 U	21 U	6.6 J	25 U	45 U	4.9 U
Endosulfan II	5.3 U	41 U	22 U	48 U	87 U	4.9 U
4,4'-DDD	15	130	14 P	606	1030	250
Endosulfan sulfate	5.3 U	41 U	3 J	48 U	87 U	4.9 U
4,4'-DDT	5.3 U	8.5 J	7.4 J	18 J	11 J	3 J
Methoxychlor	27 U	210 U	113 U	246 U	446 U	25 U
Endrin ketone	5.3 U	41 U	22 U	11 J	87 U	4.9 U
Endrin aldehyde	5.3 U	41 U	3.5 J	48 U	87 U	4.9 U
alpha-Chlordane	2.7 U	21 U	11 U	25 U	45 U	2.5 U
gamma-Chlordane	2.7 U	21 U	11 U	25 U	45 U	2.5 U
Toxaphene	274 U	2100 U	1130 U	2460 U	4460 U	250 U
Aroclor-1016	53 U	408 U	220 U	478 U	866 U	49 U
Aroclor-1221	108 U	829 U	447 U	971 U	1760 U	98 U
Aroclor-1232	53 U	408 U	220 U	478 U	866 U	49 U
Aroclor-1242	53 U	408 U	220 U	478 U	866 U	49 U
Aroclor-1248	53 U	408 U	220 U	478 U	866 U	49 U
Aroclor-1254	53 U	408 U	220 U	478 U	866 U	49 U
Aroclor-1260	53 U	408 U	220 U	478 U	866 U	49 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SD04-612	36-SD05-06	36-SD05-612	36-SD06-06	36-SD06-612	36-SD07-06
DATE SAMPLED	08/08/95	05/18/94	05/18/94	05/18/94	05/18/94	05/18/94
DEPTH	6-12"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
Chloromethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Bromomethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Vinyl Chloride	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Chloroethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Methylene Chloride	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Acetone	28 U	53 UJ	17 U	11 UJ	12 UJ	11 U
Carbon Disulfide	14 U	146 R	17 U	35 R	12 UJ	11 U
1,1-Dichloroethene	14 U	53 UJ	17 U	11 U	12 UJ	11 U
1,1-Dichloroethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
1,2-Dichloroethene (total)	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Chloroform	14 U	53 UJ	17 U	11 U	12 UJ	11 U
1,2-Dichloroethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
2-Butanone	14 U	53 UJ	17 U	11 U	12 UJ	11 U
1,1,1-Trichloroethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Carbon Tetrachloride	14 U	53 UJ	17 UJ	11 U	12 UJ	11 UJ
Bromodichloromethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
1,2-Dichloropropane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
cis-1,3-Dichloropropene	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Trichloroethene	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Dibromochloromethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
1,1,2-Trichloroethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Benzene	14 U	53 UJ	17 U	11 U	12 UJ	11 U
trans-1,3-Dichloropropene	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Bromoform	14 U	53 UJ	17 U	11 U	12 UJ	11 U
4-Methyl-2-Pentanone	14 U	53 UJ	17 U	11 U	12 UJ	11 U
2-Hexanone	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Tetrachloroethene	4 J	53 UJ	17 U	11 U	12 UJ	11 U
1,1,2,2-Tetrachloroethane	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Toluene	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Chlorobenzene	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Ethylbenzene	14 U	53 UJ	17 U	11 U	12 UJ	11 U
Styrene	14 U	53 UJ	17 U	11 UJ	12 UJ	11 U
Xylene (total)	14 U	53 UJ	17 U	11 U	12 UJ	11 U

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-SD04-612	36-SD05-06	36-SD05-612	36-SD06-06	36-SD06-612	36-SD07-06
DATE SAMPLED	08/08/95	05/18/94	05/18/94	05/18/94	05/18/94	05/18/94
DEPTH	6-12"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
Phenol	460 U	1737 U	1650 U	425 U	411 U	2640 U
bis(2-Chloroethyl)ether	460 U	1737 UJ	1650 UJ	425 UJ	411 UJ	2640 UJ
2-Chlorophenol	460 U	1737 U	1650 U	425 U	411 U	2640 U
1,3-Dichlorobenzene	460 U	1737 U	1650 U	425 U	411 U	2640 U
1,4-Dichlorobenzene	460 U	1737 U	1650 U	425 U	411 U	2640 U
1,2-Dichlorobenzene	460 U	1737 U	1650 U	425 U	411 U	2640 U
2-Methylphenol	460 U	1737 U	1650 U	425 U	411 U	2640 U
2,2'-oxybis(1-Chloropropane)	460 U	1737 U	1650 U	425 U	411 U	2640 U
4-Methylphenol	460 U	1737 U	1650 U	425 U	411 U	2640 U
N-Nitroso-di-n-propylamine	460 U	1737 U	1650 U	425 U	411 U	2640 U
Hexachloroethane	460 U	1737 U	1650 U	425 U	411 U	2640 U
Nitrobenzene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Isophorone	460 U	1737 UJ	1650 UJ	425 UJ	411 UJ	2640 UJ
2-Nitrophenol	460 U	1737 U	1650 U	425 U	411 U	2640 U
2,4-Dimethylphenol	460 U	1737 U	1650 U	425 U	411 U	2640 U
bis(2-Chloroethoxy)methane	460 U	1737 U	1650 U	425 U	411 U	2640 U
2,4-Dichlorophenol	460 U	1737 U	1650 U	425 U	411 U	2640 U
1,2,4-Trichlorobenzene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Naphthalene	460 U	1737 U	1650 U	425 U	411 U	2640 U
4-Chloroaniline	460 U	1737 UJ	1650 UJ	425 UJ	411 UJ	2640 UJ
Hexachlorobutadiene	460 U	1737 U	1650 U	425 U	411 U	2640 U
4-Chloro-3-methylphenol	460 U	1737 U	1650 U	425 U	411 U	2640 U
2-Methylnaphthalene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Hexachlorocyclopentadiene	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
2,4,6-Trichlorophenol	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
2,4,5-Trichlorophenol	1100 U	4210 U	4000 U	1030 UJ	996 U	6400 U
2-Chloronaphthalene	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
2-Nitroaniline	1100 U	4210 U	4000 U	1030 UJ	996 U	6400 U
Dimethylphthalate	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
Acenaphthylene	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
2,6-Dinitrotoluene	460 U	1737 UJ	1650 UJ	425 UJ	411 UJ	2640 UJ
3-Nitroaniline	1100 U	4210 UJ	4000 UJ	1030 UJ	996 UJ	6400 UJ
Acenaphthene	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
2,4-Dinitrophenol	1100 U	4210 UJ	4000 UJ	1030 UJ	996 UJ	6400 UJ
Dibenzofuran	460 U	1737 U	1650 U	425 UJ	411 U	2640 U

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-SD04-612	36-SD05-06	36-SD05-612	36-SD06-06	36-SD06-612	36-SD07-06
DATE SAMPLED	08/08/95	05/18/94	05/18/94	05/18/94	05/18/94	05/18/94
DEPTH	6-12"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
4-Nitrophenol	1100 U	1737 UJ	1650 UJ	425 UJ	411 UJ	2640 UJ
2,4-Dinitrotoluene	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
Diethylphthalate	460 U	2135 J	1650 U	425 UJ	411 U	2640 U
Fluorene	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
4-Chlorophenyl-phenylether	460 U	1737 U	1650 U	425 UJ	411 U	2640 U
4-Nitroaniline	1100 U	4210 UJ	4000 UJ	1030 UJ	996 UJ	6400 UJ
4,6-Dinitro-2-methylphenol	1100 U	4210 UJ	4000 U	1030 UJ	996 U	6400 U
N-Nitrosodiphenylamine	460 U	1737 UJ	1650 U	425 UJ	411 U	2640 U
4-Bromophenyl-phenylether	460 U	1737 UJ	1650 U	425 UJ	411 U	2640 U
Hexachlorobenzene	460 U	1737 UJ	1650 U	425 UJ	411 U	2640 U
Pentachlorophenol	1100 U	4210 UJ	4000 U	1030 UJ	996 U	6400 U
Phenanthrene	460 U	1737 UJ	1650 U	425 UJ	411 U	2640 U
Anthracene	46 J	1737 UJ	1650 U	425 UJ	411 U	2640 U
Carbazole	460 U	1737 UJ	1650 U	425 UJ	411 U	2640 U
Di-n-butylphthalate	460 U	1737 UJ	1650 U	425 UJ	218 J	2640 U
Fluoranthene	460 U	1737 UJ	1650 U	425 UJ	411 U	2640 U
Pyrene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Butylbenzylphthalate	460 U	1737 U	1650 U	425 U	411 U	2640 U
Benzo(a)anthracene	460 U	1737 U	1650 U	425 U	411 U	2640 U
3,3'-Dichlorobenzidine	460 U	1737 UJ	1650 UJ	425 UJ	411 UJ	2640 UJ
Chrysene	460 U	1737 U	1650 U	425 U	411 U	2640 U
bis(2-Ethylhexyl)phthalate	460 U	1737 UJ	1650 UJ	425 UJ	411 UJ	2640 UJ
Di-n-octylphthalate	460 U	1737 U	1650 U	425 U	411 U	2640 U
Benzo(b)fluoranthene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Benzo(k)fluoranthene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Benzo(a)pyrene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Indeno(1,2,3-cd)pyrene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Dibenz(a,h)anthracene	460 U	1737 U	1650 U	425 U	411 U	2640 U
Benzo(g,h,i)perylene	460 U	1737 U	1650 U	425 U	411 U	2640 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SD04-612	36-SD05-06	36-SD05-612	36-SD06-06	36-SD06-612	36-SD07-06
DATE SAMPLED	08/08/95	05/18/94	05/18/94	05/18/94	05/18/94	05/18/94
DEPTH	6-12"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
alpha-BHC	23 U	8.9 U	120 U	24 U	24 U	25 U
beta-BHC	23 U	8.9 U	120 U	24 U	24 U	25 U
delta-BHC	23 U	8.9 U	120 U	24 U	24 U	25 U
gamma-BHC (Lindane)	23 U	8.9 U	120 U	24 U	24 U	25 U
Heptachlor	23 U	8.9 U	120 U	24 U	24 U	25 U
Aldrin	23 UJ	8.9 U	120 U	24 U	24 U	25 U
Heptachlor epoxide	23 U	8.9 U	120 U	24 U	24 U	25 U
Endosulfan I	23 U	8.9 U	120 U	24 U	24 U	25 U
Dieldrin	45 U	17 U	232 U	52	46 U	48 U
4,4'-DDE	1000 UJ	242 J	1200	249	179	51
Endrin	45 U	8.9 U	120 U	24 U	24 U	25 U
Endosulfan II	45 U	17 U	232 U	47 U	46 U	48 U
4,4'-DDD	3600 UJ	223 J	1140	221	159	74
Endosulfan sulfate	45 U	17 U	232 U	47 U	46 U	48 U
4,4'-DDT	27 J	31 J	46 J	14 J	8 J	48 U
Methoxychlor	230 U	90 U	1200 U	240 U	239 U	246 U
Endrin ketone	45 U	17 U	232 U	47 U	46 U	48 U
Endrin aldehyde	45 U	7.6 J	232 U	47 U	46 U	48 U
alpha-Chlordane	23 U	8.9 U	120 U	24 U	24 U	13 J
gamma-Chlordane	23 U	8.9 U	120 U	24 U	24 U	25 U
Toxaphene	2300 U	895 U	12000 U	2430 U	2390 U	2460 U
Aroclor-1016	450 U	174 U	2320 U	471 U	465 U	478 U
Aroclor-1221	900 U	353 U	4720 U	957 U	944 U	971 U
Aroclor-1232	450 U	174 U	2320 U	471 U	465 U	478 U
Aroclor-1242	450 U	174 U	2320 U	471 U	465 U	478 U
Aroclor-1248	450 U	174 U	2320 U	471 U	465 U	478 U
Aroclor-1254	450 U	174 U	2320 U	471 U	465 U	478 U
Aroclor-1260	450 U	174 U	2320 U	471 U	465 U	478 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SD07-612
DATE SAMPLED	05/18/94
DEPTH	6-12"
UNITS	UG/KG

**VOLATILES**

Chloromethane	45 U
Bromomethane	45 U
Vinyl Chloride	45 U
Chloroethane	45 U
Methylene Chloride	45 U
Acetone	45 UJ
Carbon Disulfide	156 R
1,1-Dichloroethene	45 U
1,1-Dichloroethane	45 U
1,2-Dichloroethene (total)	45 U
Chloroform	45 U
1,2-Dichloroethane	45 U
2-Butanone	45 U
1,1,1-Trichloroethane	45 U
Carbon Tetrachloride	45 U
Bromodichloromethane	45 U
1,2-Dichloropropane	45 U
cis-1,3-Dichloropropene	45 U
Trichloroethene	45 U
Dibromochloromethane	45 U
1,1,2-Trichloroethane	45 U
Benzene	45 U
trans-1,3-Dichloropropene	45 U
Bromoform	45 U
4-Methyl-2-Pentanone	45 U
2-Hexanone	45 U
Tetrachloroethene	45 U
1,1,2,2-Tetrachloroethane	45 U
Toluene	45 U
Chlorobenzene	45 U
Ethylbenzene	45 U
Styrene	45 UJ
Xylene (total)	45 U

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-SD07-612
DATE SAMPLED	05/18/94
DEPTH	6-12"
UNITS	UG/KG

SEMIVOLATILES

Phenol	1480 U
bis(2-Chloroethyl)ether	1480 UJ
2-Chlorophenol	1480 U
1,3-Dichlorobenzene	1480 U
1,4-Dichlorobenzene	1480 U
1,2-Dichlorobenzene	1480 U
2-Methylphenol	1480 U
2,2'-oxybis(1-Chloropropane)	1480 U
4-Methylphenol	1480 U
N-Nitroso-di-n-propylamine	1480 U
Hexachloroethane	1480 U
Nitrobenzene	1480 U
Isophorone	1480 UJ
2-Nitrophenol	1480 U
2,4-Dimethylphenol	1480 U
bis(2-Chloroethoxy)methane	1480 U
2,4-Dichlorophenol	1480 U
1,2,4-Trichlorobenzene	1480 U
Naphthalene	1480 U
4-Chloroaniline	1480 UJ
Hexachlorobutadiene	1480 U
4-Chloro-3-methylphenol	1480 U
2-Methylnaphthalene	1480 U
Hexachlorocyclopentadiene	1480 U
2,4,6-Trichlorophenol	1480 U
2,4,5-Trichlorophenol	3587 U
2-Chloronaphthalene	1480 U
2-Nitroaniline	3587 U
Dimethylphthalate	1480 U
Acenaphthylene	1480 U
2,6-Dinitrotoluene	1480 UJ
3-Nitroaniline	3587 UJ
Acenaphthene	1480 U
2,4-Dinitrophenol	3587 UJ
Dibenzofuran	1480 U

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-SD07-612
DATE SAMPLED	05/18/94
DEPTH	6-12"
UNITS	UG/KG

SEMIVOLATILES cont.

4-Nitrophenol	1480 UJ
2,4-Dinitrotoluene	1480 U
Diethylphthalate	1480 U
Fluorene	1480 U
4-Chlorophenyl-phenylether	1480 U
4-Nitroaniline	3587 UJ
4,6-Dinitro-2-methylphenol	3587 U
N-Nitrosodiphenylamine	1480 U
4-Bromophenyl-phenylether	1480 U
Hexachlorobenzene	1480 U
Pentachlorophenol	3587 U
Phenanthrene	1480 U
Anthracene	1480 U
Carbazole	1480 U
Di-n-butylphthalate	1480 U
Fluoranthene	1480 U
Pyrene	1480 U
Butylbenzylphthalate	1480 U
Benzo(a)anthracene	1480 U
3,3'-Dichlorobenzidine	1480 UJ
Chrysene	1480 U
bis(2-Ethylhexyl)phthalate	1480 UJ
Di-n-octylphthalate	1480 U
Benzo(b)fluoranthene	1480 U
Benzo(k)fluoranthene	1480 U
Benzo(a)pyrene	1480 U
Indeno(1,2,3-cd)pyrene	1480 U
Dibenz(a,h)anthracene	1480 U
Benzo(g,h,i)perylene	1480 U



**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SD07-612
DATE SAMPLED	05/18/94
DEPTH	6-12"
UNITS	UG/KG

**PESTICIDES/PCBs**

alpha-BHC	24 U
beta-BHC	24 U
delta-BHC	24 U
gamma-BHC (Lindane)	24 U
Heptachlor	24 U
Aldrin	24 U
Heptachlor epoxide	24 U
Endosulfan I	24 U
Dieldrin	14 J
4,4'-DDE	32 J
Endrin	24 U
Endosulfan II	47 U
4,4'-DDD	41
Endosulfan sulfate	47 U
4,4'-DDT	5.7 J
Methoxychlor	243 U
Endrin ketone	47 U
Endrin aldehyde	47 U
alpha-Chlordane	6.5 J
gamma-Chlordane	24 U
Toxaphene	2430 U
Aroclor-1016	471 U
Aroclor-1221	957 U
Aroclor-1232	471 U
Aroclor-1242	471 U
Aroclor-1248	471 U
Aroclor-1254	471 U
Aroclor-1260	471 U

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
Chloromethane	11 U	53 UJ	ND	ND		0/13
Bromomethane	11 U	53 UJ	ND	ND		0/13
Vinyl Chloride	11 U	53 UJ	ND	ND		0/13
Chloroethane	11 U	53 UJ	ND	ND		0/13
Methylene Chloride	11 U	53 UJ	ND	ND		0/13
Acetone	11 UJ	53 UJ	ND	ND		0/13
Carbon Disulfide	11 U	17 U	ND	ND		0/7
1,1-Dichloroethene	11 U	53 UJ	ND	ND		0/13
1,1-Dichloroethane	11 U	53 UJ	ND	ND		0/13
1,2-Dichloroethene (total)	11 U	53 UJ	ND	ND		0/13
Chloroform	11 U	53 UJ	ND	ND		0/13
1,2-Dichloroethane	11 U	53 UJ	ND	ND		0/13
2-Butanone	11 U	53 UJ	ND	ND		0/13
1,1,1-Trichloroethane	11 U	53 UJ	ND	ND		0/13
Carbon Tetrachloride	11 U	53 UJ	ND	ND		0/13
Bromodichloromethane	11 U	53 UJ	ND	ND		0/13
1,2-Dichloropropane	11 U	53 UJ	ND	ND		0/13
cis-1,3-Dichloropropene	11 U	53 UJ	ND	ND		0/13
Trichloroethene	11 U	53 UJ	ND	ND		0/13
Dibromochloromethane	11 U	53 UJ	ND	ND		0/13
1,1,2-Trichloroethane	11 U	53 UJ	ND	ND		0/13
Benzene	11 U	53 UJ	ND	ND		0/13
trans-1,3-Dichloropropene	11 U	53 UJ	ND	ND		0/13
Bromoform	11 U	53 UJ	ND	ND		0/13
4-Methyl-2-Pentanone	11 U	53 UJ	ND	ND		0/13
2-Hexanone	11 U	53 UJ	ND	ND		0/13
Tetrachloroethene	11 U	53 UJ	4 J	4 J	36-SD04-612	1/13
1,1,2,2-Tetrachloroethane	11 U	53 UJ	ND	ND		0/13
Toluene	11 U	53 UJ	ND	ND		0/13
Chlorobenzene	11 U	53 UJ	ND	ND		0/13
Ethylbenzene	11 U	53 UJ	ND	ND		0/13
Styrene	11 UJ	53 UJ	ND	ND		0/13
Xylene (total)	11 U	53 UJ	ND	ND		0/13

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
Phenol	407 U	2640 U	ND	ND		0/13
bis(2-Chloroethyl)ether	407 UJ	2640 UJ	ND	ND		0/13
2-Chlorophenol	407 U	2640 U	ND	ND		0/13
1,3-Dichlorobenzene	407 U	2640 U	ND	ND		0/13
1,4-Dichlorobenzene	407 U	2640 U	ND	ND		0/13
1,2-Dichlorobenzene	407 U	2640 U	ND	ND		0/13
2-Methylphenol	407 U	2640 U	ND	ND		0/13
2,2'-oxybis(1-Chloropropane)	407 U	2640 U	ND	ND		0/13
4-Methylphenol	407 U	2640 U	ND	ND		0/13
N-Nitroso-di-n-propylamine	407 U	2640 U	ND	ND		0/13
Hexachloroethane	407 U	2640 U	ND	ND		0/13
Nitrobenzene	407 U	2640 U	ND	ND		0/13
Isophorone	407 UJ	2640 UJ	ND	ND		0/13
2-Nitrophenol	407 U	2640 U	ND	ND		0/13
2,4-Dimethylphenol	407 U	2640 U	ND	ND		0/13
bis(2-Chloroethoxy)methane	407 U	2640 U	ND	ND		0/13
2,4-Dichlorophenol	407 U	2640 U	ND	ND		0/13
1,2,4-Trichlorobenzene	407 U	2640 U	ND	ND		0/13
Naphthalene	407 U	2640 U	ND	ND		0/13
4-Chloroaniline	407 UJ	2640 UJ	ND	ND		0/13
Hexachlorobutadiene	407 U	2640 U	ND	ND		0/13
4-Chloro-3-methylphenol	407 U	2640 U	ND	ND		0/13
2-Methylnaphthalene	407 U	2640 U	ND	ND		0/13
Hexachlorocyclopentadiene	407 U	2640 U	ND	ND		0/13
2,4,6-Trichlorophenol	407 U	2640 U	ND	ND		0/13
2,4,5-Trichlorophenol	988 U	6400 U	ND	ND		0/13
2-Chloronaphthalene	407 U	2640 U	ND	ND		0/13
2-Nitroaniline	988 U	6400 U	ND	ND		0/13
Dimethylphthalate	407 U	2640 U	ND	ND		0/13
Acenaphthylene	407 U	2640 U	ND	ND		0/13
2,6-Dinitrotoluene	407 UJ	2640 UJ	ND	ND		0/13
3-Nitroaniline	988 UJ	6400 UJ	ND	ND		0/13
Acenaphthene	407 U	2640 U	ND	ND		0/13
2,4-Dinitrophenol	988 U	6400 UJ	ND	ND		0/13
Dibenzofuran	407 U	2640 U	ND	ND		0/13

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont.</b>						
4-Nitrophenol	407 UJ	2640 UJ	ND	ND		0/13
2,4-Dinitrotoluene	407 U	2640 U	ND	ND		0/13
Diethylphthalate	411 U	2640 U	330 J	2135 J	36-SD05-06	3/13
Fluorene	407 U	2640 U	ND	ND		0/13
4-Chlorophenyl-phenylether	407 U	2640 U	ND	ND		0/13
4-Nitroaniline	988 U	6400 UJ	ND	ND		0/13
4,6-Dinitro-2-methylphenol	988 U	6400 U	ND	ND		0/13
N-Nitrosodiphenylamine	407 U	2640 U	ND	ND		0/13
4-Bromophenyl-phenylether	407 U	2640 U	ND	ND		0/13
Hexachlorobenzene	407 U	2640 U	ND	ND		0/13
Pentachlorophenol	988 U	6400 U	ND	ND		0/13
Phenanthrene	407 U	2640 U	ND	ND		0/13
Anthracene	407 U	2640 U	46 J	46 J	36-SD04-612	1/13
Carbazole	407 U	2640 U	ND	ND		0/13
Di-n-butylphthalate	407 U	2640 U	218 J	218 J	36-SD06-612	1/13
Fluoranthene	407 U	2640 U	ND	ND		0/13
Pyrene	407 U	2640 U	316 J	316 J	36-SD02-612	1/13
Butylbenzylphthalate	407 U	2640 U	ND	ND		0/13
Benzo(a)anthracene	407 U	2640 U	ND	ND		0/13
3,3'-Dichlorobenzidine	407 U	2640 UJ	ND	ND		0/13
Chrysene	407 U	2640 U	ND	ND		0/13
bis(2-Ethylhexyl)phthalate	411 UJ	2640 UJ	242 J	328 J	36-SD02-612	2/13
Di-n-octylphthalate	407 U	2640 U	ND	ND		0/13
Benzo(b)fluoranthene	407 U	2640 U	ND	ND		0/13
Benzo(k)fluoranthene	407 U	2640 U	ND	ND		0/13
Benzo(a)pyrene	407 U	2640 U	ND	ND		0/13
Indeno(1,2,3-cd)pyrene	407 U	2640 U	ND	ND		0/13
Dibenz(a,h)anthracene	407 U	2640 U	ND	ND		0/13
Benzo(g,h,i)perylene	407 U	2640 U	ND	ND		0/13

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>PESTICIDES/PCBs</b>						
alpha-BHC	2.5 U	120 U	ND	ND		0/13
beta-BHC	2.5 U	120 U	ND	ND		0/13
delta-BHC	2.5 U	120 U	ND	ND		0/13
gamma-BHC (Lindane)	2.5 U	120 U	ND	ND		0/13
Heptachlor	2.5 U	120 U	ND	ND		0/13
Aldrin	2.5 UJ	120 U	0.93 J	0.93 J	36-SD01-06	1/13
Heptachlor epoxide	2.5 U	120 U	ND	ND		0/13
Endosulfan I	2.5 U	120 U	ND	ND		0/13
Dieldrin	4.9 U	232 U	0.8 J	52	36-SD06-06	3/13
4,4'-DDE	5.3 U	1000 UJ	32 J	1200	36-SD05-612	9/13
Endrin	2.7 U	120 U	6.6 J	6.6 J	36-SD02-612	1/13
Endosulfan II	4.9 U	232 U	ND	ND		0/13
4,4'-DDD	3600 UJ	3600 UJ	14 P	1140	36-SD05-612	12/13
Endosulfan sulfate	4.9 U	232 U	3 J	3 J	36-SD02-612	1/13
4,4'-DDT	5.3 U	48 U	3 J	46 J	36-SD05-612	11/13
Methoxychlor	25 U	1200 U	ND	ND		0/13
Endrin ketone	4.9 U	232 U	11 J	11 J	36-SD03-06	1/13
Endrin aldehyde	4.9 U	232 U	3.5 J	7.6 J	36-SD05-06	2/13
alpha-Chlordane	2.5 U	120 U	6.5 J	13 J	36-SD07-06	2/13
gamma-Chlordane	2.5 U	120 U	ND	ND		0/13
Toxaphene	250 U	12000 U	ND	ND		0/13
Aroclor-1016	49 U	2320 U	ND	ND		0/13
Aroclor-1221	98 U	4720 U	ND	ND		0/13
Aroclor-1232	49 U	2320 U	ND	ND		0/13
Aroclor-1242	49 U	2320 U	ND	ND		0/13
Aroclor-1248	49 U	2320 U	ND	ND		0/13
Aroclor-1254	49 U	2320 U	ND	ND		0/13
Aroclor-1260	49 U	2320 U	ND	ND		0/13

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-SD01-06	36-SD02-06	36-SD02-612	36-SD03-06	36-SD03-612	36-SD04-06
DATE SAMPLED	05/18/94	05/17/94	05/17/94	05/18/94	05/18/94	08/08/95
DEPTH	0-6"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
Aluminum	26300	3720	4320	6080	9510	1890 J
Antimony	7.4 UJ	5.7 UJ	6.1 UJ	13.3 UJ	12.1 UJ	4.1 UJ
Arsenic	1.6 R	0.99 J	2.1 J	2 J	1.4 J	0.71
Barium	79.1	11	28.5	24.3	43.8	6.2
Beryllium	1.3	0.12 U	0.13 U	0.81	0.26 U	0.07 U
Cadmium	0.08 U	0.28 U	8.7	0.86 U	0.25 U	0.83 U
Calcium	4150 J	1150 J	13600 J	3530 J	5710 J	995
Chromium	16.9	7.3	23.3	12.2	9.1	4.6 U
Cobalt	6.3	1.4 U	1.5 U	3.2 U	2.9 U	0.25 U
Copper	5.4	3.2	17.7	45.1	9.9	7.4
Iron	3140	4120	4040	8530	3730	2720
Lead	28.5	17.9 J	148	86.7	23.4	36.3
Magnesium	583	151	487	1230 B	1240	464
Manganese	8	4.7	12.4	35.4	47.5	16.6
Mercury	0.4 R	0.27 R	0.35 R	1.1 R	1.1 R	0.1 U
Nickel	21.4	1.4 U	3.1	77.1	8.5	2.2
Potassium	1010	302 U	325 U	707 U	839	193
Selenium	0.5 U	0.28 U	0.28 U	0.81 U	0.52 U	0.34 U
Silver	0.48 U	0.37 U	0.4 U	0.87 U	0.79 U	0.54 U
Sodium	487	293 U	316 U	985	1130	665
Thallium	0.42	0.19	0.2	0.32	0.26 U	0.34 U
Vanadium	56.8	19	10.8	314	17.7	12.1
Zinc	28 R	21.7 R	140	142 R	53.6 R	34.6 J

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-SD04-612	36-SD05-06	36-SD05-612	36-SD06-06	36-SD06-612	36-SD07-06
DATE SAMPLED	08/08/95	05/18/94	05/18/94	05/18/94	05/18/94	05/18/94
DEPTH	6-12"	0-6"	6-12"	0-6"	6-12"	0-6"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
Aluminum	9200 J	11100	17200	2150	1560	31500
Antimony	4.4 UJ	24.2 UJ	22.8 UJ	5.9 UJ	5.7 UJ	36.8 UJ
Arsenic	2.2	9 R	2.8 J	0.67 J	0.7 J	2 J
Barium	24.1	25.7	31.6	3.4	2.4	60.9
Beryllium	0.16	0.53 U	0.5 U	0.13 U	0.12 U	1.1
Cadmium	1.4	0.88 U	0.2 U	0.05 U	0.04 U	0.31 U
Calcium	5140	5670 J	8340 J	301 J	212 U	17500 J
Chromium	20.3	19.4	14.6	3.1	2.4	28.6
Cobalt	1.1 U	5.8 U	5.4 U	1.4	1.4 U	8.8 U
Copper	20.2	24.4	6.8	4.4	3.4	14.4
Iron	9560	14900	15900	1860	1090	13100
Lead	131	115	15.9 R	15100	7.1	44.9
Magnesium	1370	2750	2940	305	201	3830
Manganese	49.1	36.8	62.8	5.6	4.9	29.2
Mercury	0.66	1.4 R	1.2 R	0.41 R	0.45 R	8 R
Nickel	3.6	13.6 B	7.8	2.1	2.6	10
Potassium	708	1280 U	1210 U	314 U	304 U	2610
Selenium	0.44 U	3.7 UJ	1.5 U	0.21 U	0.22 U	2.6 U
Silver	0.58 U	1.6 U	1.5 U	0.39 U	0.37 U	2.4 U
Sodium	1360	4980	1860	548	514	4320
Thallium	0.44 U	0.89	0.59	0.13 U	0.12 U	0.96
Vanadium	25.1	39.3	19.6	4.6	3.2	28.6
Zinc	116 J	145 R	32.9 R	25.9 R	16.6 R	50.9 R

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-SD07-612	36-SD08-06	36-SD09-06
DATE SAMPLED	05/18/94	10/14/95	10/14/95
DEPTH	6-12"	0-6"	0-6"
UNITS	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>			
Aluminum	10800	2530	2680
Antimony	20.6 UJ	5.9 UL	6.7 UL
Arsenic	1.7 J	3.3 L	0.79 L
Barium	19.9	6.4	5.9
Beryllium	0.45 U	0.25 U	0.29 U
Cadmium	0.49 U	0.53 U	0.6 U
Calcium	8610 J	793	666
Chromium	10.4	4.8 L	3.7 L
Cobalt	4.9 U	1.1	0.98 U
Copper	5.1	8	6.1
Iron	9710	4020	3450
Lead	17	21.9	15.9
Magnesium	1830	689	639
Manganese	15.3	7.7	9.8
Mercury	3.9 R	0.31	0.18
Nickel	7.3	2.8 U	3.2 U
Potassium	1090 U	198 UL	226 UL
Selenium	1.3 U	0.71 K	0.39 U
Silver	1.3 U	0.73 UL	0.83 UL
Sodium	1180	1150	1360
Thallium	0.54	0.55 U	0.49 U
Vanadium	12.4	9.7	7.1
Zinc	29.2 R	25.3	43.4



**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION DATE SAMPLED DEPTH UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TOTAL METALS</b>						
Aluminum	NA	NA	1560	31500	36-SD07-06	15/15
Antimony	4.1 UJ	36.8 UJ	ND	ND		0/15
Arsenic	NA	NA	0.67 J	3.3 L	36-SD08-01	13/13
Barium	NA	NA	2.4	79.1	36-SD01-06	15/15
Beryllium	0.07 U	0.53 U	0.16	1.3	36-SD01-06	4/15
Cadmium	0.04 U	0.88 U	1.4	8.7	36-SD02-612	2/15
Calcium	212 U	212 U	301 J	17500 J	36-SD07-06	14/15
Chromium	4.6 U	4.6 U	2.4	28.6	36-SD07-06	14/15
Cobalt	0.25 U	8.8 U	1.1	6.3	36-SD01-06	3/15
Copper	NA	NA	3.2	45.1	36-SD03-06	15/15
Iron	NA	NA	1090	15900	36-SD05-612	15/15
Lead	NA	NA	7.1	15100	36-SD06-06	14/14
Magnesium	1230 B	1230 B	151	3830	36-SD07-06	14/15
Manganese	NA	NA	4.7	62.8	36-SD05-612	15/15
Mercury	0.1 U	0.1 U	0.18	0.66	36-SD04-612	3/4
Nickel	1.4 U	13.6 B	2.1	77.1	36-SD03-06	11/15
Potassium	198 UL	1280 U	193	2610	36-SD07-06	5/15
Selenium	0.21 U	3.7 UJ	0.71 K	0.71 K	36-SD08-01	1/15
Silver	0.37 U	2.4 U	ND	ND		0/15
Sodium	293 U	316 U	487	4980	36-SD05-06	13/15
Thallium	0.12 U	0.55 U	0.19	0.96	36-SD07-06	8/15
Vanadium	NA	NA	3.2	314	36-SD03-06	15/15
Zinc	NA	NA	25.3	140	36-SD02-612	5/5

**FISH**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	35-FSO2-MC-F01	35-FS03-MC-F01	35-FS03-SM-F01	36-FS01-SM-F01	35-FS02-LG-F01	35-FS03-LG-F02
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
Chloromethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Bromomethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	7 U
Vinyl Chloride	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Chloroethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Methylene Chloride	49 UJ	249 UJ	36 UJ	181 UJ	26 J	42 UJ
Acetone	243 U	249 UJ	36 UJ	181 UJ	263 J	42 UJ
Carbon Disulfide	850 J	196 J	1328	1006 J	502 J	424 J
1,1-Dichloroethene	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
1,1-Dichloroethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
1,2-Dichloroethene (total)	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Chloroform	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
1,2-Dichloroethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
2-Butanone	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	209 U
1,1,1-Trichloroethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Carbon Tetrachloride	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Bromodichloromethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
1,2-Dichloropropane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
cis-1,3-Dichloropropene	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Trichloroethene	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Dibromochloromethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
1,1,2-Trichloroethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Benzene	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
trans-1,3-Dichloropropene	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Bromoform	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
4-Methyl-2-Pentanone	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
2-Hexanone	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Tetrachloroethene	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
1,1,2,2-Tetrachloroethane	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Toluene	49 UJ	249 UJ	24 J	181 UJ	45 UJ	42 UJ
Chlorobenzene	49 UJ	249 UJ	36 UJ	181 UJ	45 UJ	42 UJ
Ethylbenzene	49 UJ	249 UJ	173 U	181 UJ	45 UJ	42 UJ
Styrene	49 UJ	249 UJ	173 U	181 UJ	45 UJ	42 UJ
Xylene (total)	49 UJ	249 UJ	173 U	181 UJ	45 UJ	42 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE	35-FSO2-MC-F01	35-FS03-MC-F01	35-FS03-SM-F01	36-FS01-SM-F01	35-FSO2-LG-F01	35-FS03-LG-F02
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
Phenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
bis(2-Chloroethyl)ether	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2-Chlorophenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
1,3-Dichlorobenzene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
1,4-Dichlorobenzene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
1,2-Dichlorobenzene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2-Methylphenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2,2'-oxybis(1-Chloropropane)	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
4-Methylphenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
N-Nitroso-di-n-propylamine	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Hexachloroethane	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Nitrobenzene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Isophorone	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2-Nitrophenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2,4-Dimethylphenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
bis(2-Chloroethoxy)methane	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2,4-Dichlorophenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
1,2,4-Trichlorobenzene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Naphthalene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
4-Chloroaniline	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Hexachlorobutadiene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
4-Chloro-3-methylphenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2-Methylnaphthalene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Hexachlorocyclopentadiene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2,4,6-Trichlorophenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2,4,5-Trichlorophenol	3800 UJ	3800 UJ	2800 UJ	2800 UJ	3600 UJ	3300 UJ
2-Chloronaphthalene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2-Nitroaniline	3800 UJ	3800 UJ	2800 UJ	2800 UJ	3600 UJ	3300 UJ
Dimethylphthalate	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Acenaphthylene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2,6-Dinitrotoluene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
3-Nitroaniline	3800 UJ	3800 UJ	2800 UJ	2800 UJ	3600 UJ	3300 UJ
Acenaphthene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2,4-Dinitrophenol	3800 UJ	3800 UJ	2800 UJ	2800 UJ	3600 UJ	3300 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	35-FSO2-MC-F01	35-FS03-MC-F01	35-FS03-SM-F01	36-FS01-SM-F01	35-FS02-LG-F01	35-FS03-LG-F02
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
Dibenzofuran	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
4-Nitrophenol	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
2,4-Dinitrotoluene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Diethylphthalate	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Fluorene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
4-Chlorophenyl-phenylether	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
4-Nitroaniline	3800 UJ	3800 UJ	2800 UJ	2800 UJ	3600 UJ	3300 UJ
4,6-Dinitro-2-methylphenol	3800 UJ	3800 UJ	2800 UJ	2800 UJ	3600 UJ	3300 UJ
N-Nitrosodiphenylamine	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
4-Bromophenyl-phenylether	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Hexachlorobenzene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Pentachlorophenol	3800 UJ	3800 UJ	2800 UJ	2800 UJ	3600 UJ	3300 UJ
Phenanthrene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Anthracene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Carbazole	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Di-n-butylphthalate	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Fluoranthene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Pyrene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Butylbenzylphthalate	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Benzo(a)anthracene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
3,3'-Dichlorobenzidine	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Chrysene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
bis(2-Ethylhexyl)phthalate	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Di-n-octylphthalate	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Benzo(b)fluoranthene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Benzo(k)fluoranthene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Benzo(a)pyrene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Indeno(1,2,3-cd)pyrene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Dibenz(a,h)anthracene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ
Benzo(g,h,i)perylene	1600 UJ	1600 UJ	1200 UJ	1200 UJ	1500 UJ	1400 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE	35-FSO2-MC-F01	35-FSO3-MC-F01	35-FSO3-SM-F01	36-FS01-SM-F01	35-FSO2-LG-F01	35-FSO3-LG-F02
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
alpha-BHC	16 UJ	17 UJ	12 UJ	12 UJ	15 UJ	14 UJ
beta-BHC	16 UJ	17 UJ	12 UJ	12 UJ	15 UJ	5.9 J
delta-BHC	16 UJ	17 UJ	12 UJ	12 UJ	15 UJ	14 UJ
gamma-BHC (Lindane)	16 UJ	17 UJ	12 UJ	5.5 J	15 UJ	14 UJ
Heptachlor	16 UJ	17 UJ	12 UJ	2.8 J	15 UJ	14 UJ
Aldrin	16 UJ	17 UJ	12 UJ	12 UJ	15 UJ	14 UJ
Heptachlor epoxide	16 UJ	17 UJ	12 UJ	12 UJ	15 UJ	14 UJ
Endosulfan I	16 UJ	17 UJ	12 UJ	12 UJ	15 UJ	14 UJ
Dieldrin	12 J	22 J	12 J	36 J	15 UJ	28 UJ
4,4'-DDE	78 J	189 J	111 J	270 J	343 J	572 J
Endrin	3.6 J	17 UJ	4 J	2.5 J	15 UJ	52 JJ
Endosulfan II	32 UJ	33 UJ	24 UJ	24 UJ	4.6 J	9.6 J
4,4'-DDD	47 J	146 J	61 J	196 J	62 J	103 J
Endosulfan sulfate	32 UJ	33 UJ	24 UJ	24 UJ	30 UJ	28 UJ
4,4'-DDT	5.6 J	5 J	6 J	12 J	2.5 J	5.1 J
Methoxychlor	160 UJ	170 UJ	121 UJ	120 UJ	152 UJ	142 UJ
Endrin ketone	32 UJ	33 UJ	3.6 J	24 UJ	30 UJ	28 UJ
Endrin aldehyde	32 UJ	33 UJ	2.8 J	24 UJ	30 UJ	28 UJ
alpha-Chlordane	12 J	17 UJ	12 UJ	28 J	11 J	38 J
gamma-Chlordane	16 UJ	17 UJ	12 UJ	12 UJ	15 UJ	14 UJ
Toxaphene	1650 UJ	1690 UJ	1210 UJ	1230 UJ	1520 UJ	1420 UJ
Aroclor-1016	320 UJ	328 UJ	236 UJ	239 UJ	296 UJ	276 UJ
Aroclor-1221	650 UJ	667 UJ	478 UJ	486 UJ	601 UJ	561 UJ
Aroclor-1232	320 UJ	328 UJ	236 UJ	239 UJ	296 UJ	276 UJ
Aroclor-1242	320 UJ	328 UJ	236 UJ	239 UJ	296 UJ	276 UJ
Aroclor-1248	320 UJ	328 UJ	236 UJ	239 UJ	296 UJ	276 UJ
Aroclor-1254	320 UJ	328 UJ	236 UJ	239 UJ	296 UJ	276 UJ
Aroclor-1260	320 UJ	328 UJ	236 UJ	239 UJ	296 UJ	276 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE DATE SAMPLED UNITS	36-FS03-SM-F01 05/03/94 UG/KG	36-FS03-LMB-F01 05/03/94 UG/KG	36-FS03-WM-F01 05/03/94 UG/KG	36-FS03-LG-F01 05/03/94 UG/KG	36-FS01-WC-F01 05/03/94 UG/KG	36-FS02-WC-F01 05/03/94 UG/KG
<b>VOLATILES</b>						
Chloromethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Bromomethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Vinyl Chloride	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Chloroethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Methylene Chloride	40 UJ	250 UJ	200 UJ	40 UJ	28 J	48 UJ
Acetone	40 UJ	2788 J	200 UJ	58 J	312 J	198 J
Carbon Disulfide	579 J	752 J	796 J	752 J	875 J	456 J
1,1-Dichloroethene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
1,1-Dichloroethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
1,2-Dichloroethene (total)	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Chloroform	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
1,2-Dichloroethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
2-Butanone	40 UJ	5108 J	200 UJ	63 J	56 UJ	48 UJ
1,1,1-Trichloroethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Carbon Tetrachloride	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Bromodichloromethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
1,2-Dichloropropane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
cis-1,3-Dichloropropene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Trichloroethene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Dibromochloromethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
1,1,2-Trichloroethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Benzene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
trans-1,3-Dichloropropene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Bromoform	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
4-Methyl-2-Pentanone	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
2-Hexanone	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Tetrachloroethene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
1,1,2,2-Tetrachloroethane	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Toluene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Chlorobenzene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Ethylbenzene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Styrene	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ
Xylene (total)	40 UJ	250 UJ	200 UJ	40 UJ	56 UJ	48 UJ

SITE 36, CAMP GEIGER AREA DUMP  
 FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE	36-FS03-SM-F01	36-FS03-LMB-F01	36-FS03-WM-F01	36-FS03-LG-F01	36-FS01-WC-F01	36-FS02-WC-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
Phenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
bis(2-Chloroethyl)ether	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2-Chlorophenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
1,3-Dichlorobenzene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
1,4-Dichlorobenzene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
1,2-Dichlorobenzene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2-Methylphenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2,2'-oxybis(1-Chloropropane)	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
4-Methylphenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
N-Nitroso-di-n-propylamine	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Hexachloroethane	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Nitrobenzene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Isophorone	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2-Nitrophenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2,4-Dimethylphenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
bis(2-Chloroethoxy)methane	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2,4-Dichlorophenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
1,2,4-Trichlorobenzene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Naphthalene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
4-Chloroaniline	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Hexachlorobutadiene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
4-Chloro-3-methylphenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2-Methylnaphthalene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Hexachlorocyclopentadiene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2,4,6-Trichlorophenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2,4,5-Trichlorophenol	3175 UJ	4082 UJ	2740 UJ	3187 UJ	4420 UJ	3865 UJ
2-Chloronaphthalene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2-Nitroaniline	3175 UJ	4082 UJ	2740 UJ	3187 UJ	4420 UJ	3865 UJ
Dimethylphthalate	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Acenaphthylene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2,6-Dinitrotoluene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
3-Nitroaniline	3175 UJ	4082 UJ	2740 UJ	3187 UJ	4420 UJ	3865 UJ
Acenaphthene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2,4-Dinitrophenol	3175 UJ	4082 UJ	2740 UJ	3187 UJ	4420 UJ	3865 UJ



SITE 36, CAMP GEIGER AREA DUMP  
 FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE	36-FS03-SM-F01	36-FS03-LMB-F01	36-FS03-WM-F01	36-FS03-LG-F01	36-FS01-WC-F01	36-FS02-WC-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
Dibenzofuran	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
4-Nitrophenol	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
2,4-Dinitrotoluene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Diethylphthalate	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Fluorene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
4-Chlorophenyl-phenylether	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
4-Nitroaniline	3175 UJ	4082 UJ	2740 UJ	3187 UJ	4420 UJ	3865 UJ
4,6-Dinitro-2-methylphenol	3175 UJ	4082 UJ	2740 UJ	3187 UJ	4420 UJ	3865 UJ
N-Nitrosodiphenylamine	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
4-Bromophenyl-phenylether	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Hexachlorobenzene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Pentachlorophenol	3175 UJ	4082 UJ	2740 UJ	3187 UJ	4420 UJ	3865 UJ
Phenanthrene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Anthracene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Carbazole	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Di-n-butylphthalate	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Fluoranthene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Pyrene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Butylbenzylphthalate	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Benzo(a)anthracene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
3,3'-Dichlorobenzidine	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Chrysene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
bis(2-Ethylhexyl)phthalate	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Di-n-octylphthalate	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Benzo(b)fluoranthene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Benzo(k)fluoranthene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Benzo(a)pyrene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Indeno(1,2,3-cd)pyrene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Dibenz(a,h)anthracene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ
Benzo(g,h,i)perylene	1310 UJ	1684 UJ	1130 UJ	1315 UJ	1823 UJ	1594 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE	36-FS03-SM-F01	36-FS03-LMB-F01	36-FS03-WM-F01	36-FS03-LG-F01	36-FS01-WC-F01	36-FS02-WC-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
alpha-BHC	14 UJ	17 UJ	14 UJ	14 UJ	19 UJ	16 UJ
beta-BHC	14 UJ	17 UJ	11 J	14 UJ	9.6 J	4.2 J
delta-BHC	14 UJ	17 UJ	14 UJ	14 UJ	19 UJ	16 UJ
gamma-BHC (Lindane)	14 UJ	17 UJ	4.9 J	14 UJ	19 UJ	16 UJ
Heptachlor	14 UJ	17 UJ	14 UJ	14 UJ	19 UJ	16 UJ
Aldrin	6.6 J	17 UJ	14 UJ	14 UJ	19 UJ	16 UJ
Heptachlor epoxide	14 UJ	17 UJ	14 UJ	14 UJ	19 UJ	16 UJ
Endosulfan I	14 UJ	17 UJ	14 UJ	14 UJ	19 UJ	16 UJ
Dieldrin	48 J	5.2 J	40 J	26 UJ	7.8 J	10 J
4,4'-DDE	444 J	39 J	394 J	186 J	148 J	72 J
Endrin	17 J	17 UJ	4.6 J	14 UJ	8.8 J	16 UJ
Endosulfan II	26 UJ	34 UJ	4.5 J	26 UJ	36 UJ	32 UJ
4,4'-DDD	256 J	22 J	133 J	47 J	40 J	22 J
Endosulfan sulfate	26 UJ	34 UJ	26 UJ	26 UJ	36 UJ	32 UJ
4,4'-DDT	26 UJ	34 UJ	26 UJ	26 UJ	36 UJ	32 UJ
Methoxychlor	135 UJ	173 UJ	135 UJ	135 UJ	188 UJ	164 UJ
Endrin ketone	26 UJ	34 UJ	26 UJ	26 UJ	36 UJ	32 UJ
Endrin aldehyde	13 J	34 UJ	26 UJ	26 UJ	36 UJ	32 UJ
alpha-Chlordane	46 J	3.5 J	27 J	14 J	22 J	12 J
gamma-Chlordane	14 UJ	17 UJ	14 UJ	14 UJ	19 UJ	16 UJ
Toxaphene	1350 UJ	1730 UJ	1350 UJ	1350 UJ	1880 UJ	1640 UJ
Aroclor-1016	262 UJ	337 UJ	263 UJ	263 UJ	365 UJ	319 UJ
Aroclor-1221	532 UJ	684 UJ	534 UJ	534 UJ	740 UJ	647 UJ
Aroclor-1232	262 UJ	337 UJ	263 UJ	263 UJ	365 UJ	319 UJ
Aroclor-1242	262 UJ	337 UJ	263 UJ	263 UJ	365 UJ	319 UJ
Aroclor-1248	262 UJ	337 UJ	263 UJ	263 UJ	365 UJ	319 UJ
Aroclor-1254	262 UJ	337 UJ	263 UJ	263 UJ	365 UJ	319 UJ
Aroclor-1260	262 UJ	337 UJ	263 UJ	263 UJ	365 UJ	319 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIATION INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	36-FS03-WC-F01	36-FS03-WC-F02	36-FS02-LMB-F01	35-FS03-BG-F01	36-FS02-SM-F01	35-FS03-LG-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
Chloromethane	50 UJ	33 U	48 U	NA	NA	NA
Bromomethane	50 UJ	33 U	48 U	NA	NA	NA
Vinyl Chloride	50 UJ	33 U	48 U	NA	NA	NA
Chloroethane	50 UJ	33 U	48 U	NA	NA	NA
Methylene Chloride	50 J	33 U	48 U	NA	NA	NA
Acetone	413 J	255 J	1550 J	NA	NA	NA
Carbon Disulfide	348 J	278 J	1145 J	NA	NA	NA
1,1-Dichloroethene	50 UJ	33 U	48 U	NA	NA	NA
1,1-Dichloroethane	50 UJ	33 U	48 U	NA	NA	NA
1,2-Dichloroethene (total)	50 UJ	33 U	48 U	NA	NA	NA
Chloroform	50 UJ	33 U	48 U	NA	NA	NA
1,2-Dichloroethane	50 UJ	33 U	48 U	NA	NA	NA
2-Butanone	50 UJ	9 U	48 U	NA	NA	NA
1,1,1-Trichloroethane	50 UJ	33 U	48 U	NA	NA	NA
Carbon Tetrachloride	50 UJ	33 U	48 U	NA	NA	NA
Bromodichloromethane	50 UJ	33 U	48 U	NA	NA	NA
1,2-Dichloropropane	50 UJ	33 U	48 U	NA	NA	NA
cis-1,3-Dichloropropene	50 UJ	33 U	48 U	NA	NA	NA
Trichloroethene	50 UJ	33 U	48 U	NA	NA	NA
Dibromochloromethane	50 UJ	33 U	48 U	NA	NA	NA
1,1,2-Trichloroethane	50 UJ	33 U	48 U	NA	NA	NA
Benzene	50 UJ	33 U	48 U	NA	NA	NA
trans-1,3-Dichloropropene	50 UJ	33 U	48 U	NA	NA	NA
Bromoform	50 UJ	33 U	48 U	NA	NA	NA
4-Methyl-2-Pentanone	50 UJ	33 U	48 U	NA	NA	NA
2-Hexanone	50 UJ	33 U	48 U	NA	NA	NA
Tetrachloroethene	50 UJ	33 U	48 U	NA	NA	NA
1,1,2,2-Tetrachloroethane	50 UJ	33 U	48 U	NA	NA	NA
Toluene	50 UJ	33 U	48 U	NA	NA	NA
Chlorobenzene	50 UJ	33 U	48 U	NA	NA	NA
Ethylbenzene	50 UJ	33 U	48 U	NA	NA	NA
Styrene	50 UJ	33 U	48 U	NA	NA	NA
Xylene (total)	50 UJ	33 U	48 U	NA	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
 FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE	36-FS03-WC-F01	36-FS03-WC-F02	36-FS02-LMB-F01	35-FS03-BG-F01	36-FS02-SM-F01	35-FS03-LG-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
Phenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
bis(2-Chloroethyl)ether	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2-Chlorophenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
1,3-Dichlorobenzene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
1,4-Dichlorobenzene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
1,2-Dichlorobenzene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2-Methylphenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2,2'-oxybis(1-Chloropropane)	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
4-Methylphenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
N-Nitroso-di-n-propylamine	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Hexachloroethane	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Nitrobenzene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Isophorone	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2-Nitrophenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2,4-Dimethylphenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
bis(2-Chloroethoxy)methane	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2,4-Dichlorophenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
1,2,4-Trichlorobenzene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Naphthalene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
4-Chloroaniline	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Hexachlorobutadiene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
4-Chloro-3-methylphenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2-Methylnaphthalene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Hexachlorocyclopentadiene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2,4,6-Trichlorophenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2,4,5-Trichlorophenol	3960 UJ	4598 UJ	3721 UJ	3100 UJ	3100 UJ	3800 UJ
2-Chloronaphthalene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2-Nitroaniline	3960 UJ	4598 UJ	3721 UJ	3100 UJ	3100 UJ	3800 UJ
Dimethylphthalate	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Acenaphthylene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2,6-Dinitrotoluene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
3-Nitroaniline	3960 UJ	4598 UJ	3721 UJ	3100 UJ	3100 UJ	3800 UJ
Acenaphthene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2,4-Dinitrophenol	3960 UJ	4598 UJ	3721 UJ	3100 UJ	3100 UJ	3800 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIATION INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	36-FS03-WC-F01	36-FS03-WC-F02	36-FS02-LMB-F01	35-FS03-BG-F01	36-FS02-SM-F01	35-FS03-LG-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>						
Dibenzofuran	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
4-Nitrophenol	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
2,4-Dinitrotoluene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Diethylphthalate	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Fluorene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
4-Chlorophenyl-phenylether	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
4-Nitroaniline	3960 UJ	4598 UJ	3721 UJ	3100 UJ	3100 UJ	3800 UJ
4,6-Dinitro-2-methylphenol	3960 UJ	4598 UJ	3721 UJ	3100 UJ	3100 UJ	3800 UJ
N-Nitrosodiphenylamine	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
4-Bromophenyl-phenylether	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Hexachlorobenzene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Pentachlorophenol	3960 UJ	4598 UJ	3721 UJ	3100 UJ	3100 UJ	3800 UJ
Phenanthrene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Anthracene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Carbazole	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Di-n-butylphthalate	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Fluoranthene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Pyrene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Butylbenzylphthalate	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Benzo(a)anthracene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
3,3'-Dichlorobenzidine	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Chrysene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
bis(2-Ethylhexyl)phthalate	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Di-n-octylphthalate	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Benzo(b)fluoranthene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Benzo(k)fluoranthene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Benzo(a)pyrene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Indeno(1,2,3-cd)pyrene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Dibenz(a,h)anthracene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ
Benzo(g,h,i)perylene	1634 UJ	1896 UJ	1535 UJ	1300 UJ	1300 UJ	1600 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	36-FS03-WC-F01	36-FS03-WC-F02	36-FS02-LMB-F01	35-FS03-BG-F01	36-FS02-SM-F01	35-FS03-LG-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDE/PCBs</b>						
alpha-BHC	17 UJ	19 UJ	16 UJ	14 UJ	13 UJ	16 UJ
beta-BHC	17 UJ	19 UJ	16 UJ	14 UJ	13 UJ	16 UJ
delta-BHC	17 UJ	19 UJ	16 UJ	14 UJ	13 UJ	16 UJ
gamma-BHC (Lindane)	17 UJ	19 UJ	16 UJ	3.9 J	13 UJ	16 UJ
Heptachlor	17 UJ	19 UJ	16 UJ	4.3 J	13 UJ	16 UJ
Aldrin	17 UJ	5.7 J	16 UJ	14 UJ	13 UJ	16 UJ
Heptachlor epoxide	17 UJ	19 UJ	16 UJ	14 UJ	13 UJ	3.9 J
Endosulfan I	17 UJ	19 UJ	16 UJ	14 UJ	13 UJ	16 UJ
Dieldrin	13 J	11 J	8 J	4.3 J	17 J	31 UJ
4,4'-DDE	110 J	80 J	45 J	184 J	137 J	297 J
Endrin	17 UJ	19 UJ	16 UJ	10 J	13 UJ	26 J
Endosulfan II	33 UJ	38 UJ	31 UJ	27 UJ	25 UJ	3.6 J
4,4'-DDD	70 J	22 J	50 J	40 J	100 J	54 J
Endosulfan sulfate	33 UJ	38 UJ	31 UJ	27 UJ	25 UJ	31 UJ
4,4'-DDT	33 UJ	38 UJ	31 UJ	8.3 J	6.3 J	4.5 J
Methoxychlor	168 UJ	193 UJ	158 UJ	138 UJ	130 UJ	160 UJ
Endrin ketone	33 UJ	38 UJ	31 UJ	27 UJ	25 UJ	31 UJ
Endrin aldehyde	33 UJ	38 UJ	31 UJ	27 UJ	4 J	31 UJ
alpha-Chlordane	10 J	14 J	16 UJ	8.4 J	18 J	16 UJ
gamma-Chlordane	17 UJ	19 UJ	16 UJ	14 UJ	13 UJ	16 UJ
Toxaphene	1680 UJ	1930 UJ	1580 UJ	1380 UJ	1310 UJ	1600 UJ
Aroclor-1016	327 UJ	375 UJ	307 UJ	268 UJ	254 UJ	310 UJ
Aroclor-1221	663 UJ	761 UJ	623 UJ	545 UJ	515 UJ	629 UJ
Aroclor-1232	327 UJ	375 UJ	307 UJ	268 UJ	254 UJ	310 UJ
Aroclor-1242	327 UJ	375 UJ	307 UJ	268 UJ	254 UJ	310 UJ
Aroclor-1248	327 UJ	375 UJ	307 UJ	268 UJ	254 UJ	310 UJ
Aroclor-1254	327 UJ	375 UJ	307 UJ	268 UJ	254 UJ	310 UJ
Aroclor-1260	327 UJ	375 UJ	307 UJ	268 UJ	254 UJ	310 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	35-FS03-WM-F01
DATE SAMPLED	05/03/94
UNITS	UG/KG

**VOLATILES**

Chloromethane	NA
Bromomethane	NA
Vinyl Chloride	NA
Chloroethane	NA
Methylene Chloride	NA
Acetone	NA
Carbon Disulfide	NA
1,1-Dichloroethene	NA
1,1-Dichloroethane	NA
1,2-Dichloroethene (total)	NA
Chloroform	NA
1,2-Dichloroethane	NA
2-Butanone	NA
1,1,1-Trichloroethane	NA
Carbon Tetrachloride	NA
Bromodichloromethane	NA
1,2-Dichloropropane	NA
cis-1,3-Dichloropropene	NA
Trichloroethene	NA
Dibromochloromethane	NA
1,1,2-Trichloroethane	NA
Benzene	NA
trans-1,3-Dichloropropene	NA
Bromoform	NA
4-Methyl-2-Pentanone	NA
2-Hexanone	NA
Tetrachloroethene	NA
1,1,2,2-Tetrachloroethane	NA
Toluene	NA
Chlorobenzene	NA
Ethylbenzene	NA
Styrene	NA
Xylene (total)	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE 35-FS03-WM-F01  
 DATE SAMPLED 05/03/94  
 UNITS UG/KG

**SEMIVOLATILES**

Phenol	1000 UJ
bis(2-Chloroethyl)ether	1000 UJ
2-Chlorophenol	1000 UJ
1,3-Dichlorobenzene	1000 UJ
1,4-Dichlorobenzene	1000 UJ
1,2-Dichlorobenzene	1000 UJ
2-Methylphenol	1000 UJ
2,2'-oxybis(1-Chloropropane)	1000 UJ
4-Methylphenol	1000 UJ
N-Nitroso-di-n-propylamine	1000 UJ
Hexachloroethane	1000 UJ
Nitrobenzene	1000 UJ
Isophorone	1000 UJ
2-Nitrophenol	1000 UJ
2,4-Dimethylphenol	1000 UJ
bis(2-Chloroethoxy)methane	1000 UJ
2,4-Dichlorophenol	1000 UJ
1,2,4-Trichlorobenzene	1000 UJ
Naphthalene	1000 UJ
4-Chloroaniline	1000 UJ
Hexachlorobutadiene	1000 UJ
4-Chloro-3-methylphenol	1000 UJ
2-Methylnaphthalene	1000 UJ
Hexachlorocyclopentadiene	1000 UJ
2,4,6-Trichlorophenol	1000 UJ
2,4,5-Trichlorophenol	2400 UJ
2-Chloronaphthalene	1000 UJ
2-Nitroaniline	2400 UJ
Dimethylphthalate	1000 UJ
Acenaphthylene	1000 UJ
2,6-Dinitrotoluene	1000 UJ
3-Nitroaniline	2400 UJ
Acenaphthene	1000 UJ
2,4-Dinitrophenol	2400 UJ



**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	35-FS03-WM-F01
DATE SAMPLED	05/03/94
UNITS	UG/KG
<b>SEMIVOLATILES cont.</b>	
Dibenzofuran	1000 UJ
4-Nitrophenol	1000 UJ
2,4-Dinitrotoluene	1000 UJ
Diethylphthalate	1000 UJ
Fluorene	1000 UJ
4-Chlorophenyl-phenylether	1000 UJ
4-Nitroaniline	2400 UJ
4,6-Dinitro-2-methylphenol	2400 UJ
N-Nitrosodiphenylamine	1000 UJ
4-Bromophenyl-phenylether	1000 UJ
Hexachlorobenzene	1000 UJ
Pentachlorophenol	2400 UJ
Phenanthrene	1000 UJ
Anthracene	1000 UJ
Carbazole	1000 UJ
Di-n-butylphthalate	1000 UJ
Fluoranthene	1000 UJ
Pyrene	1000 UJ
Butylbenzylphthalate	1000 UJ
Benzo(a)anthracene	1000 UJ
3,3'-Dichlorobenzidine	1000 UJ
Chrysene	1000 UJ
bis(2-Ethylhexyl)phthalate	1000 UJ
Di-n-octylphthalate	1000 UJ
Benzo(b)fluoranthene	1000 UJ
Benzo(k)fluoranthene	1000 UJ
Benzo(a)pyrene	1000 UJ
Indeno(1,2,3-cd)pyrene	1000 UJ
Dibenz(a,h)anthracene	1000 UJ
Benzo(g,h,i)perylene	1000 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE 35-FS03-WM-F01  
DATE SAMPLED 05/03/94  
UNITS UG/KG

**PESTICIDE/PCBs**

alpha-BHC	10 UJ
beta-BHC	10 UJ
delta-BHC	10 UJ
gamma-BHC (Lindane)	2.5 J
Heptachlor	10 UJ
Aldrin	10 UJ
Heptachlor epoxide	10 UJ
Endosulfan I	10 UJ
Dieldrin	31 J
4,4'-DDE	254 J
Endrin	10 UJ
Endosulfan II	20 UJ
4,4'-DDD	56 J
Endosulfan sulfate	20 UJ
4,4'-DDT	15 J
Methoxychlor	100 UJ
Endrin ketone	3.8 J
Endrin aldehyde	20 UJ
alpha-Chlordane	17 J
gamma-Chlordane	10 UJ
Toxaphene	1000 UJ
Aroclor-1016	195 UJ
Aroclor-1221	396 UJ
Aroclor-1232	195 UJ
Aroclor-1242	195 UJ
Aroclor-1248	195 UJ
Aroclor-1254	195 UJ
Aroclor-1260	195 UJ

SITE 36, CAMP GEIGER AREA DUMP  
 FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
Chloromethane	33 U	250 UJ	ND	ND		0/15
Bromomethane	7 U	250 UJ	ND	ND		0/15
Vinyl Chloride	33 U	250 UJ	ND	ND		0/15
Chloroethane	33 U	250 UJ	ND	ND		0/15
Methylene Chloride	33 U	250 UJ	26 J	50 J	36-FS03-WC-F01	3/15
Acetone	36 UJ	249 UJ	58 J	2788 J	36-FS03-LMB-F01	8/15
Carbon Disulfide	NA	NA	196 J	1328	35-FS03-SM-F01	15/15
1,1-Dichloroethene	33 U	250 UJ	ND	ND		0/15
1,1-Dichloroethane	33 U	250 UJ	ND	ND		0/15
1,2-Dichloroethene (total)	33 U	250 UJ	ND	ND		0/15
Chloroform	33 U	250 UJ	ND	ND		0/15
1,2-Dichloroethane	33 U	250 UJ	ND	ND		0/15
2-Butanone	9 U	249 UJ	63 J	5108 J	36-FS03-LMB-F01	2/15
1,1,1-Trichloroethane	33 U	250 UJ	ND	ND		0/15
Carbon Tetrachloride	33 U	250 UJ	ND	ND		0/15
Bromodichloromethane	33 U	250 UJ	ND	ND		0/15
1,2-Dichloropropane	33 U	250 UJ	ND	ND		0/15
cis-1,3-Dichloropropene	33 U	250 UJ	ND	ND		0/15
Trichloroethene	33 U	250 UJ	ND	ND		0/15
Dibromochloromethane	33 U	250 UJ	ND	ND		0/15
1,1,2-Trichloroethane	33 U	250 UJ	ND	ND		0/15
Benzene	33 U	250 UJ	ND	ND		0/15
trans-1,3-Dichloropropene	33 U	250 UJ	ND	ND		0/15
Bromoform	33 U	250 UJ	ND	ND		0/15
4-Methyl-2-Pentanone	33 U	250 UJ	ND	ND		0/15
2-Hexanone	33 U	250 UJ	ND	ND		0/15
Tetrachloroethene	33 U	250 UJ	ND	ND		0/15
1,1,2,2-Tetrachloroethane	33 U	250 UJ	ND	ND		0/15
Toluene	33 U	250 UJ	24 J	24 J	35-FS03-SM-F01	1/15
Chlorobenzene	33 U	250 UJ	ND	ND		0/15
Ethylbenzene	33 U	250 UJ	ND	ND		0/15
Styrene	33 U	250 UJ	ND	ND		0/15
Xylene (total)	33 U	250 UJ	ND	ND		0/15

SITE 36, CAMP GEIGER AREA DUMP  
 FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
Phenol	1000 UJ	1896 UJ	ND	ND		0/19
bis(2-Chloroethyl)ether	1000 UJ	1896 UJ	ND	ND		0/19
2-Chlorophenol	1000 UJ	1896 UJ	ND	ND		0/19
1,3-Dichlorobenzene	1000 UJ	1896 UJ	ND	ND		0/19
1,4-Dichlorobenzene	1000 UJ	1896 UJ	ND	ND		0/19
1,2-Dichlorobenzene	1000 UJ	1896 UJ	ND	ND		0/19
2-Methylphenol	1000 UJ	1896 UJ	ND	ND		0/19
2,2'-oxybis(1-Chloropropane)	1000 UJ	1896 UJ	ND	ND		0/19
4-Methylphenol	1000 UJ	1896 UJ	ND	ND		0/19
N-Nitroso-di-n-propylamine	1000 UJ	1896 UJ	ND	ND		0/19
Hexachloroethane	1000 UJ	1896 UJ	ND	ND		0/19
Nitrobenzene	1000 UJ	1896 UJ	ND	ND		0/19
Isophorone	1000 UJ	1896 UJ	ND	ND		0/19
2-Nitrophenol	1000 UJ	1896 UJ	ND	ND		0/19
2,4-Dimethylphenol	1000 UJ	1896 UJ	ND	ND		0/19
bis(2-Chloroethoxy)methane	1000 UJ	1896 UJ	ND	ND		0/19
2,4-Dichlorophenol	1000 UJ	1896 UJ	ND	ND		0/19
1,2,4-Trichlorobenzene	1000 UJ	1896 UJ	ND	ND		0/19
Naphthalene	1000 UJ	1896 UJ	ND	ND		0/19
4-Chloroaniline	1000 UJ	1896 UJ	ND	ND		0/19
Hexachlorobutadiene	1000 UJ	1896 UJ	ND	ND		0/19
4-Chloro-3-methylphenol	1000 UJ	1896 UJ	ND	ND		0/19
2-Methylnaphthalene	1000 UJ	1896 UJ	ND	ND		0/19
Hexachlorocyclopentadiene	1000 UJ	1896 UJ	ND	ND		0/19
2,4,6-Trichlorophenol	1000 UJ	1896 UJ	ND	ND		0/19
2,4,5-Trichlorophenol	2400 UJ	4598 UJ	ND	ND		0/19
2-Chloronaphthalene	1000 UJ	1896 UJ	ND	ND		0/19
2-Nitroaniline	2400 UJ	4598 UJ	ND	ND		0/19
Dimethylphthalate	1000 UJ	1896 UJ	ND	ND		0/19
Acenaphthylene	1000 UJ	1896 UJ	ND	ND		0/19
2,6-Dinitrotoluene	1000 UJ	1896 UJ	ND	ND		0/19
3-Nitroaniline	2400 UJ	4598 UJ	ND	ND		0/19
Acenaphthene	1000 UJ	1896 UJ	ND	ND		0/19
2,4-Dinitrophenol	2400 UJ	4598 UJ	ND	ND		0/19

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont.</b>						
Dibenzofuran	1000 UJ	1896 UJ	ND	ND		0/19
4-Nitrophenol	1000 UJ	1896 UJ	ND	ND		0/19
2,4-Dinitrotoluene	1000 UJ	1896 UJ	ND	ND		0/19
Diethylphthalate	1000 UJ	1896 UJ	ND	ND		0/19
Fluorene	1000 UJ	1896 UJ	ND	ND		0/19
4-Chlorophenyl-phenylether	1000 UJ	1896 UJ	ND	ND		0/19
4-Nitroaniline	2400 UJ	4598 UJ	ND	ND		0/19
4,6-Dinitro-2-methylphenol	2400 UJ	4598 UJ	ND	ND		0/19
N-Nitrosodiphenylamine	1000 UJ	1896 UJ	ND	ND		0/19
4-Bromophenyl-phenylether	1000 UJ	1896 UJ	ND	ND		0/19
Hexachlorobenzene	1000 UJ	1896 UJ	ND	ND		0/19
Pentachlorophenol	2400 UJ	4598 UJ	ND	ND		0/19
Phenanthrene	1000 UJ	1896 UJ	ND	ND		0/19
Anthracene	1000 UJ	1896 UJ	ND	ND		0/19
Carbazole	1000 UJ	1896 UJ	ND	ND		0/19
Di-n-butylphthalate	1000 UJ	1896 UJ	ND	ND		0/19
Fluoranthene	1000 UJ	1896 UJ	ND	ND		0/19
Pyrene	1000 UJ	1896 UJ	ND	ND		0/19
Butylbenzylphthalate	1000 UJ	1896 UJ	ND	ND		0/19
Benzo(a)anthracene	1000 UJ	1896 UJ	ND	ND		0/19
3,3'-Dichlorobenzidine	1000 UJ	1896 UJ	ND	ND		0/19
Chrysene	1000 UJ	1896 UJ	ND	ND		0/19
bis(2-Ethylhexyl)phthalate	1000 UJ	1896 UJ	ND	ND		0/19
Di-n-octylphthalate	1000 UJ	1896 UJ	ND	ND		0/19
Benzo(b)fluoranthene	1000 UJ	1896 UJ	ND	ND		0/19
Benzo(k)fluoranthene	1000 UJ	1896 UJ	ND	ND		0/19
Benzo(a)pyrene	1000 UJ	1896 UJ	ND	ND		0/19
Indeno(1,2,3-cd)pyrene	1000 UJ	1896 UJ	ND	ND		0/19
Dibenz(a,h)anthracene	1000 UJ	1896 UJ	ND	ND		0/19
Benzo(g,h,i)perylene	1000 UJ	1896 UJ	ND	ND		0/19

**SITE 36, CAMP GEIGER AREA DUMP  
FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>PESTICIDE/PCBs</b>						
alpha-BHC	10 UJ	19 UJ	ND	ND		0/19
beta-BHC	10 UJ	19 UJ	4.2 J	11 J	36-FS03-WM-F01	4/19
delta-BHC	10 UJ	19 UJ	ND	ND		0/19
gamma-BHC (Lindane)	12 UJ	19 UJ	2.5 J	5.5 J	36-FS01-SM-F01	4/19
Heptachlor	10 UJ	19 UJ	2.8 J	4.3 J	35-FS03-BG-F01	2/19
Aldrin	10 UJ	19 UJ	5.7 J	6.6 J	36-FS03-SM-F01	2/19
Heptachlor epoxide	10 UJ	19 UJ	3.9 J	3.9 J	35-FS03-LG-F01	1/19
Endosulfan I	10 UJ	19 UJ	ND	ND		0/19
Dieldrin	15 UJ	31 UJ	4.3 J	48 J	36-FS03-SM-F01	15/19
4,4'-DDE	NA	NA	39 J	572 J	35-FS03-LG-FO2	19/19
Endrin	10 UJ	19 UJ	2.5 J	52 JJ	35-FS03-LG-FO2	9/19
Endosulfan II	20 UJ	38 UJ	3.6 J	9.6 J	35-FS03-LG-FO2	4/19
4,4'-DDD	NA	NA	22 J	256 J	36-FS03-SM-F01	19/19
Endosulfan sulfate	20 UJ	38 UJ	ND	ND		0/19
4,4'-DDT	26 UJ	38 UJ	2.5 J	15 J	35-FS03-WM-F01	10/19
Methoxychlor	100 UJ	193 UJ	ND	ND		0/19
Endrin ketone	24 UJ	38 UJ	3.6 J	3.8 J	35-FS03-WM-F01	2/19
Endrin aldehyde	20 UJ	38 UJ	2.8 J	13 J	36-FS03-SM-F01	3/19
alpha-Chlordane	12 UJ	17 UJ	3.5 J	46 J	36-FS03-SM-F01	15/19
gamma-Chlordane	10 UJ	19 UJ	ND	ND		0/19
Toxaphene	1000 UJ	1930 UJ	ND	ND		0/19
Aroclor-1016	195 UJ	375 UJ	ND	ND		0/19
Aroclor-1221	396 UJ	761 UJ	ND	ND		0/19
Aroclor-1232	195 UJ	375 UJ	ND	ND		0/19
Aroclor-1242	195 UJ	375 UJ	ND	ND		0/19
Aroclor-1248	195 UJ	375 UJ	ND	ND		0/19
Aroclor-1254	195 UJ	375 UJ	ND	ND		0/19
Aroclor-1260	195 UJ	375 UJ	ND	ND		0/19

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIATION INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

SAMPLE LOCATION	35-FS02-MC-F01	35-FS03-MC-F01	35-FS03-WM-F01	35-FS03-SM-F01	35-FS03-BG-F01	36-FS01-SM-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>ANALYTES</b>						
Aluminum	10 U	25.9	11.9 U	27.3	20	18.5 U
Antimony	19.6 U	22.6 U	9.5 U	20.5 U	15.1 U	16.7 U
Arsenic	0.46 UJ	0.53 UJ	1.7 UJ	0.52 UJ	2.4 UJ	1.9 UJ
Barium	0.43 U	0.54	0.43	0.76	0.64	0.41
Beryllium	0.43 U	0.49 U	0.21 U	0.45 U	0.33 U	0.36 U
Cadmium	0.1 U	0.19 U	0.08 U	0.14 U	0.11 U	0.08 U
Calcium	724 UJ	925 J	13300 J	1140 J	13200 J	839 J
Chromium	3 U	3.4 U	1.4 U	3.1 U	2.3 U	2.5 U
Cobalt	4.7 U	5.4 U	2.3 U	4.9 U	3.6 U	4 U
Copper	3.9	4.5	2.3	5.6	2.8	3.3
Iron	38.2	48	17 U	39.1	32.4 U	40.6
Lead	0.49 U	1.2 U	0.86 U	N/A	2 U	0.36 U
Magnesium	1190	1420	1000	833	1260	929
Manganese	3.1	1.1	1.5	0.89 U	2.1	1
Mercury	0.24 R	0.25 R	0.33 J	0.18 R	0.2 R	0.18 R
Nickel	4.7 U	5.4 U	2.3 U	4.9 U	3.6 U	4 U
Potassium	16400	19000	9180	12500	13500	12400
Selenium	0.54 UJ	0.62 UJ	0.51 UJ	3 UJ	0.56 UJ	0.44 UJ
Silver	1.3 R	1.5 U	0.75 R	1.3 U	0.98 U	1.1 U
Sodium	2770	2920	1970	21900	5720	2160
Thallium	0.23 U	0.26 U	0.17 U	0.26 UJ	0.24 UJ	0.19 U
Vanadium	2.1 U	2.5 U	1 U	2.2 U	1.6 U	1.8 U
Zinc	27.5 R	33.2 R	30.2 R	28.7 R	40.5	32 R

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

SAMPLE LOCATION	36-FS02-SM-F01	35-FS02-LG-F01	35-FS03-LG-F01	35-FS03-LG-F02	36-FS03-SM-F01	36-FS03-LMB-F01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>ANALYTES</b>						
Aluminum	24.7	25.8	22.1 U	17.8 U	21.6 U	21.7 U
Antimony	17.2 U	16.6 U	21.4 U	16.6 U	18.3 U	23.5 U
Arsenic	0.39 UJ	0.49 UJ	0.55 UJ	0.45 UJ	1.3 U	1.8 U
Barium	2.2	0.52	0.53	0.36 U	1.2	0.65
Beryllium	0.37 U	0.36 U	0.46 U	0.36 U	0.4 U	0.51 U
Cadmium	0.18 U	0.35	0.5	0.33	0.12 U	0.2 U
Calcium	7070 J	878 J	995 J	676 J	1570	1440
Chromium	2.6 U	2.5 U	3.3 U	2.5 U	3	3.6 U
Cobalt	4.1 U	4 U	5.1 U	4 U	4.4 U	5.6 U
Copper	3.5	3.3	3.1	2.7	4 U	3.9 U
Iron	41.7	29.4 U	28.8 U	25.8 U	41.7	40.2
Lead	0.38 U	0.45 U	0.47 U	0.42 U	0.4 UJ	0.51 UJ
Magnesium	1070	1330	1230	1160	994	1470
Manganese	1.1	1.9	1.6	1.5	0.86	1 U
Mercury	0.18 R	0.98 J	0.49 J	0.3 J	0.2 UJ	1.3 J
Nickel	4.1 U	4 U	5.1 U	4 U	4.4 U	5.6 U
Potassium	12300	14200	13900	12200	14000	20200
Selenium	0.46 UJ	0.57 UJ	0.64 UJ	0.53 UJ	2.8 UJ	5.8 J
Silver	1.1 R	2.9 R	1.4 U	1.1 U	1.2 U	1.5 U
Sodium	2480	2550	2900	2660	2270 U	3440 U
Thallium	0.2 UJ	0.24 U	0.28 U	0.23 U	0.32 U	0.41 U
Vanadium	1.9 U	1.8 U	2.3 U	1.8 U	2 U	2.6 U
Zinc	38	32.7 R	31.7 R	18.9 R	28.8	22.9



**SITE 36, CAMP GEIGER AREA DUMP  
FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

SAMPLE LOCATION	36-FS03-WM-F01	36-FS03-LG-F01	36-FS01-WC-F01	36-FS02-WC-F01	36-FS03-WC-F01	36-FS03-WC-F02
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>ANALYTES</b>						
Aluminum	18.6 U	22.3 U	31 U	23.8 U	23.6 U	22.5 U
Antimony	15.8 U	18.3 U	25.4 U	22.2 U	22.8 U	26.4 U
Arsenic	0.96 U	2 U	2 U	1.8	1.6 U	1.5 U
Barium	0.62	0.52	1	1 U	0.86	0.79
Beryllium	0.34 U	0.4 U	0.55 U	0.48 U	0.5 U	0.57 U
Cadmium	0.08 U	0.22 U	0.12 U	0.13 U	0.12 U	0.14 U
Calcium	7060	678	939 U	821 U	1090	1590
Chromium	2.4 U	2.8 U	3.9 U	3.4 U	3.5 U	4 U
Cobalt	3.8 U	4.4 U	6.1 U	5.3 U	5.4 U	6.3 U
Copper	2.5 U	2.3 U	3.8 U	3.9 U	4.2 U	3.8 U
Iron	34.6	28	52	45	39.8	53.6
Lead	0.51 R	0.56 R	0.55 U	0.48 UJ	0.5 U	0.63 R
Magnesium	981	1210	1250	1310	1220	1380
Manganese	2	1.7	2.5	2.1	2.3	1.8
Mercury	0.17 UJ	0.29 J	0.33 J	0.24 UJ	0.25 UJ	0.29 UJ
Nickel	3.8 U	4.4 U	6.1 U	5.3 U	5.4 U	6.3 U
Potassium	11800	12100	18900	16000	17600	17900
Selenium	0.48 UJ	0.6 J	0.99 J	0.68 UJ	0.69 UJ	0.8 UJ
Silver	1	1.3	1.7 U	1.4 U	3.3	2.2
Sodium	2510 U	2530 U	4010 U	2990 U	3500 U	3910 U
Thallium	0.38 U	0.28 U	0.94 U	0.39 U	0.4 U	0.34 U
Vanadium	1.7	2 U	2.8 U	2.4 U	2.5 U	2.9 U
Zinc	33.1	18.2	58.3	34.9	35.2	39

**SITE 36, CAMP GEIGER AREA DUMP  
FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

SAMPLE LOCATION	6-FS02-LMB-F01
DATE SAMPLED	05/03/94
UNITS	MG/KG

**ANALYTES**

Aluminum	22.1 U
Antimony	21.4 U
Arsenic	1.7 U
Barium	0.6
Beryllium	0.47 U
Cadmium	0.11 U
Calcium	6750
Chromium	4
Cobalt	5.1 U
Copper	3.2 U
Iron	43.3
Lead	0.47 UJ
Magnesium	1400
Manganese	1.3
Mercury	1.2 J
Nickel	5.1 U
Potassium	15000
Selenium	0.65 UJ
Silver	1.4
Sodium	4820 U
Thallium	0.37 U
Vanadium	2.3 U
Zinc	26.8

**SITE 36, CAMP GEIGER AREA DUMP  
FISH FILLET - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

SAMPLE LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>ANALYTES</b>						
Aluminum	10 U	31 U	20	27.3	35-FS03-SM-F01	5/19
Antimony	9.5 U	26.4 U	ND	ND		0/19
Arsenic	0.39 UJ	2.4 UJ	1.8	1.8	36-FS02-WC-F01	1/19
Barium	0.36 U	1 U	0.41	2.2	36-FS02-SM-F01	16/19
Beryllium	0.21 U	0.57 U	ND	ND		0/19
Cadmium	0.08 U	0.22 U	0.33	0.5	35-FS03-LG-F01	3/19
Calcium	724 UJ	939 U	676 J	13300 J	35-FS03-WM-F01	16/19
Chromium	1.4 U	4 U	3	4	36-FS02-LMB-F01	2/19
Cobalt	2.3 U	6.3 U	ND	ND		0/19
Copper	2.3 U	4.2 U	2.3	5.6	35-FS03-SM-F01	10/19
Iron	17 U	32.4 U	28	53.6	36-FS03-WC-F02	14/19
Lead	0.36 U	2 U	0 N/A	ND		1/16
Magnesium	NA	NA	833	1470	36-FS03-LMB-F01	19/19
Manganese	0.89 U	1 U	0.86	3.1	35-FS02-MC-F01	17/19
Mercury	0.17 UJ	0.29 UJ	0.29 J	1.3 J	36-FS03-LMB-F01	8/13
Nickel	2.3 U	6.3 U	ND	ND		0/19
Potassium	NA	NA	9180	20200	36-FS03-LMB-F01	19/19
Selenium	0.44 UJ	3 UJ	0.6 J	5.8 J	36-FS03-LMB-F01	3/19
Silver	0.98 U	1.7 U	1	3.3	36-FS03-WC-F01	5/15
Sodium	2270 U	4820 U	1970	21900	35-FS03-SM-F01	10/19
Thallium	0.17 U	0.94 U	ND	ND		0/19
Vanadium	1 U	2.9 U	1.7	1.7	36-FS03-WM-F01	1/19
Zinc	NA	NA	18.2	58.3	36-FS01-WC-F01	11/11

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FS03-LG-WB01	35-FS03-MC-WB01	35-FS2-AE-WB01	36-FS01-SM-WB01	35-FS02-PS-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
<b>VOLATILES</b>					
Chloromethane	50 UJ	38 UJ	NA	NA	NA
Bromomethane	50 UJ	38 UJ	NA	NA	NA
Vinyl Chloride	50 UJ	38 UJ	NA	NA	NA
Chloroethane	50 UJ	38 UJ	NA	NA	NA
Methylene Chloride	50 UJ	38 UJ	NA	NA	NA
Acetone	137 J	24684 J	NA	NA	NA
Carbon Disulfide	469 J	1064 J	NA	NA	NA
1,1-Dichloroethene	50 UJ	38 UJ	NA	NA	NA
1,1-Dichloroethane	50 UJ	37 J	NA	NA	NA
1,2-Dichloroethene (total)	50 UJ	38 UJ	NA	NA	NA
Chloroform	50 UJ	38 UJ	NA	NA	NA
1,2-Dichloroethane	50 UJ	38 UJ	NA	NA	NA
2-Butanone	50 UJ	38 UJ	NA	NA	NA
1,1,1-Trichloroethane	50 UJ	38 UJ	NA	NA	NA
Carbon Tetrachloride	50 UJ	38 UJ	NA	NA	NA
Bromodichloromethane	50 UJ	38 UJ	NA	NA	NA
1,2-Dichloropropane	50 UJ	38 UJ	NA	NA	NA
cis-1,3-Dichloropropene	50 UJ	38 UJ	NA	NA	NA
Trichloroethene	50 UJ	38 UJ	NA	NA	NA
Dibromochloromethane	50 UJ	38 UJ	NA	NA	NA
1,1,2-Trichloroethane	50 UJ	38 UJ	NA	NA	NA
Benzene	50 UJ	38 UJ	NA	NA	NA
trans-1,3-Dichloropropene	50 UJ	38 UJ	NA	NA	NA
Bromoform	50 UJ	38 UJ	NA	NA	NA
4-Methyl-2-Pentanone	50 UJ	38 UJ	NA	NA	NA
2-Hexanone	50 UJ	38 UJ	NA	NA	NA
Tetrachloroethene	50 UJ	38 UJ	NA	NA	NA
1,1,2,2-Tetrachloroethane	50 UJ	38 UJ	NA	NA	NA
Toluene	50 UJ	38 UJ	NA	NA	NA
Chlorobenzene	50 UJ	38 UJ	NA	NA	NA
Ethylbenzene	50 UJ	38 UJ	NA	NA	NA
Styrene	50 UJ	38 UJ	NA	NA	NA
Xylene (total)	50 UJ	38 UJ	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP  
 WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FS03-LG-WB01	35-FSO3-MC-WB01	35-FS2-AE-WB01	36-FS01-SM-WB01	35-FS02-PS-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
<b>SEMIVOLATILES</b>					
Phenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
bis(2-Chloroethyl)ether	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2-Chlorophenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
1,3-Dichlorobenzene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
1,4-Dichlorobenzene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
1,2-Dichlorobenzene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2-Methylphenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2,2'-oxybis(1-Chloropropane)	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
4-Methylphenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
N-Nitroso-di-n-propylamine	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Hexachloroethane	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Nitrobenzene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Isophorone	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2-Nitrophenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2,4-Dimethylphenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
bis(2-Chloroethoxy)methane	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2,4-Dichlorophenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
1,2,4-Trichlorobenzene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Naphthalene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
4-Chloroaniline	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Hexachlorobutadiene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
4-Chloro-3-methylphenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2-Methylnaphthalene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Hexachlorocyclopentadiene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2,4,6-Trichlorophenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2,4,5-Trichlorophenol	3300 UJ	3100 UJ	3100 UJ	2400 UJ	2800 UJ
2-Chloronaphthalene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2-Nitroaniline	3300 UJ	3100 UJ	3100 UJ	2400 UJ	2800 UJ
Dimethylphthalate	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Acenaphthylene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2,6-Dinitrotoluene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
3-Nitroaniline	3300 UJ	3100 UJ	3100 UJ	2400 UJ	2800 UJ
Acenaphthene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2,4-Dinitrophenol	3300 UJ	3100 UJ	3100 UJ	2400 UJ	2800 UJ
Dibenzofuran	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
 WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FS03-LG-WB01	35-FS03-MC-WB01	35-FS2-AE-WB01	36-FS01-SM-WB01	35-FS02-PS-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
<b>SEMIVOLATILES cont.</b>					
4-Nitrophenol	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
2,4-Dinitrotoluene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Diethylphthalate	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Fluorene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
4-Chlorophenyl-phenylether	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
4-Nitroaniline	3300 UJ	3100 UJ	3100 UJ	2400 UJ	2800 UJ
4,6-Dinitro-2-methylphenol	3300 UJ	3100 UJ	3100 UJ	2400 UJ	2800 UJ
N-Nitrosodiphenylamine	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
4-Bromophenyl-phenylether	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Hexachlorobenzene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Pentachlorophenol	3300 UJ	3100 UJ	3100 UJ	2400 UJ	2800 UJ
Phenanthrene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Anthracene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Carbazole	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Di-n-butylphthalate	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Fluoranthene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Pyrene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Butylbenzylphthalate	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Benzo(a)anthracene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
3,3'-Dichlorobenzidine	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Chrysene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
bis(2-Ethylhexyl)phthalate	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Di-n-octylphthalate	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Benzo(b)fluoranthene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Benzo(k)fluoranthene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Benzo(a)pyrene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Indeno(1,2,3-cd)pyrene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Dibenz(a,h)anthracene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ
Benzo(g,h,i)perylene	1400 UJ	1300 UJ	1300 UJ	1000 UJ	1200 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FS03-LG-WB01	35-FS03-MC-WB01	35-FS2-AE-WB01	36-FS01-SM-WB01	35-FS02-PS-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
<b>PESTICIDE/PCBs</b>					
alpha-BHC	16 UJ	13 UJ	13 UJ	11 UJ	3.7 UJ
beta-BHC	16 UJ	13 UJ	13 UJ	11 UJ	3.7 UJ
delta-BHC	16 UJ	13 UJ	13 UJ	11 UJ	3.7 UJ
gamma-BHC (Lindane)	16 UJ	13 UJ	13 UJ	8 J	3.7 UJ
Heptachlor	16 UJ	13 UJ	13 UJ	7.8 J	3.7 UJ
Aldrin	16 UJ	13 UJ	13 UJ	11 UJ	3.7 UJ
Heptachlor epoxide	16 UJ	13 UJ	13 UJ	11 UJ	3.7 UJ
Endosulfan I	16 UJ	13 UJ	13 UJ	11 UJ	3.7 UJ
Dieldrin	32 UJ	13 J	59 J	55 J	11 J
4,4'-DDE	249 J	95 J	434 J	400 J	81 J
Endrin	21 J	13 UJ	13 UJ	27 J	5.3 J
Endosulfan II	32 UJ	25 UJ	26 UJ	3.4 J	7.2 UJ
4,4'-DDD	52 J	53 J	319 J	99 J	38 J
Endosulfan sulfate	32 UJ	25 UJ	26 UJ	21 UJ	7.2 UJ
4,4'-DDT	5.8 J	6.4 J	58 J	17 J	11 UJ
Methoxychlor	165 UJ	129 UJ	13 UJ	110 UJ	37 UJ
Endrin ketone	32 UJ	25 UJ	14 J	21 UJ	7.2 UJ
Endrin aldehyde	6.5 J	25 UJ	26 UJ	21 UJ	7.2 UJ
alpha-Chlordane	23 J	20 J	32 J	60 J	3.7 UJ
gamma-Chlordane	16 UJ	12 J	13 UJ	22 J	3.7 UJ
Toxaphene	1650 UJ	1290 UJ	1320 UJ	1080 UJ	371 UJ
Aroclor-1016	320 UJ	251 UJ	257 UJ	210 UJ	72 UJ
Aroclor-1221	650 UJ	510 UJ	521 UJ	425 UJ	146 UJ
Aroclor-1232	320 UJ	251 UJ	257 UJ	210 UJ	72 UJ
Aroclor-1242	320 UJ	251 UJ	257 UJ	210 UJ	72 UJ
Aroclor-1248	320 UJ	251 UJ	257 UJ	210 UJ	72 UJ
Aroclor-1254	320 UJ	251 UJ	257 UJ	210 UJ	72 UJ
Aroclor-1260	320 UJ	251 UJ	257 UJ	210 UJ	72 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
 WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

SAMPLE LOCATION DATE SAMPLED UNITS	35-FSO3-PS-WB01 05/03/94 ug/kg	35-FSO3-PS-WB02 05/03/94 ug/kg	36-FS02-WC-WB01 05/03/94 ug/kg	36-FS02-WC-WB02 05/03/94 ug/kg	36-FS03-WC-WB01 05/03/94 ug/kg
<b>VOLATILES</b>					
Chloromethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Bromomethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Vinyl Chloride	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Chloroethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Methylene Chloride	17 J	35 UJ	35 J	42 J	28 J
Acetone	39 J	35 UJ	1794 J	938 J	2360 J
Carbon Disulfide	467 J	835 J	402 J	1367 J	348 J
1,1-Dichloroethene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
1,1-Dichloroethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
1,2-Dichloroethene (total)	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Chloroform	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
1,2-Dichloroethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
2-Butanone	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
1,1,1-Trichloroethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Carbon Tetrachloride	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Bromodichloromethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
1,2-Dichloropropane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
cis-1,3-Dichloropropene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Trichloroethene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Dibromochloromethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
1,1,2-Trichloroethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Benzene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
trans-1,3-Dichloropropene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Bromoform	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
4-Methyl-2-Pentanone	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
2-Hexanone	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Tetrachloroethene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
1,1,2,2-Tetrachloroethane	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Toluene	31 UJ	35 UJ	48 UJ	42 UJ	33 J
Chlorobenzene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Ethylbenzene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Styrene	31 UJ	35 UJ	48 UJ	42 UJ	42 UJ
Xylene (total)	31 UJ	56 UJ	48 UJ	42 UJ	58 J



**SITE 36, CAMP GEIGER AREA DUMP  
WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FSO3-PS-WB01	35-FSO3-PS-WB02	36-FS02-WC-WB01	36-FS02-WC-WB02	36-FS03-WC-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
<b>SEMIVOLATILES</b>					
Phenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
bis(2-Chloroethyl)ether	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2-Chlorophenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
1,3-Dichlorobenzene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
1,4-Dichlorobenzene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
1,2-Dichlorobenzene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2-Methylphenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2,2'-oxybis(1-Chloropropane)	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
4-Methylphenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
N-Nitroso-di-n-propylamine	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Hexachloroethane	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Nitrobenzene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Isophorone	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2-Nitrophenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2,4-Dimethylphenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
bis(2-Chloroethoxy)methane	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2,4-Dichlorophenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
1,2,4-Trichlorobenzene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Naphthalene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
4-Chloroaniline	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Hexachlorobutadiene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
4-Chloro-3-methylphenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2-Methylnaphthalene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Hexachlorocyclopentadiene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2,4,6-Trichlorophenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2,4,5-Trichlorophenol	15000 UJ	2800 UJ	3137 UJ	3306 UJ	2684 UJ
2-Chloronaphthalene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2-Nitroaniline	15000 UJ	2800 UJ	3137 UJ	3306 UJ	2684 UJ
Dimethylphthalate	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Acenaphthylene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2,6-Dinitrotoluene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
3-Nitroaniline	15000 UJ	2800 UJ	3137 UJ	3306 UJ	2684 UJ
Acenaphthene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2,4-Dinitrophenol	15000 UJ	2800 UJ	3137 UJ	3306 UJ	2684 UJ
Dibenzofuran	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FSO3-PS-WB01	35-FSO3-PS-WB02	36-FS02-WC-WB01	36-FS02-WC-WB02	36-FS03-WC-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
<b>SEMIVOLATILES cont.</b>					
4-Nitrophenol	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
2,4-Dinitrotoluene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Diethylphthalate	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Fluorene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
4-Chlorophenyl-phenylether	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
4-Nitroaniline	15000 UJ	2800 UJ	3137 UJ	3306 UJ	2684 UJ
4,6-Dinitro-2-methylphenol	15000 UJ	2800 UJ	3137 UJ	3306 UJ	2684 UJ
N-Nitrosodiphenylamine	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
4-Bromophenyl-phenylether	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Hexachlorobenzene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Pentachlorophenol	15000 UJ	2800 UJ	3137 UJ	3306 UJ	2684 UJ
Phenanthrene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Anthracene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Carbazole	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Di-n-butylphthalate	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Fluoranthene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Pyrene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Butylbenzylphthalate	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Benzo(a)anthracene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
3,3'-Dichlorobenzidine	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Chrysene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
bis(2-Ethylhexyl)phthalate	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Di-n-octylphthalate	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Benzo(b)fluoranthene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Benzo(k)fluoranthene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Benzo(a)pyrene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Indeno(1,2,3-cd)pyrene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Dibenz(a,h)anthracene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ
Benzo(g,h,i)perylene	6200 UJ	1100 UJ	1294 UJ	1364 UJ	1107 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FS03-PS-WB01	35-FS03-PS-WB02	36-FS02-WC-WB01	36-FS02-WC-WB02	36-FS03-WC-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
<b>PESTICIDE/PCBs</b>					
alpha-BHC	3.7 UJ	4.4 U	13 UJ	14 UJ	11 UJ
beta-BHC	5.3 J	4.4 U	4.8 J	8.3 J	11 UJ
delta-BHC	3.7 UJ	4.4 U	13 UJ	14 UJ	11 UJ
gamma-BHC (Lindane)	3.7 UJ	4.4 U	13 UJ	14 UJ	11 UJ
Heptachlor	3.7 UJ	4.4 U	13 UJ	14 UJ	11 UJ
Aldrin	3.7 UJ	4.4 U	13 UJ	14 UJ	2.6 J
Heptachlor epoxide	3.7 UJ	4.4 U	13 UJ	14 UJ	11 UJ
Endosulfan I	3.7 UJ	4.4 U	13 UJ	14 UJ	11 UJ
Dieldrin	16 J	5 J	10 J	31 J	3.2 J
4,4'-DDE	152 J	53 J	239 J	208 J	39 J
Endrin	8.7 J	3 J	23 J	12 J	11 UJ
Endosulfan II	7.2 UJ	8.6 UJ	3.4 J	27 UJ	22 UJ
4,4'-DDD	82 J	20 J	74 J	138 J	18 J
Endosulfan sulfate	7.2 UJ	8.6 UJ	26 UJ	27 UJ	22 UJ
4,4'-DDT	19 J	7.7 J	26 UJ	27 UJ	18 UJ
Methoxychlor	37 UJ	44 UJ	130 UJ	140 UJ	114 UJ
Endrin ketone	7.2 UJ	3.1 J	26 UJ	27 UJ	22 UJ
Endrin aldehyde	3.3 J	8.6 UJ	26 UJ	27 UJ	22 UJ
alpha-Chlordane	9.6 J	2.9 J	42 J	30 J	5 J
gamma-Chlordane	3.7 UJ	4.4 UJ	13 UJ	14 UJ	11 UJ
Toxaphene	372 UJ	441 UJ	1330 UJ	1400 UJ	1140 UJ
Aroclor-1016	72 UJ	86 UJ	259 UJ	273 UJ	221 UJ
Aroclor-1221	147 UJ	174 UJ	525 UJ	554 UJ	450 UJ
Aroclor-1232	72 UJ	86 UJ	259 UJ	273 UJ	221 UJ
Aroclor-1242	72 UJ	86 UJ	259 UJ	273 UJ	221 UJ
Aroclor-1248	72 UJ	86 UJ	259 UJ	273 UJ	221 UJ
Aroclor-1254	72 UJ	86 UJ	259 UJ	273 UJ	221 UJ
Aroclor-1260	72 UJ	86 UJ	259 UJ	273 UJ	221 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION            35-FS03-AE-WB01  
 DATE SAMPLED                05/03/94  
 UNITS                            ug/kg

**VOLATILES**

Chloromethane	NA
Bromomethane	NA
Vinyl Chloride	NA
Chloroethane	NA
Methylene Chloride	NA
Acetone	NA
Carbon Disulfide	NA
1,1-Dichloroethene	NA
1,1-Dichloroethane	NA
1,2-Dichloroethene (total)	NA
Chloroform	NA
1,2-Dichloroethane	NA
2-Butanone	NA
1,1,1-Trichloroethane	NA
Carbon Tetrachloride	NA
Bromodichloromethane	NA
1,2-Dichloropropane	NA
cis-1,3-Dichloropropene	NA
Trichloroethene	NA
Dibromochloromethane	NA
1,1,2-Trichloroethane	NA
Benzene	NA
trans-1,3-Dichloropropene	NA
Bromoform	NA
4-Methyl-2-Pentanone	NA
2-Hexanone	NA
Tetrachloroethene	NA
1,1,2,2-Tetrachloroethane	NA
Toluene	NA
Chlorobenzene	NA
Ethylbenzene	NA
Styrene	NA
Xylene (total)	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FS03-AE-WB01
DATE SAMPLED	05/03/94
UNITS	ug/kg
<b>SEMIVOLATILES</b>	
Phenol	1300 UJ
bis(2-Chloroethyl)ether	1300 UJ
2-Chlorophenol	1300 UJ
1,3-Dichlorobenzene	1300 UJ
1,4-Dichlorobenzene	1300 UJ
1,2-Dichlorobenzene	1300 UJ
2-Methylphenol	1300 UJ
2,2'-oxybis(1-Chloropropane)	1300 UJ
4-Methylphenol	1300 UJ
N-Nitroso-di-n-propylamine	1300 UJ
Hexachloroethane	1300 UJ
Nitrobenzene	1300 UJ
Isophorone	1300 UJ
2-Nitrophenol	1300 UJ
2,4-Dimethylphenol	1300 UJ
bis(2-Chloroethoxy)methane	1300 UJ
2,4-Dichlorophenol	1300 UJ
1,2,4-Trichlorobenzene	1300 UJ
Naphthalene	1300 UJ
4-Chloroaniline	1300 UJ
Hexachlorobutadiene	1300 UJ
4-Chloro-3-methylphenol	1300 UJ
2-Methylnaphthalene	1300 UJ
Hexachlorocyclopentadiene	1300 UJ
2,4,6-Trichlorophenol	1300 UJ
2,4,5-Trichlorophenol	3100 UJ
2-Chloronaphthalene	1300 UJ
2-Nitroaniline	3100 UJ
Dimethylphthalate	1300 UJ
Acenaphthylene	1300 UJ
2,6-Dinitrotoluene	1300 UJ
3-Nitroaniline	3100 UJ
Acenaphthene	1300 UJ
2,4-Dinitrophenol	3100 UJ
Dibenzofuran	1300 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FS03-AE-WB01
DATE SAMPLED	05/03/94
UNITS	ug/kg
<b>SEMIVOLATILES cont.</b>	
4-Nitrophenol	1300 UJ
2,4-Dinitrotoluene	1300 UJ
Diethylphthalate	1300 UJ
Fluorene	1300 UJ
4-Chlorophenyl-phenylether	1300 UJ
4-Nitroaniline	3100 UJ
4,6-Dinitro-2-methylphenol	3100 UJ
N-Nitrosodiphenylamine	1300 UJ
4-Bromophenyl-phenylether	1300 UJ
Hexachlorobenzene	1300 UJ
Pentachlorophenol	3100 UJ
Phenanthrene	1300 UJ
Anthracene	1300 UJ
Carbazole	1300 UJ
Di-n-butylphthalate	1300 UJ
Fluoranthene	1300 UJ
Pyrene	1300 UJ
Butylbenzylphthalate	1300 UJ
Benzo(a)anthracene	1300 UJ
3,3'-Dichlorobenzidine	1300 UJ
Chrysene	1300 UJ
bis(2-Ethylhexyl)phthalate	1300 UJ
Di-n-octylphthalate	1300 UJ
Benzo(b)fluoranthene	1300 UJ
Benzo(k)fluoranthene	1300 UJ
Benzo(a)pyrene	1300 UJ
Indeno(1,2,3-cd)pyrene	1300 UJ
Dibenz(a,h)anthracene	1300 UJ
Benzo(g,h,i)perylene	1300 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION	35-FS03-AE-WB01
DATE SAMPLED	05/03/94
UNITS	ug/kg
<b>PESTICIDE/PCBs</b>	
alpha-BHC	4.4 UJ
beta-BHC	4.4 UJ
delta-BHC	4.4 UJ
gamma-BHC (Lindane)	4.4 UJ
Heptachlor	4.4 UJ
Aldrin	4.4 UJ
Heptachlor epoxide	4.4 UJ
Endosulfan I	4.4 UJ
Dieldrin	14 J
4,4'-DDE	55 J
Endrin	4.4 UJ
Endosulfan II	8.6 UJ
4,4'-DDD	27 J
Endosulfan sulfate	8.6 UJ
4,4'-DDT	6.5 J
Methoxychlor	44 UJ
Endrin ketone	8.6 UJ
Endrin aldehyde	8.6 UJ
alpha-Chlordane	3.5 J
gamma-Chlordane	4.4 UJ
Toxaphene	440 UJ
Aroclor-1016	86 UJ
Aroclor-1221	174 UJ
Aroclor-1232	86 UJ
Aroclor-1242	86 UJ
Aroclor-1248	86 UJ
Aroclor-1254	86 UJ
Aroclor-1260	86 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
Chloromethane	31 UJ	50 UJ	ND	ND		0/7
Bromomethane	31 UJ	50 UJ	ND	ND		0/7
Vinyl Chloride	31 UJ	50 UJ	ND	ND		0/7
Chloroethane	31 UJ	50 UJ	ND	ND		0/7
Methylene Chloride	35 UJ	50 UJ	17 J	42 J	36-FS02-WC-WB02	4/7
Acetone	35 UJ	35 UJ	39 J	24684 J	35-FS03-MC-WB01	6/7
Carbon Disulfide	NA	NA	348 J	1367 J	36-FS02-WC-WB02	7/7
1,1-Dichloroethene	31 UJ	50 UJ	ND	ND		0/7
1,1-Dichloroethane	31 UJ	50 UJ	37 J	37 J	35-FS03-MC-WB01	1/7
1,2-Dichloroethene (total)	31 UJ	50 UJ	ND	ND		0/7
Chloroform	31 UJ	50 UJ	ND	ND		0/7
1,2-Dichloroethane	31 UJ	50 UJ	ND	ND		0/7
2-Butanone	31 UJ	50 UJ	ND	ND		0/7
1,1,1-Trichloroethane	31 UJ	50 UJ	ND	ND		0/7
Carbon Tetrachloride	31 UJ	50 UJ	ND	ND		0/7
Bromodichloromethane	31 UJ	50 UJ	ND	ND		0/7
1,2-Dichloropropane	31 UJ	50 UJ	ND	ND		0/7
cis-1,3-Dichloropropene	31 UJ	50 UJ	ND	ND		0/7
Trichloroethene	31 UJ	50 UJ	ND	ND		0/7
Dibromochloromethane	31 UJ	50 UJ	ND	ND		0/7
1,1,2-Trichloroethane	31 UJ	50 UJ	ND	ND		0/7
Benzene	31 UJ	50 UJ	ND	ND		0/7
trans-1,3-Dichloropropene	31 UJ	50 UJ	ND	ND		0/7
Bromoform	31 UJ	50 UJ	ND	ND		0/7
4-Methyl-2-Pentanone	31 UJ	50 UJ	ND	ND		0/7
2-Hexanone	31 UJ	50 UJ	ND	ND		0/7
Tetrachloroethene	31 UJ	50 UJ	ND	ND		0/7
1,1,2,2-Tetrachloroethane	31 UJ	50 UJ	ND	ND		0/7
Toluene	31 UJ	50 UJ	33 J	33 J	36-FS03-WC-WB01	1/7
Chlorobenzene	31 UJ	50 UJ	ND	ND		0/7
Ethylbenzene	31 UJ	50 UJ	ND	ND		0/7
Styrene	31 UJ	50 UJ	ND	ND		0/7
Xylene (total)	31 UJ	56 UJ	58 J	58 J	36-FS03-WC-WB01	1/7



**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
Phenol	1000 UJ	6200 UJ	ND	ND		0/11
bis(2-Chloroethyl)ether	1000 UJ	6200 UJ	ND	ND		0/11
2-Chlorophenol	1000 UJ	6200 UJ	ND	ND		0/11
1,3-Dichlorobenzene	1000 UJ	6200 UJ	ND	ND		0/11
1,4-Dichlorobenzene	1000 UJ	6200 UJ	ND	ND		0/11
1,2-Dichlorobenzene	1000 UJ	6200 UJ	ND	ND		0/11
2-Methylphenol	1000 UJ	6200 UJ	ND	ND		0/11
2,2'-oxybis(1-Chloropropane)	1000 UJ	6200 UJ	ND	ND		0/11
4-Methylphenol	1000 UJ	6200 UJ	ND	ND		0/11
N-Nitroso-di-n-propylamine	1000 UJ	6200 UJ	ND	ND		0/11
Hexachloroethane	1000 UJ	6200 UJ	ND	ND		0/11
Nitrobenzene	1000 UJ	6200 UJ	ND	ND		0/11
Isophorone	1000 UJ	6200 UJ	ND	ND		0/11
2-Nitrophenol	1000 UJ	6200 UJ	ND	ND		0/11
2,4-Dimethylphenol	1000 UJ	6200 UJ	ND	ND		0/11
bis(2-Chloroethoxy)methane	1000 UJ	6200 UJ	ND	ND		0/11
2,4-Dichlorophenol	1000 UJ	6200 UJ	ND	ND		0/11
1,2,4-Trichlorobenzene	1000 UJ	6200 UJ	ND	ND		0/11
Naphthalene	1000 UJ	6200 UJ	ND	ND		0/11
4-Chloroaniline	1000 UJ	6200 UJ	ND	ND		0/11
Hexachlorobutadiene	1000 UJ	6200 UJ	ND	ND		0/11
4-Chloro-3-methylphenol	1000 UJ	6200 UJ	ND	ND		0/11
2-Methylnaphthalene	1000 UJ	6200 UJ	ND	ND		0/11
Hexachlorocyclopentadiene	1000 UJ	6200 UJ	ND	ND		0/11
2,4,6-Trichlorophenol	1000 UJ	6200 UJ	ND	ND		0/11
2,4,5-Trichlorophenol	2400 UJ	15000 UJ	ND	ND		0/11
2-Chloronaphthalene	1000 UJ	6200 UJ	ND	ND		0/11
2-Nitroaniline	2400 UJ	15000 UJ	ND	ND		0/11
Dimethylphthalate	1000 UJ	6200 UJ	ND	ND		0/11
Acenaphthylene	1000 UJ	6200 UJ	ND	ND		0/11
2,6-Dinitrotoluene	1000 UJ	6200 UJ	ND	ND		0/11
3-Nitroaniline	2400 UJ	15000 UJ	ND	ND		0/11
Acenaphthene	1000 UJ	6200 UJ	ND	ND		0/11
2,4-Dinitrophenol	2400 UJ	15000 UJ	ND	ND		0/11
Dibenzofuran	1000 UJ	6200 UJ	ND	ND		0/11

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont.</b>						
4-Nitrophenol	1000 UJ	6200 UJ	ND	ND		0/11
2,4-Dinitrotoluene	1000 UJ	6200 UJ	ND	ND		0/11
Diethylphthalate	1000 UJ	6200 UJ	ND	ND		0/11
Fluorene	1000 UJ	6200 UJ	ND	ND		0/11
4-Chlorophenyl-phenylether	1000 UJ	6200 UJ	ND	ND		0/11
4-Nitroaniline	2400 UJ	15000 UJ	ND	ND		0/11
4,6-Dinitro-2-methylphenol	2400 UJ	15000 UJ	ND	ND		0/11
N-Nitrosodiphenylamine	1000 UJ	6200 UJ	ND	ND		0/11
4-Bromophenyl-phenylether	1000 UJ	6200 UJ	ND	ND		0/11
Hexachlorobenzene	1000 UJ	6200 UJ	ND	ND		0/11
Pentachlorophenol	2400 UJ	15000 UJ	ND	ND		0/11
Phenanthrene	1000 UJ	6200 UJ	ND	ND		0/11
Anthracene	1000 UJ	6200 UJ	ND	ND		0/11
Carbazole	1000 UJ	6200 UJ	ND	ND		0/11
Di-n-butylphthalate	1000 UJ	6200 UJ	ND	ND		0/11
Fluoranthene	1000 UJ	6200 UJ	ND	ND		0/11
Pyrene	1000 UJ	6200 UJ	ND	ND		0/11
Butylbenzylphthalate	1000 UJ	6200 UJ	ND	ND		0/11
Benzo(a)anthracene	1000 UJ	6200 UJ	ND	ND		0/11
3,3'-Dichlorobenzidine	1000 UJ	6200 UJ	ND	ND		0/11
Chrysene	1000 UJ	6200 UJ	ND	ND		0/11
bis(2-Ethylhexyl)phthalate	1000 UJ	6200 UJ	ND	ND		0/11
Di-n-octylphthalate	1000 UJ	6200 UJ	ND	ND		0/11
Benzo(b)fluoranthene	1000 UJ	6200 UJ	ND	ND		0/11
Benzo(k)fluoranthene	1000 UJ	6200 UJ	ND	ND		0/11
Benzo(a)pyrene	1000 UJ	6200 UJ	ND	ND		0/11
Indeno(1,2,3-cd)pyrene	1000 UJ	6200 UJ	ND	ND		0/11
Dibenz(a,h)anthracene	1000 UJ	6200 UJ	ND	ND		0/11
Benzo(g,h,i)perylene	1000 UJ	6200 UJ	ND	ND		0/11

SITE 36, CAMP GEIGER AREA DUMP  
 WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>PESTICIDE/PCBs</b>						
alpha-BHC	3.7 UJ	16 UJ	ND	ND		0/11
beta-BHC	3.7 UJ	16 UJ	4.8 J	8.3 J	36-FS02-WC-WB02	3/11
delta-BHC	3.7 UJ	16 UJ	ND	ND		0/11
gamma-BHC (Lindane)	3.7 UJ	16 UJ	8 J	8 J	36-FS01-SM-WB01	1/11
Heptachlor	3.7 UJ	16 UJ	7.8 J	7.8 J	36-FS01-SM-WB01	1/11
Aldrin	3.7 UJ	16 UJ	2.6 J	2.6 J	36-FS03-WC-WB01	1/11
Heptachlor epoxide	3.7 UJ	16 UJ	ND	ND		0/11
Endosulfan I	3.7 UJ	16 UJ	ND	ND		0/11
Dieldrin	32 UJ	32 UJ	3.2 J	59 J	35-FS2-AE-WB01	10/11
4,4'-DDE	NA	NA	39 J	434 J	35-FS2-AE-WB01	11/11
Endrin	4.4 UJ	13 UJ	3 J	27 J	36-FS01-SM-WB01	7/11
Endosulfan II	7.2 UJ	32 UJ	3.4 J	3.4 J	36-FS02-WC-WB01	2/11
4,4'-DDD	NA	NA	18 J	319 J	35-FS2-AE-WB01	11/11
Endosulfan sulfate	7.2 UJ	32 UJ	ND	ND		0/11
4,4'-DDT	11 UJ	27 UJ	5.8 J	58 J	35-FS2-AE-WB01	7/11
Methoxychlor	13 UJ	165 UJ	ND	ND		0/11
Endrin ketone	7.2 UJ	32 UJ	3.1 J	14 J	35-FS2-AE-WB01	2/11
Endrin aldehyde	7.2 UJ	27 UJ	3.3 J	6.5 J	35-FS03-LG-WB01	2/11
alpha-Chlordane	3.7 UJ	3.7 UJ	2.9 J	60 J	36-FS01-SM-WB01	10/11
gamma-Chlordane	3.7 UJ	16 UJ	12 J	22 J	36-FS01-SM-WB01	2/11
Toxaphene	371 UJ	1650 UJ	ND	ND		0/11
Aroclor-1016	72 UJ	320 UJ	ND	ND		0/11
Aroclor-1221	146 UJ	650 UJ	ND	ND		0/11
Aroclor-1232	72 UJ	320 UJ	ND	ND		0/11
Aroclor-1242	72 UJ	320 UJ	ND	ND		0/11
Aroclor-1248	72 UJ	320 UJ	ND	ND		0/11
Aroclor-1254	72 UJ	320 UJ	ND	ND		0/11
Aroclor-1260	72 UJ	320 UJ	ND	ND		0/11

**SITE 36, CAMP GEIGER AREA DUMP  
 WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 INORGANIC ANALYTES**

SAMPLE LOCATION	35-FS03-LG-WB01	35-FS3-MC-WB01	36-FS01-SM-WB01	35-FS02-AE-WB01	35-FS02-PS-WB01	35-FS03-PS-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TAL METALS</b>						
Aluminum	18.5 U	35.5	45.8	23.7	24.4	11.2 U
Antimony	17.9 U	17.5 U	10.4 U	13.7 U	12 U	10.5 U
Arsenic	0.45 UJ	2 UJ	0.33 UJ	2 UJ	1.9 UJ	1.7 UJ
Barium	0.39 U	1.1	5	0.89	1.6	1
Beryllium	0.39 U	0.38 U	0.23 U	0.3 U	0.26 U	0.23 U
Cadmium	0.16 U	0.12 U	0.08 U	0.88	0.11 U	0.19 U
Calcium	1910 J	20400 J	11000 J	21600 J	35200 J	50800 J
Chromium	2.7 U	2.7 U	2.7	2.1 U	2.3	2.6
Cobalt	4.3 U	4.2 U	2.5 U	3.3 U	2.9 U	2.5 U
Copper	3.9	4.8	10.9	6.6	3.3	3.2
Iron	392	160	145	113	99.5	72
Lead	0.41 U	0.49 U	0.73 UJ	2.5	0.63 UJ	0.47 UJ
Magnesium	1130	1250	832	1100	1270	1540
Manganese	1.6	7.3	3.6	2.4	4.3	3.4
Mercury	0.2 R	0.68 J	0.15 R	0.19 R	0.18 R	0.16 R
Nickel	4.3 U	4.2 U	2.5 U	3.3 U	2.9 U	2.5 U
Potassium	11000	11600	8970	10100	9630	8970
Selenium	0.52 UJ	0.48 UJ	0.38 UJ	2.3 UJ	2.2 UJ	0.43 J
Silver	1.2 R	1.1 U	2.3 R	0.89 U	0.78 U	0.87 R
Sodium	3730	4260	2710	17200	3150	3600
Thallium	0.22 U	0.2 U	0.16 U	0.2 U	0.19 U	0.17 U
Vanadium	1.9 U	1.9 U	1.1 U	1.5 U	1.3 U	1.1 U
Zinc	42.3	58.3	54	83.8	86.7	77.9

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

SAMPLE LOCATION	35-FS03-PS-WB02	36-FS02-WC-WB01	36-FS02-WC-WB02	36-FS03-WC-WB01
DATE SAMPLED	05/03/94	05/03/94	05/03/94	05/03/94
UNITS	MG/KG	MG/KG	MG/KG	MG/KG
<b>TAL METALS</b>				
Aluminum	10.9 U	68.6 U	33.7 U	30.8 U
Antimony	11.4 U	18 U	19 U	15.4 U
Arsenic	2 UJ	1.8 U	1.7 U	1.2 U
Barium	1	1.3	1.2	0.94
Beryllium	0.25 U	0.39 U	0.41 U	0.34 U
Cadmium	0.25	0.11 U	0.15 U	0.13 U
Calcium	49700 J	8070	23100	9100
Chromium	2.3	2.7 U	3.6	2.5
Cobalt	2.7 U	4.3 U	4.5 U	3.7 U
Copper	3.8	4.2 U	4.7 U	3.2 U
Iron	60.9	106	96.5	80.3
Lead	0.8 U	0.43 R	0.41 R	0.34 U
Magnesium	1370	1100	1270	983
Manganese	4.5	9.6	10.3	5.8
Mercury	0.17 R	0.2 UJ	0.21 UJ	0.17 UJ
Nickel	2.7 U	4.3 U	4.5 U	3.7 U
Potassium	9310	10400	12100	9480
Selenium	0.46 UJ	0.63 J	1 J	0.91 J
Silver	0.74 UJ	2.1	1.2	1
Sodium	3460	3220 U	4050 U	2790 U
Thallium	0.2 U	0.39 U	0.33 U	0.2 U
Vanadium	1.2 U	2 U	2.1 U	1.7 U
Zinc	87.1	62.1	56.5	51.4

**SITE 36, CAMP GEIGER AREA DUMP**  
**WHOLE BODY FISH - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

SAMPLE LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TAL METALS</b>						
Aluminum	10.9 U	68.6 U	23.7	45.8	36-FS01-SM-WB01	4/10
Antimony	10.4 U	19 U	ND	ND		0/10
Arsenic	0.33 UJ	2 UJ	ND	ND		0/10
Barium	0.39 U	0.39 U	0.89	5	36-FS01-SM-WB01	9/10
Beryllium	0.23 U	0.41 U	ND	ND		0/10
Cadmium	0.08 U	0.19 U	0.25	0.88	35-FS02-AE-WB01	2/10
Calcium	NA	NA	1910 J	50800 J	35-FS03-PS-WB01	10/10
Chromium	2.1 U	2.7 U	2.3	3.6	36-FS02-WC-WB02	6/10
Cobalt	2.5 U	4.5 U	ND	ND		0/10
Copper	3.2 U	4.7 U	3.2	10.9	36-FS01-SM-WB01	7/10
Iron	NA	NA	60.9	392	35-FS03-LG-WB01	10/10
Lead	0.34 U	0.8 U	2.5	2.5	35-FS02-AE-WB01	1/8
Magnesium	NA	NA	832	1540	35-FS03-PS-WB01	10/10
Manganese	NA	NA	1.6	10.3	36-FS02-WC-WB02	10/10
Mercury	0.17 UJ	0.21 UJ	0.68 J	0.68 J	35-FS3-MC-WB01	1/4
Nickel	2.5 U	4.5 U	ND	ND		0/10
Potassium	NA	NA	8970	12100	36-FS02-WC-WB02	10/10
Selenium	0.38 UJ	2.3 UJ	0.43 J	1 J	36-FS02-WC-WB02	4/10
Silver	0.74 UJ	1.1 U	1	2.1	36-FS02-WC-WB01	3/7
Sodium	2790 U	4050 U	2710	17200	35-FS02-AE-WB01	7/10
Thallium	0.16 U	0.39 U	ND	ND		0/10
Vanadium	1.1 U	2.1 U	ND	ND		0/10
Zinc	NA	NA	42.3	87.1	35-FS03-PS-WB02	10/10

**CRAB**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**CRAB - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	36-FS02-BC01	36-FS03-BC01	36-FS03-BC02
DATE SAMPLED	05/26/94	05/26/94	05/26/94
UNITS	ug/kg	ug/kg	ug/kg
<b>VOLATILES</b>			
Chloromethane	65 UJ	62 UJ	65 UJ
Bromomethane	65 UJ	62 UJ	65 UJ
Vinyl Chloride	65 UJ	62 UJ	65 UJ
Chloroethane	65 UJ	62 UJ	65 UJ
Methylene Chloride	6549	7192	16317
Acetone	54320 J	95199	372323
Carbon Disulfide	65 UJ	62 UJ	65 UJ
1,1-Dichloroethene	65 UJ	62 UJ	65 UJ
1,1-Dichloroethane	65 UJ	62 UJ	65 UJ
1,2-Dichloroethene (total)	65 UJ	62 UJ	65 UJ
Chloroform	65 UJ	62 UJ	65 UJ
1,2-Dichloroethane	65 UJ	62 UJ	65 UJ
2-Butanone	65 UJ	62 UJ	65 UJ
1,1,1-Trichloroethane	65 UJ	62 UJ	65 UJ
Carbon Tetrachloride	65 UJ	62 UJ	65 UJ
Bromodichloromethane	65 UJ	62 UJ	65 UJ
1,2-Dichloropropane	65 UJ	62 UJ	65 UJ
cis-1,3-Dichloropropene	65 UJ	62 UJ	65 UJ
Trichloroethene	65 UJ	62 UJ	65 UJ
Dibromochloromethane	65 UJ	62 UJ	65 UJ
1,1,2-Trichloroethane	65 UJ	62 UJ	65 UJ
Benzene	65 UJ	62 UJ	65 UJ
trans-1,3-Dichloropropene	65 UJ	62 UJ	65 UJ
Bromoform	65 UJ	62 UJ	65 UJ
4-Methyl-2-Pentanone	65 UJ	62 UJ	65 UJ
2-Hexanone	65 UJ	62 UJ	65 UJ
Tetrachloroethene	65 UJ	62 UJ	65 UJ
1,1,1,2-Tetrachloroethane	65 UJ	62 UJ	65 UJ
Toluene	65 UJ	62 UJ	65 UJ
Chlorobenzene	65 UJ	62 UJ	65 UJ
Ethylbenzene	65 UJ	62 UJ	65 UJ
Styrene	65 UJ	62 UJ	65 UJ
Xylene (total)	65 UJ	62 UJ	65 UJ



**SITE 36, CAMP GEIGER AREA DUMP  
 CRAB - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

SAMPLE	36-FS02-BC01	36-FS03-BC01	36-FS03-BC02
DATE SAMPLED	05/26/94	05/26/94	05/26/94
UNITS	ug/kg	ug/kg	ug/kg
<b>SEMIVOLATILES</b>			
Phenol	1719 UJ	1650 UJ	1719 UJ
bis(2-Chloroethyl)ether	1719 UJ	1650 UJ	1719 UJ
2-Chlorophenol	1719 UJ	1650 UJ	1719 UJ
1,3-Dichlorobenzene	1719 UJ	1650 UJ	1719 UJ
1,4-Dichlorobenzene	1719 UJ	1650 UJ	1719 UJ
1,2-Dichlorobenzene	1719 UJ	1650 UJ	1719 UJ
2-Methylphenol	1719 UJ	1650 UJ	1719 UJ
2,2'-oxybis(1-Chloropropane)	1719 UJ	1650 UJ	1719 UJ
4-Methylphenol	1719 UJ	1650 UJ	1719 UJ
N-Nitroso-di-n-propylamine	1719 UJ	1650 UJ	1719 UJ
Hexachloroethane	1719 UJ	1650 UJ	1719 UJ
Nitrobenzene	1719 UJ	1650 UJ	1719 UJ
Isophorone	1719 UJ	1650 UJ	1719 UJ
2-Nitrophenol	1719 UJ	1650 UJ	1719 UJ
2,4-Dimethylphenol	1719 UJ	1650 UJ	1719 UJ
bis(2-Chloroethoxy)methane	1719 UJ	1650 UJ	1719 UJ
2,4-Dichlorophenol	1719 UJ	1650 UJ	1719 UJ
1,2,4-Trichlorobenzene	1719 UJ	1650 UJ	1719 UJ
Naphthalene	1719 UJ	1650 UJ	1719 UJ
4-Chloroaniline	1719 UJ	1650 UJ	1719 UJ
Hexachlorobutadiene	1719 UJ	1650 UJ	1719 UJ
4-Chloro-3-methylphenol	1719 UJ	1650 UJ	1719 UJ
2-Methylnaphthalene	1719 UJ	1650 UJ	1719 UJ
Hexachlorocyclopentadiene	1719 UJ	1650 UJ	1719 UJ
2,4,6-Trichlorophenol	1719 UJ	1650 UJ	1719 UJ
2,4,5-Trichlorophenol	4167 UJ	4000 UJ	4167 UJ
2-Chloronaphthalene	1719 UJ	1650 UJ	1719 UJ
2-Nitroaniline	4167 UJ	4000 UJ	4167 UJ
Dimethylphthalate	1719 UJ	1650 UJ	1719 UJ
Acenaphthylene	1719 UJ	1650 UJ	1719 UJ
2,6-Dinitrotoluene	1719 UJ	1650 UJ	1719 UJ
3-Nitroaniline	4167 UJ	4000 UJ	4167 UJ
Acenaphthene	1719 UJ	1650 UJ	1719 UJ
2,4-Dinitrophenol	4167 UJ	4000 UJ	4167 UJ
Dibenzofuran	1719 UJ	1650 UJ	1719 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
 CRAB - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

SAMPLE	36-FS02-BC01	36-FS03-BC01	36-FS03-BC02
DATE SAMPLED	05/26/94	05/26/94	05/26/94
UNITS	ug/kg	ug/kg	ug/kg
<b>SEMIVOLATILES cont.</b>			
4-Nitrophenol	1719 UJ	1650 UJ	1719 UJ
2,4-Dinitrotoluene	1719 UJ	1650 UJ	1719 UJ
Diethylphthalate	1719 UJ	1650 UJ	1719 UJ
Fluorene	1719 UJ	1650 UJ	1719 UJ
4-Chlorophenyl-phenylether	1719 UJ	1650 UJ	1719 UJ
4-Nitroaniline	4167 UJ	4000 UJ	4167 UJ
4,6-Dinitro-2-methylphenol	4167 UJ	4000 UJ	4167 UJ
N-Nitrosodiphenylamine	1719 UJ	1650 UJ	1719 UJ
4-Bromophenyl-phenylether	1719 UJ	1650 UJ	1719 UJ
Hexachlorobenzene	1719 UJ	1650 UJ	1719 UJ
Pentachlorophenol	4167 UJ	4000 UJ	4167 UJ
Phenanthrene	1719 UJ	1650 UJ	1719 UJ
Anthracene	1719 UJ	1650 UJ	1719 UJ
Carbazole	1719 UJ	1650 UJ	1719 UJ
Di-n-butylphthalate	1719 UJ	1650 UJ	1719 UJ
Fluoranthene	1719 UJ	1650 UJ	1719 UJ
Pyrene	1719 UJ	1650 UJ	1719 UJ
Butylbenzylphthalate	1719 UJ	1650 UJ	1719 UJ
Benzo(a)anthracene	1719 UJ	1650 UJ	1719 UJ
3,3'-Dichlorobenzidine	1719 UJ	1650 UJ	1719 UJ
Chrysene	1719 UJ	1650 UJ	1719 UJ
bis(2-Ethylhexyl)phthalate	1719 UJ	1650 UJ	1719 UJ
Di-n-octylphthalate	1719 UJ	1650 UJ	1719 UJ
Benzo(b)fluoranthene	1719 UJ	1650 UJ	1719 UJ
Benzo(k)fluoranthene	1719 UJ	1650 UJ	1719 UJ
Benzo(a)pyrene	1719 UJ	1650 UJ	1719 UJ
Indeno(1,2,3-cd)pyrene	1719 UJ	1650 UJ	1719 UJ
Dibenz(a,h)anthracene	1719 UJ	1650 UJ	1719 UJ
Benzo(g,h,i)perylene	1719 UJ	1650 UJ	1719 UJ

**SITE 36, CAMP GEIGER AREA DUMP  
 CRAB - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

SAMPLE	36-FS02-BC01	36-FS03-BC01	36-FS03-BC02
DATE SAMPLED	05/26/94	05/26/94	05/26/94
UNITS	ug/kg	ug/kg	ug/kg
<b>PESTICIDE/PCBs</b>			
alpha-BHC	8.8 UJ	8.5 UJ	8.8 UJ
beta-BHC	8.9 J	8.4 J	6.8 J
delta-BHC	8.8 UJ	8.5 UJ	8.8 UJ
gamma-BHC (Lindane)	3.6 J	2.1 J	8.8 UJ
Heptachlor	2.6 J	8.5 UJ	8.8 UJ
Aldrin	8.8 UJ	2.3 J	8.8 UJ
Heptachlor epoxide	8.8 UJ	8.5 UJ	8.8 UJ
Endosulfan I	8.8 UJ	8.5 UJ	8.8 UJ
Dieldrin	9.4 J	6 J	8.8 J
4,4'-DDE	101 J	42 J	48 J
Endrin	8.8 UJ	8.5 UJ	8.8 UJ
Endosulfan II	17 UJ	16 UJ	17 UJ
4,4'-DDD	49 J	19 J	33 J
Endosulfan sulfate	17 UJ	16 UJ	17 UJ
4,4'-DDT	2.5 J	16 UJ	17 U
Methoxychlor	88 UJ	85 UJ	88 U
Endrin ketone	17 UJ	16 UJ	17 U
Endrin aldehyde	17 UJ	16 UJ	17 U
alpha-Chlordane	3.7 J	3.6 J	8.8 U
gamma-Chlordane	8.8 UJ	8.5 UJ	8.8 U
Toxaphene	885 UJ	846 UJ	885 U
Aroclor-1016	172 UJ	164 UJ	172 U
Aroclor-1221	349 UJ	333 UJ	349 U
Aroclor-1232	172 UJ	164 UJ	172 U
Aroclor-1242	172 UJ	164 UJ	172 U
Aroclor-1248	172 UJ	164 UJ	172 U
Aroclor-1254	172 UJ	164 UJ	172 U
Aroclor-1260	172 UJ	164 UJ	172 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**CRAB - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIATION INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
Chloromethane	62 UJ	65 UJ	ND	ND		0/3
Bromomethane	62 UJ	65 UJ	ND	ND		0/3
Vinyl Chloride	62 UJ	65 UJ	ND	ND		0/3
Chloroethane	62 UJ	65 UJ	ND	ND		0/3
Methylene Chloride	NA	NA	6549	16317	36-FS03-BC02	3/3
Acetone	NA	NA	54320 J	372323	36-FS03-BC02	3/3
Carbon Disulfide	62 UJ	65 UJ	ND	ND		0/3
1,1-Dichloroethene	62 UJ	65 UJ	ND	ND		0/3
1,1-Dichloroethane	62 UJ	65 UJ	ND	ND		0/3
1,2-Dichloroethene (total)	62 UJ	65 UJ	ND	ND		0/3
Chloroform	62 UJ	65 UJ	ND	ND		0/3
1,2-Dichloroethane	62 UJ	65 UJ	ND	ND		0/3
2-Butanone	62 UJ	65 UJ	ND	ND		0/3
1,1,1-Trichloroethane	62 UJ	65 UJ	ND	ND		0/3
Carbon Tetrachloride	62 UJ	65 UJ	ND	ND		0/3
Bromodichloromethane	62 UJ	65 UJ	ND	ND		0/3
1,2-Dichloropropane	62 UJ	65 UJ	ND	ND		0/3
cis-1,3-Dichloropropene	62 UJ	65 UJ	ND	ND		0/3
Trichloroethene	62 UJ	65 UJ	ND	ND		0/3
Dibromochloromethane	62 UJ	65 UJ	ND	ND		0/3
1,1,2-Trichloroethane	62 UJ	65 UJ	ND	ND		0/3
Benzene	62 UJ	65 UJ	ND	ND		0/3
trans-1,3-Dichloropropene	62 UJ	65 UJ	ND	ND		0/3
Bromoform	62 UJ	65 UJ	ND	ND		0/3
4-Methyl-2-Pentanone	62 UJ	65 UJ	ND	ND		0/3
2-Hexanone	62 UJ	65 UJ	ND	ND		0/3
Tetrachloroethene	62 UJ	65 UJ	ND	ND		0/3
1,1,2,2-Tetrachloroethane	62 UJ	65 UJ	ND	ND		0/3
Toluene	62 UJ	65 UJ	ND	ND		0/3
Chlorobenzene	62 UJ	65 UJ	ND	ND		0/3
Ethylbenzene	62 UJ	65 UJ	ND	ND		0/3
Styrene	62 UJ	65 UJ	ND	ND		0/3
Xylene (total)	62 UJ	65 UJ	ND	ND		0/3

**SITE 36, CAMP GEIGER AREA DUMP  
CRAB - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
Phenol	1650 UJ	1719 UJ	ND	ND		0/3
bis(2-Chloroethyl)ether	1650 UJ	1719 UJ	ND	ND		0/3
2-Chlorophenol	1650 UJ	1719 UJ	ND	ND		0/3
1,3-Dichlorobenzene	1650 UJ	1719 UJ	ND	ND		0/3
1,4-Dichlorobenzene	1650 UJ	1719 UJ	ND	ND		0/3
1,2-Dichlorobenzene	1650 UJ	1719 UJ	ND	ND		0/3
2-Methylphenol	1650 UJ	1719 UJ	ND	ND		0/3
2,2'-oxybis(1-Chloropropane)	1650 UJ	1719 UJ	ND	ND		0/3
4-Methylphenol	1650 UJ	1719 UJ	ND	ND		0/3
N-Nitroso-di-n-propylamine	1650 UJ	1719 UJ	ND	ND		0/3
Hexachloroethane	1650 UJ	1719 UJ	ND	ND		0/3
Nitrobenzene	1650 UJ	1719 UJ	ND	ND		0/3
Isophorone	1650 UJ	1719 UJ	ND	ND		0/3
2-Nitrophenol	1650 UJ	1719 UJ	ND	ND		0/3
2,4-Dimethylphenol	1650 UJ	1719 UJ	ND	ND		0/3
bis(2-Chloroethoxy)methane	1650 UJ	1719 UJ	ND	ND		0/3
2,4-Dichlorophenol	1650 UJ	1719 UJ	ND	ND		0/3
1,2,4-Trichlorobenzene	1650 UJ	1719 UJ	ND	ND		0/3
Naphthalene	1650 UJ	1719 UJ	ND	ND		0/3
4-Chloroaniline	1650 UJ	1719 UJ	ND	ND		0/3
Hexachlorobutadiene	1650 UJ	1719 UJ	ND	ND		0/3
4-Chloro-3-methylphenol	1650 UJ	1719 UJ	ND	ND		0/3
2-Methylnaphthalene	1650 UJ	1719 UJ	ND	ND		0/3
Hexachlorocyclopentadiene	1650 UJ	1719 UJ	ND	ND		0/3
2,4,6-Trichlorophenol	1650 UJ	1719 UJ	ND	ND		0/3
2,4,5-Trichlorophenol	4000 UJ	4167 UJ	ND	ND		0/3
2-Chloronaphthalene	1650 UJ	1719 UJ	ND	ND		0/3
2-Nitroaniline	4000 UJ	4167 UJ	ND	ND		0/3
Dimethylphthalate	1650 UJ	1719 UJ	ND	ND		0/3
Acenaphthylene	1650 UJ	1719 UJ	ND	ND		0/3
2,6-Dinitrotoluene	1650 UJ	1719 UJ	ND	ND		0/3
3-Nitroaniline	4000 UJ	4167 UJ	ND	ND		0/3
Acenaphthene	1650 UJ	1719 UJ	ND	ND		0/3
2,4-Dinitrophenol	4000 UJ	4167 UJ	ND	ND		0/3
Dibenzofuran	1650 UJ	1719 UJ	ND	ND		0/3

**SITE 36, CAMP GEIGER AREA DUMP**  
**CRAB - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont.</b>						
4-Nitrophenol	1650 UJ	1719 UJ	ND	ND		0/3
2,4-Dinitrotoluene	1650 UJ	1719 UJ	ND	ND		0/3
Diethylphthalate	1650 UJ	1719 UJ	ND	ND		0/3
Fluorene	1650 UJ	1719 UJ	ND	ND		0/3
4-Chlorophenyl-phenylether	1650 UJ	1719 UJ	ND	ND		0/3
4-Nitroaniline	4000 UJ	4167 UJ	ND	ND		0/3
4,6-Dinitro-2-methylphenol	4000 UJ	4167 UJ	ND	ND		0/3
N-Nitrosodiphenylamine	1650 UJ	1719 UJ	ND	ND		0/3
4-Bromophenyl-phenylether	1650 UJ	1719 UJ	ND	ND		0/3
Hexachlorobenzene	1650 UJ	1719 UJ	ND	ND		0/3
Pentachlorophenol	4000 UJ	4167 UJ	ND	ND		0/3
Phenanthrene	1650 UJ	1719 UJ	ND	ND		0/3
Anthracene	1650 UJ	1719 UJ	ND	ND		0/3
Carbazole	1650 UJ	1719 UJ	ND	ND		0/3
Di-n-butylphthalate	1650 UJ	1719 UJ	ND	ND		0/3
Fluoranthene	1650 UJ	1719 UJ	ND	ND		0/3
Pyrene	1650 UJ	1719 UJ	ND	ND		0/3
Butylbenzylphthalate	1650 UJ	1719 UJ	ND	ND		0/3
Benzo(a)anthracene	1650 UJ	1719 UJ	ND	ND		0/3
3,3'-Dichlorobenzidine	1650 UJ	1719 UJ	ND	ND		0/3
Chrysene	1650 UJ	1719 UJ	ND	ND		0/3
bis(2-Ethylhexyl)phthalate	1650 UJ	1719 UJ	ND	ND		0/3
Di-n-octylphthalate	1650 UJ	1719 UJ	ND	ND		0/3
Benzo(b)fluoranthene	1650 UJ	1719 UJ	ND	ND		0/3
Benzo(k)fluoranthene	1650 UJ	1719 UJ	ND	ND		0/3
Benzo(a)pyrene	1650 UJ	1719 UJ	ND	ND		0/3
Indeno(1,2,3-cd)pyrene	1650 UJ	1719 UJ	ND	ND		0/3
Dibenz(a,h)anthracene	1650 UJ	1719 UJ	ND	ND		0/3
Benzo(g,h,i)perylene	1650 UJ	1719 UJ	ND	ND		0/3

**SITE 36, CAMP GEIGER AREA DUMP  
CRAB - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>PESTICIDE/PCBs</b>						
alpha-BHC	8.5 UJ	8.8 UJ	ND	ND		0/3
beta-BHC	NA	NA	6.8 J	8.9 J	36-FS02-BC01	3/3
delta-BHC	8.5 UJ	8.8 UJ	ND	ND		0/3
gamma-BHC (Lindane)	8.8 UJ	8.8 UJ	2.1 J	3.6 J	36-FS02-BC01	2/3
Heptachlor	8.5 UJ	8.8 UJ	2.6 J	2.6 J	36-FS02-BC01	1/3
Aldrin	8.8 UJ	8.8 UJ	2.3 J	2.3 J	36-FS03-BC01	1/3
Heptachlor epoxide	8.5 UJ	8.8 UJ	ND	ND		0/3
Endosulfan I	8.5 UJ	8.8 UJ	ND	ND		0/3
Dieldrin	NA	NA	6 J	9.4 J	36-FS02-BC01	3/3
4,4'-DDE	NA	NA	42 J	101 J	36-FS02-BC01	3/3
Endrin	8.5 UJ	8.8 UJ	ND	ND		0/3
Endosulfan II	16 UJ	17 UJ	ND	ND		0/3
4,4'-DDD	NA	NA	19 J	49 J	36-FS02-BC01	3/3
Endosulfan sulfate	16 UJ	17 UJ	ND	ND		0/3
4,4'-DDT	16 UJ	17 U	2.5 J	2.5 J	36-FS02-BC01	1/3
Methoxychlor	85 UJ	88 UJ	ND	ND		0/3
Endrin ketone	16 UJ	17 UJ	ND	ND		0/3
Endrin aldehyde	16 UJ	17 UJ	ND	ND		0/3
alpha-Chlordane	8.8 U	8.8 U	3.6 J	3.7 J	36-FS02-BC01	2/3
gamma-Chlordane	8.5 UJ	8.8 UJ	ND	ND		0/3
Toxaphene	846 UJ	885 UJ	ND	ND		0/3
Aroclor-1016	164 UJ	172 UJ	ND	ND		0/3
Aroclor-1221	333 UJ	349 UJ	ND	ND		0/3
Aroclor-1232	164 UJ	172 UJ	ND	ND		0/3
Aroclor-1242	164 UJ	172 UJ	ND	ND		0/3
Aroclor-1248	164 UJ	172 UJ	ND	ND		0/3
Aroclor-1254	164 UJ	172 UJ	ND	ND		0/3
Aroclor-1260	164 UJ	172 UJ	ND	ND		0/3

**SITE 36, CAMP GEIGER AREA DUMP  
 CRAB - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 INORGANIC ANALYTES**

SAMPLE LOCATION	36-FS02-BC01	36-FS03-BC01	36-FS03-BC02
DATE SAMPLED	05/26/94	05/26/94	05/26/94
UNITS	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>			
Aluminum	19.3	11.7 U	10 U
Antimony	22.4 U	22.9 U	23 U
Arsenic	0.94 UJ	1.4 J	1 UJ
Barium	0.73 U	0.71 U	0.5 U
Beryllium	0.49 U	0.5 U	0.5 U
Cadmium	0.8	0.16	0.07 U
Calcium	1970 J	2170 J	1740 J
Chromium	3.4 U	3.5 U	3.5 U
Cobalt	6.9	5.5 U	5.5 U
Copper	26.3	27.5	22.3
Iron	39.9	40.2	20.4
Lead	0.61 J	0.58 J	0.51 J
Magnesium	1550 J	1500 J	1500 J
Manganese	1.4 U	1.6 U	1.7
Mercury	1.3 R	0.9 R	0.9 R
Nickel	5.4 U	5.5 U	5.5 U
Potassium	13500	13000	14400
Selenium	0.8 J	0.72 J	0.71 UJ
Silver	1.5 U	1.5 U	1.5 U
Sodium	15300	14200	14900
Thallium	0.47 UJ	0.48 UJ	0.51 UJ
Vanadium	2.4 U	2.5 U	2.5 U
Zinc	104	130	93.8



**SITE 36, CAMP GEIGER AREA DUMP  
 CRAB - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 INORGANIC ANALYTES**

SAMPLE LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TOTAL METALS</b>						
Aluminum	10 U	11.7 U	19.3	19.3	36-FS02-BC01	1/3
Antimony	22.4 U	23 U	ND	ND		0/3
Arsenic	0.94 UJ	1 UJ	1.4 J	1.4 J	36-FS03-BC01	1/3
Barium	0.5 U	0.73 U	ND	ND		0/3
Beryllium	0.49 U	0.5 U	ND	ND		0/3
Cadmium	0.07 U	0.07 U	0.16	0.8	36-FS02-BC01	2/3
Calcium	NA	NA	1740 J	2170 J	36-FS03-BC01	3/3
Chromium	3.4 U	3.5 U	ND	ND		0/3
Cobalt	5.5 U	5.5 U	6.9	6.9	36-FS02-BC01	1/3
Copper	NA	NA	22.3	27.5	36-FS03-BC01	3/3
Iron	NA	NA	20.4	40.2	36-FS03-BC01	3/3
Lead	NA	NA	0.51 J	0.61 J	36-FS02-BC01	3/3
Magnesium	NA	NA	1500 J	1550 J	36-FS02-BC01	3/3
Manganese	1.4 U	1.6 U	1.7	1.7	36-FS03-BC02	1/3
Mercury	NA	NA	ND	ND		0/0
Nickel	5.4 U	5.5 U	ND	ND		0/3
Potassium	NA	NA	13000	14400	36-FS03-BC02	3/3
Selenium	0.71 UJ	0.71 UJ	0.72 J	0.8 J	36-FS02-BC01	2/3
Silver	1.5 U	1.5 U	ND	ND		0/3
Sodium	NA	NA	14200	15300	36-FS02-BC01	3/3
Thallium	0.47 UJ	0.51 UJ	ND	ND		0/3
Vanadium	2.4 U	2.5 U	ND	ND		0/3
Zinc	NA	NA	93.8	130	36-FS03-BC01	3/3

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## APPENDIX I STATISTICAL SUMMARIES

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**SOIL**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>VOLATILES</b>						
ACETONE	7.96	8.27	9.73	1.93	0.41	8.22
TRICHLOROETHENE	7.25	7.56	8.87	1.87	0.33	7.38
TETRACHLOROETHENE	7.14	7.62	8.77	1.83	0.40	7.42
TOLUENE	9.63	14.80	12.80	1.97	0.54	9.50
STYRENE	7.84	8.57	9.67	1.91	0.39	7.98
XYLENE (TOTAL)	7.25	7.55	8.87	1.87	0.32	7.37
<b>SEMIVOLATILES</b>						
N-NITROSO-DI-N-PROPYLAMINE	211.93	29.29	218.46	5.35	0.13	218.14
NAPHTHALENE	206.19	35.21	214.05	5.31	0.24	219.48
2-METHYLNAPHTHALENE	205.63	36.73	213.82	5.30	0.24	219.30
ACENAPHTHENE	212.54	29.90	219.21	5.35	0.13	218.84
DIBENZOFURAN	209.39	26.59	215.32	5.34	0.12	215.31
FLUORENE	210.26	25.40	215.93	5.34	0.11	215.80
PHENANTHRENE	243.63	306.66	312.03	5.33	0.42	251.83
ANTHRACENE	220.44	79.59	238.19	5.37	0.21	229.58
CARBAZOLE	210.96	25.66	216.69	5.34	0.12	216.59
FLUORANTHENE	292.84	703.03	449.65	5.33	0.51	268.60
PYRENE	382.88	1432.05	702.30	5.29	0.63	289.09
BUTYLBENZYLPHTHALATE	207.12	36.99	215.37	5.31	0.24	220.42
BENZO(A)ANTHRACENE	272.12	490.24	381.47	5.37	0.45	265.94
CHRYSENE	276.05	584.55	406.44	5.31	0.53	266.49
BIS(2-ETHYLHEXYL)PHTHALATE	227.04	107.43	251.00	5.34	0.43	253.44
BENZO(B)FLUORANTHENE	264.77	451.16	365.40	5.35	0.46	262.34
BENZO(K)FLUORANTHENE	230.33	174.52	269.26	5.35	0.36	245.50
BENZO(A)PYRENE	261.84	411.00	353.52	5.36	0.44	263.13
INDENO(1,2,3-CD)PYRENE	248.49	332.78	322.72	5.34	0.45	257.22
DIBENZO(A,H)ANTHRACENE	219.39	72.10	235.47	5.36	0.20	228.12
BENZO(G,H,I)PERYLENE	248.86	291.12	313.79	5.39	0.34	251.41

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - STATISTICAL SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>PESTICIDES/PCBs</b>						
GAMMA-BHC (LINDANE)	2.29	6.67	3.78	0.22	0.68	1.90
HEPTACHLOR	2.26	6.66	3.75	0.22	0.66	1.85
ALDRIN	26.98	185.23	68.29	0.40	1.17	4.44
HEPTACHLOR EPOXIDE	4.22	11.16	6.71	0.50	0.99	3.67
ENDOSULFAN I	7.09	29.38	13.65	0.42	1.11	4.13
DIELDRIN	296.90	2117.40	769.19	1.76	1.68	48.73
4,4'-DDE	167.15	406.94	257.92	3.43	1.88	440.33
ENDRIN	4.63	13.34	7.61	0.93	0.69	3.85
4,4'-DDD	35.29	86.11	54.50	2.15	1.53	52.64
ENDOSULFAN SULFATE	4.54	13.32	7.51	0.91	0.66	3.73
4,4'-DDT	313.04	1635.82	677.91	2.90	1.85	240.54
ENDRIN KETONE	4.72	13.39	7.71	0.93	0.70	3.98
ENDRIN ALDEHYDE	4.67	13.36	7.65	0.93	0.69	3.89
ALPHA-CHLORDANE	25.97	132.02	55.41	0.85	1.52	14.04
GAMMA-CHLORDANE	18.33	111.09	43.11	0.58	1.26	6.45
AROCLOR-1248	587.79	3186.01	1298.43	3.76	1.58	291.42
AROCLOR-1254	58.47	149.19	91.75	3.33	0.84	50.60

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	4946.15	3129.88	5677.07	8.35	0.57	5808.71
ANTIMONY, TOTAL	3.09	4.60	4.23	0.81	0.64	3.38
ARSENIC, TOTAL	1.62	2.00	2.09	-0.03	1.01	2.40
BARIUM, TOTAL	24.42	23.28	29.86	2.87	0.80	31.66
BERYLLIUM, TOTAL	0.08	0.03	0.09	-2.56	0.44	0.10
CADMIUM, TOTAL	0.65	0.93	0.87	-0.81	0.71	0.71
CALCIUM, TOTAL	10950.21	19360.97	15471.56	7.75	1.96	45291.21
CHROMIUM, TOTAL	9.17	8.22	11.09	1.95	0.71	11.29
COBALT, TOTAL	0.76	1.30	1.06	-0.73	0.76	0.82
COPPER, TOTAL	27.42	66.34	42.91	1.72	1.92	98.22
IRON, TOTAL	8993.90	16644.89	12880.96	8.43	1.01	11299.70
LEAD, TOTAL	70.35	137.87	102.55	3.32	1.29	110.52
MAGNESIUM, TOTAL	301.87	228.30	355.18	5.44	0.76	388.50
MANGANESE, TOTAL	62.32	137.12	94.34	3.17	1.32	101.62
MERCURY, TOTAL	0.29	0.52	0.42	-2.15	1.19	0.37
NICKEL, TOTAL	3.57	7.02	5.21	0.63	0.97	4.19
POTASSIUM, TOTAL	183.22	141.63	216.30	4.93	0.78	238.82
SELENIUM, TOTAL	0.23	0.12	0.26	-1.56	0.45	0.26
SILVER, TOTAL	0.80	1.82	1.25	-0.86	0.82	0.79
SODIUM, TOTAL	39.57	54.97	52.40	3.16	0.99	53.87
VANADIUM, TOTAL	12.73	10.16	15.10	2.29	0.72	16.00
ZINC, TOTAL	122.75	251.51	181.48	3.36	1.76	346.11

SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - STATISTICAL SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>VOLATILES</b>						
ACETONE	27.83	77.00	44.17	2.29	1.04	23.93
1,2-DICHLOROETHENE (TOTAL)	6.15	0.94	6.35	1.81	0.12	6.32
2-BUTANONE	8.94	20.84	13.37	1.88	0.45	8.06
TRICHLOROETHENE	6.09	1.03	6.31	1.79	0.15	6.30
BENZENE	6.14	0.98	6.35	1.80	0.14	6.33
TOLUENE	6.65	2.13	7.10	1.86	0.23	6.95
XYLENE (TOTAL)	5.96	1.24	6.22	1.76	0.23	6.30
<b>SEMIVOLATILES</b>						
1,4-DICHLOROBENZENE	201.79	33.65	209.29	5.30	0.15	208.68
2-METHYLPHENOL	208.71	50.40	219.85	5.32	0.16	215.87
4-METHYLPHENOL	200.66	36.92	208.82	5.28	0.23	213.11
ISOPHORONE	236.12	250.87	291.59	5.35	0.33	239.86
NAPHTHALENE	200.63	37.40	208.97	5.28	0.24	213.73
2-METHYLNAPHTHALENE	199.04	38.84	207.70	5.27	0.22	210.22
PHENANTHRENE	198.56	39.45	207.36	5.27	0.24	211.35
DI-N-BUTYLPHTHALATE	349.50	324.80	421.32	5.59	0.65	395.43
FLUORANTHENE	203.42	35.97	211.44	5.30	0.14	209.89
PYRENE	197.44	44.87	207.45	5.26	0.26	211.27
BUTYLBENZYLPHTHALATE	198.81	39.38	207.59	5.27	0.25	212.29
BENZO(A)ANTHRACENE	198.14	38.17	206.65	5.27	0.20	208.17
CHRYSENE	195.81	43.66	205.54	5.24	0.30	213.05
BIS(2-ETHYLHEXYL)PHTHALATE	191.93	78.07	209.19	5.16	0.48	220.99
BENZO(B)FLUORANTHENE	194.05	44.79	204.04	5.23	0.31	211.76
BENZO(K)FLUORANTHENE	195.67	44.65	205.63	5.24	0.31	213.22
BENZO(A)PYRENE	197.23	45.11	207.29	5.26	0.25	209.92
INDENO(1,2,3-CD)PYRENE	196.21	43.41	205.89	5.25	0.29	212.40
BENZO(G,H,I)PERYLENE	198.44	40.11	207.39	5.27	0.26	212.50

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>PESTICIDE/PCBs</b>						
GAMMA-BHC (LINDANE)	1.37	1.68	1.74	0.10	0.46	1.39
ALDRIN	1.97	3.38	2.73	0.22	0.69	1.91
HEPTACHLOR EPOXIDE	1.56	2.29	2.07	0.14	0.56	1.56
DIELDRIN	26.68	159.84	62.65	1.27	1.16	10.39
4,4'-DDE	114.07	287.07	178.67	2.50	2.16	433.30
ENDRIN	2.75	3.26	3.48	0.82	0.46	2.82
ENDOSULFAN II	2.61	3.24	3.34	0.77	0.43	2.64
4,4'-DDD	81.54	199.95	126.53	2.36	2.02	256.17
4,4'-DDT	82.02	416.41	175.72	1.93	1.70	60.62
ENDRIN ALDEHYDE	3.21	5.09	4.35	0.84	0.57	3.16
ALPHA-CHLORDANE	17.79	101.36	40.60	0.48	1.24	5.36
GAMMA-CHLORDANE	17.29	103.29	40.53	0.43	1.21	4.86
AROCLOR-1248	50.15	125.62	78.42	3.24	0.79	43.39



**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	5616.57	3988.83	6557.16	8.41	0.71	7190.02
ANTIMONY, TOTAL	3.23	4.08	4.27	0.82	0.71	3.71
ARSENIC, TOTAL	3.30	4.90	4.45	0.23	1.46	6.84
BARIUM, TOTAL	46.12	89.45	67.21	2.85	1.30	70.37
BERYLLIUM, TOTAL	0.08	0.03	0.09	-2.61	0.50	0.10
CADMIUM, TOTAL	2.54	8.07	4.44	-0.63	1.28	2.11
CALCIUM, TOTAL	3937.65	9478.49	6172.75	6.21	2.21	23775.05
CHROMIUM, TOTAL	11.81	13.50	14.99	2.00	0.94	15.92
COBALT, TOTAL	1.40	2.35	1.95	-0.48	1.10	1.74
COPPER, TOTAL	65.81	217.79	117.17	1.22	2.46	344.56
IRON, TOTAL	16746.18	28322.31	23424.78	8.61	1.48	31266.78
LEAD, TOTAL	189.45	497.40	306.74	3.10	1.99	473.54
MAGNESIUM, TOTAL	307.09	405.71	402.76	5.26	0.97	429.98
MANGANESE, TOTAL	119.73	274.18	184.39	2.76	2.07	506.62
MERCURY, TOTAL	0.29	0.66	0.44	-2.34	1.22	0.33
NICKEL, TOTAL	9.66	16.52	13.56	1.00	1.58	20.24
POTASSIUM, TOTAL	208.36	265.62	271.00	4.90	0.86	258.88
SELENIUM, TOTAL	0.21	0.18	0.25	-1.71	0.43	0.22
SILVER, TOTAL	0.32	0.12	0.35	-1.19	0.27	0.34
SODIUM, TOTAL	64.24	104.48	88.88	3.36	1.20	93.66
VANADIUM, TOTAL	10.21	10.05	12.58	2.01	0.77	12.79
ZINC, TOTAL	275.16	579.78	411.88	2.81	2.79	6813.88

**GROUNDWATER**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>VOLATILES</b>						
METHYLENE CHLORIDE	4.86	0.74	5.10	1.55	0.30	5.49
1,2-DICHLOROETHENE (TOTAL)	7.79	7.66	10.21	1.84	0.55	9.07
TRICHLOROETHENE	10.69	20.54	17.18	1.83	0.76	11.51
TETRACHLOROETHENE	4.76	0.91	5.05	1.52	0.34	5.48
1,1,2,2-TETRACHLOROETHANE	5.14	1.25	5.53	1.61	0.22	5.53
<b>SEMIVOLATILES</b>						
BIS(2-ETHYLHEXYL)PHTHALATE	4.74	0.99	5.15	1.51	0.39	5.85
<b>PESTICIDES/PCB's</b>						
4,4'-DDD	0.05	0.00	0.05	-3.02	0.05	0.05

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER (ROUND 1 & 2) - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	112.73	192.36	183.31	3.73	1.37	313.86
ARSENIC, TOTAL	1.11	0.78	1.40	-0.02	0.42	1.30
BARIUM, TOTAL	54.33	67.79	79.20	3.31	1.40	218.52
CADMIUM, TOTAL	1.66	0.38	1.80	0.49	0.20	1.80
CALCIUM, TOTAL	78084.09	53908.26	97864.02	10.89	1.12	217193.86
IRON, TOTAL	2535.25	4666.40	4247.44	5.76	2.42	109582.80
LEAD, TOTAL	2.05	3.80	3.45	0.08	0.88	2.62
MAGNESIUM, TOTAL	12041.09	13455.88	16978.30	8.77	1.23	32219.51
MANGANESE, TOTAL	277.88	693.88	532.48	4.18	1.68	1200.03
MERCURY, TOTAL	0.16	0.28	0.26	-2.18	0.56	0.17
NICKEL, TOTAL	5.99	13.32	10.87	1.20	0.78	6.81
POTASSIUM, TOTAL	9783.73	11884.29	14144.29	8.43	1.31	30374.70
SELENIUM, TOTAL	0.94	0.56	1.15	-0.14	0.35	1.07
SODIUM, TOTAL	41691.36	62281.63	64543.64	10.17	0.87	62893.14
VANADIUM, TOTAL	1.35	1.25	1.81	0.13	0.48	1.59
ZINC, TOTAL	19.75	57.47	40.84	0.93	1.55	33.93

**SURFACE WATER**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>VOLATILES</b>						
1,2-Dichloroethene (total)	5.29	0.76	5.84	1.66	0.13	5.87

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>TOTAL METALS</b>						
Aluminum	1.06	0.69	1.56	-0.11	0.61	2.22
Antimony	2.00	1.22	2.90	0.46	0.82	6.99
Barium	16.91	11.98	25.70	2.66	0.59	32.40
Calcium	36321.43	11543.61	44798.88	10.45	0.37	51803.88
Copper	12.71	19.43	26.98	1.95	1.01	73.12
Iron	2093.86	1373.79	3102.74	7.49	0.58	3988.09
Magnesium	8082.79	6180.49	12621.64	8.48	1.39	236731.48
Manganese	52.55	42.43	83.71	3.62	0.99	270.13
Molybdenum	40.86	19.04	54.84	3.59	0.57	79.22
Nickel	16.33	11.57	24.82	2.51	0.86	59.75
Potassium	8560.00	4648.67	11973.91	8.97	0.42	13041.80
Sodium	148285.71	88216.52	213070.60	11.79	0.49	244180.80
Thallium	0.59	0.23	0.75	-0.58	0.30	0.76
Vanadium	100.96	134.95	200.07	3.68	1.64	8350.99
<b>ANALYTE</b>						
Hardness mg/L CaCO3	139.14	41.21	169.41	4.89	0.33	190.36

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**DISSOLVED INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>DISSOLVED METALS</b>						
ALUMINUM, SOLUBLE	21.84	20.42	36.84	2.80	0.76	57.58
BARIUM, SOLUBLE	19.81	8.96	26.40	2.86	0.61	43.31
CADMIUM, SOLUBLE	1.38	0.75	1.93	0.22	0.46	2.21
CALCIUM, SOLUBLE	70195.71	42449.39	101369.91	10.89	0.92	331671.98
COBALT, SOLUBLE	2.04	0.91	2.71	0.66	0.33	2.78
COPPER, SOLUBLE	5.70	6.03	10.13	1.38	0.91	23.54
IRON, SOLUBLE	628.04	736.06	1168.59	4.93	2.31	5358424.86
LEAD, SOLUBLE	5.21	6.23	9.79	0.61	1.71	514.80
MAGNESIUM, SOLUBLE	141574.00	134237.82	240156.24	10.14	2.85	151540048704.09
MANGANESE, SOLUBLE	43.43	23.19	60.46	3.66	0.50	76.08
NICKEL, SOLUBLE	13.33	10.29	20.88	2.32	0.79	38.51
POTASSIUM, SOLUBLE	51561.43	44844.74	84494.73	10.13	1.55	3536847.61
SODIUM, SOLUBLE	1187500.00	1031470.86	1944996.70	13.23	1.61	100905636.18
VANADIUM, SOLUBLE	73.73	91.07	140.61	2.90	2.31	693326.68
ZINC, SOLUBLE	12.63	11.79	21.28	2.11	1.03	90.69



**SEDIMENT**

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SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - STATISTICAL SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>VOLATILES</b>						
Tetrachloroethene	10.31	7.0105232257	13.772558408	2.1627138797	0.5759608061	14.897306606
<b>SEMIVOLATILES</b>						
Diethylphthalate	623.31	572.84780332	906.43077323	6.1185489008	0.7935162139	1110.3913575
Anthracene	466.38	367.7970542	648.16384982	5.8324318557	0.8841479972	1001.5990795
Di-n-butylphthalate	481.50	352.74099327	655.83795888	5.960777005	0.6614643125	760.22890551
Pyrene	487.92	348.60793679	660.21832275	5.9840897464	0.6477705659	764.0000209
bis(2-Ethylhexyl)phthalate	491.81	345.65556908	662.6437662	6.0002853707	0.6334181949	761.82504384
<b>PESTICIDES/PCBs</b>						
Aldrin	13.66	15.051635868	21.102934678	2.1427680345	1.1081376404	45.461868368
Dieldrin	27.87	30.2233449	42.802906369	2.7656230891	1.2911701234	150.79556669
4,4'-DDE	220.40	324.56383968	380.80789622	4.4729449191	1.6193950461	2435.8838961
Endrin	14.72	15.060745589	22.162821663	2.2888533875	0.9806993648	35.832269602
4,4'-DDD	438.69	553.52678114	712.26620767	5.1928075605	1.5604069563	4233.4987574
Endosulfan sulfate	25.93	29.457968209	40.490012836	2.7365553969	1.1473876171	89.342311399
4,4'-DDT	15.87	12.878557512	22.230455511	2.4383438051	0.8796854499	33.376988086
Endrin ketone	25.55	29.336620045	40.045422592	2.7764880451	1.0459785283	75.503516618
Endrin aldehyde	25.90	29.471391495	40.465877901	2.7398040711	1.1351456057	87.360296432
alpha-Chlordane	13.31	15.149603321	20.799046211	2.1272904596	1.0491321386	39.698054881

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>TOTAL METALS</b>						
Aluminum	9369.33	9148.08	13528.86	8.72	0.97	19839.17
Arsenic	1.64	0.86	2.07	0.36	0.56	2.41
Barium	24.88	22.18	34.97	2.78	1.06	68.51
Beryllium	0.32	0.41	0.50	-1.76	1.11	0.81
Cadmium	0.85	2.20	1.85	-1.53	1.54	3.75
Calcium	5084.07	5151.45	7426.37	7.81	1.49	31268.66
Chromium	11.89	8.35	15.69	2.18	0.85	23.06
Cobalt	1.84	1.69	2.61	0.21	0.99	4.20
Copper	12.10	11.21	17.20	2.19	0.77	19.88
Iron	6658.00	4907.08	8889.19	8.53	0.79	11661.09
Lead	1128.11	4021.66	3031.65	4.01	1.85	3422.99
Magnesium	1206.27	1134.59	1722.15	6.68	0.97	2601.52
Manganese	23.05	19.01	31.70	2.78	0.90	45.17
Mercury	0.30	0.26	0.61	-1.57	1.09	413.49
Nickel	10.41	19.18	19.14	1.54	1.19	25.81
Potassium	555.87	641.26	847.44	5.86	0.97	1140.32
Selenium	0.48	0.50	0.71	-1.14	0.91	0.94
Sodium	1389.57	1411.95	2031.56	6.81	0.99	3079.05
Thallium	0.35	0.28	0.48	-1.34	0.83	0.65
Vanadium	38.67	77.48	73.89	2.88	1.10	83.12
Zinc	71.86	52.34	121.76	4.05	0.76	355.51

**FISH**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>VOLATILES</b>						
Methylene Chloride	47.47	40.59	65.92	3.57	0.75	76.42
Acetone	422.17	755.76	765.80	5.01	1.47	1806.69
Carbon Disulfide	685.80	326.93	834.45	6.41	0.54	963.82
2-Butanone	385.40	1307.03	979.69	3.86	1.57	891.86
Toluene	45.97	40.86	64.55	3.53	0.74	72.63
<b>PESTICIDE/PCBs</b>						
beta-BHC	7.46	1.67	8.12	1.98	0.24	8.30
gamma-BHC (Lindane)	7.07	1.84	7.80	1.91	0.33	8.33
Heptachlor	7.19	1.72	7.87	1.94	0.30	8.27
Aldrin	7.28	1.15	7.74	1.97	0.16	7.81
Heptachlor epoxide	7.28	1.43	7.85	1.96	0.22	8.05
Dieldrin	17.23	12.48	22.19	2.63	0.67	24.90
4,4'-DDE	208.05	147.36	266.67	5.08	0.77	335.84
Endrin	10.82	11.27	15.30	2.10	0.69	15.11
Endosulfan II	12.78	4.59	14.60	2.46	0.49	16.72
4,4'-DDD	80.37	62.77	105.34	4.14	0.71	121.32
4,4'-DDT	11.12	5.39	13.26	2.26	0.60	15.62
Endrin ketone	13.86	4.06	15.48	2.56	0.46	17.90
Endrin aldehyde	13.70	4.24	15.39	2.53	0.50	18.14
alpha-Chlordane	16.39	11.27	20.87	2.60	0.65	23.57

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH FILLET - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>TOTAL METALS</b>						
Aluminum	14.08	7.03	16.87	2.53	0.48	17.89
Arsenic	0.68	0.43	0.85	-0.60	0.70	1.03
Barium	0.69	0.44	0.87	-0.52	0.56	0.93
Cadmium	0.12	0.13	0.17	-2.48	0.74	0.17
Calcium	3181.21	4206.81	4854.71	7.36	1.16	7276.11
Chromium	1.69	0.73	1.98	0.45	0.37	2.00
Copper	2.67	1.15	3.13	0.90	0.42	3.30
Iron	34.34	14.13	39.96	3.42	0.55	47.26
Lead	0.32	0.22	0.42	-1.28	0.47	0.40
Magnesium	1191.42	180.42	1263.19	7.07	0.16	1276.01
Manganese	1.60	0.68	1.87	0.36	0.51	2.13
Mercury	0.45	0.43	0.66	-1.22	0.94	1.00
Potassium	14688.42	2984.20	15875.56	9.58	0.20	16107.54
Selenium	0.76	1.28	1.27	-0.81	0.85	1.08
Silver	1.05	0.77	1.40	-0.11	0.54	1.42
Sodium	3316.84	4610.10	5150.77	7.78	0.65	4233.29
Vanadium	1.10	0.27	1.21	0.07	0.27	1.25
Zinc	34.15	10.62	39.96	3.49	0.31	42.04

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH (WHOLE BODY) - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>VOLATILES</b>						
Methylene Chloride	26.21	9.52	33.21	3.21	0.35	36.70
Acetone	4281.36	9043.21	10922.56	6.24	2.55	418168152.23
Carbon Disulfide	707.43	390.64	994.31	6.44	0.53	1281.99
1,1-Dichloroethane	23.00	7.02	28.15	3.10	0.28	29.46
Toluene	22.14	5.86	26.45	3.07	0.25	27.68
Xylene (total)	27.21	14.18	37.63	3.22	0.42	41.58
<b>SEMIVOLATILES</b>						
beta-BHC	5.15	2.24	6.38	1.53	0.54	7.88
gamma-BHC (Lindane)	5.10	2.54	6.49	1.48	0.62	8.66
Heptachlor	5.08	2.52	6.46	1.47	0.62	8.61
Aldrin	4.61	2.44	5.94	1.37	0.61	7.64
Dieldrin	21.20	19.12	31.65	2.70	0.89	49.36
4,4'-DDE	182.27	138.32	257.84	4.91	0.84	408.06
Endrin	10.97	8.67	15.71	2.10	0.82	23.79
Endosulfan II	8.05	5.07	10.82	1.89	0.66	13.87
4,4'-DDD	83.64	86.18	130.72	4.07	0.86	182.22
4,4'-DDT	14.67	15.11	22.93	2.40	0.70	25.48
Endrin ketone	9.55	4.90	12.23	2.09	0.65	16.65
Endrin aldehyde	8.68	4.26	11.01	2.02	0.58	13.65
alpha-Chlordane	20.90	18.86	31.20	2.51	1.20	96.91
gamma-Chlordane	6.87	5.94	10.12	1.62	0.82	14.81

**SITE 36, CAMP GEIGER AREA DUMP**  
**FISH (WHOLE BODY) - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>TOTAL METALS</b>						
Aluminum	21.63	13.67	29.55	2.85	0.76	45.61
Barium	1.42	1.31	2.18	0.08	0.79	3.00
Cadmium	0.17	0.26	0.32	-2.36	0.92	0.38
Calcium	23088.00	17153.31	33030.84	9.70	1.00	75696.96
Chromium	2.11	0.81	2.58	0.68	0.40	2.88
Copper	4.26	2.74	5.84	1.30	0.56	6.67
Iron	132.52	96.17	188.26	4.74	0.52	197.79
Lead	0.55	0.79	1.08	-1.05	0.84	1.41
Magnesium	1184.50	200.50	1300.72	7.06	0.17	1323.76
Manganese	5.28	2.94	6.99	1.52	0.59	8.65
Mercury	0.24	0.29	0.59	-1.85	0.98	41.17
Potassium	10156.00	1100.60	10793.96	9.22	0.11	10858.86
Selenium	0.61	0.39	0.84	-0.71	0.73	1.24
Silver	0.87	0.63	1.33	-0.35	0.66	1.93
Sodium	4314.00	4626.39	6995.67	8.09	0.70	7445.10
Zinc	66.01	16.38	75.51	4.16	0.25	78.21



**CRAB**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**CRAB - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>VOLATILES</b>						
Chloromethane						
Methylene Chloride	10019.33	5463.41	19229.89	9.12	0.50	166224.56
Acetone	173947.33	173009.98	465618.41	11.73	0.99	1.88E+09
<b>PESTICIDE/PCBs</b>						
beta-BHC	8.03	1.10	9.88	2.08	0.14	11.21
gamma-BHC (Lindane)	3.37	1.17	5.34	1.17	0.38	14.20
Heptachlor	3.75	1.00	5.43	1.29	0.29	8.96
Aldrin	3.70	1.21	5.74	1.27	0.37	15.15
Dieldrin	8.07	1.81	11.13	2.07	0.24	16.49
4,4'-DDE	63.67	32.47	118.41	4.07	0.47	576.96
4,4'-DDD	33.67	15.01	58.97	3.44	0.48	311.96
4,4'-DDT	6.33	3.33	11.95	1.71	0.69	600.41
alpha-Chlordane	3.90	0.44	4.63	1.36	0.11	5.03

**SITE 36, CAMP GEIGER AREA DUMP**  
**CRAB - STATISTICAL SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

	NORMAL ARITHMETIC MEAN	NORMAL STANDARD DEVIATION	NORMAL UPPER 95% CONFIDENCE INTERVAL	LOG ARITHMETIC MEAN	LOG STANDARD DEVIATION	LOG UPPER 95% CONFIDENCE INTERVAL
<b>TOTAL METALS</b>						
Aluminum	10.05	8.02	23.57	2.11	0.74	2521.43
Arsenic	0.79	0.53	1.68	-0.37	0.61	43.43
Cadmium	0.33	0.41	1.02	-1.80	1.56	5.48E+10
Calcium	1960.00	215.17	2322.75	7.58	0.11	2541.98
Cobalt	4.13	2.40	8.17	1.32	0.53	80.74
Copper	25.37	2.72	29.96	3.23	0.11	32.88
Iron	33.50	11.35	52.63	3.47	0.39	145.29
Lead	0.57	0.05	0.65	-0.57	0.09	0.68
Magnesium	1516.67	28.87	1565.33	7.32	0.02	1573.63
Manganese	1.07	0.55	2.00	-0.02	0.48	9.93
Potassium	13633.33	709.46	14829.39	9.52	0.05	15082.49
Selenium	0.63	0.24	1.02	-0.53	0.44	4.94
Sodium	14800.00	556.78	15738.65	9.60	0.04	15933.41
Zinc	109.27	18.67	140.73	4.68	0.17	161.89

**APPENDIX J**  
**FIELD DUPLICATE SUMMARIES**

**SOIL**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-DAD-SB02-00D	36-FCA-SB04-00D	36-FCA-SB13-00D	36-FDA-SB04-00D	36-GW11-00D	36-OA-SB01B-00D
DATE SAMPLED	02/24/95	02/25/95	02/27/95	02/24/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>						
CHLOROMETHANE	14 U	13 U	12 U	11 U	12 U	12 U
BROMOMETHANE	14 U	13 U	12 U	11 U	12 U	12 U
VINYL CHLORIDE	14 U	13 U	12 U	11 U	12 U	12 U
CHLOROETHANE	14 U	13 U	12 U	11 U	12 U	12 U
METHYLENE CHLORIDE	14 U	13 U	12 U	11 U	12 U	12 U
ACETONE	14 U	13 UJ	12 U	11 U	12 U	12 U
CARBON DISULFIDE	14 U	13 U	12 U	11 U	12 U	12 U
1,1-DICHLOROETHENE	14 U	13 U	12 U	11 U	12 U	12 U
1,1-DICHLOROETHANE	14 U	13 U	12 U	11 U	12 U	12 U
1,2-DICHLOROETHENE (TOTAL)	14 U	13 U	12 U	11 U	12 U	12 U
CHLOROFORM	14 U	13 U	12 U	11 U	12 U	12 U
1,2-DICHLOROETHANE	14 U	13 U	12 U	11 U	12 U	12 U
2-BUTANONE	14 U	13 U	12 U	11 U	12 U	12 U
1,1,1-TRICHLOROETHANE	14 U	13 U	12 U	11 U	12 U	12 U
CARBON TETRACHLORIDE	14 U	13 U	12 U	11 U	12 U	12 U
BROMODICHLOROMETHANE	14 U	13 U	12 U	11 U	12 U	12 U
1,2-DICHLOROPROPANE	14 U	13 U	12 U	11 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	14 U	13 U	12 U	11 U	12 U	12 U
TRICHLOROETHENE	14 U	13 U	12 U	11 U	12 U	12 U
DIBROMOCHLOROMETHANE	14 U	13 U	12 U	11 U	12 U	12 U
1,1,2-TRICHLOROETHANE	14 U	13 U	12 U	11 U	12 U	12 U
BENZENE	14 U	13 U	12 U	11 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	14 U	13 U	12 U	11 U	12 U	12 U
BROMOFORM	14 U	13 U	12 U	11 U	12 U	12 U
4-METHYL-2-PENTANONE	14 U	13 U	12 U	11 U	12 U	12 U
2-HEXANONE	14 U	13 U	12 U	11 U	12 U	12 U
TETRACHLOROETHENE	14 U	13 U	12 U	11 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	14 U	13 U	12 U	11 U	12 U	12 U
TOLUENE	14 U	13 U	12 U	11 U	12 U	12 U
CHLOROBENZENE	14 U	13 U	12 U	11 U	12 U	12 U
ETHYLBENZENE	14 U	13 U	12 U	11 U	12 U	12 U
STYRENE	14 U	13 U	12 U	11 U	12 U	12 U
XYLENE (TOTAL)	14 U	13 U	12 U	11 U	12 U	12 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-DAD-SB02-00D	36-FCA-SB04-00D	36-FCA-SB13-00D	36-FDA-SB04-00D	36-GW11-00D	36-OA-SB01B-00D
DATE SAMPLED	02/24/95	02/25/95	02/27/95	02/24/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>						
PHENOL	450 U	420 U	410 U	370 U	400 U	400 U
BIS(2-CHLOROETHYL)ETHER	450 U	420 U	410 U	370 U	400 U	400 U
2-CHLOROPHENOL	450 U	420 U	410 U	370 U	400 U	400 U
1,3-DICHLOROBENZENE	450 U	420 U	410 U	370 U	400 U	400 U
1,4-DICHLOROBENZENE	450 U	420 U	410 U	370 U	400 U	400 U
1,2-DICHLOROBENZENE	450 U	420 U	410 U	370 U	400 U	400 U
2-METHYLPHENOL	450 U	420 U	410 U	370 U	400 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	450 U	420 U	410 U	370 U	400 U	400 U
4-METHYLPHENOL	450 U	420 U	410 U	370 U	400 U	400 U
N-NITROSO-DI-N-PROPYLAMINE	450 U	420 U	410 U	370 U	400 U	400 U
HEXACHLOROETHANE	450 U	420 U	410 U	370 U	400 U	400 U
NITROBENZENE	450 U	420 U	410 U	370 U	400 U	400 U
ISOPHORONE	450 U	420 U	410 U	370 U	400 U	400 U
2-NITROPHENOL	450 U	420 U	410 U	370 U	400 U	400 U
2,4-DIMETHYLPHENOL	450 U	420 U	410 U	370 U	400 U	400 U
BIS(2-CHLOROETHOXY)METHANE	450 U	420 U	410 U	370 U	400 U	400 U
2,4-DICHLOROPHENOL	450 U	420 U	410 U	370 U	400 U	400 U
1,2,4-TRICHLOROBENZENE	450 U	420 U	410 U	370 U	400 U	400 U
NAPHTHALENE	450 U	420 U	410 U	370 U	400 U	400 U
4-CHLOROANILINE	450 U	420 U	410 U	370 U	400 U	400 U
HEXACHLOROBUTADIENE	450 U	420 U	410 U	370 U	400 U	400 U
4-CHLORO-3-METHYLPHENOL	450 U	420 U	410 U	370 U	400 U	400 U
2-METHYLNAPHTHALENE	450 U	420 U	410 U	370 U	400 U	400 U
HEXACHLOROCYCLOPENTADIENE	450 UJ	420 UJ	410 UJ	370 U	400 U	400 U
2,4,6-TRICHLOROPHENOL	450 U	420 U	410 U	370 U	400 U	400 U
2,4,5-TRICHLOROPHENOL	1100 U	1000 U	1000 U	940 U	1000 U	1000 U
2-CHLORONAPHTHALENE	450 U	420 U	410 U	370 U	400 U	400 U
2-NITROANILINE	1100 U	1000 U	1000 U	940 U	1000 U	1000 U
DIMETHYLPHTHALATE	450 U	420 U	410 U	370 U	400 U	400 U
ACENAPHTHYLENE	450 U	420 U	410 U	370 U	400 U	400 U
2,6-DINITROTOLUENE	450 U	420 U	410 U	370 U	400 U	400 U
3-NITROANILINE	1100 U	1000 U	1000 U	940 U	1000 U	1000 U
ACENAPHTHENE	450 U	420 U	410 U	370 U	400 U	400 U
2,4-DINITROPHENOL	1100 U	1000 U	1000 U	940 U	1000 U	1000 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-DAD-SB02-00D	36-FCA-SB04-00D	36-FCA-SB13-00D	36-FDA-SB04-00D	36-GW11-00D	36-OA-SB01B-00D
DATE SAMPLED	02/24/95	02/25/95	02/27/95	02/24/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	1100 U	1000 U	1000 U	940 U	1000 U	1000 U
DIBENZOFURAN	450 U	420 U	410 U	370 U	400 U	400 U
2,4-DINITROTOLUENE	450 U	420 U	410 U	370 U	400 U	400 U
DIETHYLPHTHALATE	450 U	420 U	410 U	370 U	400 U	400 U
4-CHLOROPHENYL-PHENYLETHER	450 U	420 U	410 U	370 U	400 U	400 U
FLUORENE	450 U	420 U	410 U	370 U	400 U	400 U
4-NITROANILINE	1100 U	1000 U	1000 U	940 U	1000 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	1100 U	1000 UJ	1000 U	940 U	1000 U	1000 U
N-NITROSODIPHENYLAMINE (1)	450 U	420 U	410 U	370 U	400 U	400 U
4-BROMOPHENYL-PHENYLETHER	450 U	420 U	410 U	370 U	400 U	400 U
HEXACHLOROBENZENE	450 U	420 U	410 U	370 U	400 U	400 U
PENTACHLOROPHENOL	1100 U	1000 U	1000 U	940 U	1000 U	1000 U
PHENANTHRENE	120 J	420 U	410 U	370 U	400 U	400 U
ANTHRACENE	450 U	420 U	410 U	370 U	400 U	400 U
CARBAZOLE	450 U	420 U	410 U	370 U	400 U	400 U
DI-N-BUTYLPHTHALATE	450 U	2600 U	410 U	370 U	400 U	1900 U
FLUORANTHENE	190 J	420 U	410 U	370 U	400 U	400 U
PYRENE	150 J	420 U	410 U	370 U	400 U	400 U
BUTYLBENZYLPHTHALATE	450 U	420 U	410 U	370 U	400 U	140 J
3,3'-DICHLOROBENZIDINE	450 U	420 U	410 U	370 U	400 U	400 U
BENZO(A)ANTHRACENE	450 U	420 U	410 U	370 U	400 U	400 U
CHRYSENE	77 J	420 U	410 U	370 U	400 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	450 U	420 U	410 U	370 U	400 U	400 U
DI-N-OCTYL PHTHALATE	450 U	420 UJ	410 U	370 U	400 U	400 U
BENZO(B)FLUORANTHENE	450 U	420 U	410 U	370 U	400 U	400 U
BENZO(K)FLUORANTHENE	450 U	420 U	410 U	370 U	400 U	400 U
BENZO(A)PYRENE	450 U	420 U	410 U	370 U	400 U	400 U
INDENO(1,2,3-CD)PYRENE	450 U	420 U	410 U	370 U	400 U	400 U
DIBENZO(A,H)ANTHRACENE	450 U	420 U	410 U	370 U	400 U	400 U
BENZO(G,H,I)PERYLENE	450 U	420 U	410 U	370 U	400 U	400 U



**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-DAD-SB02-00D	36-FCA-SB04-00D	36-FCA-SB13-00D	36-FDA-SB04-00D	36-GW11-00D	36-OA-SB01B-00D
DATE SAMPLED	02/24/95	02/25/95	02/27/95	02/24/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	2.3 UJ	2.1 U	2 U	1.9 UJ	2 U	2 U
BETA-BHC	2.3 UJ	2.1 U	2 U	1.9 U	2 U	2 U
DELTA-BHC	2.3 UJ	2.1 U	2 U	1.9 U	2 U	2 U
GAMMA-BHC (LINDANE)	2.3 UJ	2.1 U	2 U	1.9 U	2 U	2 U
HEPTACHLOR	2.3 UJ	2.1 UJ	2 U	1.9 U	2 U	2 U
ALDRIN	2.3 UJ	2.1 U	2 U	1.9 U	2 U	2 U
HEPTACHLOR EPOXIDE	2.3 UJ	2.1 U	2 U	1.9 U	2 U	4.8 J
ENDOSULFAN I	2.3 UJ	2.1 U	2 U	1.9 U	2 U	2 U
DIELDRIN	4.5 UJ	4.2 U	4 U	3.7 U	4 U	7.1
4,4'-DDE	34 J	64	4 U	2.6 J	33	48 J
ENDRIN	4.5 UJ	4.2 U	4 U	3.7 U	4 U	4 U
ENDOSULFAN II	4.5 UJ	4.2 U	4 U	3.7 U	4 U	4 U
4,4'-DDD	4.5 J	5.4	4 U	3.7 U	12	9.5 J
ENDOSULFAN SULFATE	4.5 UJ	4.2 U	4 U	3.7 U	4 U	4 U
4,4'-DDT	11 J	40	4 U	6.3	21	25
METHOXYCHLOR	23 UJ	21 UJ	20 UJ	19 U	20 U	20 U
ENDRIN KETONE	4.5 UJ	4.2 U	4 U	3.7 U	4 U	4 U
ENDRIN ALDEHYDE	4.5 UJ	4.2 U	4 U	3.7 U	4 U	4 U
ALPHA-CHLORDANE	2.3 UJ	2.1 U	2 U	1.9 U	2 U	2.8 J
GAMMA-CHLORDANE	2.3 UJ	2.1 U	2 U	1.9 U	2 U	2 U
TOXAPHENE	230 UJ	210 U	200 U	190 U	200 U	200 U
AROCLOR-1016	45 UJ	42 U	40 U	37 U	40 U	40 U
AROCLOR-1221	90 UJ	83 U	80 U	74 U	80 U	79 U
AROCLOR-1232	45 UJ	42 U	40 U	37 U	40 U	40 U
AROCLOR-1242	45 UJ	42 U	40 U	37 U	40 U	40 U
AROCLOR-1248	45 UJ	42 U	40 U	37 U	40 U	810
AROCLOR-1254	45 UJ	42 U	40 U	37 U	40 U	40 U
AROCLOR-1260	45 UJ	42 U	40 U	37 U	40 U	40 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OA-SB02-00D	36-OF-SB02-00D	36-OF-SB05-00D
DATE SAMPLED	02/25/95	02/21/95	02/21/95
DEPTH	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>			
CHLOROMETHANE	14 U	12 U	11 U
BROMOMETHANE	14 U	12 U	11 U
VINYL CHLORIDE	14 U	12 U	11 U
CHLOROETHANE	14 U	12 U	11 U
METHYLENE CHLORIDE	14 U	12 U	11 U
ACETONE	14 U	12 U	11 U
CARBON DISULFIDE	14 U	12 U	11 U
1,1-DICHLOROETHENE	14 U	12 U	11 U
1,1-DICHLOROETHANE	14 U	12 U	11 U
1,2-DICHLOROETHENE (TOTAL)	14 U	12 U	11 U
CHLOROFORM	14 U	12 U	11 U
1,2-DICHLOROETHANE	14 U	12 U	11 U
2-BUTANONE	14 U	12 U	11 U
1,1,1-TRICHLOROETHANE	14 U	12 U	11 U
CARBON TETRACHLORIDE	14 U	12 U	11 U
BROMODICHLOROMETHANE	14 U	12 U	11 U
1,2-DICHLOROPROPANE	14 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	14 U	12 U	11 U
TRICHLOROETHENE	14 U	12 U	2 J
DIBROMOCHLOROMETHANE	14 U	12 U	11 U
1,1,2-TRICHLOROETHANE	14 U	12 U	11 U
BENZENE	14 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	14 U	12 U	11 U
BROMOFORM	14 U	12 U	11 U
4-METHYL-2-PENTANONE	14 UJ	12 U	11 U
2-HEXANONE	14 UJ	12 U	11 U
TETRACHLOROETHENE	14 UJ	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	14 UJ	12 U	11 U
TOLUENE	14 UJ	24	30
CHLOROBENZENE	14 UJ	12 U	11 U
ETHYLBENZENE	14 UJ	12 U	11 U
STYRENE	14 UJ	12 U	11 U
XYLENE (TOTAL)	14 UJ	12 U	11 U

SITE 36, CAMP GEIGER AREA DUMP  
 SURFACE SOIL - DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-OA-SB02-00D	36-OF-SB02-00D	36-OF-SB05-00D
DATE SAMPLED	02/25/95	02/21/95	02/21/95
DEPTH	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>			
PHENOL	460 U	400 U	370 U
BIS(2-CHLOROETHYL)ETHER	460 U	400 U	370 U
2-CHLOROPHENOL	460 U	400 U	370 U
1,3-DICHLOROBENZENE	460 U	400 U	370 U
1,4-DICHLOROBENZENE	460 U	400 U	370 U
1,2-DICHLOROBENZENE	460 U	400 U	370 U
2-METHYLPHENOL	460 U	400 U	370 U
2,2'-OXYBIS(1-CHLOROPROPANE)	460 U	400 U	370 U
4-METHYLPHENOL	460 U	400 U	370 U
N-NITROSO-DI-N-PROPYLAMINE	460 U	400 U	370 U
HEXACHLOROETHANE	460 U	400 U	370 U
NITROBENZENE	460 U	400 U	370 U
ISOPHORONE	460 U	400 U	370 U
2-NITROPHENOL	460 U	400 U	370 U
2,4-DIMETHYLPHENOL	460 U	400 U	370 U
BIS(2-CHLOROETHOXY)METHANE	460 U	400 U	370 U
2,4-DICHLOROPHENOL	460 U	400 U	370 U
1,2,4-TRICHLOROBENZENE	460 U	400 U	370 U
NAPHTHALENE	460 U	400 U	370 U
4-CHLOROANILINE	460 U	400 U	370 U
HEXACHLOROBUTADIENE	460 U	400 U	370 U
4-CHLORO-3-METHYLPHENOL	460 U	400 U	370 U
2-METHYLNAPHTHALENE	460 U	400 U	370 U
HEXACHLOROCYCLOPENTADIENE	460 U	400 U	370 U
2,4,6-TRICHLOROPHENOL	460 U	400 U	370 U
2,4,5-TRICHLOROPHENOL	1100 U	990 U	940 U
2-CHLORONAPHTHALENE	460 U	400 U	370 U
2-NITROANILINE	1100 U	990 U	940 U
DIMETHYLPHTHALATE	460 U	400 U	370 U
ACENAPHTHYLENE	460 U	400 U	370 U
2,6-DINITROTOLUENE	460 U	400 U	370 U
3-NITROANILINE	1100 U	990 U	940 U
ACENAPHTHENE	460 U	400 U	370 U
2,4-DINITROPHENOL	1100 U	990 U	940 U

**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE SOIL - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-OA-SB02-00D	36-OF-SB02-00D	36-OF-SB05-00D
DATE SAMPLED	02/25/95	02/21/95	02/21/95
DEPTH	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont</b>			
4-NITROPHENOL	1100 U	990 U	940 U
DIBENZOFURAN	460 U	400 U	370 U
2,4-DINITROTOLUENE	460 U	400 U	370 U
DIETHYLPHTHALATE	460 U	400 U	370 U
4-CHLOROPHENYL-PHENYLETHER	460 U	400 U	370 U
FLUORENE	460 U	400 U	370 U
4-NITROANILINE	1100 U	990 U	940 U
4,6-DINITRO-2-METHYLPHENOL	1100 UJ	990 U	940 U
N-NITROSODIPHENYLAMINE (1)	460 U	400 U	370 U
4-BROMOPHENYL-PHENYLETHER	460 U	400 U	370 U
HEXACHLOROBENZENE	460 U	400 U	370 U
PENTACHLOROPHENOL	1100 U	990 U	940 U
PHENANTHRENE	460 U	400 U	370 U
ANTHRACENE	460 U	400 U	370 U
CARBAZOLE	460 U	400 U	370 U
DI-N-BUTYLPHTHALATE	1500 U	2500 U	1400 U
FLUORANTHENE	460 U	400 U	370 U
PYRENE	460 U	400 U	370 U
BUTYLBENZYLPHTHALATE	610	400 U	370 U
3,3'-DICHLOROBENZIDINE	460 U	400 U	370 U
BENZO(A)ANTHRACENE	460 U	400 U	370 U
CHRYSENE	460 U	400 U	370 U
BIS(2-ETHYLHEXYL)PHTHALATE	460 U	91 J	160 J
DI-N-OCTYL PHTHALATE	460 U	400 U	370 U
BENZO(B)FLUORANTHENE	460 U	400 U	370 U
BENZO(K)FLUORANTHENE	460 U	400 U	370 U
BENZO(A)PYRENE	460 U	400 U	370 U
INDENO(1,2,3-CD)PYRENE	460 U	400 U	370 U
DIBENZO(A,H)ANTHRACENE	460 U	400 U	370 U
BENZO(G,H,I)PERYLENE	460 U	400 U	370 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-OA-SB02-00D	36-OF-SB02-00D	36-OF-SB05-00D
DATE SAMPLED	02/25/95	02/21/95	02/21/95
DEPTH	0-12"	0-12"	0-12"
UNITS	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>			
ALPHA-BHC	2.3 U	2 UJ	1.9 UJ
BETA-BHC	2.3 U	2 UJ	1.9 UJ
DELTA-BHC	2.3 U	2 UJ	1.9 UJ
GAMMA-BHC (LINDANE)	2.3 U	2 UJ	1.9 UJ
HEPTACHLOR	2.3 U	2 UJ	1.9 UJ
ALDRIN	2.3 U	2 UJ	1.9 UJ
HEPTACHLOR EPOXIDE	2.3 U	2 UJ	1.9 UJ
ENDOSULFAN I	2.3 U	2 UJ	1.9 UJ
DIELDRIN	24	4.1 UJ	37 J
4,4'-DDE	140 J	66 J	190 J
ENDRIN	4.6 U	4.9 J	3.7 UJ
ENDOSULFAN II	4.6 U	4.1 UJ	3.7 UJ
4,4'-DDD	4.6 U	16 J	53 J
ENDOSULFAN SULFATE	4.6 U	4.1 UJ	3.7 UJ
4,4'-DDT	79 J	4.1 UJ	41 J
METHOXYCHLOR	23 UJ	20 UJ	19 UJ
ENDRIN KETONE	4.6 U	4.1 UJ	3.7 UJ
ENDRIN ALDEHYDE	4.6 U	4.1 UJ	3.7 UJ
ALPHA-CHLORDANE	2.3 U	2.8 J	1.9 UJ
GAMMA-CHLORDANE	2.3 U	2 J	1.9 UJ
TOXAPHENE	230 U	200 UJ	190 UJ
AROCLOR-1016	46 U	41 UJ	37 UJ
AROCLOR-1221	92 U	81 UJ	75 UJ
AROCLOR-1232	46 U	41 UJ	37 UJ
AROCLOR-1242	46 U	41 UJ	37 UJ
AROCLOR-1248	46 U	41 UJ	37 UJ
AROCLOR-1254	46 U	290 J	37 UJ
AROCLOR-1260	46 U	41 UJ	37 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	6-DAD-SB02-00D	36-FCA-SB04-00D	36-FCA-SB13-00D	36-FDA-SB04-00D	36-GW11-00D	36-OA-SB01B-00D
DATE SAMPLED	02/24/95	02/25/95	02/27/95	02/24/95	03/09/95	03/09/95
DEPTH	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	3160	3970	3880	2620	2870	1480
ANTIMONY, TOTAL	2.8 UJ	4.4 UJ	4.2 R	3.7 UJ	4.4 UJ	3.6 UJ
ARSENIC, TOTAL	1.9	0.46 U	1.5	0.35 U	0.29 U	1 J
BARIUM, TOTAL	38.7	6.5	7.5	11.3	14.8	6.8
BERYLLIUM, TOTAL	0.08 U	0.19 U	0.18 U	0.16 U	0.19 U	0.16 U
CADMIUM, TOTAL	0.76 U	0.6 U	0.56 U	0.53 U	0.6 U	0.49 U
CALCIUM, TOTAL	1480	284	332 J	561	6030	11900
CHROMIUM, TOTAL	6.9 J	4.8	8.6 J	2.6	4	3.1
COBALT, TOTAL	0.6 U	0.64 U	0.63 U	0.54 U	0.64 U	0.52 U
COPPER, TOTAL	33.1	0.41 U	0.7	1.2 U	8.1	4.5
IRON, TOTAL	4770 J	2500	6410	1300	1840	1480
LEAD, TOTAL	81.4 J	7.6	5.1	9.8	36.1	16.3
MAGNESIUM, TOTAL	247	179	165	103	154	251
MANGANESE, TOTAL	76.2	5.6	5.7 J	12.1	26.3	9.6
MERCURY, TOTAL	2 J	0.11 U	0.12 U	0.11 U	0.1	0.09 U
NICKEL, TOTAL	3.8	2.3 U	2.7	2 U	2.3 U	1.9 U
POTASSIUM, TOTAL	191	216	275	124 U	155	121
SELENIUM, TOTAL	0.4 U	0.36 U	0.36 U	0.27 U	0.4 U	0.32 U
SILVER, TOTAL	0.65 U	0.64 R	0.6 U	0.54 U	0.64 U	0.52 U
SODIUM, TOTAL	38.2	19.7 U	16.5 U	13.3 U	44.8 U	27.1
THALLIUM, TOTAL	0.19 U	0.27 U	0.22 U	0.13 U	0.25 U	0.3 UJ
VANADIUM, TOTAL	10.7	8.8	12.9	4.5 U	5.6	3.5
ZINC, TOTAL	200	1.8	3.7	20.5	45.3	26.1

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE SOIL - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-OA-SB02-00D	36-OF-SB02-00D	36-OF-SB05-00D
DATE SAMPLED	02/25/95	02/21/95	02/21/95
DEPTH	0-12"	0-12"	0-12"
UNITS	MG/KG	MG/KG	MG/KG
<b>TOTAL METALS</b>			
ALUMINUM, TOTAL	3200	6820	3990
ANTIMONY, TOTAL	5.6 UJ	4.3 UJ	3.9 UJ
ARSENIC, TOTAL	2.2	0.84	0.76
BARIUM, TOTAL	19	32.2	20.5
BERYLLIUM, TOTAL	0.25 U	0.19 U	0.17 U
CADMIUM, TOTAL	0.76 U	0.58 U	0.52 U
CALCIUM, TOTAL	1710	22400	2120
CHROMIUM, TOTAL	3.5	9.1	4.8
COBALT, TOTAL	0.82 U	0.62 U	0.83 U
COPPER, TOTAL	2.1	38.8 J	18.7 J
IRON, TOTAL	4740	4820	5580
LEAD, TOTAL	31.2	60.7	39.5
MAGNESIUM, TOTAL	198	257	95.7
MANGANESE, TOTAL	70.5	53.7	26.8
MERCURY, TOTAL	0.12 U	0.49	0.21
NICKEL, TOTAL	3.2	3.7	2.5
POTASSIUM, TOTAL	187 U	208	128 U
SELENIUM, TOTAL	0.36	0.3 U	0.31 U
SILVER, TOTAL	0.82 R	1.1 J	0.56 UJ
SODIUM, TOTAL	45 U	49.2	23.5 U
THALLIUM, TOTAL	0.26 U	0.14 U	0.15 U
VANADIUM, TOTAL	11.5	9.9	5.3
ZINC, TOTAL	69.3	173 J	45.6 J

**SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

LOCATION	6-DAB-SB01-01D	36-FCA-SB08-01D	36-GS-SB05-01D	36-GS-SB05-03D
DATE SAMPLED	02/24/95	02/27/95	05/06/95	05/06/95
DEPTH	1-3'	1-3'	1-3'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
<b>VOLATILES</b>				
CHLOROMETHANE	11 U	12 U	11 U	12 U
BROMOMETHANE	11 U	12 U	11 U	12 U
VINYL CHLORIDE	11 U	12 U	11 U	12 U
CHLOROETHANE	11 U	12 U	11 U	12 U
METHYLENE CHLORIDE	11 U	12 U	11 U	12 U
ACETONE	74 U	26 U	11 U	12 U
CARBON DISULFIDE	11 U	12 U	11 U	12 U
1,1-DICHLOROETHENE	11 U	12 U	11 U	12 U
1,1-DICHLOROETHANE	11 U	12 U	11 U	12 U
1,2-DICHLOROETHENE (TOTAL)	11 U	12 U	11 U	12 U
CHLOROFORM	11 U	12 U	11 U	12 U
1,2-DICHLOROETHANE	11 U	12 U	11 U	12 U
2-BUTANONE	11 U	12 U	11 U	12 U
1,1,1-TRICHLOROETHANE	11 U	12 U	11 U	12 U
CARBON TETRACHLORIDE	11 U	12 U	11 U	12 U
BROMODICHLOROMETHANE	11 U	12 U	11 U	12 U
1,2-DICHLOROPROPANE	11 U	12 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	11 U	12 U	11 U	12 U
TRICHLOROETHENE	11 U	12 U	11 U	12 U
DIBROMOCHLOROMETHANE	11 U	12 U	11 U	12 U
1,1,2-TRICHLOROETHANE	11 U	12 U	11 U	12 U
BENZENE	11 U	12 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	11 U	12 U	11 U	12 U
BROMOFORM	11 U	12 U	11 U	12 U
4-METHYL-2-PENTANONE	11 U	12 U	11 U	12 U
2-HEXANONE	11 U	12 U	11 U	12 U
TETRACHLOROETHENE	11 U	12 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	11 U	12 U	11 U	12 U
TOLUENE	11 U	12 U	11 U	12 U
CHLOROBENZENE	11 U	12 U	11 U	12 U
ETHYLBENZENE	11 U	12 U	11 U	12 U
STYRENE	11 U	12 U	11 U	12 U
XYLENE (TOTAL)	11 U	12 U	11 U	12 U



SITE 36, CAMP GEIGER AREA DUMP  
 SUBSURFACE SOIL - DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	6-DAB-SB01-01D	36-FCA-SB08-01D	36-GS-SB05-01D	36-GS-SB05-03D
DATE SAMPLED	02/24/95	02/27/95	05/06/95	05/06/95
DEPTH	1-3'	1-3'	1-3'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES</b>				
PHENOL	370 R	390 U	360 U	380 U
BIS(2-CHLOROETHYL)ETHER	370 R	390 U	360 U	380 U
2-CHLOROPHENOL	370 R	390 U	360 U	380 U
1,3-DICHLOROBENZENE	370 R	390 U	360 U	380 U
1,4-DICHLOROBENZENE	370 R	390 U	360 U	380 U
1,2-DICHLOROBENZENE	370 R	390 U	360 U	380 U
2-METHYLPHENOL	1000 R	390 U	360 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	370 R	390 U	360 U	380 U
4-METHYLPHENOL	370 R	390 U	360 U	380 U
N-NITROSO-DI-N-PROPYLAMINE	370 R	390 U	360 U	380 U
HEXACHLOROETHANE	370 R	390 U	360 U	380 U
NITROBENZENE	370 R	390 U	360 U	380 U
ISOPHORONE	390 J	390 U	360 U	380 U
2-NITROPHENOL	370 R	390 U	360 U	380 U
2,4-DIMETHYLPHENOL	370 R	390 U	360 U	380 U
BIS(2-CHLOROETHOXY)METHANE	370 R	390 U	360 U	380 U
2,4-DICHLOROPHENOL	370 R	390 U	360 U	380 U
1,2,4-TRICHLOROBENZENE	370 R	390 U	360 U	380 U
NAPHTHALENE	370 R	390 U	360 U	380 U
4-CHLOROANILINE	370 R	390 U	360 U	380 U
HEXACHLOROBUTADIENE	370 R	390 U	360 U	380 U
4-CHLORO-3-METHYLPHENOL	370 R	390 U	360 U	380 U
2-METHYLNAPHTHALENE	370 R	390 U	360 U	380 U
HEXACHLOROCYCLOPENTADIENE	370 R	390 UJ	360 U	380 U
2,4,6-TRICHLOROPHENOL	370 R	390 U	360 U	380 U
2,4,5-TRICHLOROPHENOL	930 R	980 U	900 U	960 U
2-CHLORONAPHTHALENE	370 R	390 U	360 U	380 U
2-NITROANILINE	930 R	980 U	900 U	960 U
DIMETHYLPHTHALATE	370 R	390 U	360 U	380 U
ACENAPHTHYLENE	370 R	390 U	360 U	380 U
2,6-DINITROTOLUENE	370 R	390 U	360 U	380 U
3-NITROANILINE	930 R	980 U	900 U	960 U
ACENAPHTHENE	370 R	390 U	360 U	380 U
2,4-DINITROPHENOL	930 R	980 U	900 U	960 U

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	6-DAB-SB01-01D	36-FCA-SB08-01D	36-GS-SB05-01D	36-GS-SB05-03D
DATE SAMPLED	02/24/95	02/27/95	05/06/95	05/06/95
DEPTH	1-3'	1-3'	1-3'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>				
4-NITROPHENOL	390 R	980 U	900 U	960 U
DIBENZOFURAN	370 R	390 U	360 U	380 U
2,4-DINITROTOLUENE	370 R	390 U	360 U	380 U
DIETHYLPHTHALATE	310 J	390 U	360 U	380 U
4-CHLOROPHENYL-PHENYLETHER	370 R	390 U	360 U	380 U
FLUORENE	370 R	390 U	360 U	380 U
4-NITROANILINE	930 R	980 U	900 U	960 U
4,6-DINITRO-2-METHYLPHENOL	930 R	980 U	900 U	960 U
N-NITROSODIPHENYLAMINE (1)	370 R	390 U	360 U	380 U
4-BROMOPHENYL-PHENYLETHER	370 R	390 U	360 U	380 U
HEXACHLOROBENZENE	370 R	390 U	360 U	380 U
PENTACHLOROPHENOL	930 R	980 U	900 U	960 U
PHENANTHRENE	370 R	390 U	360 U	380 U
ANTHRACENE	370 R	390 U	360 U	380 U
CARBAZOLE	370 R	390 U	360 U	380 U
DI-N-BUTYLPHTHALATE	370 U	390 U	2300 U	400 U
FLUORANTHENE	370 R	390 U	360 U	380 U
PYRENE	370 R	390 U	360 U	380 U
BUTYLBENZYLPHTHALATE	370 R	390 U	360 U	380 U
3,3'-DICHLOROBENZIDINE	370 R	390 U	360 U	380 U
BENZO(A)ANTHRACENE	370 R	390 U	360 U	380 U
CHRYSENE	370 R	390 U	360 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	370 U	390 U	360 U	380 U
DI-N-OCTYL PHTHALATE	370 R	390 U	360 U	380 U
BENZO(B)FLUORANTHENE	370 R	390 U	360 U	380 U
BENZO(K)FLUORANTHENE	370 R	390 U	360 U	380 U
BENZO(A)PYRENE	370 R	390 U	360 U	380 U
INDENO(1,2,3-CD)PYRENE	370 R	390 U	360 U	380 U
DIBENZO(A,H)ANTHRACENE	370 R	390 U	360 U	380 U
BENZO(G,H,I)PERYLENE	370 R	390 U	360 U	380 U

**SITE 36, CAMP GEIGER AREA DUMP  
SUBSURFACE SOIL - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	6-DAB-SB01-01D	36-FCA-SB08-01D	36-GS-SB05-01D	36-GS-SB05-03D
DATE SAMPLED	02/24/95	02/27/95	05/06/95	05/06/95
DEPTH	1-3'	1-3'	1-3'	5-7'
UNITS	UG/KG	UG/KG	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>				
ALPHA-BHC	1.9 U	1.9 U	NA	NA
BETA-BHC	1.9 U	1.9 U	NA	NA
DELTA-BHC	1.9 U	1.9 U	NA	NA
GAMMA-BHC (LINDANE)	1.9 U	1.9 U	NA	NA
HEPTACHLOR	1.9 U	1.9 U	NA	NA
ALDRIN	2.6	1.9 U	NA	NA
HEPTACHLOR EPOXIDE	1.9 U	1.9 U	NA	NA
ENDOSULFAN I	1.9 U	1.9 U	NA	NA
DIELDRIN	11 J	3.9 U	NA	NA
4,4'-DDE	96	3.9 U	NA	NA
ENDRIN	3.7 U	3.9 U	NA	NA
ENDOSULFAN II	3.7 U	3.9 U	NA	NA
4,4'-DDD	23	3.9 U	NA	NA
ENDOSULFAN SULFATE	3.7 U	3.9 U	NA	NA
4,4'-DDT	21	3.9 U	NA	NA
METHOXYCHLOR	19 U	19 UJ	NA	NA
ENDRIN KETONE	3.7 U	3.9 U	NA	NA
ENDRIN ALDEHYDE	3.7 U	3.9 U	NA	NA
ALPHA-CHLORDANE	1.9 U	1.9 U	NA	NA
GAMMA-CHLORDANE	1.9 U	1.9 U	NA	NA
TOXAPHENE	190 U	190 U	NA	NA
AROCLOR-1016	37 U	39 U	NA	NA
AROCLOR-1221	74 U	78 U	NA	NA
AROCLOR-1232	37 U	39 U	NA	NA
AROCLOR-1242	37 U	39 U	NA	NA
AROCLOR-1248	37 U	39 U	NA	NA
AROCLOR-1254	37 U	39 U	NA	NA
AROCLOR-1260	37 U	39 U	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SUBSURFACE SOIL - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-DAB-SB01-01D	36-FCA-SB08-01D
DATE SAMPLED	02/24/95	02/27/95
DEPTH	1-3'	1-3'
UNITS	MG/KG	MG/KG
<b>TOTAL METALS</b>		
ALUMINUM, TOTAL	3600	3710
ANTIMONY, TOTAL	2.3 UJ	4 R
ARSENIC, TOTAL	1.4	0.32 U
BARIUM, TOTAL	67.9	6.3
BERYLLIUM, TOTAL	0.064 U	0.17 U
CADMIUM, TOTAL	0.62 U	0.54 U
CALCIUM, TOTAL	754	64.2 J
CHROMIUM, TOTAL	9.3 J	3.5 J
COBALT, TOTAL	0.49 U	0.58 U
COPPER, TOTAL	34	0.37 U
IRON, TOTAL	4880 J	1970
LEAD, TOTAL	259	7.1
MAGNESIUM, TOTAL	152	164
MANGANESE, TOTAL	69.5	3.5 J
MERCURY, TOTAL	1.6 J	0.1 U
NICKEL, TOTAL	4.1	2.1 U
POTASSIUM, TOTAL	104	133 U
SELENIUM, TOTAL	0.33 U	0.36 U
SILVER, TOTAL	0.53 U	0.58 U
SODIUM, TOTAL	251	28 U
THALLIUM, TOTAL	0.15 U	0.22 U
VANADIUM, TOTAL	6.6	2.3 U
ZINC, TOTAL	225	1.6

**GROUNDWATER**

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**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW02-01D	36-GW06-01D	36-GW10IW-01D
DATE SAMPLED	03/27/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L
<b>VOLATILES</b>			
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	10 U	10 U	10 U
ACETONE	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	31 J
CHLOROFORM	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U
2-BUTANONE	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U
TRICHLOROETHENE	10 U	10 U	73
DIBROMOCHLOROMETHANE	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U
TETRACHLOROETHENE	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10
TOLUENE	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW02-01D	36-GW06-01D	36-GW10IW-01D
DATE SAMPLED	03/27/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>			
PHENOL	10 U	10 U	NA
BIS(2-CHLOROETHYL)ETHER	10 U	10 U	NA
2-CHLOROPHENOL	10 U	10 U	NA
1,3-DICHLOROBENZENE	10 U	10 U	NA
1,4-DICHLOROBENZENE	10 U	10 U	NA
1,2-DICHLOROBENZENE	10 U	10 U	NA
2-METHYLPHENOL	10 U	10 U	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	10 R	10 U	NA
4-METHYLPHENOL	10 U	10 U	NA
N-NITroso-DI-N-PROPYLAMINE	10 U	10 U	NA
HEXACHLOROETHANE	10 U	10 U	NA
NITROBENZENE	10 U	10 U	NA
ISOPHORONE	10 U	10 U	NA
2-NITROPHENOL	10 U	10 U	NA
2,4-DIMETHYLPHENOL	10 U	10 U	NA
BIS(2-CHLOROETHOXY)METHANE	10 U	10 U	NA
2,4-DICHLOROPHENOL	10 U	10 U	NA
1,2,4-TRICHLOROBENZENE	10 U	10 U	NA
NAPHTHALENE	10 U	10 U	NA
4-CHLOROANILINE	10 U	10 U	NA
HEXACHLOROBTADIENE	10 U	10 U	NA
4-CHLORO-3-METHYLPHENOL	10 U	10 U	NA
2-METHYLNAPHTHALENE	10 U	10 U	NA
HEXACHLOROCYCLOPENTADIENE	10 U	10 U	NA
2,4,6-TRICHLOROPHENOL	10 U	10 U	NA
2,4,5-TRICHLOROPHENOL	24 U	24 U	NA
2-CHLORONAPHTHALENE	10 U	10 U	NA
2-NITROANILINE	24 U	24 U	NA
DIMETHYLPHTHALATE	10 U	10 U	NA
ACENAPHTHYLENE	10 U	10 U	NA
2,6-DINITROTOLUENE	10 U	10 U	NA
3-NITROANILINE	24 U	24 U	NA
ACENAPHTHENE	10 U	10 U	NA
2,4-DINITROPHENOL	24 UJ	24 U	NA
4-NITROPHENOL	24 U	24 U	NA

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW02-01D	36-GW06-01D	36-GW101W-01D
DATE SAMPLED	03/27/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont.</b>			
DIBENZOFURAN	10 U	10 U	NA
2,4-DINITROTOLUENE	10 U	10 U	NA
DIETHYLPHTHALATE	10 U	10 U	NA
4-CHLOROPHENYL-PHENYLETHER	10 U	10 U	NA
FLUORENE	10 U	10 U	NA
4-NITROANILINE	24 U	24 U	NA
4,6-DINITRO-2-METHYLPHENOL	24 U	24 U	NA
N-NITROSODIPHENYLAMINE (1)	10 U	10 U	NA
4-BROMOPHENYL-PHENYLETHER	10 U	10 U	NA
HEXACHLOROBENZENE	10 U	10 U	NA
PENTACHLOROPHENOL	24 U	24 U	NA
PHENANTHRENE	10 U	10 U	NA
ANTHRACENE	10 U	10 U	NA
CARBAZOLE	10 U	10 U	NA
DI-N-BUTYLPHTHALATE	10 U	10 U	NA
FLUORANTHENE	10 U	10 U	NA
PYRENE	10 U	10 U	NA
BUTYLBENZYLPHTHALATE	10 U	10 U	NA
3,3'-DICHLOROBENZIDINE	10 U	10 U	NA
BENZO(A)ANTHRACENE	10 U	10 U	NA
CHRYSENE	10 U	10 U	NA
BIS(2-ETHYLHEXYL)PHTHALATE	10 U	1 J	NA
DI-N-OCTYL PHTHALATE	10 U	10 U	NA
BENZO(B)FLUORANTHENE	10 U	10 U	NA
BENZO(K)FLUORANTHENE	10 U	10 U	NA
BENZO(A)PYRENE	10 U	10 U	NA
INDENO(1,2,3-CD)PYRENE	10 U	10 U	NA
DIBENZO(A,H)ANTHRACENE	10 U	10 U	NA
BENZO(G,H,I)PERYLENE	10 U	10 U	NA



**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS**

LOCATION	36-GW02-01D	36-GW06-01D	36-GW10IW-01D
DATE SAMPLED	03/27/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L
<b>PESTICIDES/PCBs</b>			
ALPHA-BHC	0.048 UJ	0.048 UJ	NA
BETA-BHC	0.048 UJ	0.048 UJ	NA
DELTA-BHC	0.048 UJ	0.048 UJ	NA
GAMMA-BHC (LINDANE)	0.048 UJ	0.048 UJ	NA
HEPTACHLOR	0.048 UJ	0.048 UJ	NA
ALDRIN	0.048 UJ	0.048 UJ	NA
HEPTACHLOR EPOXIDE	0.048 UJ	0.048 UJ	NA
ENDOSULFAN I	0.048 UJ	0.048 UJ	NA
DIELDRIN	0.095 UJ	0.096 UJ	NA
4,4'-DDE	0.095 UJ	0.096 UJ	NA
ENDRIN	0.095 UJ	0.096 UJ	NA
ENDOSULFAN II	0.095 UJ	0.096 UJ	NA
4,4'-DDD	0.095 UJ	0.096 UJ	NA
ENDOSULFAN SULFATE	0.095 UJ	0.096 UJ	NA
4,4'-DDT	0.095 UJ	0.096 UJ	NA
METHOXYCHLOR	0.48 UJ	0.48 UJ	NA
ENDRIN KETONE	0.095 UJ	0.096 UJ	NA
ENDRIN ALDEHYDE	0.095 UJ	0.096 UJ	NA
ALPHA-CHLORDANE	0.048 UJ	0.048 UJ	NA
GAMMA-CHLORDANE	0.048 UJ	0.048 UJ	NA
TOXAPHENE	4.8 UJ	4.8 UJ	NA
AROCLOR-1016	0.95 UJ	0.96 UJ	NA
AROCLOR-1221	1.9 UJ	1.9 UJ	NA
AROCLOR-1232	0.95 UJ	0.96 UJ	NA
AROCLOR-1242	0.95 UJ	0.96 UJ	NA
AROCLOR-1248	0.95 UJ	0.96 UJ	NA
AROCLOR-1254	0.95 UJ	0.96 UJ	NA
AROCLOR-1260	0.95 UJ	0.96 UJ	NA

**SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
INORGANIC ANALYTES**

LOCATION	36-GW02-01D	36-GW06-01D	36-GW10IW-01D
DATE SAMPLED	03/27/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L
<b>TOTAL METALS</b>			
ALUMINUM, TOTAL	65.4 U	620	73.9 U
ANTIMONY, TOTAL	20.7 U	13	12 U
ARSENIC, TOTAL	3.3	1.9 U	1.5 U
BARIUM, TOTAL	71	63.6	27.4
BERYLLIUM, TOTAL	0.9 U	0.76 U	0.3 U
CADMIUM, TOTAL	2.8 U	2.9 U	3.9 U
CALCIUM, TOTAL	94600	6220	157000
CHROMIUM, TOTAL	2.9 U	4.7 U	5.3
COBALT, TOTAL	3 U	2.3 U	2 U
COPPER, TOTAL	1.9 U	4 U	1.8 U
IRON, TOTAL	17300 J	4970	82.8
LEAD, TOTAL	1.6 U	1.6 U	1.2 U
MAGNESIUM, TOTAL	29700	2720	11100
MANGANESE, TOTAL	463	22.9	90
MERCURY, TOTAL	0.2 U	0.2 U	0.2 U
NICKEL, TOTAL	10.8 U	4.2 U	5.4 U
POTASSIUM, TOTAL	37700	964	3810
SELENIUM, TOTAL	1.4 U	1.5 U	1.8 UJ
SILVER, TOTAL	3 U	2.5 U	1.9 U
SODIUM, TOTAL	47500	11900	40100
THALLIUM, TOTAL	0.7 U	0.7 U	0.7 U
VANADIUM, TOTAL	2.3 U	2.1 U	5.4 U
ZINC, TOTAL	3.8 U	1.9 U	3.6 U

**SURFACE WATER**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION                    36-SW05D  
 DATE SAMPLED              04/18/94  
 UNITS                        UG/L

**VOLATILES**

Chloromethane	10 UJ
Bromomethane	10 UJ
Vinyl Chloride	10 UJ
Chloroethane	10 UJ
Methylene Chloride	10 UJ
Acetone	10 UJ
Carbon Disulfide	10 UJ
1,1-Dichloroethene	10 UJ
1,1-Dichloroethane	10 UJ
1,2-Dichloroethene (total)	10 UJ
Chloroform	10 UJ
1,2-Dichloroethane	10 UJ
2-Butanone	10 UJ
1,1,1-Trichloroethane	10 UJ
Carbon Tetrachloride	10 UJ
Bromodichloromethane	10 UJ
1,2-Dichloropropane	10 UJ
cis-1,3-Dichloropropene	10 UJ
Trichloroethene	10 UJ
Dibromochloromethane	10 UJ
1,1,2-Trichloroethane	10 UJ
Benzene	10 UJ
trans-1,3-Dichloropropene	10 UJ
Bromoform	10 UJ
4-Methyl-2-Pentanone	10 UJ
2-Hexanone	10 UJ
Tetrachloroethene	10 UJ
1,1,2,2-Tetrachloroethane	10 UJ
Toluene	10 UJ
Chlorobenzene	10 UJ
Ethylbenzene	10 UJ
Styrene	10 UJ
Xylene (total)	10 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION 36-SW05D  
 DATE SAMPLED 04/18/94  
 UNITS UG/L

**SEMIVOLATILES**

Phenol	10 UJ
bis(2-Chloroethyl)ether	10 U
2-Chlorophenol	10 U
1,3-Dichlorobenzene	10 U
1,4-Dichlorobenzene	10 U
1,2-Dichlorobenzene	10 U
2-Methylphenol	10 U
2,2'-oxybis(1-Chloropropane)	10 U
4-Methylphenol	10 U
N-Nitroso-di-n-propylamine	10 U
Hexachloroethane	10 U
Nitrobenzene	10 U
Isophorone	10 U
2-Nitrophenol	10 U
2,4-Dimethylphenol	10 U
bis(2-Chloroethoxy)methane	10 U
2,4-Dichlorophenol	10 U
1,2,4-Trichlorobenzene	10 U
Naphthalene	10 U
4-Chloroaniline	10 U
Hexachlorobutadiene	10 U
4-Chloro-3-methylphenol	10 U
2-Methylnaphthalene	10 U
Hexachlorocyclopentadiene	10 U
2,4,6-Trichlorophenol	10 U
2,4,5-Trichlorophenol	25 U
2-Chloronaphthalene	10 U
2-Nitroaniline	25 U
Dimethylphthalate	10 UJ
Acenaphthylene	10 U
2,6-Dinitrotoluene	10 U
3-Nitroaniline	25 U
Acenaphthene	10 U
2,4-Dinitrophenol	25 U
Dibenzofuran	10 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SW05D
DATE SAMPLED	04/18/94
UNITS	UG/L

**SEMIVOLATILES cont.**

4-Nitrophenol	10 UJ
2,4-Dinitrotoluene	10 U
Diethylphthalate	10 U
Fluorene	10 U
4-Chlorophenyl-phenylether	10 U
4-Nitroaniline	25 U
4,6-Dinitro-2-methylphenol	25 U
N-Nitrosodiphenylamine	10 UJ
4-Bromophenyl-phenylether	10 U
Hexachlorobenzene	10 U
Pentachlorophenol	25 U
Phenanthrene	10 U
Anthracene	10 U
Carbazole	10 U
Di-n-butylphthalate	10 U
Fluoranthene	10 U
Pyrene	10 U
Butylbenzylphthalate	10 UJ
Benzo(a)anthracene	10 U
3,3'-Dichlorobenzidine	10 U
Chrysene	10 UJ
bis(2-Ethylhexyl)phthalate	10 UJ
Di-n-octylphthalate	10 U
Benzo(b)fluoranthene	10 U
Benzo(k)fluoranthene	10 U
Benzo(a)pyrene	10 U
Indeno(1,2,3-cd)pyrene	10 U
Dibenz(a,h)anthracene	10 U
Benzo(g,h,i)perylene	10 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SW05D
DATE SAMPLED	04/18/94
UNITS	UG/L
<b>PESTICIDES/PCBs</b>	
alpha-BHC	0.05 UJ
beta-BHC	0.05 UJ
delta-BHC	0.05 UJ
gamma-BHC (Lindane)	0.05 UJ
Heptachlor	0.05 UJ
Aldrin	0.05 UJ
Heptachlor epoxide	0.05 UJ
Endosulfan I	0.05 UJ
Dieldrin	0.1 UJ
4,4'-DDE	0.1 UJ
Endrin	0.1 UJ
Endosulfan II	0.1 UJ
4,4'-DDD	0.1 UJ
Endosulfan sulfate	0.1 UJ
4,4'-DDT	0.1 UJ
Methoxychlor	0.50 U
Endrin ketone	0.1 UJ
Endrin aldehyde	0.1 UJ
alpha-Chlordane	0.16 J
gamma-Chlordane	0.05 UJ
Toxaphene	5 UJ
Aroclor-1016	1 UJ
Aroclor-1221	2 UJ
Aroclor-1232	1 UJ
Aroclor-1242	1 UJ
Aroclor-1248	1 UJ
Aroclor-1254	1 UJ
Aroclor-1260	1 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SURFACE WATER - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-SW05D
DATE SAMPLED	04/18/94
UNITS	UG/L

**TOTAL METALS**

ALUMINUM, SOLUBLE	1 U
ANTIMONY, SOLUBLE	6.8 J
ARSENIC, SOLUBLE	1 U
BARIUM, SOLUBLE	17.4 U
BERYLLIUM, SOLUBLE	1 U
CADMIUM, SOLUBLE	1 U
CALCIUM, SOLUBLE	41400
CHROMIUM, SOLUBLE	2.4 U
COBALT, SOLUBLE	9 U
COPPER, SOLUBLE	4.9 U
IRON, SOLUBLE	751 J
LEAD, SOLUBLE	2 U
MAGNESIUM, SOLUBLE	18400
MANGANESE, SOLUBLE	25.7
MERCURY, SOLUBLE	0.36 U
NICKEL, SOLUBLE	22.8
POTASSIUM, SOLUBLE	8380
SELENIUM, SOLUBLE	1 U
SILVER, SOLUBLE	1.3 U
SODIUM, SOLUBLE	106500
THALLIUM, SOLUBLE	1 UJ
VANADIUM, SOLUBLE	9.7
ZINC, SOLUBLE	9.5 U



**SITE 36, CAMP GEIGER AREA DUMP  
SURFACE WATER - DUPLICATE SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
DISSOLVED INORGANIC ANALYTES**

LOCATION	36-DSW05D
DATE SAMPLED	05/05/95
UNITS	UG/L

**DISSOLVED METALS**

ALUMINUM, SOLUBLE	21.2 U
ANTIMONY, SOLUBLE	20.8 U
ARSENIC, SOLUBLE	1.7 U
BARIUM, SOLUBLE	25.8
BERYLLIUM, SOLUBLE	0.8 U
CADMIUM, SOLUBLE	1.9 U
CALCIUM, SOLUBLE	111000
CHROMIUM, SOLUBLE	4.1 U
COBALT, SOLUBLE	3.4 U
COPPER, SOLUBLE	1.8 U
IRON, SOLUBLE	36.6 U
LEAD, SOLUBLE	0.8 UJ
MAGNESIUM, SOLUBLE	280000
MANGANESE, SOLUBLE	26.3
MERCURY, SOLUBLE	0.2 U
NICKEL, SOLUBLE	10.9 U
POTASSIUM, SOLUBLE	99400 J
SELENIUM, SOLUBLE	1.8 UJ
SILVER, SOLUBLE	2.8 U
SODIUM, SOLUBLE	2280000
THALLIUM, SOLUBLE	0.7 UJ
VANADIUM, SOLUBLE	2.9
ZINC, SOLUBLE	6 U

**SEDIMENT**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-SD02-06D	36-SD05-06D
DATE SAMPLED	05/17/94	05/18/94
UNITS	UG/KG	UG/KG
<b>VOLATILES</b>		
Chloromethane	14 U	25 U
Bromomethane	14 U	25 UJ
Vinyl Chloride	14 U	25 U
Chloroethane	14 U	25 U
Methylene Chloride	14 U	25 U
Acetone	14 UJ	25 UJ
Carbon Disulfide	14 R	25 UJ
1,1-Dichloroethene	14 U	25 U
1,1-Dichloroethane	14 U	25 U
1,2-Dichloroethene (total)	14 U	25 U
Chloroform	14 U	25 U
1,2-Dichloroethane	14 U	25 U
2-Butanone	14 U	25 UJ
1,1,1-Trichloroethane	14 U	25 U
Carbon Tetrachloride	14 U	25 U
Bromodichloromethane	14 U	25 U
1,2-Dichloropropane	14 U	25 U
cis-1,3-Dichloropropene	14 U	25 U
Trichloroethene	14 U	25 U
Dibromochloromethane	14 U	25 U
1,1,2-Trichloroethane	14 U	25 U
Benzene	14 U	25 U
trans-1,3-Dichloropropene	14 U	25 U
Bromoform	14 U	25 U
4-Methyl-2-Pentanone	14 U	25 UJ
2-Hexanone	14 U	25 UJ
Tetrachloroethene	14 U	25 U
1,1,2,2-Tetrachloroethane	14 U	25 U
Toluene	14 U	25 U
Chlorobenzene	14 U	25 U
Ethylbenzene	14 U	25 U
Styrene	14 UJ	25 U
Xylene (total)	14 U	25 U

**SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS**

LOCATION	36-SD02-06D	36-SD05-06D
DATE SAMPLED	05/17/94	05/18/94
UNITS	UG/KG	UG/KG
<b>SEMIVOLATILES</b>		
Phenol	446 U	838 U
bis(2-Chloroethyl)ether	446 UJ	838 UJ
2-Chlorophenol	446 U	838 U
1,3-Dichlorobenzene	446 U	838 U
1,4-Dichlorobenzene	446 U	838 U
1,2-Dichlorobenzene	446 U	838 U
2-Methylphenol	446 U	838 U
2,2'-oxybis(1-Chloropropane)	446 U	838 U
4-Methylphenol	446 U	838 U
N-Nitroso-di-n-propylamine	446 U	838 U
Hexachloroethane	446 U	838 U
Nitrobenzene	446 U	838 U
Isophorone	446 UJ	838 UJ
2-Nitrophenol	446 U	838 U
2,4-Dimethylphenol	446 U	838 U
bis(2-Chloroethoxy)methane	446 U	838 U
2,4-Dichlorophenol	446 U	838 U
1,2,4-Trichlorobenzene	446 U	838 U
Naphthalene	446 U	838 U
4-Chloroaniline	446 UJ	838 UJ
Hexachlorobutadiene	446 U	838 U
4-Chloro-3-methylphenol	446 U	838 U
2-Methylnaphthalene	446 U	838 U
Hexachlorocyclopentadiene	446 U	838 U
2,4,6-Trichlorophenol	446 U	838 U
2,4,5-Trichlorophenol	1081 U	2030 U
2-Chloronaphthalene	446 U	838 U
2-Nitroaniline	1081 U	2030 U
Dimethylphthalate	446 U	838 U
Acenaphthylene	446 U	838 U
2,6-Dinitrotoluene	446 UJ	838 UJ
3-Nitroaniline	1081 UJ	2030 UJ
Acenaphthene	446 U	838 U
2,4-Dinitrophenol	1081 U	2030 UJ
Dibenzofuran	446 U	838 U

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-SD02-06D	36-SD05-06D
DATE SAMPLED	05/17/94	05/18/94
UNITS	UG/KG	UG/KG
<b>SEMIVOLATILES cont.</b>		
4-Nitrophenol	446 UJ	838 UJ
2,4-Dinitrotoluene	446 U	838 U
Diethylphthalate	346 J	838 UJ
Fluorene	446 U	838 U
4-Chlorophenyl-phenylether	446 U	838 U
4-Nitroaniline	1081 U	2030 UJ
4,6-Dinitro-2-methylphenol	1081 U	2030 U
N-Nitrosodiphenylamine	446 U	838 U
4-Bromophenyl-phenylether	446 U	838 U
Hexachlorobenzene	446 U	838 U
Pentachlorophenol	1081 U	2030 U
Phenanthrene	446 U	838 U
Anthracene	446 U	838 U
Carbazole	446 U	838 U
Di-n-butylphthalate	446 U	838 U
Fluoranthene	446 U	838 U
Pyrene	446 UJ	838 U
Butylbenzylphthalate	446 UJ	838 U
Benzo(a)anthracene	446 UJ	838 U
3,3'-Dichlorobenzidine	446 UJ	838 UJ
Chrysene	446 UJ	838 U
bis(2-Ethylhexyl)phthalate	432 J	838 UJ
Di-n-octylphthalate	446 UJ	838 U
Benzo(b)fluoranthene	446 UJ	838 U
Benzo(k)fluoranthene	446 UJ	838 U
Benzo(a)pyrene	446 UJ	838 U
Indeno(1,2,3-cd)pyrene	446 UJ	838 U
Dibenz(a,h)anthracene	446 UJ	838 U
Benzo(g,h,i)perylene	446 UJ	838 U

SITE 36, CAMP GEIGER AREA DUMP  
 SEDIMENT - DUPLICATE SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

LOCATION	36-SD02-06D	36-SD05-06D
DATE SAMPLED	05/17/94	05/18/94
UNITS	UG/KG	UG/KG
<b>PESTICIDES/PCBs</b>		
alpha-BHC	23 U	24 U
beta-BHC	23 U	24 U
delta-BHC	23 U	24 U
gamma-BHC (Lindane)	23 U	24 U
Heptachlor	23 U	24 U
Aldrin	23 U	24 U
Heptachlor epoxide	23 U	24 U
Endosulfan I	23 U	24 U
Dieldrin	45 U	47 U
4,4'-DDE	154 J	196 J
Endrin	23 U	24 U
Endosulfan II	45 U	47 U
4,4'-DDD	184	222 J
Endosulfan sulfate	45 U	47 U
4,4'-DDT	45 U	15 J
Methoxychlor	231 U	243 U
Endrin ketone	45 U	47 U
Endrin aldehyde	45 U	14 J
alpha-Chlordane	23 U	24 U
gamma-Chlordane	23 U	24 U
Toxaphene	2310 U	2430 U
Aroclor-1016	448 U	471 U
Aroclor-1221	910 U	957 U
Aroclor-1232	448 U	471 U
Aroclor-1242	448 U	471 U
Aroclor-1248	448 U	471 U
Aroclor-1254	448 U	471 U
Aroclor-1260	448 U	471 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SEDIMENT - DUPLICATE SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	36-SD02-06D	36-SD05-06D
DATE SAMPLED	05/17/94	05/18/94
UNITS	MG/KG	MG/KG
<b>TOTAL METALS</b>		
Aluminum	3990	4260
Antimony	6.2 UJ	11.7 UJ
Arsenic	2.1 J	3 J
Barium	17.5	8.4
Beryllium	0.14 U	0.25 U
Cadmium	0.92 U	0.29 U
Calcium	3530 J	2010 J
Chromium	18.2	6.3
Cobalt	1.5 U	2.8 U
Copper	8	11.4
Iron	4630	5270
Lead	77.4 J	29.7
Magnesium	238	1220
Manganese	7.2	14.2
Mercury	0.28 R	0.62 R
Nickel	2	10.1
Potassium	332 U	619 U
Selenium	0.24 U	0.79 U
Silver	0.41 U	0.76 U
Sodium	322 U	2330
Thallium	0.2	0.38
Vanadium	18.4	18
Zinc	63.3 R	52.2 R

**APPENDIX K**  
**QA/QC SAMPLING SUMMARIES**

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**SOIL**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-FB-01	303-TB-01	303-TB-02	303-TB-03	303-TB-04	303-TB-05
DATE SAMPLED	02/28/95	02/22/95	02/22/95	02/24/95	02/25/95	02/26/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>						
CHLOROMETHANE	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
VINYL CHLORIDE	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
METHYLENE CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	10 U	10 U	10 U	10 U	10 U	17 J
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	13	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	22	20	18	17	18
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	13	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	10	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 U	10 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	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-FB-01	303-TB-01	303-TB-02	303-TB-03	303-TB-04	303-TB-05
DATE SAMPLED	02/28/95	02/22/95	02/22/95	02/24/95	02/25/95	02/26/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
PHENOL	11 U	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	11 U	NA	NA	NA	NA	NA
2-CHLOROPHENOL	11 U	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	11 U	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	11 U	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	11 U	NA	NA	NA	NA	NA
2-METHYLPHENOL	11 U	NA	NA	NA	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	11 U	NA	NA	NA	NA	NA
4-METHYLPHENOL	11 U	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	11 U	NA	NA	NA	NA	NA
HEXACHLOROETHANE	11 U	NA	NA	NA	NA	NA
NITROBENZENE	11 U	NA	NA	NA	NA	NA
ISOPHORONE	11 U	NA	NA	NA	NA	NA
2-NITROPHENOL	11 U	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	11 U	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	11 U	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	11 U	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	11 U	NA	NA	NA	NA	NA
NAPHTHALENE	11 U	NA	NA	NA	NA	NA
4-CHLOROANILINE	11 U	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	11 U	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	11 U	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	11 U	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	11 U	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	11 U	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	27 U	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	11 U	NA	NA	NA	NA	NA
2-NITROANILINE	27 U	NA	NA	NA	NA	NA
DIMETHYLPHTHALATE	11 U	NA	NA	NA	NA	NA
ACENAPHTHYLENE	11 U	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	11 U	NA	NA	NA	NA	NA
3-NITROANILINE	27 U	NA	NA	NA	NA	NA
ACENAPHTHENE	11 U	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	27 U	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-FB-01	303-TB-01	303-TB-02	303-TB-03	303-TB-04	303-TB-05
DATE SAMPLED	02/28/95	02/22/95	02/22/95	02/24/95	02/25/95	02/26/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	27 U	NA	NA	NA	NA	NA
DIBENZOFURAN	11 U	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	11 U	NA	NA	NA	NA	NA
DIETHYLPHTHALATE	11 U	NA	NA	NA	NA	NA
4-CHLOROPHENYL-PHENYLETHER	11 U	NA	NA	NA	NA	NA
FLUORENE	11 U	NA	NA	NA	NA	NA
4-NITROANILINE	27 U	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	27 U	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE (1)	11 U	NA	NA	NA	NA	NA
4-BROMOPHENYL-PHENYLETHER	11 U	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	11 U	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	27 U	NA	NA	NA	NA	NA
PHENANTHRENE	11 U	NA	NA	NA	NA	NA
ANTHRACENE	11 U	NA	NA	NA	NA	NA
CARBAZOLE	11 U	NA	NA	NA	NA	NA
DI-N-BUTYLPHTHALATE	11 U	NA	NA	NA	NA	NA
FLUORANTHENE	11 U	NA	NA	NA	NA	NA
PYRENE	11 U	NA	NA	NA	NA	NA
BUTYLBENZYLPHTHALATE	11 U	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	11 U	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	11 U	NA	NA	NA	NA	NA
CHRYSENE	11 U	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	11 U	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	11 U	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	11 U	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	11 U	NA	NA	NA	NA	NA
BENZO(A)PYRENE	11 U	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	11 U	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	11 U	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	11 U	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-FB-01	303-TB-01	303-TB-02	303-TB-03	303-TB-04	303-TB-05
DATE SAMPLED	02/28/95	02/22/95	02/22/95	02/24/95	02/25/95	02/26/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	0.052 U	NA	NA	NA	NA	NA
BETA-BHC	0.052 U	NA	NA	NA	NA	NA
DELTA-BHC	0.052 U	NA	NA	NA	NA	NA
GAMMA-BHC (LINDANE)	0.052 U	NA	NA	NA	NA	NA
HEPTACHLOR	0.052 U	NA	NA	NA	NA	NA
ALDRIN	0.052 U	NA	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	0.052 U	NA	NA	NA	NA	NA
ENDOSULFAN I	0.052 U	NA	NA	NA	NA	NA
DIELDRIN	0.1 U	NA	NA	NA	NA	NA
4,4'-DDE	0.1 U	NA	NA	NA	NA	NA
ENDRIN	0.1 U	NA	NA	NA	NA	NA
ENDOSULFAN II	0.1 U	NA	NA	NA	NA	NA
4,4'-DDD	0.1 U	NA	NA	NA	NA	NA
ENDOSULFAN SULFATE	0.1 U	NA	NA	NA	NA	NA
4,4'-DDT	0.1 U	NA	NA	NA	NA	NA
METHOXYCHLOR	0.52 U	NA	NA	NA	NA	NA
ENDRIN KETONE	0.1 U	NA	NA	NA	NA	NA
ENDRIN ALDEHYDE	0.1 U	NA	NA	NA	NA	NA
ALPHA-CHLORDANE	0.052 U	NA	NA	NA	NA	NA
GAMMA-CHLORDANE	0.052 U	NA	NA	NA	NA	NA
TOXAPHENE	5.2 U	NA	NA	NA	NA	NA
AROCLOR-1016	1 U	NA	NA	NA	NA	NA
AROCLOR-1221	2.1 U	NA	NA	NA	NA	NA
AROCLOR-1232	1 U	NA	NA	NA	NA	NA
AROCLOR-1242	1 U	NA	NA	NA	NA	NA
AROCLOR-1248	1 U	NA	NA	NA	NA	NA
AROCLOR-1254	1 U	NA	NA	NA	NA	NA
AROCLOR-1260	1 U	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-TB-06	303-TB-07	303-TB-09	303-TB-12	303-TB-40	303-TB-48
DATE SAMPLED	02/27/95	02/28/95	03/07/95	03/09/95	04/23/95	05/06/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>						
CHLOROMETHANE	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
VINYL CHLORIDE	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
METHYLENE CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	15 J	24 J	10 U	15 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 R
CHLOROFORM	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	19	18	23	29	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 U	10 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	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U

SITE 36, CAMP GEIGER AREA DUMP  
 SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE	303-TB-06	303-TB-07	303-TB-09	303-TB-12	303-TB-40	303-TB-48
DATE SAMPLED	02/27/95	02/28/95	03/07/95	03/09/95	04/23/95	05/06/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
PHENOL	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA	NA	NA	NA	NA
4-METHYLPHENOL	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA
DIMETHYLPHTHALATE	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-TB-06	303-TB-07	303-TB-09	303-TB-12	303-TB-40	303-TB-48
DATE SAMPLED	02/27/95	02/28/95	03/07/95	03/09/95	04/23/95	05/06/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
DIETHYLPHTHALATE	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL-PHENYLETHER	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE (1)	NA	NA	NA	NA	NA	NA
4-BROMOPHENYL-PHENYLETHER	NA	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA
CARBAZOLE	NA	NA	NA	NA	NA	NA
DI-N-BUTYLPHTHALATE	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA
BUTYLBENZYLPHTHALATE	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZO(A)PYRENE	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	NA	NA	NA



**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-TB-06	303-TB-07	303-TB-09	303-TB-12	303-TB-40	303-TB-48
DATE SAMPLED	02/27/95	02/28/95	03/07/95	03/09/95	04/23/95	05/06/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	NA	NA	NA	NA	NA	NA
BETA-BHC	NA	NA	NA	NA	NA	NA
DELTA-BHC	NA	NA	NA	NA	NA	NA
GAMMA-BHC (LINDANE)	NA	NA	NA	NA	NA	NA
HEPTACHLOR	NA	NA	NA	NA	NA	NA
ALDRIN	NA	NA	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	NA	NA	NA	NA	NA	NA
ENDOSULFAN I	NA	NA	NA	NA	NA	NA
DIELDRIN	NA	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA
ENDRIN	NA	NA	NA	NA	NA	NA
ENDOSULFAN II	NA	NA	NA	NA	NA	NA
4,4'-DDD	NA	NA	NA	NA	NA	NA
ENDOSULFAN SULFATE	NA	NA	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA	NA	NA
METHOXYCHLOR	NA	NA	NA	NA	NA	NA
ENDRIN KETONE	NA	NA	NA	NA	NA	NA
ENDRIN ALDEHYDE	NA	NA	NA	NA	NA	NA
ALPHA-CHLORDANE	NA	NA	NA	NA	NA	NA
GAMMA-CHLORDANE	NA	NA	NA	NA	NA	NA
TOXAPHENE	NA	NA	NA	NA	NA	NA
AROCLOR-1016	NA	NA	NA	NA	NA	NA
AROCLOR-1221	NA	NA	NA	NA	NA	NA
AROCLOR-1232	NA	NA	NA	NA	NA	NA
AROCLOR-1242	NA	NA	NA	NA	NA	NA
AROCLOR-1248	NA	NA	NA	NA	NA	NA
AROCLOR-1254	NA	NA	NA	NA	NA	NA
AROCLOR-1260	NA	NA	NA	NA	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-TB-49	36-SIER-01	36-SIER-03
DATE SAMPLED	05/07/95	02/22/95	02/24/95
UNITS	UG/L	UG/L	UG/L
<b>VOLATILES</b>			
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	10 U	10 U	10 U
ACETONE	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 UJ	10 U	10 U
CHLOROFORM	10 U	3 J	4 J
1,2-DICHLOROETHANE	10 U	10 U	10 U
2-BUTANONE	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U
TRICHLOROETHENE	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U
TETRACHLOROETHENE	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10 U
TOLUENE	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U

SITE 36, CAMP GEIGER AREA DUMP  
 SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE	303-TB-49	36-SIER-01	36-SIER-03
DATE SAMPLED	05/07/95	02/22/95	02/24/95
UNITS	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>			
PHENOL	NA	10 U	10 U
BIS(2-CHLOROETHYL)ETHER	NA	10 U	10 U
2-CHLOROPHENOL	NA	10 U	10 U
1,3-DICHLOROBENZENE	NA	10 U	10 U
1,4-DICHLOROBENZENE	NA	10 U	10 U
1,2-DICHLOROBENZENE	NA	10 U	10 U
2-METHYLPHENOL	NA	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	10 U	10 U
4-METHYLPHENOL	NA	10 U	10 U
N-NITROSO-DI-N-PROPYLAMINE	NA	10 U	10 U
HEXACHLOROETHANE	NA	10 U	10 U
NITROBENZENE	NA	10 U	10 U
ISOPHORONE	NA	10 U	10 U
2-NITROPHENOL	NA	10 U	10 U
2,4-DIMETHYLPHENOL	NA	10 U	10 U
BIS(2-CHLOROETHOXY)METHANE	NA	10 U	10 U
2,4-DICHLOROPHENOL	NA	10 U	10 U
1,2,4-TRICHLOROBENZENE	NA	10 U	10 U
NAPHTHALENE	NA	10 U	10 U
4-CHLOROANILINE	NA	10 U	10 U
HEXACHLOROBUTADIENE	NA	10 U	10 U
4-CHLORO-3-METHYLPHENOL	NA	10 U	10 U
2-METHYLNAPHTHALENE	NA	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	NA	10 U	10 U
2,4,6-TRICHLOROPHENOL	NA	10 U	10 U
2,4,5-TRICHLOROPHENOL	NA	24 U	24 U
2-CHLORONAPHTHALENE	NA	10 U	10 U
2-NITROANILINE	NA	24 U	24 U
DIMETHYLPHTHALATE	NA	10 U	10 U
ACENAPHTHYLENE	NA	10 U	10 U
2,6-DINITROTOLUENE	NA	10 U	10 U
3-NITROANILINE	NA	24 U	24 U
ACENAPHTHENE	NA	10 U	10 U
2,4-DINITROPHENOL	NA	24 UJ	24 UJ

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-TB-49	36-SIER-01	36-SIER-03
DATE SAMPLED	05/07/95	02/22/95	02/24/95
UNITS	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>			
4-NITROPHENOL	NA	24 U	24 U
DIBENZOFURAN	NA	10 U	10 U
2,4-DINITROTOLUENE	NA	10 U	10 U
DIETHYLPHTHALATE	NA	10 U	10 U
4-CHLOROPHENYL-PHENYLETHER	NA	10 U	10 U
FLUORENE	NA	10 U	10 U
4-NITROANILINE	NA	24 U	24 U
4,6-DINITRO-2-METHYLPHENOL	NA	24 UJ	24 UJ
N-NITROSODIPHENYLAMINE (1)	NA	10 U	10 U
4-BROMOPHENYL-PHENYLETHER	NA	10 U	10 U
HEXACHLOROBENZENE	NA	10 U	10 U
PENTACHLOROPHENOL	NA	24 U	24 U
PHENANTHRENE	NA	10 U	10 U
ANTHRACENE	NA	10 U	10 U
CARBAZOLE	NA	10 U	10 U
DI-N-BUTYLPHTHALATE	NA	10 U	10 U
FLUORANTHENE	NA	10 U	10 U
PYRENE	NA	10 U	10 U
BUTYLBENZYLPHTHALATE	NA	10 U	10 U
3,3'-DICHLOROBENZIDINE	NA	10 U	10 U
BENZO(A)ANTHRACENE	NA	10 U	10 U
CHRYSENE	NA	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	NA	67 U	10 U
DI-N-OCTYL PHTHALATE	NA	10 UJ	10 UJ
BENZO(B)FLUORANTHENE	NA	10 U	10 U
BENZO(K)FLUORANTHENE	NA	10 U	10 U
BENZO(A)PYRENE	NA	10 U	10 U
INDENO(1,2,3-CD)PYRENE	NA	10 U	10 U
DIBENZO(A,H)ANTHRACENE	NA	10 U	10 U
BENZO(G,H,I)PERYLENE	NA	10 U	10 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE	303-TB-49	36-SIER-01	36-SIER-03
DATE SAMPLED	05/07/95	02/22/95	02/24/95
UNITS	UG/L	UG/L	UG/L
<b>PESTICIDES/PCBs</b>			
ALPHA-BHC	NA	0.048 U	0.048 U
BETA-BHC	NA	0.048 U	0.048 U
DELTA-BHC	NA	0.048 U	0.048 U
GAMMA-BHC (LINDANE)	NA	0.048 U	0.048 U
HEPTACHLOR	NA	0.048 U	0.048 U
ALDRIN	NA	0.048 U	0.048 U
HEPTACHLOR EPOXIDE	NA	0.048 U	0.048 U
ENDOSULFAN I	NA	0.048 U	0.048 U
DIELDRIN	NA	0.095 U	0.095 U
4,4'-DDE	NA	0.095 U	0.095 U
ENDRIN	NA	0.095 U	0.095 U
ENDOSULFAN II	NA	0.095 U	0.095 U
4,4'-DDD	NA	0.095 U	0.095 U
ENDOSULFAN SULFATE	NA	0.095 U	0.095 U
4,4'-DDT	NA	0.095 U	0.095 U
METHOXYCHLOR	NA	0.48 U	0.48 U
ENDRIN KETONE	NA	0.095 U	0.095 U
ENDRIN ALDEHYDE	NA	0.095 U	0.095 U
ALPHA-CHLORDANE	NA	0.048 U	0.048 U
GAMMA-CHLORDANE	NA	0.048 U	0.048 U
TOXAPHENE	NA	4.8 U	4.8 U
AROCLOR-1016	NA	0.95 U	0.95 U
AROCLOR-1221	NA	1.9 U	1.9 U
AROCLOR-1232	NA	0.95 U	0.95 U
AROCLOR-1242	NA	0.95 U	0.95 U
AROCLOR-1248	NA	0.95 U	0.95 U
AROCLOR-1254	NA	0.95 U	0.95 U
AROCLOR-1260	NA	0.95 U	0.95 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
CHLOROMETHANE	10 U	10 U	ND	ND		0/15
BROMOMETHANE	10 U	10 U	ND	ND		0/15
VINYL CHLORIDE	10 U	10 U	ND	ND		0/15
CHLOROETHANE	10 U	10 U	ND	ND		0/15
METHYLENE CHLORIDE	10 U	10 U	ND	ND		0/15
ACETONE	10 U	15 U	15 J	24 J	303-TB-07	3/15
CARBON DISULFIDE	10 U	10 U	ND	ND		0/15
1,1-DICHLOROETHENE	10 U	10 U	ND	ND		0/15
1,1-DICHLOROETHANE	10 U	10 U	ND	ND		0/15
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	ND	ND		0/14
CHLOROFORM	10 U	10 U	3 J	13	303-FB-01	3/15
1,2-DICHLOROETHANE	10 U	10 U	ND	ND		0/15
2-BUTANONE	10 U	10 U	17	29	303-TB-12	9/15
1,1,1-TRICHLOROETHANE	10 U	10 U	ND	ND		0/15
CARBON TETRACHLORIDE	10 U	10 U	ND	ND		0/15
BROMODICHLOROMETHANE	10 U	10 U	13	13	303-FB-01	1/15
1,2-DICHLOROPROPANE	10 U	10 U	ND	ND		0/15
CIS-1,3-DICHLOROPROPENE	10 U	10 U	ND	ND		0/15
TRICHLOROETHENE	10 U	10 U	ND	ND		0/15
DIBROMOCHLOROMETHANE	10 U	10 U	10	10	303-FB-01	1/15
1,1,2-TRICHLOROETHANE	10 U	10 U	ND	ND		0/15
BENZENE	10 U	10 U	ND	ND		0/15
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	ND	ND		0/15
BROMOFORM	10 U	10 U	ND	ND		0/15
4-METHYL-2-PENTANONE	10 U	10 U	ND	ND		0/15
2-HEXANONE	10 U	10 U	ND	ND		0/15
TETRACHLOROETHENE	10 U	10 U	ND	ND		0/15
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	ND	ND		0/15
TOLUENE	10 U	10 U	ND	ND		0/15
CHLOROBENZENE	10 U	10 U	ND	ND		0/15
ETHYLBENZENE	10 U	10 U	ND	ND		0/15
STYRENE	10 U	10 U	ND	ND		0/15
XYLENE (TOTAL)	10 U	10 U	ND	ND		0/15

SITE 36, CAMP GEIGER AREA DUMP  
 SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
PHENOL	10 U	11 U	ND	ND		0/3
BIS(2-CHLOROETHYL)ETHER	10 U	11 U	ND	ND		0/3
2-CHLOROPHENOL	10 U	11 U	ND	ND		0/3
1,3-DICHLOROBENZENE	10 U	11 U	ND	ND		0/3
1,4-DICHLOROBENZENE	10 U	11 U	ND	ND		0/3
1,2-DICHLOROBENZENE	10 U	11 U	ND	ND		0/3
2-METHYLPHENOL	10 U	11 U	ND	ND		0/3
2,2'-OXYBIS(1-CHLOROPROPANE)	10 U	11 U	ND	ND		0/3
4-METHYLPHENOL	10 U	11 U	ND	ND		0/3
N-NITROSO-DI-N-PROPYLAMINE	10 U	11 U	ND	ND		0/3
HEXACHLOROETHANE	10 U	11 U	ND	ND		0/3
NITROBENZENE	10 U	11 U	ND	ND		0/3
ISOPHORONE	10 U	11 U	ND	ND		0/3
2-NITROPHENOL	10 U	11 U	ND	ND		0/3
2,4-DIMETHYLPHENOL	10 U	11 U	ND	ND		0/3
BIS(2-CHLOROETHOXY)METHANE	10 U	11 U	ND	ND		0/3
2,4-DICHLOROPHENOL	10 U	11 U	ND	ND		0/3
1,2,4-TRICHLOROBENZENE	10 U	11 U	ND	ND		0/3
NAPHTHALENE	10 U	11 U	ND	ND		0/3
4-CHLOROANILINE	10 U	11 U	ND	ND		0/3
HEXACHLOROBUTADIENE	10 U	11 U	ND	ND		0/3
4-CHLORO-3-METHYLPHENOL	10 U	11 U	ND	ND		0/3
2-METHYLNAPHTHALENE	10 U	11 U	ND	ND		0/3
HEXACHLOROCYCLOPENTADIENE	10 U	11 U	ND	ND		0/3
2,4,6-TRICHLOROPHENOL	10 U	11 U	ND	ND		0/3
2,4,5-TRICHLOROPHENOL	24 U	27 U	ND	ND		0/3
2-CHLORONAPHTHALENE	10 U	11 U	ND	ND		0/3
2-NITROANILINE	24 U	27 U	ND	ND		0/3
DIMETHYLPHTHALATE	10 U	11 U	ND	ND		0/3
ACENAPHTHYLENE	10 U	11 U	ND	ND		0/3
2,6-DINITROTOLUENE	10 U	11 U	ND	ND		0/3
3-NITROANILINE	24 U	27 U	ND	ND		0/3
ACENAPHTHENE	10 U	11 U	ND	ND		0/3
2,4-DINITROPHENOL	24 UJ	27 U	ND	ND		0/3

SITE 36, CAMP GEIGER AREA DUMP  
 SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont</b>						
4-NITROPHENOL	24 U	27 U	ND	ND		0/3
DIBENZOFURAN	10 U	11 U	ND	ND		0/3
2,4-DINITROTOLUENE	10 U	11 U	ND	ND		0/3
DIETHYLPHTHALATE	10 U	11 U	ND	ND		0/3
4-CHLOROPHENYL-PHENYLETHER	10 U	11 U	ND	ND		0/3
FLUORENE	10 U	11 U	ND	ND		0/3
4-NITROANILINE	24 U	27 U	ND	ND		0/3
4,6-DINITRO-2-METHYLPHENOL	24 U	27 U	ND	ND		0/3
N-NITROSODIPHENYLAMINE (1)	10 U	11 U	ND	ND		0/3
4-BROMOPHENYL-PHENYLETHER	10 U	11 U	ND	ND		0/3
HEXACHLOROBENZENE	10 U	11 U	ND	ND		0/3
PENTACHLOROPHENOL	24 U	27 U	ND	ND		0/3
PHENANTHRENE	10 U	11 U	ND	ND		0/3
ANTHRACENE	10 U	11 U	ND	ND		0/3
CARBAZOLE	10 U	11 U	ND	ND		0/3
DI-N-BUTYLPHTHALATE	10 U	11 U	ND	ND		0/3
FLUORANTHENE	10 U	11 U	ND	ND		0/3
PYRENE	10 U	11 U	ND	ND		0/3
BUTYLBENZYLPHTHALATE	10 U	11 U	ND	ND		0/3
3,3'-DICHLOROBENZIDINE	10 U	11 U	ND	ND		0/3
BENZO(A)ANTHRACENE	10 U	11 U	ND	ND		0/3
CHRYSENE	10 U	11 U	ND	ND		0/3
BIS(2-ETHYLHEXYL)PHTHALATE	10 U	67 U	ND	ND		0/3
DI-N-OCTYL PHTHALATE	10 U	11 U	ND	ND		0/3
BENZO(B)FLUORANTHENE	10 U	11 U	ND	ND		0/3
BENZO(K)FLUORANTHENE	10 U	11 U	ND	ND		0/3
BENZO(A)PYRENE	10 U	11 U	ND	ND		0/3
INDENO(1,2,3-CD)PYRENE	10 U	11 U	ND	ND		0/3
DIBENZO(A,H)ANTHRACENE	10 U	11 U	ND	ND		0/3
BENZO(G,H,I)PERYLENE	10 U	11 U	ND	ND		0/3



SITE 36, CAMP GEIGER AREA DUMP  
 SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY  
 REMEDIAL INVESTIGATION, CTO-0303  
 MCB, CAMP LEJEUNE, NORTH CAROLINA  
 ORGANIC COMPOUNDS

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>PESTICIDES/PCBs</b>						
ALPHA-BHC	0.048 U	0.052 U	ND	ND		0/3
BETA-BHC	0.048 U	0.052 U	ND	ND		0/3
DELTA-BHC	0.048 U	0.052 U	ND	ND		0/3
GAMMA-BHC (LINDANE)	0.048 U	0.052 U	ND	ND		0/3
HEPTACHLOR	0.048 U	0.052 U	ND	ND		0/3
ALDRIN	0.048 U	0.052 U	ND	ND		0/3
HEPTACHLOR EPOXIDE	0.048 U	0.052 U	ND	ND		0/3
ENDOSULFAN I	0.048 U	0.052 U	ND	ND		0/3
DIELDRIN	0.095 U	0.1 U	ND	ND		0/3
4,4'-DDE	0.095 U	0.1 U	ND	ND		0/3
ENDRIN	0.095 U	0.1 U	ND	ND		0/3
ENDOSULFAN II	0.095 U	0.1 U	ND	ND		0/3
4,4'-DDD	0.095 U	0.1 U	ND	ND		0/3
ENDOSULFAN SULFATE	0.095 U	0.1 U	ND	ND		0/3
4,4'-DDT	0.095 U	0.1 U	ND	ND		0/3
METHOXYCHLOR	0.48 U	0.52 U	ND	ND		0/3
ENDRIN KETONE	0.095 U	0.1 U	ND	ND		0/3
ENDRIN ALDEHYDE	0.095 U	0.1 U	ND	ND		0/3
ALPHA-CHLORDANE	0.048 U	0.052 U	ND	ND		0/3
GAMMA-CHLORDANE	0.048 U	0.052 U	ND	ND		0/3
TOXAPHENE	4.8 U	5.2 U	ND	ND		0/3
AROCLOR-1016	0.95 U	1 U	ND	ND		0/3
AROCLOR-1221	1.9 U	2.1 U	ND	ND		0/3
AROCLOR-1232	0.95 U	1 U	ND	ND		0/3
AROCLOR-1242	0.95 U	1 U	ND	ND		0/3
AROCLOR-1248	0.95 U	1 U	ND	ND		0/3
AROCLOR-1254	0.95 U	1 U	ND	ND		0/3
AROCLOR-1260	0.95 U	1 U	ND	ND		0/3

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

SAMPLE	303-FB-01	36-SIER-01	36-SIER-03
DATE SAMPLED	02/28/95	02/22/95	02/24/95
UNITS	UG/L	UG/L	UG/L
<b>TOTAL METALS</b>			
ALUMINUM, TOTAL	65.5 U	22.8 U	16.8 U
ANTIMONY, TOTAL	10.9 U	13.7 U	10.9 U
ARSENIC, TOTAL	1.6 U	1.6 U	1.6 U
BARIUM, TOTAL	3.7 U	2 U	0.8 U
BERYLLIUM, TOTAL	1.5 U	0.3 U	0.46 U
CADMIUM, TOTAL	2.9 U	2.9 U	3.3 U
CALCIUM, TOTAL	32400	57.4 U	68.7 U
CHROMIUM, TOTAL	4.7 U	4.7 U	4.7 U
COBALT, TOTAL	2.3 U	2.3 U	2.3 U
COPPER, TOTAL	4 U	4 U	4 U
IRON, TOTAL	314	4.8 U	4.4 U
LEAD, TOTAL	1.6 U	1.6 U	1.6 U
MAGNESIUM, TOTAL	4190	34.3 U	34.3 U
MANGANESE, TOTAL	10.5 U	0.9 U	0.9 U
MERCURY, TOTAL	0.2 U	0.2 U	0.2 U
NICKEL, TOTAL	4.2 U	4.2 U	4.2 U
POTASSIUM, TOTAL	4660	67.9 U	67.9 U
SELENIUM, TOTAL	1.8 UJ	1.8 UJ	1.8 U
SILVER, TOTAL	2.5 U	2.5 U	2.5 U
SODIUM, TOTAL	29100	65.7 U	62.8 U
THALLIUM, TOTAL	0.7 U	0.7 U	0.7 U
VANADIUM, TOTAL	2.1 U	2.1 U	2.1 U
ZINC, TOTAL	8.1 U	1.9 U	1.9 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**SOIL QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

SAMPLE DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	16.8 U	65.5 U	ND	ND		0/3
ANTIMONY, TOTAL	10.9 U	13.7 U	ND	ND		0/3
ARSENIC, TOTAL	1.6 U	1.6 U	ND	ND		0/3
BARIUM, TOTAL	0.8 U	3.7 U	ND	ND		0/3
BERYLLIUM, TOTAL	0.3 U	1.5 U	ND	ND		0/3
CADMIUM, TOTAL	2.9 U	3.3 U	ND	ND		0/3
CALCIUM, TOTAL	57.4 U	68.7 U	32400	32400	303-FB-01	1/3
CHROMIUM, TOTAL	4.7 U	4.7 U	ND	ND		0/3
COBALT, TOTAL	2.3 U	2.3 U	ND	ND		0/3
COPPER, TOTAL	4 U	4 U	ND	ND		0/3
IRON, TOTAL	4.4 U	4.8 U	314	314	303-FB-01	1/3
LEAD, TOTAL	1.6 U	1.6 U	ND	ND		0/3
MAGNESIUM, TOTAL	34.3 U	34.3 U	4190	4190	303-FB-01	1/3
MANGANESE, TOTAL	0.9 U	10.5 U	ND	ND		0/3
MERCURY, TOTAL	0.2 U	0.2 U	ND	ND		0/3
NICKEL, TOTAL	4.2 U	4.2 U	ND	ND		0/3
POTASSIUM, TOTAL	67.9 U	67.9 U	4660	4660	303-FB-01	1/3
SELENIUM, TOTAL	1.8 U	1.8 U	ND	ND		0/3
SILVER, TOTAL	2.5 U	2.5 U	ND	ND		0/3
SODIUM, TOTAL	62.8 U	65.7 U	29100	29100	303-FB-01	1/3
THALLIUM, TOTAL	0.7 U	0.7 U	ND	ND		0/3
VANADIUM, TOTAL	2.1 U	2.1 U	ND	ND		0/3
ZINC, TOTAL	1.9 U	8.1 U	ND	ND		0/3

**GROUNDWATER**

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**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	303-FB-02	303-TB-18	303-TB-25	303-TB-26	303-TB-27	303-TB-49
DATE_SAMPLED	03/15/95	03/15/95	03/25/95	03/27/95	03/27/95	05/07/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>						
CHLOROMETHANE	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
VINYL CHLORIDE	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
METHYLENE CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	10 U	18 U	10 U	10 U	17 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	27 J	10 U	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 U	10 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	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	303-FB-02	303-TB-18	303-TB-25	303-TB-26	303-TB-27	303-TB-49
DATE_SAMPLED	03/15/95	03/15/95	03/23/95	03/27/95	03/27/95	05/07/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
PHENOL	10 U	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	10 U	NA	NA	NA	NA	NA
2-CHLOROPHENOL	10 U	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	10 U	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	10 U	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	10 U	NA	NA	NA	NA	NA
2-METHYLPHENOL	10 U	NA	NA	NA	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	10 U	NA	NA	NA	NA	NA
4-METHYLPHENOL	10 U	NA	NA	NA	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	10 U	NA	NA	NA	NA	NA
HEXACHLOROETHANE	10 U	NA	NA	NA	NA	NA
NITROBENZENE	10 U	NA	NA	NA	NA	NA
ISOPHORONE	10 U	NA	NA	NA	NA	NA
2-NITROPHENOL	10 U	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	10 U	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	10 U	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	10 U	NA	NA	NA	NA	NA
1,2,4-TRICHLOROBENZENE	10 U	NA	NA	NA	NA	NA
NAPHTHALENE	10 U	NA	NA	NA	NA	NA
4-CHLOROANILINE	10 U	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	10 U	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	10 U	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	10 U	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	10 U	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	10 U	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	26 U	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	10 U	NA	NA	NA	NA	NA
2-NITROANILINE	26 U	NA	NA	NA	NA	NA
DIMETHYLPHTHALATE	10 U	NA	NA	NA	NA	NA
ACENAPHTHYLENE	10 U	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	10 U	NA	NA	NA	NA	NA
3-NITROANILINE	26 U	NA	NA	NA	NA	NA
ACENAPHTHENE	10 U	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	26 U	NA	NA	NA	NA	NA
4-NITROPHENOL	26 U	NA	NA	NA	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	303-FB-02	303-TB-18	303-TB-25	303-TB-26	303-TB-27	303-TB-49
DATE_SAMPLED	03/15/95	03/15/95	03/25/95	03/27/95	03/27/95	05/07/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>						
DIBENZOFURAN	10 U	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	10 U	NA	NA	NA	NA	NA
DIETHYLPHTHALATE	10 U	NA	NA	NA	NA	NA
4-CHLOROPHENYL-PHENYLETHER	10 U	NA	NA	NA	NA	NA
FLUORENE	10 U	NA	NA	NA	NA	NA
4-NITROANILINE	26 U	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	26 U	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE (1)	10 U	NA	NA	NA	NA	NA
4-BROMOPHENYL-PHENYLETHER	10 U	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	10 U	NA	NA	NA	NA	NA
PENTACHLOROPHENOL	26 U	NA	NA	NA	NA	NA
PHENANTHRENE	10 U	NA	NA	NA	NA	NA
ANTHRACENE	10 U	NA	NA	NA	NA	NA
CARBAZOLE	10 U	NA	NA	NA	NA	NA
DI-N-BUTYLPHTHALATE	10 U	NA	NA	NA	NA	NA
FLUORANTHENE	10 U	NA	NA	NA	NA	NA
PYRENE	10 U	NA	NA	NA	NA	NA
BUTYLBENZYLPHTHALATE	10 U	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	10 U	NA	NA	NA	NA	NA
BENZO(A)ANTHRACENE	10 U	NA	NA	NA	NA	NA
CHRYSENE	10 U	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	10 U	NA	NA	NA	NA	NA
DI-N-OCTYL PHTHALATE	10 U	NA	NA	NA	NA	NA
BENZO(B)FLUORANTHENE	10 U	NA	NA	NA	NA	NA
BENZO(K)FLUORANTHENE	10 U	NA	NA	NA	NA	NA
BENZO(A)PYRENE	10 U	NA	NA	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	10 U	NA	NA	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	10 U	NA	NA	NA	NA	NA
BENZO(G,H,I)PERYLENE	10 U	NA	NA	NA	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION DATE_SAMPLED UNITS	303-FB-02 03/15/95 UG/L	303-TB-18 03/15/95 UG/L	303-TB-25 03/25/95 UG/L	303-TB-26 03/27/95 UG/L	303-TB-27 03/27/95 UG/L	303-TB-49 05/07/95 UG/L
<b>PESTICIDE/PCBS</b>						
ALPHA-BHC	0.049 UJ	NA	NA	NA	NA	NA
BETA-BHC	0.049 UJ	NA	NA	NA	NA	NA
DELTA-BHC	0.049 UJ	NA	NA	NA	NA	NA
GAMMA-BHC (LINDANE)	0.049 UJ	NA	NA	NA	NA	NA
HEPTACHLOR	0.049 UJ	NA	NA	NA	NA	NA
ALDRIN	0.049 UJ	NA	NA	NA	NA	NA
HEPTACHLOR EPOXIDE	0.049 UJ	NA	NA	NA	NA	NA
ENDOSULFAN I	0.049 UJ	NA	NA	NA	NA	NA
DIELDRIN	0.098 UJ	NA	NA	NA	NA	NA
4,4'-DDE	0.098 UJ	NA	NA	NA	NA	NA
ENDRIN	0.098 UJ	NA	NA	NA	NA	NA
ENDOSULFAN II	0.098 UJ	NA	NA	NA	NA	NA
4,4'-DDD	0.098 UJ	NA	NA	NA	NA	NA
ENDOSULFAN SULFATE	0.098 UJ	NA	NA	NA	NA	NA
4,4'-DDT	0.098 UJ	NA	NA	NA	NA	NA
METHOXYCHLOR	0.49 UJ	NA	NA	NA	NA	NA
ENDRIN KETONE	0.098 UJ	NA	NA	NA	NA	NA
ENDRIN ALDEHYDE	0.098 UJ	NA	NA	NA	NA	NA
ALPHA-CHLORDANE	0.049 UJ	NA	NA	NA	NA	NA
GAMMA-CHLORDANE	0.049 UJ	NA	NA	NA	NA	NA
TOXAPHENE	4.9 UJ	NA	NA	NA	NA	NA
AROCLOR-1016	0.98 UJ	NA	NA	NA	NA	NA
AROCLOR-1221	2 UJ	NA	NA	NA	NA	NA
AROCLOR-1232	0.98 UJ	NA	NA	NA	NA	NA
AROCLOR-1242	0.98 UJ	NA	NA	NA	NA	NA
AROCLOR-1248	0.98 UJ	NA	NA	NA	NA	NA
AROCLOR-1254	0.98 UJ	NA	NA	NA	NA	NA
AROCLOR-1260	0.98 UJ	NA	NA	NA	NA	NA



**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	303-TB-50	303-TB-51	303-TB-52	36-GWER-01	36-GWER-02	36-GWER-03
DATE_SAMPLED	05/08/95	07/11/95	07/11/95	03/25/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>VOLATILES</b>						
CHLOROMETHANE	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
VINYL CHLORIDE	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
METHYLENE CHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
ACETONE	18	10 U	4 J	10 U	10 U	10 U
CARBON DISULFIDE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 UJ	10 U	10 U	10 U	10 U	10 UJ
CHLOROFORM	10 U	10 U	10 U	5 J	4 J	4 J
1,2-DICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	10 U	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	10 U	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	10 U	10 U	10 U	10 U
BROMOFORM	10 U	10 U	10 U	10 U	10 U	10 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	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	10 U	10 U	10 U	10 U
TOLUENE	10 U	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	10 U	10 U	10 U	10 U	10 U	10 U
STYRENE	10 U	10 U	10 U	10 U	10 U	10 U
XYLENE (TOTAL)	10 U	10 U	10 U	10 U	10 U	10 U

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	303-TB-50	303-TB-51	303-TB-52	36-GWER-01	36-GWER-02	36-GWER-03
DATE_SAMPLED	05/08/95	07/11/95	07/11/95	03/25/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES</b>						
PHENOL	NA	NA	NA	10 U	10 U	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	10 U	10 U	NA
2-CHLOROPHENOL	NA	NA	NA	10 U	10 U	NA
1,3-DICHLOROBENZENE	NA	NA	NA	10 U	10 U	NA
1,4-DICHLOROBENZENE	NA	NA	NA	10 U	10 U	NA
1,2-DICHLOROBENZENE	NA	NA	NA	10 U	10 U	NA
2-METHYLPHENOL	NA	NA	NA	10 U	10 U	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA	NA	10 U	10 U	NA
4-METHYLPHENOL	NA	NA	NA	10 U	10 U	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA	NA	10 U	10 U	NA
HEXACHLOROETHANE	NA	NA	NA	10 U	10 U	NA
NITROBENZENE	NA	NA	NA	10 U	10 U	NA
ISOPHORONE	NA	NA	NA	10 U	10 U	NA
2-NITROPHENOL	NA	NA	NA	10 U	10 U	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	10 U	10 U	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	10 U	10 U	NA
2,4-DICHLOROPHENOL	NA	NA	NA	10 U	10 U	NA
1,2,4-TRICHLOROBENZENE	NA	NA	NA	10 U	10 U	NA
NAPHTHALENE	NA	NA	NA	10 U	10 U	NA
4-CHLOROANILINE	NA	NA	NA	10 U	10 U	NA
HEXACHLOROBUTADIENE	NA	NA	NA	10 U	10 U	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	10 U	10 U	NA
2-METHYLNAPHTHALENE	NA	NA	NA	10 U	10 U	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	10 U	10 U	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	10 U	10 U	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	25 U	24 U	NA
2-CHLORONAPHTHALENE	NA	NA	NA	10 U	10 U	NA
2-NITROANILINE	NA	NA	NA	25 U	24 U	NA
DIMETHYLPHTHALATE	NA	NA	NA	10 U	10 U	NA
ACENAPHTHYLENE	NA	NA	NA	10 U	10 U	NA
2,6-DINITROTOLUENE	NA	NA	NA	10 U	10 U	NA
3-NITROANILINE	NA	NA	NA	25 U	24 U	NA
ACENAPHTHENE	NA	NA	NA	10 U	10 U	NA
2,4-DINITROPHENOL	NA	NA	NA	25 U	24 U	NA
4-NITROPHENOL	NA	NA	NA	25 U	24 U	NA

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	303-TB-50	303-TB-51	303-TB-52	36-GWER-01	36-GWER-02	36-GWER-03
DATE SAMPLED	05/08/95	07/11/95	07/11/95	03/25/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>SEMIVOLATILES cont</b>						
DIBENZOFURAN	NA	NA	NA	10 U	10 U	NA
2,4-DINITROTOLUENE	NA	NA	NA	10 U	10 U	NA
DIETHYLPHTHALATE	NA	NA	NA	10 U	10 U	NA
4-CHLOROPHENYL-PHENYLETHER	NA	NA	NA	10 U	10 U	NA
FLUORENE	NA	NA	NA	10 U	10 U	NA
4-NITROANILINE	NA	NA	NA	25 U	24 U	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	25 U	24 U	NA
N-NITROSODIPHENYLAMINE (1)	NA	NA	NA	10 U	10 U	NA
4-BROMOPHENYL-PHENYLETHER	NA	NA	NA	10 U	10 U	NA
HEXACHLOROBENZENE	NA	NA	NA	10 U	10 U	NA
PENTACHLOROPHENOL	NA	NA	NA	25 U	24 U	NA
PHENANTHRENE	NA	NA	NA	10 U	10 U	NA
ANTHRACENE	NA	NA	NA	10 U	10 U	NA
CARBAZOLE	NA	NA	NA	10 U	10 U	NA
DI-N-BUTYLPHTHALATE	NA	NA	NA	10 U	10 U	NA
FLUORANTHENE	NA	NA	NA	10 U	10 U	NA
PYRENE	NA	NA	NA	10 U	10 U	NA
BUTYLBENZYLPHTHALATE	NA	NA	NA	10 U	10 U	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	10 U	10 U	NA
BENZO(A)ANTHRACENE	NA	NA	NA	10 U	10 U	NA
CHRYSENE	NA	NA	NA	10 U	10 U	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	10 U	1 J	NA
DI-N-OCTYL PHTHALATE	NA	NA	NA	10 U	10 U	NA
BENZO(B)FLUORANTHENE	NA	NA	NA	10 U	10 U	NA
BENZO(K)FLUORANTHENE	NA	NA	NA	10 U	10 U	NA
BENZO(A)PYRENE	NA	NA	NA	10 U	10 U	NA
INDENO(1,2,3-CD)PYRENE	NA	NA	NA	10 U	10 U	NA
DIBENZO(A,H)ANTHRACENE	NA	NA	NA	10 U	10 U	NA
BENZO(G,H,I)PERYLENE	NA	NA	NA	10 U	10 U	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	303-TB-50	303-TB-51	303-TB-52	36-GWER-01	36-GWER-02	36-GWER-03
DATE_SAMPLED	05/08/95	07/11/95	07/11/95	03/25/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<b>PESTICIDE/PCBS</b>						
ALPHA-BHC	NA	NA	NA	0.049 UJ	0.047 UJ	NA
BETA-BHC	NA	NA	NA	0.049 UJ	0.047 UJ	NA
DELTA-BHC	NA	NA	NA	0.049 UJ	0.047 UJ	NA
GAMMA-BHC (LINDANE)	NA	NA	NA	0.049 UJ	0.047 UJ	NA
HEPTACHLOR	NA	NA	NA	0.049 UJ	0.047 UJ	NA
ALDRIN	NA	NA	NA	0.049 UJ	0.047 UJ	NA
HEPTACHLOR EPOXIDE	NA	NA	NA	0.049 UJ	0.047 UJ	NA
ENDOSULFAN I	NA	NA	NA	0.049 UJ	0.047 UJ	NA
DIELDRIN	NA	NA	NA	0.098 UJ	0.094 UJ	NA
4,4'-DDE	NA	NA	NA	0.098 UJ	0.094 UJ	NA
ENDRIN	NA	NA	NA	0.098 UJ	0.094 UJ	NA
ENDOSULFAN II	NA	NA	NA	0.098 UJ	0.094 UJ	NA
4,4'-DDD	NA	NA	NA	0.098 UJ	0.094 UJ	NA
ENDOSULFAN SULFATE	NA	NA	NA	0.098 UJ	0.094 UJ	NA
4,4'-DDT	NA	NA	NA	0.098 UJ	0.094 UJ	NA
METHOXYCHLOR	NA	NA	NA	0.49 UJ	0.47 UJ	NA
ENDRIN KETONE	NA	NA	NA	0.098 UJ	0.094 UJ	NA
ENDRIN ALDEHYDE	NA	NA	NA	0.098 UJ	0.094 UJ	NA
ALPHA-CHLORDANE	NA	NA	NA	0.049 UJ	0.047 UJ	NA
GAMMA-CHLORDANE	NA	NA	NA	0.049 UJ	0.047 UJ	NA
TOXAPHENE	NA	NA	NA	4.9 UJ	4.7 UJ	NA
AROCLOR-1016	NA	NA	NA	0.98 UJ	0.94 UJ	NA
AROCLOR-1221	NA	NA	NA	2 UJ	1.9 UJ	NA
AROCLOR-1232	NA	NA	NA	0.98 UJ	0.94 UJ	NA
AROCLOR-1242	NA	NA	NA	0.98 UJ	0.94 UJ	NA
AROCLOR-1248	NA	NA	NA	0.98 UJ	0.94 UJ	NA
AROCLOR-1254	NA	NA	NA	0.98 UJ	0.94 UJ	NA
AROCLOR-1260	NA	NA	NA	0.98 UJ	0.94 UJ	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GWER-05	36-GWER-06
DATE_SAMPLED	07/11/95	07/11/95
UNITS	UG/L	UG/L
<b>VOLATILES</b>		
CHLOROMETHANE	10 U	10 U
BROMOMETHANE	10 U	10 U
VINYL CHLORIDE	10 U	10 U
CHLOROETHANE	10 U	10 U
METHYLENE CHLORIDE	10 U	10 U
ACETONE	10 U	10 U
CARBON DISULFIDE	10 U	10 U
1,1-DICHLOROETHENE	10 U	10 U
1,1-DICHLOROETHANE	10 U	10 U
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U
CHLOROFORM	3 J	3 J
1,2-DICHLOROETHANE	10 U	10 U
2-BUTANONE	10 U	10 U
1,1,1-TRICHLOROETHANE	10 U	10 U
CARBON TETRACHLORIDE	10 U	10 U
BROMODICHLOROMETHANE	10 U	10 U
1,2-DICHLOROPROPANE	10 U	10 U
CIS-1,3-DICHLOROPROPENE	10 U	10 U
TRICHLOROETHENE	10 U	10 U
DIBROMOCHLOROMETHANE	10 U	10 U
1,1,2-TRICHLOROETHANE	10 U	10 U
BENZENE	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	10 U	10 U
BROMOFORM	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U
2-HEXANONE	10 U	10 U
TETRACHLOROETHENE	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	10 U	10 U
TOLUENE	10 U	10 U
CHLOROBENZENE	10 U	10 U
ETHYLBENZENE	10 U	10 U
STYRENE	10 U	10 U
XYLENE (TOTAL)	10 U	10 U

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-GWER-05	36-GWER-06
DATE_SAMPLED	07/11/95	07/11/95
UNITS	UG/L	UG/L
<b>SEMIVOLATILES</b>		
PHENOL	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA
2-CHLOROPHENOL	NA	NA
1,3-DICHLOROBENZENE	NA	NA
1,4-DICHLOROBENZENE	NA	NA
1,2-DICHLOROBENZENE	NA	NA
2-METHYLPHENOL	NA	NA
2,2'-OXYBIS(1-CHLOROPROPANE)	NA	NA
4-METHYLPHENOL	NA	NA
N-NITROSO-DI-N-PROPYLAMINE	NA	NA
HEXACHLOROETHANE	NA	NA
NITROBENZENE	NA	NA
ISOPHORONE	NA	NA
2-NITROPHENOL	NA	NA
2,4-DIMETHYLPHENOL	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA
2,4-DICHLOROPHENOL	NA	NA
1,2,4-TRICHLOROBENZENE	NA	NA
NAPHTHALENE	NA	NA
4-CHLOROANILINE	NA	NA
HEXACHLOROBUTADIENE	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA
2-METHYLNAPHTHALENE	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA
2-CHLORONAPHTHALENE	NA	NA
2-NITROANILINE	NA	NA
DIMETHYLPHTHALATE	NA	NA
ACENAPHTHYLENE	NA	NA
2,6-DINITROTOLUENE	NA	NA
3-NITROANILINE	NA	NA
ACENAPHTHENE	NA	NA
2,4-DINITROPHENOL	NA	NA
4-NITROPHENOL	NA	NA

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION	36-GWER-05	36-GWER-06
DATE_SAMPLED	07/11/95	07/11/95
UNITS	UG/L	UG/L
<b>SEMIVOLATILES cont</b>		
DIBENZOFURAN	NA	NA
2,4-DINITROTOLUENE	NA	NA
DIETHYLPHTHALATE	NA	NA
4-CHLOROPHENYL-PHENYLETHER	NA	NA
FLUORENE	NA	NA
4-NITROANILINE	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA
N-NITROSODIPHENYLAMINE (1)	NA	NA
4-BROMOPHENYL-PHENYLETHER	NA	NA
HEXACHLOROBENZENE	NA	NA
PENTACHLOROPHENOL	NA	NA
PHENANTHRENE	NA	NA
ANTHRACENE	NA	NA
CARBAZOLE	NA	NA
DI-N-BUTYLPHTHALATE	NA	NA
FLUORANTHENE	NA	NA
PYRENE	NA	NA
BUTYLBENZYLPHTHALATE	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA
BENZO(A)ANTHRACENE	NA	NA
CHRYSENE	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA
DI-N-OCTYL PHTHALATE	NA	NA
BENZO(B)FLUORANTHENE	NA	NA
BENZO(K)FLUORANTHENE	NA	NA
BENZO(A)PYRENE	NA	NA
INDENO(1,2,3-CD)PYRENE	NA	NA
DIBENZO(A,H)ANTHRACENE	NA	NA
BENZO(G,H,I)PERYLENE	NA	NA

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**ORGANIC COMPOUNDS**

LOCATION	36-GWER-05	36-GWER-06
DATE_SAMPLED	07/11/95	07/11/95
UNITS	UG/L	UG/L
<b>PESTICIDE/PCBS</b>		
ALPHA-BHC	NA	NA
BETA-BHC	NA	NA
DELTA-BHC	NA	NA
GAMMA-BHC (LINDANE)	NA	NA
HEPTACHLOR	NA	NA
ALDRIN	NA	NA
HEPTACHLOR EPOXIDE	NA	NA
ENDOSULFAN I	NA	NA
DIELDRIN	NA	NA
4,4'-DDE	NA	NA
ENDRIN	NA	NA
ENDOSULFAN II	NA	NA
4,4'-DDD	NA	NA
ENDOSULFAN SULFATE	NA	NA
4,4'-DDT	NA	NA
METHOXYCHLOR	NA	NA
ENDRIN KETONE	NA	NA
ENDRIN ALDEHYDE	NA	NA
ALPHA-CHLORDANE	NA	NA
GAMMA-CHLORDANE	NA	NA
TOXAPHENE	NA	NA
AROCLOR-1016	NA	NA
AROCLOR-1221	NA	NA
AROCLOR-1232	NA	NA
AROCLOR-1242	NA	NA
AROCLOR-1248	NA	NA
AROCLOR-1254	NA	NA
AROCLOR-1260	NA	NA



SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>VOLATILES</b>						
CHLOROMETHANE	10 U	10 U	ND	ND		0/14
BROMOMETHANE	10 U	10 U	ND	ND		0/14
VINYL CHLORIDE	10 U	10 U	ND	ND		0/14
CHLOROETHANE	10 U	10 U	ND	ND		0/14
METHYLENE CHLORIDE	10 U	10 U	ND	ND		0/14
ACETONE	10 U	18 U	4 J	18	303-TB-50	2/14
CARBON DISULFIDE	10 U	10 U	ND	ND		0/14
1,1-DICHLOROETHENE	10 U	10 U	ND	ND		0/14
1,1-DICHLOROETHANE	10 U	10 U	ND	ND		0/14
1,2-DICHLOROETHENE (TOTAL)	10 U	10 U	ND	ND		0/14
CHLOROFORM	10 U	10 U	3 J	5 J	36-GWER-01	5/14
1,2-DICHLOROETHANE	10 U	10 U	ND	ND		0/14
2-BUTANONE	10 U	10 U	27 J	27 J	303-TB-18	1/14
1,1,1-TRICHLOROETHANE	10 U	10 U	ND	ND		0/14
CARBON TETRACHLORIDE	10 U	10 U	ND	ND		0/14
BROMODICHLOROMETHANE	10 U	10 U	ND	ND		0/14
1,2-DICHLOROPROPANE	10 U	10 U	ND	ND		0/14
CIS-1,3-DICHLOROPROPENE	10 U	10 U	ND	ND		0/14
TRICHLOROETHENE	10 U	10 U	ND	ND		0/14
DIBROMOCHLOROMETHANE	10 U	10 U	ND	ND		0/14
1,1,2-TRICHLOROETHANE	10 U	10 U	ND	ND		0/14
BENZENE	10 U	10 U	ND	ND		0/14
TRANS-1,3-DICHLOROPROPENE	10 U	10 U	ND	ND		0/14
BROMOFORM	10 U	10 U	ND	ND		0/14
4-METHYL-2-PENTANONE	10 U	10 U	ND	ND		0/14
2-HEXANONE	10 U	10 U	ND	ND		0/14
TETRACHLOROETHENE	10 U	10 U	ND	ND		0/14
1,1,2,2-TETRACHLOROETHANE	10 U	10 U	ND	ND		0/14
TOLUENE	10 U	10 U	ND	ND		0/14
CHLOROBENZENE	10 U	10 U	ND	ND		0/14
ETHYLBENZENE	10 U	10 U	ND	ND		0/14
STYRENE	10 U	10 U	ND	ND		0/14
XYLENE (TOTAL)	10 U	10 U	ND	ND		0/14

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES</b>						
PHENOL	10 U	10 U	ND	ND		0/3
BIS(2-CHLOROETHYL)ETHER	10 U	10 U	ND	ND		0/3
2-CHLOROPHENOL	10 U	10 U	ND	ND		0/3
1,3-DICHLOROBENZENE	10 U	10 U	ND	ND		0/3
1,4-DICHLOROBENZENE	10 U	10 U	ND	ND		0/3
1,2-DICHLOROBENZENE	10 U	10 U	ND	ND		0/3
2-METHYLPHENOL	10 U	10 U	ND	ND		0/3
2,2'-OXYBIS(1-CHLOROPROPANE)	10 U	10 U	ND	ND		0/3
4-METHYLPHENOL	10 U	10 U	ND	ND		0/3
N-NITROSO-DI-N-PROPYLAMINE	10 U	10 U	ND	ND		0/3
HEXACHLOROETHANE	10 U	10 U	ND	ND		0/3
NITROBENZENE	10 U	10 U	ND	ND		0/3
ISOPHORONE	10 U	10 U	ND	ND		0/3
2-NITROPHENOL	10 U	10 U	ND	ND		0/3
2,4-DIMETHYLPHENOL	10 U	10 U	ND	ND		0/3
BIS(2-CHLOROETHOXY)METHANE	10 U	10 U	ND	ND		0/3
2,4-DICHLOROPHENOL	10 U	10 U	ND	ND		0/3
1,2,4-TRICHLOROBENZENE	10 U	10 U	ND	ND		0/3
NAPHTHALENE	10 U	10 U	ND	ND		0/3
4-CHLOROANILINE	10 U	10 U	ND	ND		0/3
HEXACHLOROBUTADIENE	10 U	10 U	ND	ND		0/3
4-CHLORO-3-METHYLPHENOL	10 U	10 U	ND	ND		0/3
2-METHYLNAPHTHALENE	10 U	10 U	ND	ND		0/3
HEXACHLOROCYCLOPENTADIENE	10 U	10 U	ND	ND		0/3
2,4,6-TRICHLOROPHENOL	10 U	10 U	ND	ND		0/3
2,4,5-TRICHLOROPHENOL	24 U	26 U	ND	ND		0/3
2-CHLORONAPHTHALENE	10 U	10 U	ND	ND		0/3
2-NITROANILINE	24 U	26 U	ND	ND		0/3
DIMETHYLPHTHALATE	10 U	10 U	ND	ND		0/3
ACENAPHTHYLENE	10 U	10 U	ND	ND		0/3
2,6-DINITROTOLUENE	10 U	10 U	ND	ND		0/3
3-NITROANILINE	24 U	26 U	ND	ND		0/3
ACENAPHTHENE	10 U	10 U	ND	ND		0/3
2,4-DINITROPHENOL	24 U	26 U	ND	ND		0/3
4-NITROPHENOL	24 U	26 U	ND	ND		0/3

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>SEMIVOLATILES cont</b>						
DIBENZOFURAN	10 U	10 U	ND	ND		0/3
2,4-DINITROTOLUENE	10 U	10 U	ND	ND		0/3
DIETHYLPHTHALATE	10 U	10 U	ND	ND		0/3
4-CHLOROPHENYL-PHENYLETHER	10 U	10 U	ND	ND		0/3
FLUORENE	10 U	10 U	ND	ND		0/3
4-NITROANILINE	24 U	26 U	ND	ND		0/3
4,6-DINITRO-2-METHYLPHENOL	24 U	26 U	ND	ND		0/3
N-NITROSODIPHENYLAMINE (1)	10 U	10 U	ND	ND		0/3
4-BROMOPHENYL-PHENYLETHER	10 U	10 U	ND	ND		0/3
HEXACHLOROBENZENE	10 U	10 U	ND	ND		0/3
PENTACHLOROPHENOL	24 U	26 U	ND	ND		0/3
PHENANTHRENE	10 U	10 U	ND	ND		0/3
ANTHRACENE	10 U	10 U	ND	ND		0/3
CARBAZOLE	10 U	10 U	ND	ND		0/3
DI-N-BUTYLPHTHALATE	10 U	10 U	ND	ND		0/3
FLUORANTHENE	10 U	10 U	ND	ND		0/3
PYRENE	10 U	10 U	ND	ND		0/3
BUTYLBENZYLPHTHALATE	10 U	10 U	ND	ND		0/3
3,3'-DICHLOROBENZIDINE	10 U	10 U	ND	ND		0/3
BENZO(A)ANTHRACENE	10 U	10 U	ND	ND		0/3
CHRYSENE	10 U	10 U	ND	ND		0/3
BIS(2-ETHYLHEXYL)PHTHALATE	10 U	10 U	1 J	1 J	36-GWER-02	1/3
DI-N-OCTYL PHTHALATE	10 U	10 U	ND	ND		0/3
BENZO(B)FLUORANTHENE	10 U	10 U	ND	ND		0/3
BENZO(K)FLUORANTHENE	10 U	10 U	ND	ND		0/3
BENZO(A)PYRENE	10 U	10 U	ND	ND		0/3
INDENO(1,2,3-CD)PYRENE	10 U	10 U	ND	ND		0/3
DIBENZO(A,H)ANTHRACENE	10 U	10 U	ND	ND		0/3
BENZO(G,H,I)PERYLENE	10 U	10 U	ND	ND		0/3

SITE 36, CAMP GEIGER AREA DUMP  
GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY  
REMEDIAL INVESTIGATION, CTO-0303  
MCB, CAMP LEJEUNE, NORTH CAROLINA  
ORGANIC COMPOUNDS

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>PESTICIDE/PCBS</b>						
ALPHA-BHC	0.047 UJ	0.049 UJ	ND	ND		0/3
BETA-BHC	0.047 UJ	0.049 UJ	ND	ND		0/3
DELTA-BHC	0.047 UJ	0.049 UJ	ND	ND		0/3
GAMMA-BHC (LINDANE)	0.047 UJ	0.049 UJ	ND	ND		0/3
HEPTACHLOR	0.047 UJ	0.049 UJ	ND	ND		0/3
ALDRIN	0.047 UJ	0.049 UJ	ND	ND		0/3
HEPTACHLOR EPOXIDE	0.047 UJ	0.049 UJ	ND	ND		0/3
ENDOSULFAN I	0.047 UJ	0.049 UJ	ND	ND		0/3
DIELDRIN	0.094 UJ	0.098 UJ	ND	ND		0/3
4,4'-DDE	0.094 UJ	0.098 UJ	ND	ND		0/3
ENDRIN	0.094 UJ	0.098 UJ	ND	ND		0/3
ENDOSULFAN II	0.094 UJ	0.098 UJ	ND	ND		0/3
4,4'-DDD	0.094 UJ	0.098 UJ	ND	ND		0/3
ENDOSULFAN SULFATE	0.094 UJ	0.098 UJ	ND	ND		0/3
4,4'-DDT	0.094 UJ	0.098 UJ	ND	ND		0/3
METHOXYCHLOR	0.47 UJ	0.49 UJ	ND	ND		0/3
ENDRIN KETONE	0.094 UJ	0.098 UJ	ND	ND		0/3
ENDRIN ALDEHYDE	0.094 UJ	0.098 UJ	ND	ND		0/3
ALPHA-CHLORDANE	0.047 UJ	0.049 UJ	ND	ND		0/3
GAMMA-CHLORDANE	0.047 UJ	0.049 UJ	ND	ND		0/3
TOXAPHENE	4.7 UJ	4.9 UJ	ND	ND		0/3
AROCLOR-1016	0.94 UJ	0.98 UJ	ND	ND		0/3
AROCLOR-1221	1.9 UJ	2 UJ	ND	ND		0/3
AROCLOR-1232	0.94 UJ	0.98 UJ	ND	ND		0/3
AROCLOR-1242	0.94 UJ	0.98 UJ	ND	ND		0/3
AROCLOR-1248	0.94 UJ	0.98 UJ	ND	ND		0/3
AROCLOR-1254	0.94 UJ	0.98 UJ	ND	ND		0/3
AROCLOR-1260	0.94 UJ	0.98 UJ	ND	ND		0/3

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION	303-FB-02	36-GWER-01	36-GWER-02	36-GWER-03
DATE_SAMPLED	03/15/95	03/25/95	03/27/95	05/09/95
UNITS	UG/L	UG/L	UG/L	UG/L
<b>TOTAL METALS</b>				
ALUMINUM, TOTAL	27.5 U	16.8 U	16.8 U	15.7 U
ANTIMONY, TOTAL	20.7 U	10.9 U	10.9 U	12 U
ARSENIC, TOTAL	1.9 U	1.9 U	1.9 U	1.5 U
BARIUM, TOTAL	1.7 U	0.8 U	0.8 U	0.8 U
BERYLLIUM, TOTAL	0.9 U	0.33 U	0.35 U	0.3 U
CADMIUM, TOTAL	2.8 U	2.9 U	2.9 U	3.9 U
CALCIUM, TOTAL	108 U	36.1 U	16.2 U	92 U
CHROMIUM, TOTAL	2.9 U	4.7 U	4.7 U	6.7
COBALT, TOTAL	3 U	2.3 U	2.3 U	1.7 U
COPPER, TOTAL	1.9 U	4 U	4 U	1.8 U
IRON, TOTAL	48.4 U	2.5 U	2.5 U	6.5 U
LEAD, TOTAL	1 U	1.6 U	1.6 U	2.6 U
MAGNESIUM, TOTAL	18.3 U	34.3 U	34.3 U	40.7
MANGANESE, TOTAL	1.8 U	0.9 U	0.9 U	0.7 U
MERCURY, TOTAL	0.2 U	0.2 U	0.2 U	0.2 U
NICKEL, TOTAL	10.8 U	4.2 U	4.2 U	5.4 U
POTASSIUM, TOTAL	685 U	67.9 U	67.9 U	81.2 U
SELENIUM, TOTAL	1.5 U	1.5 U	1.5 U	1.8 U
SILVER, TOTAL	3 U	2.5 U	2.5 U	2.2
SODIUM, TOTAL	143 U	19.1 U	19.1 U	243
THALLIUM, TOTAL	1.1 U	0.7 U	0.7 U	0.7 U
VANADIUM, TOTAL	2.3 U	2.1 U	2.1 U	2.3 U
ZINC, TOTAL	3.8 U	1.9 U	1.9 U	2.2 U

**SITE 36, CAMP GEIGER AREA DUMP**  
**GROUNDWATER QA/QC - FREQUENCY OF DETECTION SUMMARY**  
**REMEDIAL INVESTIGATION, CTO-0303**  
**MCB, CAMP LEJEUNE, NORTH CAROLINA**  
**INORGANIC ANALYTES**

LOCATION DATE SAMPLED UNITS	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<b>TOTAL METALS</b>						
ALUMINUM, TOTAL	15.7 U	27.5 U	ND	ND		0/4
ANTIMONY, TOTAL	10.9 U	20.7 U	ND	ND		0/4
ARSENIC, TOTAL	1.5 U	1.9 U	ND	ND		0/4
BARIUM, TOTAL	0.8 U	1.7 U	ND	ND		0/4
BERYLLIUM, TOTAL	0.3 U	0.9 U	ND	ND		0/4
CADMIUM, TOTAL	2.8 U	3.9 U	ND	ND		0/4
CALCIUM, TOTAL	16.2 U	108 U	ND	ND		0/4
CHROMIUM, TOTAL	2.9 U	4.7 U	6.7	6.7	36-GWER-03	1/4
COBALT, TOTAL	1.7 U	3 U	ND	ND		0/4
COPPER, TOTAL	1.8 U	4 U	ND	ND		0/4
IRON, TOTAL	2.5 U	48.4 U	ND	ND		0/4
LEAD, TOTAL	1 U	2.6 U	ND	ND		0/4
MAGNESIUM, TOTAL	18.3 U	34.3 U	40.7	40.7	36-GWER-03	1/4
MANGANESE, TOTAL	0.7 U	1.8 U	ND	ND		0/4
MERCURY, TOTAL	0.2 U	0.2 U	ND	ND		0/4
NICKEL, TOTAL	4.2 U	10.8 U	ND	ND		0/4
POTASSIUM, TOTAL	67.9 U	685 U	ND	ND		0/4
SELENIUM, TOTAL	1.5 U	1.8 U	ND	ND		0/4
SILVER, TOTAL	2.5 U	3 U	2.2	2.2	36-GWER-03	1/4
SODIUM, TOTAL	19.1 U	143 U	243	243	36-GWER-03	1/4
THALLIUM, TOTAL	0.7 U	1.1 U	ND	ND		0/4
VANADIUM, TOTAL	2.1 U	2.3 U	ND	ND		0/4
ZINC, TOTAL	1.9 U	3.8 U	ND	ND		0/4