

Appendix F
North Carolina DEHNR Well Construction Permit

E.1

Sites 6 and 82 - Shallow Wells



TEST BORING AL

PROJECT: Site 6 Camp Lejeune RI/FS

CTO NO.: 19133

BORING NO.: 6GW31

COORDINATES: EAST: 2501915.3

NORTH: 347070

ELEVATION: SURFACE: 27.8

TOP OF PVC CASING: 30.26

RIG: ATV Mobile B-53					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
SPLIT SPOON	CASING	AUGERS	CORE BARREL						
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID 8 1/4" ID		3/2/93	14.0	Cloudy, Cool		
LENGTH	2.0'		5.0'		4/1/93			11.34	720Hrs
TYPE	SS		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: ID reached 3-2-93. Continuous split spoon samples taken to 14.0' HNu background is 1.8 ppm.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger					
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Casing	2.0	Schedule 40 PVC	2.5 Stickup	11.4
D = Denison	P = Piston	Well Screen	2.0	Schedule 40 PVC No. 10 Slot	11.4	26.6
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	.8 / 2	2		BG	SAND, fine grained with trace silt; brown to dark gray; medium dense; dry, orange, yellow, staining present	2.5' stick up	25.8
2		40%	5 7 9					
3	* S-2	1.5 / 2	5		3.0	SAND, fine grained; dark gray to brown; medium dense; moist		
4		95%	6 9 14					
5	* S-3	1.6 / 2	7		30.0	light brown to dark gray; medium dense; damp, slight hydrocarbon odor		
6		80%	11 12 13					
7	* S-4	1.4 / 2	5		2.0	SAND, fine to medium grained; light gray; medium dense; damp to moist, gray banding and streaks	Top of Bentonite 7.4'	21.8
8		70%	8 8 7					
9	* S-5	1.7 / 2	3		30.0	SAND, medium grained; brown to gray; medium dense	Top of Sand 9.4'	19.1
10		85%	5 9 10					

Match to Sheet 2

DRILLING CO.: Hardin-Huber, Inc.

BAKER REP.: J.E. Zimmerman

DRILLER: Jay Corrin

BORING NO.: 6GW31

SHEET 1 C

PROJECT: Site 6 Camp Lejeune RI/FS

S.O. NO.: 19133

BORING NO.: 6GW31

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						PID = Photoionization Detector		
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
11	**	1.7 2	5			Continued from Sheet 1		
12	S-6	85%	10 11 16		16.0	SAND, medium grained; gray to brownish gray; medium dense; moist to wet, dark gray streaking throughout		Top of screen 11.4'
13	S-7	1.32 65%	5 11 12 16		20.0	dark gray to yellowish brown; medium dense; wet, dark gray streaking (bottom)		
14								
15								
16	A-N							
17								
18	S-8	1.4 2 70%	6 15 11 15			SAND, fine grained, trace silt (SM); dark gray; medium dense; wet		
19								
20								
21	A-N							
22								
23	S-9	1.5 2 75%	9 7 6 10			SAND, fine to medium grained; trace silt (SM); brown gray; medium dense; wet		
24								
25	A-N							
26								
27	S-10	1.5 2 75%	6 10 13 16			SAND, fine grained, trace silt (SM); brown gray; medium dense; wet	Bottom of screen at 26.6'	
28						End of Boring at 27.5'	Bottom of Well at 27'	
29							End of Boring at 27.5'	
30							0.8'	
							0.3'	

Baker

Baker Environmental, Inc.

TEST BORING AND

PROJECT: Site 82 Camp Lejeune RI/FS

S.O. NO.: 19133-SRN

BORING NO.: 6GW32

COORDINATES: EAST: 2502604.5

NORTH: 348796.5

ELEVATION: SURFACE: 19.6

TOP OF PVC CASING: 21.79

RIG: R40									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	1-3/8" ID		3-1/4" ID 8-1/4" ID		3-6-93	27.0	Clear, Cool		
LENGTH	2.0'		5.0'		4-1-93	0		14.29	792 hrs.
TYPE	Std.		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: ID reached 3-6-93. Well set 3-6-93. Continuous split spoon samples take to 18.0'. 5' centers from 23 to 25'. HNu background is .7 ppm.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2.0"	Schedule 40 PVC	2.5 stickup	11.3
T = Shelby Tube	W = Wash	Well Screen	2.0"	Schedule 40 PVC, 10 slot	11.3	26.6
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	1.0	2		7.0	HUMUS, root and plant material; dark brown to light brown; loose; damp	<p>2.5' of stickup</p> <p>Top of bentonite 7.0'</p> <p>Top of sand 10.0'</p>	15.6'
2		50%	3		SAND, fine grained with some silt (SM)			
3	S-2	2.0	2		20.0	SAND, fine grained with trace silt (SM); light brown to brown; loose; moist		
4		100%	5			SAND, fine grained (SM); light brown; medium dense; moist		
5	S-3	1.6	4		13.0			
6		80%	6					
7	S-4	1.8	5		2.4	SAND, fine grained (SM); brown; medium dense; moist, brownish yellowish banding		
8		90%	7					
9	S-5	1.4	7		45.0	SAND, fine to medium grained with trace clay (sc); brown to light gray; medium dense; moist, brownish yellowish banding		
10		70%	8					

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J.E. Zimmerman

DRILLER: Jay Corrin

BORING NO.: 6GW32

PROJECT: Site 82 Camp Lejeune RI/FS

S.O. NO.: 19133-SRN

BORING NO.: 6GW32

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						PID = Photoionization Detector			
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	
11	* S-6	1.4	4			Continued from Sheet 1			
12	12.0	70%	7 7 6		100.0	SAND, fine to medium grained (SM); light gray; medium dense; moist		No. 2 sand Top of screen at 11.3'	
13	** S-7	1.8	5 7 7		100.0	SAND, fine to medium grained (SM); light gray; medium dense; moist to wet, water table at 13.0'			
14	14.0	90%	7					Measured water level at 14.29' TOC on 4-1-93	5.6'
15	S-8	1.8	3 3 9		75.0	SAND, medium grained (SM); light gray; medium dense; wet			
16	16.0	90%	10						
18	18.0	100%	4 5 5 6		35.0	SAND, medium grained (SM); light gray; loose; wet			
19									
20									
21									
22									
23						SAND, medium grained (SM); brown; medium dense; wet, banding: dark brown, orange and light green			
24	S-10	1.5	6 5 6		24.0	* Sample collected due to high HNu reading #6-GW-32-06			
25	25.0	75%	6			** Sample collected #6-GW-32-07			
26						*** Duplicate and mslmsd samples collected #6-GW-32-09			
27						End of Boring at 27.0'	Bottom of screen at 26.6'		
28							Bottom of well at 27.0'	-7.4'	
29									
30									

Baker

Baker Environmental, Inc.

TEST BORING AN

PROJECT: Site 82 Camp Lejeune RI/FS

S.O. NO.: 19133-SRN

COORDINATES: EAST: 2503091.8

ELEVATION: SURFACE: 20.0

BORING NO.: 6GW33

NORTH: 348382.3

TOP OF PVC CASING: 22.42

RIG: R40									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	1-3/8" ID		3-1/4" ID 8-1/4" ID		3-3-93	22.0	Ovct, lt. rain		
LENGTH	2.0'		5.0'		4-1-93	0		7.04	696 hrs.
TYPE	55		HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: TD reached 3-3-93. Well set 3-3-93. Continuous split spoon samples take to 12'; 5' centers from 15' to 22'. HNu background is 2.5 ppm.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2.0"	Schedule 40 PVC	2.5 stickup	6.2
T = Shelby Tube	W = Wash	Well Screen	2.0"	Schedule 40 PVC - 10 slot	6.2	21.6
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	.9			8G	HUMUS and root material with sand, fine grained and some silt (SM); dark brown to brown; loose; damp	2.5 stickup	18.0'
2		45%					Top of bentonite 3.0'	
3	S-2	1.4			4.5	SAND, fine grained with little silt (SM); brown to yellow orange brown; medium dense; damp; oxidation streaks are present	Top of sand 4.5'	16.0'
4		70%					Top of screen 6.2'	
5	S-3	1.2			5.2	CLAYEY SILT (CL); grayish orange to gray; medium dense; damp; trace yellow staining oxidation streaks	Measured water level at 7.04' TOC on 4-1-93	15.0'
6		60%				SAND, trace silt (SM); gray	No. 2 sand	14.0'
7	S-4	1.5			25.0	SAND, medium grained; gray to brownish purple; medium dense; moist, yellow orange streaking throughout		
8		75%						
10	S-5	1.3			17.0	SAND, medum grained (SM); brown; medium dense; wet, water table at 8.5'		

Match to Sheet 2

DRILLING CO.: Hardin Huber, Inc.

DRILLER: Jay Corrin

BAKER REP.: J.E. Zimmerman

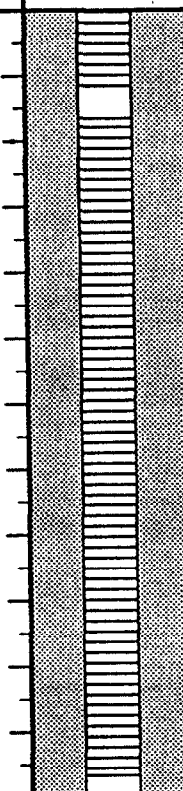
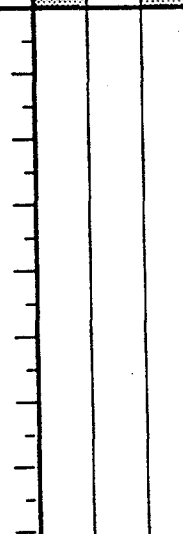
BORING NO.: 6GW33

SHEET 1 OF 2

PROJECT: Site 82 Camp Lejeune RI/FS

S.O. NO.: 19133-SRN

BORING NO.: 6GW33

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					PID = Photoionization Detector			
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
11	** S-6	1.8	4		20.0	Continued from Sheet 1 SAND, medium grained with trace Small quartz gravel (SW); brown to orangish gray; loose; wet		8.0'
12		90%	2					
13						SAND, medium grained (SM); brown to orangish gray to gray; medium dense; wet		
14								
15								
16	S-7	1.9	5		8.0			
17		95%	6			SAND, medium grained (SM); brown to gray to grayish green; loose; wet, occasional oxidation streaks		
18								
19								
20						SAND, medium grained (SM); brown to gray to grayish green; loose; wet, occasional oxidation streaks		
21	S-8	1.8	3		15.0			
22		90%	7			End of Boring at 22.0' Notes: * Sample #6-GW-33-04 collected ** Sample #6-GW-33-06 collected		Bottom of screen at 21.6' Bottom of well at 22.0'
23								
24								
25								
26								
27								
28								
29								
30								

Baker

Baker Environmental, Inc.

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 82 Camp Lejeune RI/FS

S.O. NO.: 19133-SRN

BORING NO.: 6GW34

COORDINATES: EAST: 2503412.4

NORTH: 348356.5

ELEVATION: SURFACE: 29.0

TOP OF PVC CASING: 32.01

RIG: R40									
	SPLIT SPOON	CASING	AUGERS	CORE BARREL	DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
SIZE (DIAM.)	1-3/8" ID		3-1/4" ID 8-1/4" ID		3-3-93	22.0	Ovct. rain, 60		
LENGTH	2.0'		5.0'		3-5-93	22-36	Ptly. cldy., 50		
TYPE	55		HSA		4-1-93	0		17.00	648 hrs.
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: TD reached 3-5-93. Well set 3-5-93. Continuous split spoon samples taken to 22', 5' centers from 22' to 35'. HNu background is .9 ppm.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2.0"	Schedule 40	2.5 stickup	19.3
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	2.0"	0.10 inch slots	19.3	34.6
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	1.4	5			HUMUS, with root material; dark brown to light brown; medium dense; damp, orange staining		28.0'
2		70%	9			SAND, fine grained with some silt (SM); light brown		27.0'
3	S-2	1.8	3			SAND, fine grained with little silt (SM); brown to light brown; loose; damp, orange staining		25.0'
4		90%	6					
5	S-3	1.7	5			SILTY SAND (SM); brown to yellow brown to gray; medium dense; damp		
6		85%	8					
7	S-4	2.0	8			SAND fine grained (SM); brown to light brown to gray; medium dense; damp, orange staining		
8		100%	11					21.0'
9	S-5	1.4	5			SAND fine to medium grained (SM); orange brown to light gray; medium dense damp		
10		70%	9					19.0'

Match to Sheet 2

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: J.E. Zimmerman

DRILLER: Jay Corrin

BORING NO.: 6GW34

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						PID = Photoionization Detector			
Depth (Ft.)	Sample Type and No.	Sampl. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation	
11	S-6	1.5	7			Continued from Sheet 1			
12		75%	8 9 10			SAND, fine grained (SM); gray to brown (reddish tint); medium dense; damp		17.0'	
13	S-7	1.4	9 10 11			SAND, fine to medium grained (SM); reddish brown to light gray; medium dense; damp to moist		15.0'	
14		70%	11						
15	S-8	1.4	4 6 6			SAND, fine to medium grained with trace clay (SC); brown to brownish orange gray; medium dense; moist	Top of bentonite 15.0'		
16		70%	8				Measured water level at 17.0' TOC on 4-1-93	13.0'	
17	S-9	1.9	4 4 5 6			SAND, medium grained (SM); light grayish brown; loose; moist to wet, orange oxidation streaking	Top of sand 17.5'		
18		95%	6				No. 2 Sand		
19	* S-10	1.7	4 6 8			SAND, medium grained (SM); grayish to orange brown; medium dense; wet	Top of Screen 19.3'		
20		85%	16						
21	S-11	2.0	5 8 11			SAND, medium grained (SM); orange brown to light gray; medium dense; wet, water table at 22.0'			
22		100%	15						
23	** S-12	1.6	14 11 12		12.0	SAND, medium grained (SM); light brown to light gray; medium dense; wet			
24		80%	14						
25	S-13	1.8	6 7 7		BG	SAND, medium grained (SM); light gray to orangish yellow; medium dense; wet			
26		90%	8						
27									
28									
29									
30	S-14	1.3	5 5			SAND, medium grained (SM); light gray; medium dense; wet Match to Sheet 3			

PROJECT: Site 82 Camp Lejeune RI/FS

S.O. NO.: 19133-SRN

BORING NO.: 6GW34

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	31.0	65%	7 8		1.8	Continued from Sheet 2	<p>Bottom of screen at 34.6'</p> <p>Bottom of well at 35.0'</p>		
32						Light gray; medium dense; wet, orange staining			
33									
34									
35	S-15	1.8	6 6 4		6.2	SAND, medium grained; orange; medium dense; wet, yellow staining		-6.0'	
36	36.0	90%	2		36.0'			-7.0'	
						End of Boring at 36.0'			
						Notes:			
						* Sample #6-GW-34-10 collected			
						** Sample # 6-GW-34-12 collected			
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

E.2

Sites 6 and 82 - Deep Wells



TEST BORING AND WELL CONSTRUCTION

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW1DA (Well)

COORDINATES: EAST: 2503316.1

NORTH: 348258.1

ELEVATION: SURFACE: 32.7

TOP OF PVC CASING: 35.23

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	ROTARY DRILL					
SIZE (DIAM.)	1 3/8" ID	10"		6	4-13-93	0-236.5			
LENGTH	2'	20'							
TYPE	Std.	Steel							
HAMMER WT.	140 Lbs.								
FALL	30"								
STICK UP									

REMARKS: Grouted in 20 feet of 10" diameter steel casing; boring advanced to 236.5. Installed a 2-inch stainless steel well.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2"	Stainless Steel	2.5 Stickup	220
T = Shelby Tube	W = Wash	Well Screen	2"	Stainless Steel #10 Slot	220	229.6
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
121	A-N					See boring log "6GW1DA - Boring" for soil description from 0 to 125'		
122								
123								
124								
125	125.0							
126	126.5	S-1	1.5 100%	16 32 51	3.2	SAND, medium to coarse, trace silt, shells, (SP); green; very dense; wet		
127								
128	A-N							
129								
130	130.0							

Match to Sheet 2

DRILLING CO.: Hardin-Huber

BAKER REP.: V. Richey

DRILLER: Royce Keenan

BORING NO.: 6GW1DA (Well)

SHEET 1 OF 7

TEST BORING ANI

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW1DA (Well)

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						PID = Photoionization Detector		
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
131	S-2	2	21		1.4	Continued from Sheet 1 SAND, medium to coarse, trace silt, shells, (SP); green-gray; very dense; wet		-100.3'
132		100%	22 27 28					
133	R-N							
134								
135								
136	S-3	1.4	10		1.7	SAND, medium to coarse, trace silt, shells, (SP); green; dense; wet		-107.3'
137		71%	2 20 5					
138	R-N							
139								
140								
141	S-4	1.0	53		9.5	SAND, medium to coarse, some shells, (SP); gray; very dense; wet		-111.3'
142		100%	61					
143	R-N							
144								
145								
146	S-5	.92	38		40	SAND, fine to coarse, trace silt, fine to coarse gravel sized cement sand/shells, (SW); gray; very dense; wet		-116.3'
147		100%	51/4					
148	R-N							
149								
150						Match to Sheet 3		

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

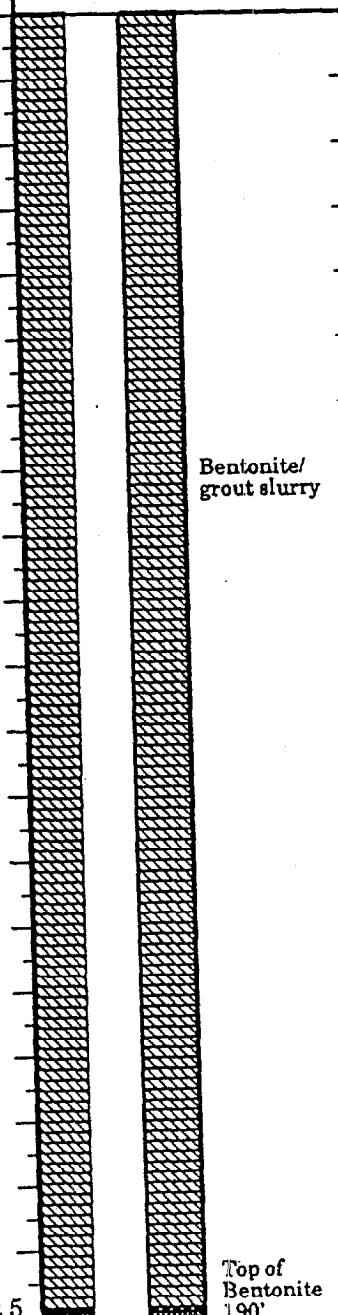
BORING NO.: 6GW1DA (Well)

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						PID = Photoionization Detector		
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
151	S-6	.67 80%	38 514		5	Continued from Sheet 2 SAND, fine to coarse, and fine to coarse gravel sized cemented sand, trace shells, (SW & GW); gray; very dense; wet		
152								
153	R-N							
154								
155								
156	S-7	1.0 50%	33 35 45 20		2	SAND, fine to coarse, and fine to coarse gravel sized cemented sand, trace shells, (SW & GW); gray; very dense; wet		
157								
158								
159								
160	R-N							
161								
162								-129.3'
163								
164								
165								
166	S-8	1.2 78%	43 29 31		0.5	SAND, fine to medium trace silt, clay, shells, (SP); green-gray; very dense; wet		
167								
168	R-N							
169								
170						Match to Sheet 4		

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW1DA (Well)

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						PID = Photoionization Detector		
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
171						Continued from Sheet 3		
172	R-N							
173								
174								
175								
175.0								
176	S-9	1.5	12		2	SAND, fine to medium trace silt, clay, shells, (SP); green-gray; very dense; wet		
176.5		100%	23		36			
177								
178								
179								
180	R-N							
181						SAND, fine to medium, trace silt, clay, shells, (SP); green-gray; very dense; wet		
182								
183								
184								
185								
185.0								
186	S-10	1.5	23		1.5	SAND, fine to medium, trace silt, clay, shells, (SP); green-gray; very dense; wet		
186.0		100%	31		45			
187								
188	R-N							
189								
190						Match to Sheet 5		
							Top of Bentonite 190'	

DRILLING CO.: Hardin-Huber

DRILLER: Royce Keenan

BAKER REP.: V. Richey

BORING NO.: 6GW1DA-Well

SHEET 4 OF



TEST BORING ANI

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, RI/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6GW1DA (Well)

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						PID = Photoionization Detector		
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
191						Continued from Sheet 4		-159.3'
192	R-N							
193								
194								
195	195.0							
196	S-11	1.7	20		2	SAND, fine to coarse and gravel, fine to coarse, trace clay, silt, shells, (SW & GW); gray; dense; wet		
197	197.0	00%	25					
198								
199								
200	R-N							
201								
202							-169.3'	
203								
204								
205	205.0							
206	S-12	.67	53		-	SAND, fine to medium, trace silt, clay, shells, (SP); gray-green; very dense; wet		
206	205.8	80%	88/4					
207								
208	R-N							
209								
210						Match to Sheet 6		

DRILLING CO.: Hardin-Huber
 DRILLER: Royce Keenan

BAKER REP.: V. Richey
 BORING NO.: 6GW1DA-Well

TEST BORING ANC

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, RI/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6GW1DA (Well)

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						PID = Photoionization Detector		
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
211						Continued from Sheet 5		-178.3'
212	R-N							
213								
214								
215	215.0							
216	215.9 S-13	.05 59%	68 71/5		0	SAND, fine to medium, some silt, trace clay, (SM); gray-green; very dense; wet	Top of Sand 215'	
217								
218								
219								
220	R-N						Top of Screen 220'	
221								
222								-189.3'
223							NOTE: Stainless Steel Well Screen and Casing	
224						SAND, fine to medium, silty, trace clay, (SM); gray; very dense; wet		
225	225.0							
226	226.5 S-14	1.5 100%	13 27 51		-			
227								
228	R-N						Bottom of screen at 229.6'	
229								
230							Bottom of Well at 230'	-197.3'

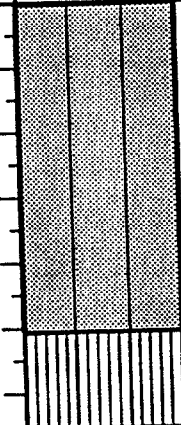
Baker

Baker Environmental, Inc

TEST BORING AN

PROJECT: Site 6, RL/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6GW1DA (Well)

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						PID = Photoionization Detector		
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
231						Continued from Sheet 6		
232								
233	R-N							
234								
235								
235.0								
236	S-15	1.5 100%	10 12 45		-	CLAY, fine sandy (CL); gray; hard; moist		-203.8'
236.5						Bottom of Boring at 236.5 feet	Bottom of Boring at 236.5'	
237								
238								
239								
240								
241								
242								
243								
244								
245								
246								
247								
248								
249								
250								

Baker

Baker Environmental, Inc.

TEST

CLEJ-01272-3.13-08/20/93

PROJECT: R/FS Camp Lejeune

S.O. NO.: 19133

COORDINATES: EAST: NA

ELEVATION: SURFACE: NA

BORING NO.: 6GW1DA (Boring)

NORTH: NA

TOP OF STEEL CASING: NA

RIG:					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	2"O.D.		3 1/4"ID		4-3-93	127			
LENGTH	2'		5'						
TYPE	Std.		H.S.						
HAMMER WT.	140 Lbs.								
FALL	30"								
STICK UP									

REMARKS:

SAMPLE TYPE

S = Split Spoon A = Auger
 T = Shelby Tube W = Wash
 R = Air Rotary C = Core
 D = Denison P = Piston
 N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')
 RQD = Rock Quality Designation (%)
 Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)
 Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
1	S-1	2	6 6 10 10		1	4" TOP SOIL, sand, fine to coarse, trace organics; black; dry	
2		100%					
3	S-2	1.7	6 5 7 7		0	SAND, fine to coarse, trace silt, (SW); gray; medium dense; dry	
4		83%					
5	S-3	2	3 3 4 4		0	SAND, fine to medium, trace silt, (SP); lt. tan brown, mottled; loose to medium dense; damp	
6		100%					
7	S-4	2	4 4 4 5		0		
8		100%					
9	S-5	2	5 6 6 7		0		
10		100%					

Match to Sheet 2

DRILLING CO.: Hardin-Huber

DRILLER: Brian VanDoren

BAKER REP.: V. Richey

BORING NO.: 6GW1DA (Boring)

SHEET 1 OF 2

SAMPLE TYPE						DEFINITIONS	
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		RQD = Rock Quality Designation (%)	
T = Shelby Tube		W = Wash		Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis	
R = Air Rotary		C = Core		PID = Photoionization Detector			
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	Elevation
11	S-6	2	10		0	Continued from Sheet 1 SAND , fine to medium, trace silt, (SP); lt. tan brown, mottled; loose to medium dense; damp	
12		100%	10 10 15				
13	S-7	2	10		0	SAND , fine to medium, clayey, (SC); rust brown; wet	
14		100%	10 10 15				
15	R-N					CLAY , fine to medium sandy, (C1); trace sand at 16 ft.; black; soft; wet	
16	S-8	2	1		0		
17		100%	1 1 3			CLAY , trace fine sand, (C1); brown with orange, red, yellow streaks; wet, driller says black clayey peat at 19 ft.	
18	R-N						
19						SAND , fine to medium, trace silt, (SP); lt. gray; medium dense; moist	
20							
21	S-9	1.1	10		0	SAND , fine to coarse, (SW); lt. gray; moist	
22		54%	12 18 23				
23						SAND , fine to coarse, gray clay lenses, (SW); tan; dense; wet	
24	R-N						
25						SAND , fine to coarse, (SW); tan mottled rusty at 27'; wet	
26	S-10	1.3	12		0		
27		67%	24 24 28			Match to Sheet 3	
28	R-N						
30							

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW1DA (Boring)

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						PID = Photoionization Detector	
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
31	S-11	1.2	5		5	Continued from Sheet 2 SAND, fine to medium, clay lenses, (SP); tan rust mottled; medium dense; wet	
32		58%	10				
33	R-N		15			SAND, fine to coarse; trace coarse white sand, (SW); rusty-orange; wet	
34							
35						SAND, fine to coarse; thin gray clay lenses, (SW); tan; medium dense; wet	
36	S-12	1.0	8		2		
37		50%	10			SAND, fine to coarse; trace silt, (SW); rust orange; wet	
38	R-N		17				
39			21				
40							
41	S-13	.67	5		5.8	SAND, fine to coarse; trace silt, (SW); 1" block silty clay layer at 40 ft.; black to dark gray; medium dense; wet	
42		33%	5				
43	R-N		5				
44			5				
45			6				
46	S-14	1.2	3		10	SAND, fine to coarse; trace silt, trace clay at 45.8 ft., (SW); 3" gray fine to coarse sandy clay layer at 46 ft., damp; black; loose; wet	
47		58%	3				
48	R-N		2				
49			5				
50							Match to Sheet 4

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW1DA (Boring)

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						PID = Photoionization Detector	
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
51	51.0	S-15	1.5 108%	12 10 65	5	Continued from Sheet 3 SAND, fine to medium, trace silt, clay, shells, (SP); dark gray; very dense; wet	
52							
53		R-N					
54							
55	55.0					CLAY, fine to coarse sandy, trace shells, (C1); gray; stiff; damp	
		S-16	2 100%	5 8 10 12	4.6		
57	57.0						
58		R-N					
59							
60	60.0						
61		S-17	1.2	5 1 1 5	23	SAND, fine to coarse, trace fine to coarse gravel sized cemented sandy shells, trace silt, shells, (SW); gray; loose; wet	
62	62.0		58%				
63		R-N					
64							
65	65.0						
66		S-18	1.7	69 23 28	40	SAND, fine to coarse, and gravel, fine, trace silt, shells, fine to coarse gravel sized cemented sand, (SW & GP); gray; very dense; wet	
67	67	87%	51/9				
68		R-N					
70	70.0					Match to Sheet 5	

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						PID = Photoionization Detector	
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
71	71.0	S-19 .67 67%	28 51		50	Continued from Sheet 4 SAND, fine to coarse, trace shell fragments (SW); gray; very dense; wet	
72		R-N					
73							
74							
75	75.0						
	76.0	S-20 .67 67%	33 68		20	SAND, fine to coarse, trace shell fragments (SW); gray; very dense; wet	
77		R-N					
78							
79							
80	80.0						
81	81.0	S-21 .58 58%	46 51		6.2	SAND, fine to coarse, some shells, trace silt, (SW); gray; dense; wet	
82		R-N					
83							
84							
85	85.0						
86		S-22 2 100%	15 18 24 24		39	SAND, fine to coarse, some shells, trace silt, (SW); gray; dense; wet	
87	87.0						
88		R-N					
89							
90	90.0						

Match to Sheet 6

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW1DA (Boring)

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						PID = Photoionization Detector	
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
90.5	S-23	0.4 83%	74			Continued from Sheet 5 SAND , fine to coarse, trace shells, silt, (sW); gray; very dense; wet	
91	R-N						
92							
93							
94							
95							
95.0							
95.9	S-24	0.92 100%	28 51/5		60	SAND , fine to coarse, trace shells, silt, (SW); gray; very dense; wet	
96	R-N						
97							
98							
99							
100							
100.0							
101	S-25	1 80%	28 48 51/3		80	SAND , fine to coarse, trace shells, silt, (SW); gray; very dense; wet	
101.2	R-N						
102							
103							
104						SAND , fine to coarse, some silt, trace clay, (SM); gray-green; very dense; moist	
105	R-N						
105.0							
105.9	S-26	0.83 90%	28 51/5			SAND , fine to coarse and gravel fine to coarse, trace dolomitized shells, clay, silt, (SW&GW); gray; ver. Match to Sheet 7 dense; wet	
106	R-N						
107							
108							
109							
110							
110.0							

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					PID = Photoionization Detector		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
110.5	S-27	0.5 100%	51		100	Continued from Sheet 6 SAND , fine to medium, trace clay, (SP); gray-green; very dense; moist	
111							
112	R-N						
113							
115.0							
116	S-28	1.9 100%	7 8 17 51/5		46	CLAY , fine to coarse sandy trace shells, (C1); medium brown; moist	
116.9						SAND , fine to coarse, some clay, trace silt, shells; (SC); medium brown; very dense; wet	
117							
118	R-N						
119							
120.0							
121	S-29	2 100%	20 24 24 25		60		
122.0							
123	R-N						
124							
125							
126	S-30	2 100%	11 11 15 28		70		
127.0							
127						Bottom of Boring at 127 feet. Ground surface caved - loss of circulation - boring grouted.	
128							
129							
130							

Baker

Baker Environmental, Inc.

TEST BORING AND WELL CONSTRUCTION

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6MW3D

COORDINATES: EAST: 2504439.8

NORTH: 347695.5

ELEVATION: SURFACE: 34.2

TOP OF PVC CASING: 35.18

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	ROTARY DRILL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID	6"	3-20-93	0 to 12			
LENGTH	2'		5'		3-31-93	12 to 201.5			
TYPE	STD		HSA		4-1-93	--		16.92	24 hrs.
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Augered to 10', then switched to mud rotary with 5' sampling intervals from 15' to 201.5' deep

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2"	Schedule 40 PVC	2.1 Stick Up	97.5
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	2"	Schedule 40 PVC Slotted-No. 10 slotted	97.5	117.6
D = Denison	P = Piston					
N = No Sample						

Depth (Ft.)	Sample Type and No.	Samp. Rec. Ft. & %	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	1.5 / 2	2			2" black top soil at surface, SAND, fine to medium, trace clay, silt, (SP). rust colored mottled at 1.5'; tan; loose; damp to moist	2.1' stick up	
2		75%	3					
3	S-2	1.7 / 2	9			SAND; fine to medium, trace silt, (SP); light gray; medium dense; wet at 4'		31.2
4		83%	9					
5	S-3	2.0 / 2	7			SAND; fine to coarse trace silt, (SW); light gray; medium dense; wet		
6		100%	7					
7	S-4	2.0 / 2	6			SAND; fine to coarse trace silt, (SW); light gray; medium dense; wet		
8		100%	4					
9	A-N							
10								

Match to Sheet 2

DRILLING CO.: Hardin-Huber

BAKER REP.: V. Richey

DRILLER: Brian Van Doren

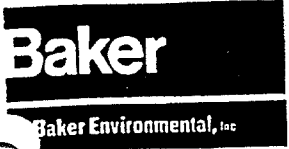
BORING NO.: 6MW3D

SHEET 1 OF 1

PROJECT: Site 6, RI/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6MW3D

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						OVA = Organic Vapor Analyzer		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
11	S-5	$\frac{2.0}{2}$	3			Continued from Sheet 1		22.2'
12		100%	5			SAND; fine to coarse trace silt, (SW); light gray; medium dense; wet		
13	R-N		6			Trace clay bottom 4"		
14			8					
15						6" CLAY, trace fine sand layer 15' to 15.5'; dark gray; moist		
16	S-6	$\frac{1.5}{2}$	2			SAND, fine to medium some clay, trace silt, (SC); dark gray; soft; moist		
18	R-N		2					
19			2			Interlayered dark gray CLAY, trace fine sand (CL), with dark gray sand, fine to medium, some clay (sc); soft; wet		
20			2					
21	S-7	$\frac{2.0}{2}$	1					
22		100%	1					
23	R-N		1					
24			1					
25			2			Interlayered dark gray CLAY, trace fine sand (CL), with dark gray sand, fine to medium, some clay (sc); soft; wet		
26	S-8	$\frac{2.0}{2}$	4			Two silty fine sand lenses up to 1" thick at approximately 25.5'; dark gray; medium stiff; wet		
27		100%	4					
28	R-N							
30						Match to Sheet 3		5.2'



TEST BORING ANI

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, RI/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6MW3D

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						OVA = Organic Vapor Analyzer		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
31	31.5 S-9	.67 44%	20 22 21			Continued from Sheet 2 SAND, fine to coarse, trace silt, (SW).; light gray; dense; wet		0.8'
32	R-N							
33								
34								
35	35.0							
36	36.5 S-10	1 67%	18 25 25			SAND, fine to medium, trace silt, (SP).; medium gray; dense; wet		
37	R-N							
38								
39								
40	40.0					SAND, fine to medium, trace silt, (SP).; medium gray; dense; wet		
41	41.5 S-11	1.1 73%	15 22 23			Trace clay (SP).; medium gray; dense; wet		
42	R-N							
43								
44						Trace clay (SP).; medium gray; dense; wet		
45	45.0							
46	46.5 S-12	.58 39%	23 25 38			Thin ≈ 1/8" green silty clay lenses; medium gray; very dense; wet		
47	R-N							
48								
50	50.0					Match to Sheet 4		

DRILLING CO.: Hardin-Huber
 DRILLER: Brian Van Doren

BAKER REP.: V. Richey
 BORING NO.: 6MW3D

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6MW3D

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						OVA = Organic Vapor Analyzer		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
51	51.5	S-13 0.5 33%	15 18 12		4.6	Continued from Sheet 3		-19.8'
52						Thin ≈ 1/8" green silty clay lenses; medium gray; very dense; wet; dark gray; medium dense; wet		
53		R-N						-23.8'
54	55.0					SAND, fine to coarse, clayey, trace shells, (SC); medium gray; very dense; damp		
55								-30.8'
56	56.5	S-14 1.5 100%	14 18 38		5.0			
57		R-N						-30.8'
58								
59								-30.8'
60	60.0					SAND, fine to coarse and gravel fine to coarse (dolomite), trace dolomitized shells, silt, (SW & GW); gray; very dense; wet; split-spoon refusal		
61	60.8	S-15 0.5 60%	31 51/4		2.9			-30.8'
62		R-N						
63								-30.8'
64								
65	65.0							-30.8'
66	66.5	S-16 0.5 33%	16 16 15		1.1	SAND, fine to coarse trace shells, silt, (SW); gray; dense; wet		
67		R-N						-30.8'
68								
69								-30.8'
70	70.0					Match to Sheet 5		

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						OVA = Organic Vapor Analyzer			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
71	S-17	0.5 33%	23 25 25		4.5	Continued from Sheet 4 SAND, fine to coarse trace shells, silt, (SW).; gray; dense; wet			
72	R-N								
73	R-N								
74	R-N								
75	S-18	0.5 100%	75		3.0	SAND, fine to coarse trace shells, silt, (SW).; gray; dense; wet			
76	R-N								
77	R-N								
78	R-N								
79	R-N								
80	S-19	0.5 100%	68		0.2	SAND, fine to coarse trace shells, silt, (SW).; gray; dense; wet			
81	R-N								
82	R-N								
83	R-N								
84	R-N								
85	S-20	1.5 100%	14 19 28		0.3	SAND, fine to coarse and gravel, fine, trace shells, silt, clay (SW & GW); gray; dense; moist			
86	R-N								
87	R-N								
88	R-N								
89	R-N								
90	R-N								

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6MW3D

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				OVA = Organic Vapor Analyzer				
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
91	S-21	.58 70%	48 51/4		1.1	Continued from Sheet 5		
92	R-N					SAND, fine to coarse, trace, silt, shells, (SW); gray; very dense; wet		
93								
94								Top of sand 94.0'
95								
96	S-22	.05 100%	80		0.5	SAND, fine to coarse, trace, silt, shells, (SW); gray; very dense; wet		
97	R-N							Top of screen 97.5'
98								
99								
100								
101	S-23	.83 83%	48 60		2.1	SAND, fine to coarse, trace, silt, shells, (SW); gray; very dense; wet		
102	R-N							
103							No. 2 sand	
104								
105								
106	S-24	1.3 89%	38 45 51/5		0.7	SAND, fine to medium, trace, silt, clay, shells, (SP); gray; very dense; wet		
107	R-N							
108								
109								
110								

Match to Sheet 7

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6MW3D

SHEET 6 OF 11



TEST BORING ANI

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6MW3D

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						OVA = Organic Vapor Analyzer			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
111	111.5 S-25	1.5 100%	65 35 42		1.5	Continued from Sheet 6 SAND, fine to coarse, and trace gravel, fine, dolomitized shells, silt, clay, (SW & GP).; gray; very dense; wet	<p>Bottom of screen at 117.6' Bottom of well at 118'</p>		
112									
113		R-N							
114									
115	115.0								
116	116.5 S-26	0.5 33%	13 15 32		3.2	SAND, fine to coarse, and trace gravel, fine, dolomitized shells, silt, clay, (SW & GP).; gray; very dense; wet; some gravel, fine; light gray; dense; wet			
117									
118		R-N							
119									
120	120.0								
121	121.5 S-27	1.5 100%	17 19 23		1.2	SAND, fine to coarse, and gravel, fine to coarse, trace fossils, silt, clay, dolomitized shells, (SW & GW); light gray; dense; wet	<p>Bentonite/grout slurry</p>	-84.8'	
122									
123		R-N							
124									
125	125.0								
126	126.5 S-28	1.5 100%	17 20 31		2.0	SAND, fine to coarse some silt, trace shells, (SM).; green-gray; very dense; wet			
127									
128		R-N							
129									
130	130.0					Match to Sheet 8			-94.8'

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6MW3D

SHEET 7 OF 1

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6MW3D

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						OVA = Organic Vapor Analyzer			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
131	131.5 S-29	1.5 100%	24 38 42		6.5	Continued from Sheet 7 SAND, fine to coarse, some shells, trace silt, dolomitized shells, (SW).; green-gray; very dense		-100.8'	
132									
133									
134									
135	R-N								
136									
137									
138									
139									
140	140.0 S-30	.83 100%	32 51/4		5.1	Sand, fine to coarse, trace shells, silt, (SW); gray; very dense; split-spoon refusal			
141	140.8								
142									
143									
144	R-N								
145									
146									
147								-112.8'	
148									
149									
150						Match to Sheet 9			

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6MW3D

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				OVA = Organic Vapor Analyzer				
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
151	S-31	0.5 100%	110		4.7	Continued from Sheet 8		
152						SAND, fine to coarse, trace shells, silt, fine to coarse gravel sized cemented sand and shells, dolomitized shells, (SW).; gray; very dense; wet		
153								
154	R-N							
155								
156								
157								
158								
159								
160								
160	S-32	.67 80%	38 51/5		3.2	SAND, fine to medium, trace silt, shells, (SP).; green-gray; very dense; moist		
161								
162								
163								
164	R-N							
165								
166								
167								
168								
169								
170						Match to Sheet 10		

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6MW3D

SHEET 9 OF 1

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6MW3D

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						OVA = Organic Vapor Analyzer			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
170.8	S-33	0.5 60%	45 51/4		1.5	Continued from Sheet 9			
171						SAND, fine to coarse, trace shells, silt, (SW).; gray; very dense; wet; split-spoon refusal			
172									
173									
174	R-N								
175									
176									-141.8'
177									
178									
179									
180									
181.3	S-34	1.0 100%	38 47 51/3		2.3	SAND, fine to medium, trace silt, clay, shells, (SP).; green-gray; very dense; moist; split-spoon refusal			
182									
183									
184									
185	R-N								
186									-151.8'
187									
188									
189									
190						Match to Sheet 11			

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6MW3D

SHEET 10 OF 11

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6MW3D

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				OVA = Organic Vapor Analyzer				
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
190.8	S-35	0.5 60%	75 51/3		1.5	Continued from Sheet 10		
191	R-N					SAND, fine to medium, trace fine to coarse gravel sized limestone, fragmenting silt, (SP).; green-gray; very dense; wet; split-spoon refusal		
192								
193								
194								
195								
196								
197								
198								
199								
200								
200.0								
201	S-36	.83 55%	22 38 45		2.1	SAND, fine to medium, some silt, (SM).; green-gray; very dense; wet	End of Boring at 201.5'	-167.8'
201.5						Bottom of boring at 201.5'		
202								
203								
204								
205								
206								
207								
208								
209								
210								

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6MW3D

SHEET 11 OF 11

TEST BORING A.....

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW15D (Well)

COORDINATES: EAST: 2503106.7

NORTH: 347682.4

ELEVATION: SURFACE: 25.2

TOP OF PVC CASING: 28.0

RIG: B-80									
	SPLIT SPOON	CASING	AUGERS	ROTARY DRILL	DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2.0" ID	10"		6"	4-6-93	160			
LENGTH	2.0'	20'	5.0'						
TYPE	Std	Steel	HSA						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Boring advanced to 110 ft.f - no samples collected - see 6GW15D (Boring) for soil description - Well set at 155 ft.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2"	Sch 40 PVC	2.3 stickup	145
T = Shelby Tube	W = Wash					
R = Air Rotary	C = Core	Well Screen	2"	Sch 40 PVC, 10 slot	145	154.6
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
111	S-1	1.7	21		7	SAND, fine to coarse and gravel, fine, trace silt, clay, dolomitized shells, fine to coarse gravel sized cemented sand, (SW GP); gray, very dense; wet		
112		83%	21	30				
113	R-N							
114								
115		115.0						
116	S-2	2	19		3	SAND, fine to coarse, some fine gravel, trace clay, silt, dolomitized shells, (SW); gray medium dense; wet		
117		100%	19	30				
118								
119								-93.6
120	120.0					Match to Sheet 2		

DRILLING CO.: Hardin Huber, Inc.

BAKER REP.: V. Richey

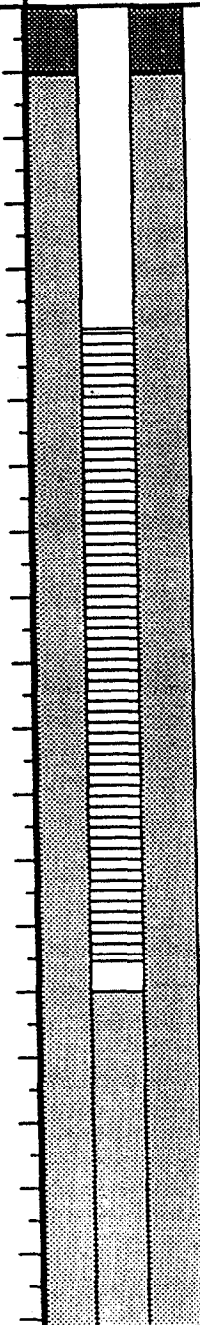
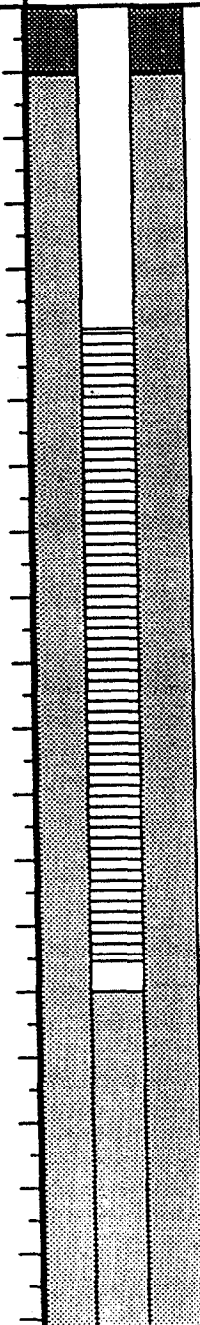
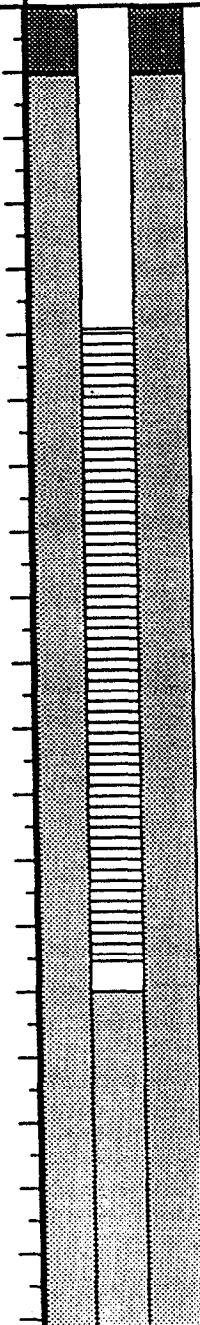
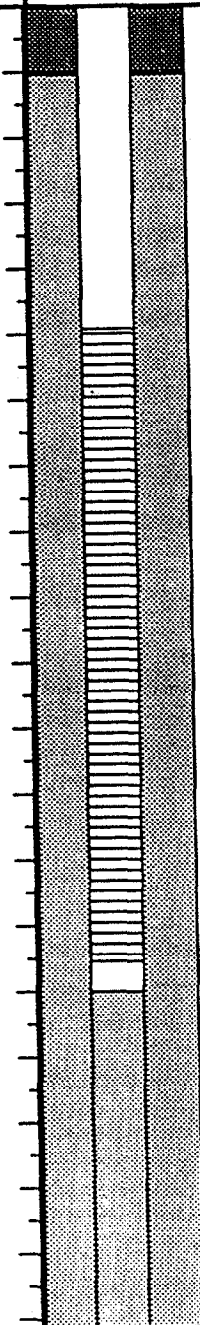
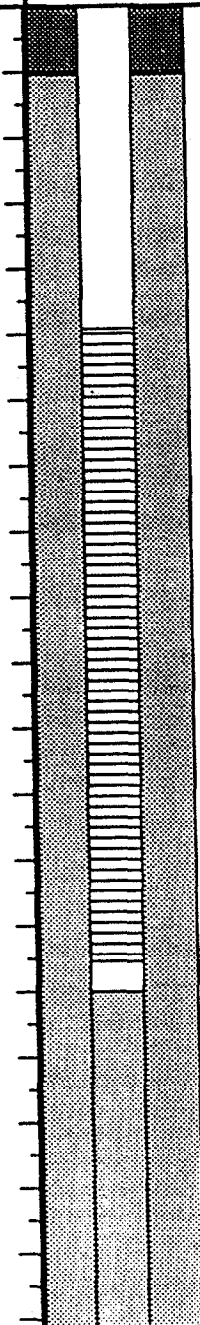
DRILLER: Brian VanDoren

BORING NO.: 6GW15D (Well)

SHEET 1 OF 1

PROJECT: RI/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6GW15D (Well)

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						PID = Photoionization Detector			
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	
						Continued from Sheet 6			
141	141.4	S-5 1.7 100%	25 45 50/5		0.1-0.3	SAND medium to coarse, trace silt, shells, cemented sand fragmentry (SP); green/gray; very dense; wet		Top of sand at 141'	
142								Top of screen at 145'	
143						SAND medium to coarse, trace silt, shells, cemented sand fragmentry (SP); green/gray; very dense; wet		No. 2 sand	
144	R-N								
145									
146									
147									
148						SAND medium to coarse, trace silt, shells, cemented sand fragmentry (SP); green/gray; very dense; wet		Bottom of screen at 154.5'	
149									
150	150.0								
151	150.8	S-6 0.9 100%	0.9 50/3	45	0.1	SAND medium to coarse, trace silt, shells, cemented sand fragmentry (SP); some silt, (SM); green/gray; very dense; wet		Bottom of well at 155'	
152									
153	R-N					Bottom of Boring at 160.0'			
154									
155	155.8								
156	156.4	S-7 1.7 100%	23 41 50/5		0.3				
157									
158	R-N								
159									
160									

Baker

Baker Environmental, Inc.

TEST E

CLEJ-01272-3.13-08/20/93

PROJECT: RI/FS Camp LejeuneS.O. NO.: 19133COORDINATES: EAST: NAELEVATION: SURFACE: NABORING NO.: 6GW15D (Boring)NORTH: NATOP OF STEEL CASING: NA

RIG:					DATE	PROGRESS (FT)	WEATHER	WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	CORE BARREL					
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID		3-29-93	30			
LENGTH	2.0'		5'		3-31-93	22			
TYPE	Std.		H.S.						
HAMMER WT.	140 Lbs.								
FALL	30"								
STICK UP									

REMARKS: Augered to 12 ft. then switched to mud rotary with 5 ft. sampling intervals. Boring was abandoned at 2 ft. - grout to surface.

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	Elevation
1		2	3			SAND, fine to coarse, trace silt, trace organics 0 to 6" (SW), large piece of wood in sample causing refusal; brown; loose; damp	
2	S-1	100%	5		0		
3	S-2	.67 80%	5		0		
4			7				
5			7				
6	S-3	.17 89%	4		0	Note: only 2" recovery. Clay, fine to coarse, sandy, (CL); gray; medium stiff; wet	
7			8				
8			8				
9			10			SAND, fine to coarse (SW); brown; wet	
10	A-N					SAND, fine to coarse, trace silt (SW); dark brown; medium dense; wet	
10							Match to Sheet 2

DRILLING CO.: Hardin-HuberDRILLER: Brian VanDorenBAKER REP.: V. RicheyBORING NO.: 6GW1DA (Boring)SHEET 1 OF 4

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW1DA (Boring)

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						PID = Photoionization Detector	
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
Continued from Sheet 1							
11	S-5	1.5 75%	5 4 3 2		0	SAND fine, some silt(SM); brown; medium dense; dry, mottled orange	
12	S-6	.67 33%	5 5 6 10		0.4	SAND fine, little silt(SM); medium dense; brown, water at 16'	
13							
14							
15	R-N						
16							
17							
18							
19							
20							
21	S-7	1.8 92%	6 3 1 3		0.3	2" SAND, fine to coarse, trace white coarse sand layer at 20 ft.; rust brown; wet	
22						5" clayey, fine to coarse, sand layer at 20.5 ft.; black; wet	
23	R-N					SAND fine to coarse, trace silt; tan; loose; wet	
24						4" clayey, fine to coarse, sand layer at 25 ft.; black; wet	
25							
26	S-8	1.0 50%	4 8 12 16		0.2	SAND fine to coarse (SW); rusty sand; medium dense; wet	
27							
28	R-N						
29							
30							

Match to Sheet 3

DRILLING CO.: Hardin-Huber

DRILLER: Brian VanDoren

BAKER REP.: V. Richey

BORING NO.: 6GW15D (Boring)

SHEET 2 OF 4

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW15D (Boring)

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						PID = Photoionization Detector	
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
Continued from Sheet 2							
31	S-9	.83	13		0.3	SAND fine to coarse, (SW); rusty brown; medium dense; wet	
32		42%	14				
33	R-N		15				
34			13				
35							
36	S-10	.75	7		1.4	SAND fine to coarse, (SW); rusty brown; dense; wet	
37		37%	21				
38	R-N		26				
39			23				
40							
41	S-11	.83	14		3.4	SAND fine to coarse, trace silt (SW); rusty brown, mottled tan; medium dense; wet	
42		42%	15				
43	R-N		15				
44			21				
45							
46	S-12	1.7	8		5-7	SAND fine to coarse, trace silt (SW); dark gray; medium dense; wet	
47		83%	7				
48	R-N		5			Bottom 8", sand, fine to medium, trace clay, silt, (SP); dark gray; wet	
49			10				
50							

Match to Sheet 4

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW15D (Boring)

SAMPLE TYPE						DEFINITIONS	
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample						SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5') RQD = Rock Quality Designation (%) Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282) Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis PID = Photoionization Detector	
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Elevation
						Continued from Sheet 3	
51	52.0	.83	5			SAND fine to coarse, trace silt, (SW); tan; medium dense; wet SAND fine to coarse, trace silt, (SW); gray; wet	
52		42%	6		5-7		
53						Bottom of boring at 52 ft.	
54						Borehole was grouted from 52 ft.	
55							
56							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							

DRILLING CO.: Hardin-Huber

DRILLER: Brian VanDoren

BAKER REP.: V. Richey

BORING NO.: 6GW15D (Boring)

SHEET 4 OF 4



TEST BORING AN

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

COORDINATES: EAST: 2503668.7

ELEVATION: SURFACE: 9.9

BORING NO.: 6GW30D

NORTH: 349456.3

TOP OF PVC CASING: 11.90

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
	SPLIT SPOON	CASING	AUGERS	ROTARY BORING					
SIZE (DIAM.)	2" O.D.		3 1/4" ID	8"	3-2-93	10			
LENGTH	2'		5'		3-3-93	92			
TYPE	STD		HS		3-4-93	59.9			
HAMMER WT.	140#				4-1-93	--		1.79	672 Hrs.
FALL	30"								
STICK UP									

REMARKS: Augered to 10' then switched to mud rotary drilling with a 5' sampling interval.

SAMPLE TYPE 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)
	Well Casing	2"	Schedule 40 PVC	1.4	90.0
	Well Screen	2"	Schedule 40 PVC #10 Slotted	90.0	99.6

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	1.3 / 2	3			SAND, fine to medium, trace silt, (SP); tan; loose; moist	1.4' stick-up	7.4
2		67%	6					
3	S-2	2.0 / 2	6			SAND, fine to coarse, trace wood fragments, fine gravel, (SW); light gray; medium dense; moist	Grout/Bentonite slurry	5.9
4		100%	10					
5	S-3	1.3 / 2	3			6' tan fine to medium sand at 4.5 to 5.0'	Grout/Bentonite slurry	3.4
6		67%	2					
7	S-4	2.0 / 2	4			SAND, coarse, trace of fine to medium sand, wood, (SP); light tan; medium dense; wet	Grout/Bentonite slurry	1.9
8		100%	7					
9	S-5	2.0 / 2	8			SAND, fine to coarse, trace silt, (SW), clayey sand layer at 9.5'; light gray; medium dense; wet	Grout/Bentonite slurry	1.9
10		100%	7					
U			8			Match to Sheet 2		

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW30D

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						PID = Photoionization Detector		
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
11						Continued from Sheet 1		
12	R-N							
13								
14								
15						top 4" brown fine to coarse sand		
16	S-6	1.0 2 67%	8 41 56 5			SAND, fine to coarse and fine to coarse gravel and rock fragments, trace silt. (SW and GW); gray; very dense; wet		
17								
18	R-N							
19						Driller says gravelly to ≈ 20'		
20								-10.1
21	S-7	1.3 87%	18 28 40			SAND, fine to coarse, trace silt, (SW); gray; very dense; wet		
22								
23	R-N							
24								
25								
25	S-8	.67 89%	28 51/3			SAND, fine to coarse, trace silt, (SW); gray; very dense; wet; split-spoon refusal		
26								
27								
28	R-N							-19.1
29								
30						Match to Sheet 3		

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						PID = Photoionization Detector		
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
						Continued from Sheet 2		
31	30.9	S-9 0.5 54%	28 51/5			SAND, fine to medium, trace silt, (SP); gray; very dense; wet		-25.1
32								
33	R-N							
34								
35	35.0					SAND, fine to coarse, trace silt, fine gravel, shells, (SW); gray; very dense; wet; split-spoon refusal		
36	35.9	S-10 .67 72%	38 51/5					
37								
38	R-N							
39								
40	40.0					SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
41	40.8	S-11 .67 80%	36 51/4					
42								
43	R-N							
44								
45	45.0					SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
46	45.75	S-12 .67 89%	29 50/3					
47								
48	R-N							
49								
50								

Match to Sheet 4

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW30D

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						PID = Photoionization Detector		
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
						Continued from Sheet 3		
51	50.4	S-13 58 64%	38 50/5			SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		-44.1
52		R-N						
53						SAND, fine to coarse, some silt, trace shells, (SM); gray; very dense; wet; split-spoon refusal		-49.1
54								
55	55.0					SAND, fine to coarse, trace clay, silt, shells, (SW); gray; very dense; wet; split-spoon refusal		-55.1
56	55.4	S-14 42/100%	51/5					
57						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
58		R-N						
59						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
60	60.0							
61	61.4	S-15 1.25 89%	14 18 50/3			SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
62								
63						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
64		R-N						
65	65.0					SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
66	65.25	S-16 1.25 100%	38 40 50/3					
67						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
68		R-N						
69						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
70								

Match to Sheet 5

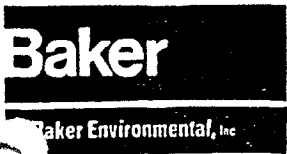
DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW30D

SHEET 4 OF 5



TEST BORING ANI

CLEJ-01272-3.13-08/20/93

PROJECT: RI/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6GW30D

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						PID = Photoionization Detector		
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
Continued from Sheet 4								
71	71.2 S-17	1.2 100%	40 45 50/2			SAND, fine to coarse, trace silt, clay, shells, (SW); gray; very dense; wet; split-spoon refusal	<p>Top of bentonite 76.5'</p> <p>Top of sand at 83'</p>	
72								
73	R-N							
74								
75	75.0							
76	75.2 S-18	25/100%	50/3			SAND, fine to coarse, trace clay, silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
77								
78	R-N							
79								
80	80.0							
81	80.4 S-19	42/100%	50/5			SAND, fine to coarse, trace clay, silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
82								
83	R-N							
84								
85	85.0							
86	86.3 S-20	1.3 100%	18 38 50/4			SAND, fine to coarse, and fine to coarse gravel (limestone fragments), some clay, trace silt, shells, (SCQ GC); gray; very dense; wet		
87								
88	R-N							
89								
90								

Match to Sheet 6

DRILLING CO.: Hardin-Huber
 DRILLER: Brian Van Doren

BAKER REP.: V. Richey
 BORING NO.: 6GW30D

PROJECT: RLFS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW30D

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						PID = Photoionization Detector		
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
Continued from Sheet 5								
91	91.25 S-21	1.25 100%	18 20 50/3			SAND, fine to coarse, and fine to coarse gravel (limestone fragments), some clay, trace silt, shells, (SCQ GC); gray, very dense; split-spoon refusal		
92								
93	R-N							
94								
95	95.0							
96	96.25 S-22	1.25 100%	NA			SAND, fine to coarse, and fine to coarse gravel (limestone fragments), some clay, trace silt, shells, (SCQ GC); gray, split-spoon refusal		
97								
98	R-N							
99							Bottom of screen at 99.6'	
100	100.0					SAND, fine to coarse, and fine to coarse gravel (limestone fragments), some clay, trace silt, shells, (SCQ GC); gray, very dense; split-spoon refusal		Bottom of well at 100'
101	101.9 S-23	1.9 53%	17 18 40 50/5					
102								-92.1
103	R-N					End for 3-3-93		
104								
105	105.0							Backfilled boring to 100' with grout/bentonite slurry
106	106.4 S-24	1.4 100%	17 38 50/5					
107								
108	R-N							
109								
110								

Match to Sheet 7

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW30D

SHEET 6 OF 6

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW30D

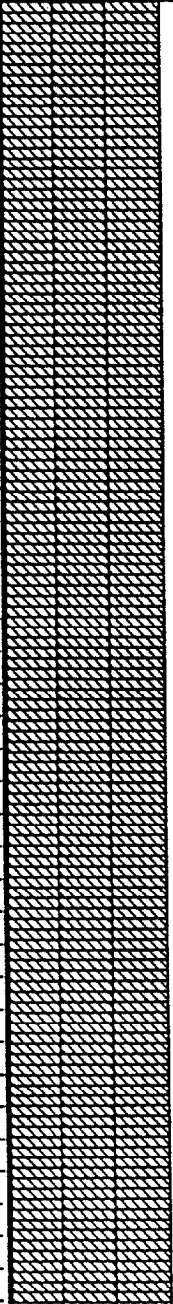
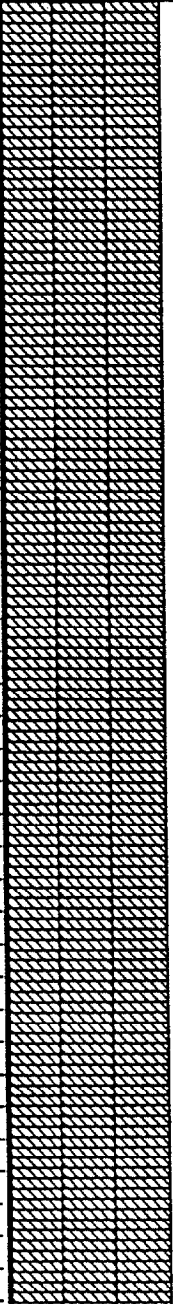
SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample						PID = Photoionization Detector		
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
						Continued from Sheet 6		
111	111.3 S-25	1.2 87%	40 45 50/4			SAND, fine to coarse, some silt, trace fine to coarse gravel, shells, (SM); gray; very dense; wet		-105.1
112						3" dark gray to black coarse sand, trace shells layer 111 to 111.3'		
113	R-N							
114								
115	115.0							
115.5	S-26	0.5 100%	125			SAND, fine to coarse, (SW); gray; very dense; wet		
116								
117	R-N							
118								
119								
120	120.0 S-27	0.25 50%	125			SAND, fine to coarse, (SW); gray; very dense; wet		
120.5								
121								
122								
123	R-N							
124								
125								
126								
127								
128								
129								
130								

Match to Sheet 8

PROJECT: RJ/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW30D

SAMPLE TYPE						DEFINITIONS		
S = Split Spoon		A = Auger		SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		RQD = Rock Quality Designation (%) Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282) Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis PID = Photoionization Detector		
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				PID = Photoionization Detector				
Depth (Ft.)	Sample Type and No.	Sampl. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	PID (ppm)	Visual Description	Well Installation Detail	Elevation
131	S-28	25 100%	200/3			Continued from Sheet 7 SAND, fine to coarse, (SW);gray; very dense; wet; split-spoon refusal		-38.0
132								
133								
134	R-N							
135								
136								
137								
138								
139								
140								
141	S-29	1.3 100%	48 50/4			SAND, fine to coarse, trace clay, fine gravel, shells, (SW);gray-green; very dense; moist to wet; split-spoon refusal		-38.0
142								
143								
144								
145	R-N							
146								
147								
148								
149								
150						Match to Sheet 9		

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW30D

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						PID = Photoionization Detector		
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
Continued from Sheet 8								
151	S-30	1.25 100%	38 42 50/3			SAND, fine to coarse, trace silt, shells, (SW); brown-green; very dense; wet; split-spoon refusal		
152								
153								
154								
155	R-N							
160						SAND, fine to coarse, trace silt, shells, (SW); brown-green; very dense; split-spoon refusal		
161	S-31	1.3 70%	28 37 48 51/5					
End of Boring at 161.9' - 3/4/93								
162								
163								
164								
165								
166								
167								
168								
169								
170								



TEST BORING AI

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

COORDINATES: EAST: 2501142.5

ELEVATION: SURFACE: 12.0

BORING NO.: 6GW35D

NORTH: 349341.6

TOP OF PVC CASING: 14.29

RIG: B-80									
	SPLIT SPOON	CASING	AUGERS	ROTARY BORING	DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
SIZE (DIAM.)	2" O.D.		3 1/4" ID	6"	3-5-93	8			
LENGTH	2'		5'		3-6-93	107.5			
TYPE	STD		HS		3-7-93	85.5			
HAMMER WT.	140#				4-1-93			5.18	600 Hrs
FALL	30"								
STICK UP									

REMARKS: Augered to 8' then switched to mud rotary drilling with a 5' sampling intervals.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2"	Schedule 40 PVC	+2.3	90.0
T = Shelby Tube	W = Wash	Well Screen	2"	Schedule PVC #10 Slotted	90.0	100.0
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	0	2.0	9			SAND, fine to medium, trace silt, clay, (SP); brown; medium dense; damp 6" black clayey sand layer 1.5' to 2'		9.0'
2	S-1	100%	11					
3		2.0	3			SAND, fine to coarse, clayey (SC); brown; damp CLAY, fine to coarse sandy, (CL); brown-gray mottled; soft; moist		5.5'
4	S-2	100%	2					
5		2.0	2			SAND, fine and silt, trace clay, (SP and ML); dark gray; loose; wet		3.0'
6	S-3	100%	2					
7		2.0	1			Match to Sheet 2		
8	S-4	100%	4					
9			1					
10	A-N		1					

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW35D

SHEET 1 OF 1

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						PID = Photoionization Detector		
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
						Continued from Sheet 1		
11		2.0	WOR			CLAY, fine to coarse sand, trace wood fragments, (CL); black; soft; wet		
12	12.0 S-5	100%	12 2 3			SAND, fine to coarse, clayey, trace wood fragments, (SC); dark brown; soft; wet		1.0'
13								-1.0'
14	R-N							
15	15.0					SAND, fine to coarse, trace silt, (SW); gray; medium dense; wet		
16		2.0	4 8 8					
17	17.0 S-6	100%	10			8" SAND, fine to medium, some clay layer at 17.3'; gray; wet		
18								
19	R-N							
20	20.0					8" SAND, fine to medium, some clay layer at 17.3'; gray; wet		
21		1.2	6 8 10					
22	22.0 S-7	58%	13					
23								
24	R-N							
25	25.0							
26		2.0	13 5 7			SAND, fine to coarse, clayey, trace shells, (SC); gray; damp		-13.5'
27	27.0 S-8	100%	12			SAND, fine to coarse, clayey, trace shells, silt, fine gravel, (SC); gray; dense; damp		-14.5'
28		2.0	7 15 19 39					
29	29.0 S-9	100%						
30						Match to Sheet 3		

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW35D

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					PID = Photoionization Detector			
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
						Continued from Sheet 2		
31		1.3	12			SAND, fine to coarse and fine gravel, trace silt, shells, (SW and GP); gray; very dense; wet		
32	S-10	67%	13 41 22					
33	R-N							
34								
35								
35.5	S-11	0.5 100%	57					
36								
37	R-N							
38								-26.0'
39								
40								
40						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet		
41	S-12	1.7 83%	25 27 31 49					
42								
43	R-N							
44								31.5'
45								
45.4	S-13	0.42 100%	51/5			SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
46								
47	R-N							
48								
50						Match to Sheet 4		

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW35D

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						PID = Photoionization Detector		
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
Continued from Sheet 3								
51	50.5	S-14 .42 83%	58			SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
52								
53		R-N						
54								
55	55.0					SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet; split-spoon refusal		
56	55.4	S-15 .17 40%	100/5					
57						SAND, fine to coarse, some shells, trace fine gravel, silt, (SW); gray; very dense; wet		-46.0'
58		R-N						
59								
60	60.0							
61						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet		-52.0'
62	62.0	S-16 NA	13 25 48 46					
63								
64		R-N						
65	65.0							
66	65.5	S-17 .25 50%	64					
67								
68		R-N						
69								
70								

Match to Sheet 5

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						PID = Photoionization Detector		
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
						Continued from Sheet 4		
71								
72	R-N							
73								
74								
75	75.0							
76	75.4	S-19 .12 14%	36 50/5			SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet		
77							Bentonite/ grout slurry	
78	R-N							
79								
80	80.0							
81	80.8	S-20 .83 100%	63 51/4			SAND, fine to coarse, trace silt, shells, (SW), some shells at 80.5'; gray; very dense; wet		
82								
83								-71.0'
84								
85	85.0							
86								
87	87.0	S-21 1.7 83%	63 38 29 31			SAND, fine to coarse and dolomitized shells, trace silt, clay, (SW); gray; very dense; wet		
88								
89								
90	85.0							
						Match to Sheet 6		
								Top of Bentonite at 87.0'
								Top of Sand at 90.0'

PROJECT: R/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW35D

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						PID = Photoionization Detector		
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
						Continued from Sheet 5		
91	S-22	0.5 27%	13 16 38 50/4			SAND, fine to coarse, some clay, trace fine gravel, silt, dolomitized shells, (SC); gray; very dense; wet; split-spoon refusal		
91.8								
92	R-N							
93								
94								
95	S-23	1.5 100%	13 18 24			SAND, fine to coarse, some clay, trace fine gravel, silt, dolomitized shells, (SC); gray; dense; wet		Top of screen at 95.0'
95.0								
96	R-N							
96.5								
97								
98	S-24	1.5 100%	11 11 16			SAND, fine to coarse, some clay, trace fine gravel, silt, dolomitized shells, (SC); gray; medium dense; wet		
99								
100	R-N							No. 2 Sand
100.0								
101								
101.9	S-25	1.5 100%	18 24 26			SAND, fine to coarse, trace clay, silt, shells, (SW); gray-brown; dense; wet		Bottom of screen at 104.6'
102								
103	R-N							Bottom of well at 105'
104								
105								
105.0	R-N							
106								
106.5	R-N							
107								
108								
109	R-N							
110								
						Match to Sheet 7		

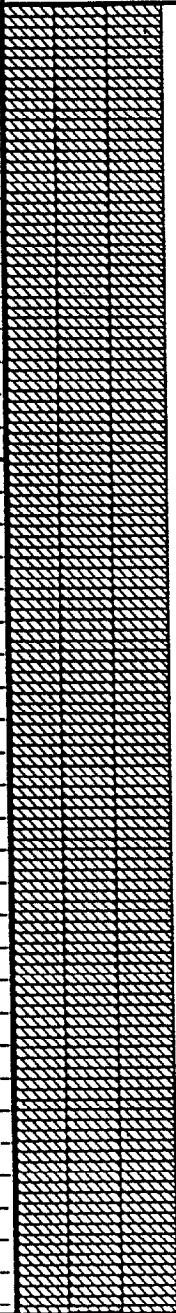
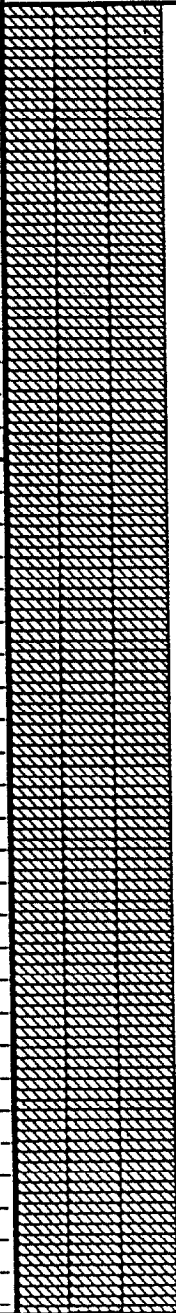
SAMPLE TYPE						DEFINITIONS		
S = Split Spoon	A = Auger					SPT = Standard Penetration Test (ASTM D-1586) (Blows/0.5')		
T = Shelby Tube	W = Wash					RQD = Rock Quality Designation (%)		
R = Air Rotary	C = Core					Lab Class. = USCS (ASTM D-2487) or AASHTO (ASTM D-3282)		
D = Denison	P = Piston					Lab Moist. = Moisture Content (ASTM D-2216) Dry Weight Basis		
N = No Sample						PID = Photoionization Detector		
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
						Continued from Sheet 6		
111	S-26	1.5	29			SAND, fine to coarse, some fine gravel, trace clay, silt, shells, (SW); gray; very dense; wet		
111.5		100%	40					
112	R-N		29					
113						SAND, fine to coarse, trace fine gravel, trace clay, silt, shells, (SW); gray; very dense; wet		
114	R-N							
115	S-27	0.5	125					
115.5		100%						
116	R-N							
117						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet		-106.5'
118	R-N							
119								
120	S-28	0.25	72					
120.9		27%	86/5					
121						SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet		
122	R-N							
123								
124								
125	S-29	0.67	115					
125.8		89%	86/3					
126								
127	R-N							
128								
129								
130								

Match to Sheet 8

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW35D

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				PID = Photoionization Detector					
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	
Continued from Sheet 7									
131	S-30	130.4 100%	33 151/4			SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet			
132									
133									
134									
135									
136									
137	R-N							-125'	
138									
139									
140		140.0				SAND, fine to coarse, trace silt, (SW); brown-green; very dense; moist			
141	S-31	141.5 100%	1.0 18 20 31						
142									
143									
144	R-N								
145									
146									
147									
148									
149									
150						Match to Sheet 9			

PROJECT: RL/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW35D

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						PID = Photoionization Detector		
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
						Continued from Sheet 8		
151	151.0	S-32 1.0 100%	21 57			<p>SAND, fine to coarse, some silt, (SM); brown-green; very dense; wet</p>		-144.5'
152								
153								
154								
155	R-N							
156								
157								
158								
159								
160	160.0							
161	161.5	S-33 1.5 100%	17 21 23			<p>SAND, fine to coarse, trace silt, clay, (SW); green; dense; wet</p>		-144.5'
162								
163								
164	R-N							
165								
166								
167								
168								
169								
170								



TEST BORING ANE

CLEJ-01272-3.13-08/20/93

PROJECT: RI/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6GW35D

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						PID = Photoionization Detector			
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	
						Continued from Sheet 8			
170.6	S-34	.75 100%	98 52/3			SAND, fine to coarse, trace silt, clay, (SW); green; very dense; wet; split-spoon refusal			
171									
172									
173									
174	R-N								
175									
176									
177								-165.0'	
178									
179									
180.0						SAND, fine to medium, trace silt, clay, (SP); green; very dense; moist			
181	S-35	1.2 78%	15 21 35						
181.5									
182									
183									
184									
185	R-N								
186									
187									
188									
189									
190									

DRILLING CO.: Hardin-Huber
 DRILLER: Brian Van Doren

BAKER REP.: V. Richey
 BORING NO.: 6GW35D

PROJECT: RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW35D

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						PID = Photoionization Detector			
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	
						Continued from Sheet 8			
191									
192									
193									
194									
195	R-N								
196									
197									
198									
199									
200									
200.0									
201	S-36	1.0 100%	37 66			SAND, fine to medium, trace silt, clay, (SP); green; very dense; moist			
201.0								-189.0'	
202									
203	R-N					End of Boring at 201.0'			
204									
205									
206									
207									
208									
209									
210									

Baker

Baker Environmental, Inc.

TEST BORING AN

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

COORDINATES: EAST: 2502172.0

ELEVATION: SURFACE: 15.6

BORING NO.: 6GW36D

NORTH: 350206.7

TOP OF PVC CASING: 17.61

RIG: B-80									
	SPLIT SPOON	CASING	AUGERS	ROTARY DRILL	DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
SIZE (DIAM.)	1 3/8" ID		3 1/4" ID	6"	3-18-93	0 to 116.5			
LENGTH	2'		5'		3-19-93	116.5 to 201.5			
TYPE	STD		HSA		4-1-93			5.18	312 hrs.
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Augered to 10', then mud rotary drill with 5' sampling interval from 15' to 201.5' deep

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2"	Schedule 40 PVC	2.5 Stick Up	75.3
T = Shelby Tube	W = Wash	Well Screen	2"	Schedule 40 PVC Slotted No. 10	75.3	94.6
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	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
1	S-1	0.5 / 2	2			SAND, fine to medium, trace silt, (SP); brown; loose; moist	2.5' stick up	
2		25%	3					
3	S-2	0.5 / 2	2			4" SAND, fine to medium, trace silt, layer at 2', (SP); gray; loose; moist		11.6
4		25%	3					
5	S-3	0.6 / 2	4			SAND, fine to medium, trace silt, (SP); light gray with iron staining at 7'; loose; moist, wet at 6'	Measured water level at 5.18' TOC on 4-1-93	
6		33%	6					
7	S-4	1.0 / 2	4					
8		50%	6					
10	A-N					Match to Sheet 2		6.6'

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW36D

SHEET 1 OF 1

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW36D

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						OVA = Organic Vapor Analyzer		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
11	S-5	1.2 2	3 3 3			Continued from Sheet 1 SAND, fine to medium trace silt, (SP).; tan; brown mottled; loose; wet		2.6'
12		58%	4					
13	R-N							
14								
15								
16	S-6	.92 2	7 8 8			4" SAND, fine to medium, trace silt layer at 15.5'; light gray; wet		
17		46%	10					
18	R-N					SAND, fine to coarse, calcium carbonate cemented, trace fossils, shells, (SW).; gray; very dense; wet		-1.9'
19								
20								
21	S-7	1.0 100%	26 53					
22	R-N							
23								
24								
25								
26	S-8	1.3 89%	11 13 16			SAND, fine to coarse, trace silt, (SW).; medium gray; medium dense; wet 4" silty clay layer at 26'; gray; wet		
27								
28	R-N							
29								
30						Match to Sheet 3		

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW36D

SHEET 2 OF 1

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						OVA = Organic Vapor Analyzer			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
31	31.5 S-9	1.0 67%	6 8 10			Continued from Sheet 2 SAND, fine to coarse, some clay, trace shells, slot, (SC).; gray; medium dense; moist		-17.4'	
32	R-N								
33									
34									
35	35.0								
36	36.4 S-10	1.0 70%	26 34 50/5			SAND, fine to coarse and dolomitized shells, some fine to coarse gravel sized cemented SAND and fossils, trace silt, (SW).; gray; very dense; wet			
37	R-N								
38									
39	40.0								
40	41.0 S-11	1.0 100%	25 51			SAND, fine to coarse and dolomitized shells, some fine to coarse gravel sized cemented SAND and fossils, trace silt, (SW).; gray; very dense; wet			
41	R-N								
42									
43									
44	45.0						-28.4'		
45	46.0 S-12	.08 89%	28 50			SAND, fine to coarse, some shells, trace silt, (SW).; gray; very dense; wet			
46	R-N								
47							-31.4'		
48									
49									
50	50.0					Match to Sheet 4			

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW36D

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						OVA = Organic Vapor Analyzer		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
51	S-13	0.25 25%	50 56			Continued from Sheet 3 SAND, fine to coarse, trace shells, (SW).; gray; very dense; wet		
52								
53	R-N							
54								
55	S-14	0 0	38 60/4			No Recovery		
56								
57	R-N							
58								
59								
60	S-15	.92 92%	74 70/5		6.3	SAND, fine to coarse, trace shells, (SW).; gray; very dense; wet		
61								
62	R-N						Top of Bentonite 62'	-46.4
63								
64								
65	S-16	.67 47%	13 53 50/5		1.1	SAND, fine to coarse, trace fine to coarse gravel, silt, shells, (SW).; gray; very dense; wet		
66							Top of Sand 66'	
67	R-N							
68								
69								
70						Match to Sheet 5		

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW36D

SHEET 4 OF 1

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW36D

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						OVA = Organic Vapor Analyzer			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
71	70.8	S-17	0.0 0%	56 50/4		Continued from Sheet 4 No Recovery			
72		R-N							
73									
74									
75	75.0								
76	76.0	S-18	.67 67%	45 132	5.3	SAND, fine to coarse trace shells, (SW).; gray; very dense; wet		Top of Screen 75.3'	
77		R-N							
78									
79									
80	80.0								
81	81.0	S-19	0 0	42 58		No Recovery			
82		R-N							
83								-67.4'	
84									
85	85.0								
86	86.5	S-20	.25 17%	16 15 21		SAND, fine to coarse trace shells, silt, clay, (SW).; gray; dense; wet			
87		R-N							
88								-72.4'	
89									
90	90.0					Match to Sheet 6			

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW36D

SHEET 5 OF 1



TEST BORING ANI

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6, RL/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW36D

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						OVA = Organic Vapor Analyzer			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
91	91.0	S-21 .83 83%	27 70		1.9	Continued from Sheet 5	<p>Bottom of Screen at 94.6'</p> <p>Bottom of Well at 95.0'</p>		
92						SAND, fine to coarse, and gravel, fine to coarse, trace clay, silt, shells, (SW & GW).; gray; very dense; wet			
93		R-N							
94									
95	95.0								
96	96.5	S-22 1.5 100%	11 14 20		0	SAND, fine to coarse and gravel, fine, trace silt, clay, shells, dolomitized shells, (SW & GP).; gray; dense; wet			
97									
98		R-N							-82.4'
99									
100	100.0								
101	101.5	S-23 .83 55%	12 22 24		1.9	SAND, fine to coarse, trace fine gravel, shells, silt, clay, (SW).; gray; dense; wet			
102									
103		R-N							
104									
105	105.0								
106	106.5	S-24 1.0 67%	49 27 21		1.9	SAND, fine to coarse and gravel, fine, some shells, silt, (SW & GP).; gray; dense; wet			
107									
108		R-N							
109									
110	110.0								

Match to Sheet 7

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW36D

SHEET 6 OF 1

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						OVA = Organic Vapor Analyzer		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
111	111.5 S-25	0 0%	15 20 25			Continued from Sheet 6 No Recovery		-95.9'
112	R-N							
113	R-N							
114	R-N							
115	115.0					SAND, fine to coarse, trace fine gravel, silt, clay, dolomitized shells, (SW); gray; very dense; wet		-100.4'
116	116.5 S-26	1.5 100%	22 31 29		0			
117	R-N							
118	R-N							
119	R-N							
120	120.0					SAND, fine to coarse, and gravel, fine to coarse, trace fossils, silt, clay, dolomitized shells, (SW & GW); light gray; dense; wet		
121	120.5 S-27	.75 82%	54 55/5		4.8			
122	R-N							
123	R-N							
124	R-N							
125	R-N							
126	R-N							
127	R-N							
128	R-N							
130	130.0					Match to Sheet 8		130.0'

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW36D

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				OVA = Organic Vapor Analyzer					
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
131	S-28	0.6 100%	153			Continued from Sheet 7			
132						SAND, fine to coarse, some shells, trace silt, dolomitized shells, (SW).; green-gray; very dense			
133									
134									
135	R-N								-119.4'
136									
137									
138									
139									
140									-124.4'
141	S-29	0.5 100%	88		0	SAND, fine to coarse, trace shells, silt, (SW).; gray; very dense			
142									
143									
144	R-N								
145									
146									
147									
148									
149									
150						Match to Sheet 9			-131.4'

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW36D

SHEET 8 OF 11

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW36D

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						OVA = Organic Vapor Analyzer		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
151	S-30	1.5	18		0	Continued from Sheet 8		
151.5		100%	28			SAND, fine to coarse, trace shells, silt, fine to coarse gravel sized cemented sand and shells, dolomitized shells, (SW).; gray; very dense; wet		
152			50					
153								
154	R-N							
155								
156								
157								
158								-142.4'
159						SAND, fine to medium, trace silt, shells, (SP).; green-gray; very dense; moist		
160								
160.0								
161	S-31	.17	12					
161.5		11%	17					
162			21					
163								
164	R-N							
165								
166								
167								
168								
169								
170						Match to Sheet 10		-152.4'

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW36D

SHEET 9 OF 1

PROJECT: Site 6, RI/FS Camp Lejeune
 S.O. NO.: 19133

BORING NO.: 6GW36D

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						OVA = Organic Vapor Analyzer		
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation
171	S-32	.83	20			Continued from Sheet 9 SAND, fine to medium, trace silt, shells, clay; green-gray; very dense; moist		
171.4		59%	40					
172			51/5					
173								
174								
175	R-N							
176								
177								
178								
179								
180						SAND, fine to medium, trace silt, shells, clay; green-gray; very dense; moist		
180.0								
181	S-33	1.0	42		8.8			
181.5		.67	37					
182			53					
183								
184								
185	R-N							
186								
187								
188								
189								
190								

Match to Sheet 11

DRILLING CO.: Hardin-Huber
 DRILLER: Brian Van Doren

BAKER REP.: V. Richey
 BORING NO.: 6GW36D

PROJECT: Site 6, RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW36D

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						OVA = Organic Vapor Analyzer			
Depth (Ft.)	Sample Type and No.	Samp. Rec. (Ft. & %)	SPT or RQD	Lab. Class. or Pen. Rate	OVA (ppm)	Visual Description	Well Installation Detail	Elevation	
191	S-34	1.3	13		0	Continued from Sheet 10			
191.5		89%	21			SAND, fine to medium, trace silt, shells, clay; green-gray; very dense; moist			
192			37						
193									
194	R-N								
195									
196									
197									
198									
199									
200								-182.9'	
200.0									
201	S-35	1.3	22		0	SAND, fine to medium, clayey, trace silt (SC); green; very dense; moist	Bottom of Boring at 201.5'	-185.9'	
191.5		100%	51/4						
202						Bottom of boring at 201.5'			
203									
204									
205	R-N								
206									
207									
208									
209									
210									

Baker

Baker Environmental, Inc

TEST BORING AND WELL CONSTRUCTION RECORD

PROJECT: Site 6 RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW37D

COORDINATES: EAST: 2501612.5

NORTH: 347972.1

ELEVATION: SURFACE: 14.0

TOP OF PVC CASING: 15.96

RIG: B-80					DATE	PROGRESS (FT)	WEATHER	TOC WATER DEPTH (FT)	TIME
SIZE (DIAM.)	SPLIT SPOON	CASING	AUGERS	ROTARY BORING					
1 3/8" I.D.			3 1/4" ID	6"	3-9-93	111.5	Warm, sunny		
LENGTH	2'		5'		4-1-93	--	--	6.90	552 hrs
TYPE	STD		HS						
HAMMER WT.	140#								
FALL	30"								
STICK UP									

REMARKS: Augered to 10', began mud rotary drilling with a 5' sampling interval from 10' to 111.5'.

SAMPLE TYPE		WELL INFORMATION	DIAM	TYPE	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
S = Split Spoon	A = Auger	Well Casing	2"	Schedule 40 PVC	1.7 stick up	76.1
T = Shelby Tube	W = Wash	Well Screen	2"	Schedule 40 PVC #10 Slotted	76.1	94.6
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		2.0 / 2	3			TOPSOIL; black		8.0'
2	S-1	100%	8			SAND, fine to coarse, (SW); tan to brown; loose; damp		
3		2.0 / 2	6			Mottled rust; wet at 5.5'		
4	S-2	100%	12					
5		2.0 / 2	2					
6	S-3	100%	2					
7		2.0 / 2	4			SAND, fine to coarse, trace silt, (SW); light tan to white; medium dense; wet		
8	S-4	100%	7					
9			9			Advanced augers to 10' converted to mud rotary		
10	A-N		16					

Match to Sheet 2

DRILLING CO.: Hardin-Huber

BAKER REP.: V. Richey

DRILLER: Brian Van Doren

BORING NO.: 6GW37D

SHEET 1 OF 7

PROJECT: Site 6 RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW37D

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						PID = Photoionization Detector		
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
						Continued from Sheet 1		
11	S-5	1.7 2	3			SAND, fine to coarse, trace silt, (SW); light tan to white; loose dense; wet		1.0'
12		12.0	83%	4				
13	R-N							
14								
15	15.0					SAND, fine to coarse, trace silt, (SW); light gray; medium dense; wet		
16	16.5	1.5 100%	5 8					
18	R-N							
19								
20	20.0					SAND, coarse, (SP); gray; medium dense		-6.0'
21	21.5	1.5 100%	6 6					
22	R-N							
23								
24						SAND, fine to coarse, trace silt, (SW); black; medium dense; wet		
25	25.0	1.7	9 3					
26	S-8	83%	12			2" black silty clay layer at 25.5'		
27	27.0		14					
28	R-N							
29								
30	30.0					Match to Sheet 3		

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richey

BORING NO.: 6GW37D

SHEET 2 OF 7

PROJECT: Site 6 RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW37D

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						PID = Photoionization Detector		
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
Continued from Sheet 2								
31	S-9	1.7	7			SAND, fine to coarse, some silt, (SM); black; loose; wet 3" black fine to coarse sand and clay, trace silt, shell, damp layer at 31.7'		-18'
32		32.0	83%	4	5			
33	R-N					SAND, fine to coarse and gravel, fine, trace silt, shells (SW and GP); gray; very dense; wet		-21'
34								
35		25.0						
36	S-10	1.7	25			SAND, fine to coarse, trace fine gravel, silt, shells, clay, (SW); gray; very dense; wet; split spoon refusal		-25'
37		37.0	83%	34	25			
38	R-N					SAND, fine to coarse, trace fine gravel, silt, shells, clay, (SW); gray; very dense; wet; split spoon refusal		-25'
39								
40		40.0						
41	S-11	1.5	28			SAND, fine to coarse, trace fine gravel, silt, shells, clay, (SW); gray; very dense		-25'
42		41.8	86%	40	50/3			
43	R-N					SAND, fine to coarse, trace fine gravel, silt, shells, clay, (SW); gray; very dense		-25'
44								
45		45.0						
46	S-12	1.5	10			SAND, fine to coarse, trace fine gravel, silt, shells, clay, (SW); gray; very dense		-25'
47		46.5	100%	37	38			
48	R-N					SAND, fine to coarse, trace fine gravel, silt, shells, clay, (SW); gray; very dense		-25'
49								
50		50.0				Match to Sheet 4		

PROJECT: Site 6 RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW37D

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						PID = Photoionization Detector		
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
Continued from Sheet 3								
51	S-13	0.5 100%	60			SAND, fine to coarse, trace silt, shells, (SW); gray; very dense; wet		
52	R-N							
53							Bentonite/ grout Slurry	-33'
54								
55	S-14	0.7 72%	42 50/5		8.4	SAND, fine to coarse, some silt, trace shells, (SM); gray; very dense; wet		
56	R-N							
58							Bentonite/ grout Slurry	-38'
59								
60	S-15	0.42 100%	53/5		1.7	SAND, fine to coarse, some silt (SM); medium gray; very dense; wet		
61	R-N							
62							Bentonite/ grout Slurry	
63								
64							Bentonite/ grout Slurry	
65								
66	S-16	1.0 67%	17 17 38		7.6	SAND, fine to medium, trace shells, clay, silt, (SP); medium gray; very dense; wet		
67	R-N							
68							Bentonite/ grout Slurry	Top of Bentonite at 70'
69								
70						Match to Sheet 5		

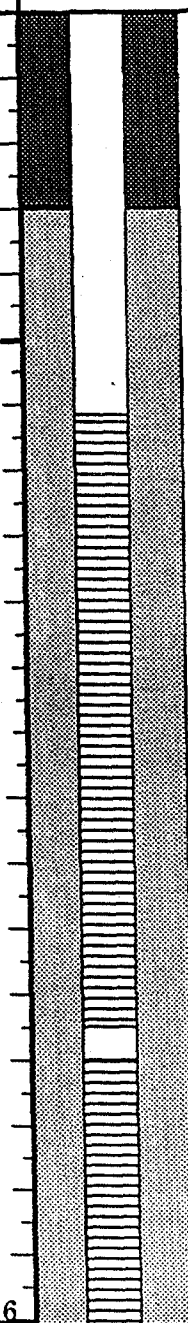
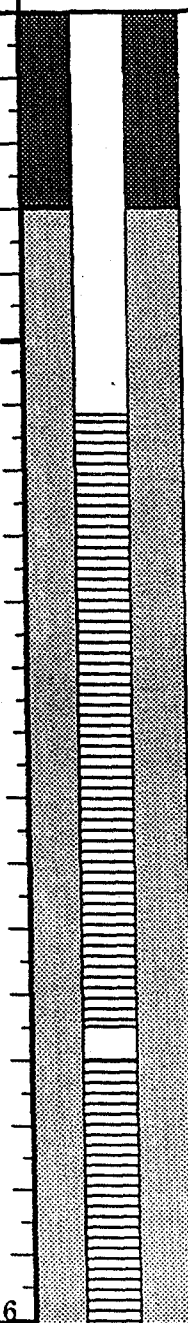
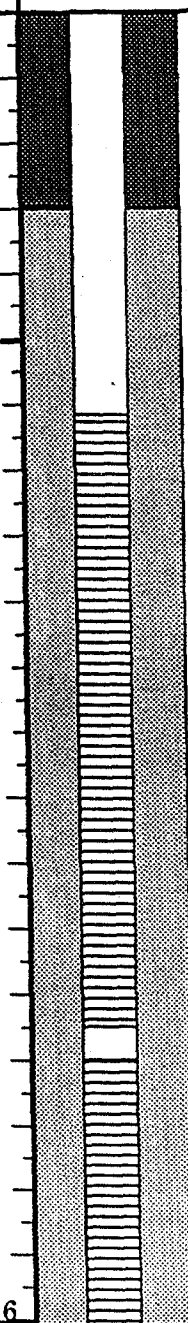
TEST BORING ANI

CLEJ-01272-3.13-08/20/93

PROJECT: Site 6 RI/FS Camp Lejeune

S.O. NO.: 19133

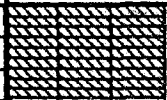
BORING NO.: 6GW37D

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					PID = Photoionization Detector			
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
						Continued from Sheet 4		
71	70.7	S-17 0.5 100%	30 50/3		8.6	SAND, fine to coarse, trace silt, clay, shells, (SW); gray; very dense; wet; split-spoon refusal		
72								
73	R-N							
74							Top of sand at 73'	
75	75.0					SAND, fine to coarse, trace silt, shells, (SW); gray-green; very dense; wet; split-spoon refusal		
76	75.8	S-18 .58 78%	30 51/3		6.1			
77								
78		R-N					Top of screen at 76.1'	
79								
80	80.0					SAND, fine to coarse, trace silt, shells, (SW); gray-green; very dense; wet; split-spoon refusal		
81	80.9	S-19 .83 90%	43 57/5		18.5			
82								
83		R-N					No. 2 sand	
84								
85	85.0					No Recovery		
86	86.5	S-20	21 30 29					
87								
88		R-N						
89								
90	85.0							
						Match to Sheet 6		

PROJECT: Site 6 RI/FS Camp Lejeune

S.O. NO.: 19133

BORING NO.: 6GW37D

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						PID = Photoionization Detector		
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
111	S-25	1.5 100%	29 28 30		0	Continued from Sheet 6 SAND, fine to coarse, and gravel, fine, trace silt, clay, dolomitized shells, (SW and GP); gray; very dense; wet.		-97.5'
111.5						End of Boring at 111.5'		
112								
113								
114								
115								
116								
118								
119								
120								
121								
122								
123								
124								
125								
126								
127								
128								
129								

DRILLING CO.: Hardin-Huber

DRILLER: Brian Van Doren

BAKER REP.: V. Richev

BORING NO.: 6GW37D

SHEET 7 OF 7

Appendix G
Field Well Development Records

G.1

Sites 6 and 82 - Shallow Wells

Baker

Baker Environmental, Inc

FIELD WEI

CLEJ-01272-3.13-08/20/93

PROJECT: MCB CamCTO NO.: 19133 WELL NO.: 6-GW-9DATE: October 8, 1992GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0830							
TIME FINISH							
0912							
INITIAL WATER LEVEL (FT)	0830	0	4.65	18.5	98	19.7	Tan, Opaque
8.8' from TOC							
TOTAL WELL DEPTH (TD)	0840	36.1	5.00	19.3	105	20.2	Lt. Tan, Translucent
19.29'							
WELL DIAMETER (INCHES)	0900	72.2	5.15	19.2	103	20.1	Tan, Opaque
4"							
CALCULATED WELL VOLUME	0912	110	5.20	19.3	108	20.5	V.Lt. Tan, Translucent
8.44 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
36.11 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
42 min							
AVERAGE FLOW (GPM)(B)							
2.6							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
110							
NOVA READING							
-							

Baker

Baker Environmental, Inc.

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Car. p

CTO NO.: 19133 WELL NO.: 6-GW-10

DATE: October 8, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0940							
TIME FINISH							
1023							
INITIAL WATER LEVEL (FT)	0940	0	5.23	20.7	122	21.9	Lt. Brown, Opaque
7.12' from TOC							
TOTAL WELL DEPTH (TD)	0952	35.9	5.35	20.5	103	21.5	Lt. Brown, Opaque
17.54'	1008	71.8	5.62	21.2	112	22.1	Md. Brown, Opaque
WELL DIAMETER (INCHES)	1023	110	5.57	21.1	109	22.1	Lt. Tan, Translucent
4"							
CALCULATED WELL VOLUME							
8.40 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
36.1 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
43 min							
AVERAGE FLOW (GPM)(B)							
2.56							
TOTAL ESTIMATED WITHDRAWAL AxB =							
110							
U/OVA READING							
-							
OBSERVATIONS/NOTES - After 55 gallons surged well 10 times							

Baker

Baker Environmental, Inc.

FIELD WEL

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp - ejeuric, re -

CTO NO.: 19133 WELL NO.: 6-GW-11

DATE: October 12, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1700							
TIME FINISH							
1757							
INITIAL WATER LEVEL (FT)	1700	0	6.26	26.3	202	27.9	Md. Brown, Opaque
17.8' from TOC							
TOTAL WELL DEPTH (TD)	1715	8.15	6.23	23.9	221	25.2	V. Lt. Brown, semi-translucent
18.3'	1737	16.3	6.17	23.4	219	25.1	Lt. Brown, semi-translucent
WELL DIAMETER (INCHES)	1757	25	6.35	26.5	239	27.8	V. Lt. Brn/Orange, Trans.
4"							
CALCULATED WELL VOLUME							
1.9 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
8.15 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
57 min							
AVERAGE FLOW (GPM)(B)							
.44							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
25 gal.							
PVA READING							
-							

Baker

Baker Environmental, Inc

FIELD WE CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp Lejeune, North Carolina Site 6

CTO NO.: 19133 WELL NO.: 6-GW-12

DATE: October 8, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1740							
TIME FINISH							
1855							
INITIAL WATER LEVEL (FT)	1740	0	6.24	21.8	118	23.0	Md. Brown, Opaque
5.74' from TOC							
TOTAL WELL DEPTH (TD)	1750	39.4	5.73	21.7	112	23.0	Dk. Brown, Opaque
18.0'							
WELL DIAMETER (INCHES)	1830	78.8	6.70	22.8	230	24.1	Md. Brown, Opaque
4"							
1855	1855	118	6.10	21.9	117	23.2	Lt. Brown, Translucent
CALCULATED WELL VOLUME							
9.2 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
39.4 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 15 min							
AVERAGE FLOW (GPM)(B)							
1.57							
TOTAL ESTIMATED WITHDRAWAL Ax(B) =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
118							
YOVA READING							
-							

Baker

Baker Environmental, Inc

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp Nguyen, ...

CTO NO.: 19133

WELL NO.: 6-GW-13

DATE: October 9, 1992

GEOLOGIST/ENGINEER: R. E. Bonelli

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0925							
TIME FINISH							
1047							
INITIAL WATER LEVEL (FT)	0925	0	6.91	21.8	175	22.0	Lt. Brown - Turbid
6.44' from TOC							
TOTAL WELL DEPTH (TD)	1000	37.0	6.85	22.6	310	23.0	Lt. Brown - Turbid
19.74'	1027	74.0	6.85	22.9	302	23.0	Lt. Brown - Slightly Turbid
WELL DIAMETER (INCHES)	1047	125	6.88	22.6	298	23.0	Lt. Gray - Clear
4"							
CALCULATED WELL VOLUME							
8.65 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
37.0 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 22 min.							
AVERAGE FLOW (GPM)(B)							
1.5							
TOTAL ESTIMATED WITHDRAWAL AxB =							
125							
NOVA READING							
-							
OBSERVATIONS/NOTES							
- After 55 gallons surged well 10 times							

FIELD WI

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc

PROJECT: MCB Camp - 19133

CTO NO.: 19133 WELL NO.: 6-GW-14

DATE: October 9, 1992

GEOLOGIST/ENGINEER: R.E. Bonelli

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1120							
TIME FINISH							
1156							
INITIAL WATER LEVEL (FT)							
10.91' from TOC	1120	0	6.93	22.6	285	24.0	Lt. Gray/Brown, Slightly Turbid
TOTAL WELL DEPTH (TD)							
22.0	1140	37.9	6.21	22.3	65	23.0	Lt. Gray/Brn., Slightly Turbid
WELL DIAMETER (INCHES)							
4"	1156	75.8	6.08	22.5	65	23.0	Lt. Brown, Slightly Turbid
CALCULATED WELL VOLUME							
8.9 gal.	1206	126	6.72	22.6	85	23.0	Lt. Brown/Gray
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
37.9 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
36 min							
AVERAGE FLOW (GPM)(B)							
3.5							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES						
126							
NOVA READING							
-	- After 55 gallons surged well 10 times						

FIELD WEL CLEJ-01272-3.13-08/20/93



PROJECT: MCB Camp
 CTO NO.: 19133 WELL NO.: 6-GW-15
 DATE: October 12, 1992
 GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1145							
TIME FINISH							
1255							
INITIAL WATER LEVEL (FT)	1145	0	6.70	26.9	695	27.0	Dk. Brown/Gray, V. Opaque
10.79' from TOC							
TOTAL WELL DEPTH (TD)	1200	32	6.77	24.4	650	26.0	Dk. Brown/Gray, V. Opaque Foam
19.7'							
WELL DIAMETER (INCHES)	1227	64	6.65	23.0	600	24.1	Dk. Brown/gray, Froth
4"							
WELL DIAMETER (INCHES)	1239	96	6.79	22.1	680	23.8	Dk. Brown/Gray, Froth
4"							
CALCULATED WELL VOLUME	1255	128	6.92	22.7	700	23.7	Dk Brown/Gray, Froth
7.5 gal.		165					Extra Volume, no Δ
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
32.0							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 10 min							
AVERAGE FLOW (GPM)(B)							
1.8							
TOTAL ESTIMATED WITHDRAWAL AXB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times - Little to no change during development appeared V. Opaque						
128 gal.							
PVA READING							
-							

FIELD WELL

CLEJ-01272-3.13-08/20/93



PROJECT: MCB Camp
 CTO NO.: 19133 WELL NO.: 6-GW-16
 DATE: October 12, 1992
 GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
15.25							
TIME FINISH							
1612							
INITIAL WATER LEVEL (FT)							
7.35' from TOC	1525	0	6.17	21.1	185	22.5	Lt. Brown/Gray, Opaque
TOTAL WELL DEPTH (TD)							
17.5	1538	35	5.14	21.7	165	22.8	V. Lt. Brn./Gray, semi-trans.
WELL DIAMETER (INCHES)							
4"	1557	70	5.55	22.4	175	23.2	Lt. Gray, semi-translucent
CALCULATED WELL VOLUME							
8.2 gal.	1612	110	5.13	22.2	158	23.2	Translucent
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
35.0 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
47 min.							
AVERAGE FLOW (GPM)(B)							
2.3	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
TOTAL ESTIMATED WITHDRAWAL AxB =							
110							
VA READING							
-							

Baker

Baker Environmental, Inc

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Car
CTO NO.: 19133 WELL NO.: 6-GW-17
DATE: October 10, 1992
GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0814							
TIME FINISH							
0850							
INITIAL WATER LEVEL (FT)	0814	0	4.75	18.2	153	19.1	Lt. Tan, Opaque
8.34' from TOC							
TOTAL WELL DEPTH (TD)	0820	42.5	4.75	18.7	101	19.8	V. Lt. Tan, Opaque
20.25'							
WELL DIAMETER (INCHES)	0833	85	4.25	19.1	97	20.2	Lt. Tan, Opaque
4"							
CALCULATED WELL VOLUME	0850	128	4.55	20.2	151	20.9	V. Lt. Brown, Translucent
9.62 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
42.5 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
36 min							
AVERAGE FLOW (GPM)(B)							
3.5							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
128							
NOVA READING							

Baker

Baker Environmental, Inc

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp Lejeune, NC - R115 - Site 6

CTO NO.: 19133

WELL NO.: 6-GW-18

DATE: October 10, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0914							
TIME FINISH							
0945							
INITIAL WATER LEVEL (FT)	0914	0	5.63	20.6	52	21.5	Md. Brown, Opaque
8.34' from TOC							
TOTAL WELL DEPTH (TD)	0923	41.1	5.20	20.7	48	21.6	Lt. Brown, semi-translucent
20.2'	0932	82.2	5.06	20.7	38	21.8	Lt. Brown, Opaque
WELL DIAMETER (INCHES)	0945	123	5.11	20.8	39	21.9	Lt. Tan
4"							
CALCULATED WELL VOLUME							
9.6 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25							
BOREHOLE VOLUME							
41.1 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
36 min.							
AVERAGE FLOW (GPM)(B)							
3.42							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
123							
VOVA READING							
-							

Baker

Baker Environmental, Inc.

FIELD WE CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp Lejeune, NC - 12115 - 0100

CTO NO.: 19133 WELL NO.: 6-GW-19

DATE: October 10, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1005							
TIME FINISH							
1055							
INITIAL WATER LEVEL (FT)	1005	0	5.40	22.4	97	23.1	Dk. Brown, Opaque
6.74' from TOC							
TOTAL WELL DEPTH (TD)	1015	43	5.17	21.2	61	22.3	Md. Brown, Opaque
19.7'							
WELL DIAMETER (INCHES)	1038	86	4.86	22.1	80	23.1	Md. Brown, Opaque
4"							
CALCULATED WELL VOLUME	1055	130	4.76	21.1	71	22.2	Lt. Brown, Translucent
10.0 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
43.0 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
50 min.							
AVERAGE FLOW (GPM)(B)							
2.6							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
130 gal.							
U/OVA READING							
-							

FIELD WE

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc

PROJECT: MCB Camp Lejeune, NC

CTO NO.: 19133

WELL NO.: 6-GW-20

DATE: October 10, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock / P.A. Monday

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
TIME FINISH 1716							
INITIAL WATER LEVEL (FT) 5.52' from TOC	1230	0	-	-	-	-	-
TOTAL WELL DEPTH (TD) 19.25'	1250	44.1	5.20	22.5	112	24.0	= Semi-translucent
WELL DIAMETER (INCHES) 4"	1700	88.2	4.75	21.4	89	22.4	Lt. Gray, Translucent
	1716	133	4.60	21.0	89	22.1	Lt. Gray, Translucent
CALCULATED WELL VOLUME 10.32 gal.							
BOREHOLE DIAMETER (INCHES) 8.25"							
BOREHOLE VOLUME 44.1 gal.							
AMOUNT OF WATER ADDED DURING DRILLING -							
DEVELOPMENT METHOD Pump - Surge							
PUMP TYPE Centrifugal							
TOTAL TIME (A) -							
AVERAGE FLOW (GPM)(B) -							
TOTAL ESTIMATED WITHDRAWAL AxB = 133 gal.	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times - Pump was replaced after 1st volume due to failure						
NOVA READING -							

FIELD WEL

CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc.

PROJECT: MCB Camp - Lejeune, NC

CTO NO.: 19133 WELL NO.: 6-GW-21

DATE: October 10, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1745							
TIME FINISH							
1820							
INITIAL WATER LEVEL (FT)							
12.94' from TOC	1745	0	5.57	22.1	58	23.0	Md. Brown, Opaque
TOTAL WELL DEPTH (TD)							
23.4'	1755	36.1	5.33	21.3	59	22.2	Lt. Tan, Translucent
WELL DIAMETER (INCHES)							
4"	1808	72.2	4.35	19.7	53	20.9	Md. Brown, Translucent
CALCULATED WELL VOLUME							
8.4 gal.	1820	110	4.37	19.7	58	20.8	Lt. Tan, Translucent
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
36.1 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
35 min							
AVERAGE FLOW (GPM)(B)							
3.1	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
TOTAL ESTIMATED WITHDRAWAL AxB =							
110							
PIVA READING							
-							

Baker

Baker Environmental, Inc.

FIELD WEL

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp

CTO NO.: 19133 WELL NO.: 6-GW-22

DATE: October 13, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0810							
TIME FINISH							
0907							
INITIAL WATER LEVEL (FT)	0810	0	5.78	17.6	177	18.5	Md. Brown/Gray, Opaque
5.38' from TOC							
TOTAL WELL DEPTH (TD)	0830	36.7	5.51	23.4	177	23.9	Md. Brown, Opaque
19.5'	0855	73.4	5.50	23.1	152	23.5	Lt. Brown, Opaque
WELL DIAMETER (INCHES)	0907	110	5.39	21.7	172	22.0	Lt. Brown, Opaque
4"							
CALCULATED WELL VOLUME		165					Extra Volume, Translucent
8.57 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
36.7 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
57 min							
AVERAGE FLOW (GPM)(B)							
1.9							
TOTAL ESTIMATED WITHDRAWAL AXB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
110							
PVA READING							
-							

Baker

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FIELD WEL

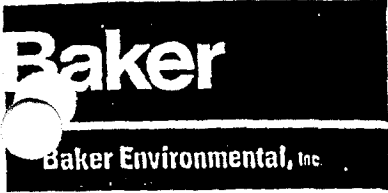
CLEJ-01272-3.13-08/20/93

PROJECT: MCB CampCTO NO.: 19133WELL NO.: 6-GW-23DATE: October 13, 1992GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0945							
TIME FINISH							
1025							
INITIAL WATER LEVEL (FT)							
7.07' from TOC	0945	0	5.94	24.6	170	25.1	V. Lt. Tan, semi-translucent
TOTAL WELL DEPTH (TD)							
22.5'	0958	49.3	5.58	23.2	108	23.8	V. Lt. Tan, semi-translucent
WELL DIAMETER (INCHES)							
4"	1011	98.6	5.50	23.3	101	24.1	V. Lt. Tan, Translucent
CALCULATED WELL VOLUME							
11.5 gal.	1025	148	5.57	23.0	100	24.5	Clear
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
49.3 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
40 min							
AVERAGE FLOW (GPM)(B)							
3.7	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
TOTAL ESTIMATED WITHDRAWAL AxB =							
148							
PVA READING							
-							

FIELD WEL

CLEJ-01272-3.13-08/20/93



PROJECT: MCB Camp

CTO NO.: 19133

WELL NO.: 6-GW-25

DATE: October 11, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0800							
TIME FINISH							
0912							
INITIAL WATER LEVEL (FT)	0800	0	6.11	17.0	118	18.0	Lt. Brown, Opaque
11.56' from TOC							
TOTAL WELL DEPTH (TD)	0815	38.25	5.50	19.6	81	20.9	V.Lt. Brown, Translucent
23.5'							
WELL DIAMETER (INCHES)	0845	76.5	5.28	21.0	68	21.1	Lt. Tan, Translucent
4"							
CALCULATED WELL VOLUME	0912	115	5.22	21.4	63	22.6	Clear
8.94 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
38.25 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 12 min.							
AVERAGE FLOW (GPM)(B)							
1.6							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
115							
OVA READING							
-							

FIELD WEL CLEJ-01272-3.13-08/20/93



PROJECT: MCB Camp - Jenkins, VA
 CTO NO.: 19133 WELL NO.: 6-GW-26
 DATE: October 11, 1992
 GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1155							
TIME FINISH							
1320							
INITIAL WATER LEVEL (FT)							
9.94 from TOC	1155	0	6.21	28.7	208	28.2	Orange/Brown, Opaque
TOTAL WELL DEPTH (TD)							
19.5	1212	35.3	5.89	24.1	239	25.3	Orange/Brown, Opaque
WELL DIAMETER (INCHES)							
4"	1232	70.6	6.04	22.3	259	23.8	Md. Brown, Opaque
CALCULATED WELL VOLUME							
8.3 gal.	1250	105.9	6.10	23.6	248	24.9	Md. Orange, semi-translucent
BOREHOLE DIAMETER (INCHES)							
8.25"	1305	141.2	6.00	22.6	240	23.0	Md. Orange, semi-translucent
BOREHOLE VOLUME							
35.3 gal.	1320	176.5	6.02	22.8	245	24.9	Orange tint, Translucent
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 25 min.							
AVERAGE FLOW (GPM)(B)							
2.07	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
TOTAL ESTIMATED WITHDRAWAL AxB =							
176.5							
DVA READING							
-							



FIELD WEL

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Cam

CTO NO.: 19133

WELL NO.: 6-GW-285

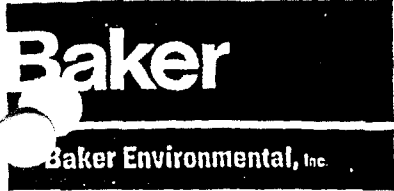
DATE: October 11, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0955							
TIME FINISH							
1110							
INITIAL WATER LEVEL (FT)							
21.34' from TOC	0955	0	6.34	20.1	181	21.0	Lt. Tan, semi-translucent
TOTAL WELL DEPTH (TD)							
31.48'	1007	35.6	6.05	21.6	159	23.0	Lt. Brown
WELL DIAMETER (INCHES)							
4"	1050	71.2	6.02	22.5	148	23.0	Lt. Brown
CALCULATED WELL VOLUME							
8.32 gal.	1110	110	5.95	21.2	144	21.8	Lt. Tan, Translucent
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
35.6 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 15 min.							
AVERAGE FLOW (GPM)(B)							
1.5	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
TOTAL ESTIMATED WITHDRAWAL AxB =							
110							
PVA READING							
-							

FIELD WEL

CLEJ-01272-3.13-08/20/93



PROJECT: MCB Cam

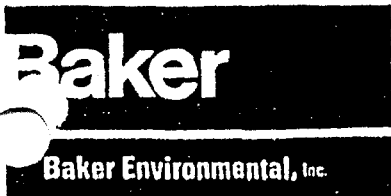
CTO NO.: 19133

WELL NO.: 6-GW-30

DATE: October 12, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1012							
TIME FINISH 1107							
INITIAL WATER LEVEL (FT) 5.53' from TOC	1012	0	6.76	19.8	204	21.1	Dk. Gray, Opaque
TOTAL WELL DEPTH (TD) 19.37'	1030	45.7	6.08	21.7	146	23.2	Lt. Gray, Opaque
WELL DIAMETER (INCHES) 4"	1048	91.4	5.96	21.7	126	23.7	Md.-Lt. Gray, Opaque
CALCULATED WELL VOLUME 10.7 gal.	1107	137.1	5.88	22.7	125	24.2	Lt. Gray, semi-translucent
BOREHOLE DIAMETER (INCHES) 8.25"							
BOREHOLE VOLUME 45.7 gal.							
AMOUNT OF WATER ADDED DURING DRILLING -							
DEVELOPMENT METHOD Pump - Surge							
PUMP TYPE Centrifugal							
TOTAL TIME (A) 55 min.							
AVERAGE FLOW (GPM)(B) 2.5							
TOTAL ESTIMATED WITHDRAWAL AxB = 137	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
PVA READING -							



FIELD WELL DEVELOPMENT RECORD

PROJECT: Camp Lejeune RI/FS
 CTO NO.: 1933 WELL NO.: G-GW31
 DATE: 3/2/93
 GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (uohms)	TEMP (°C)	COLOR AND TURBIDITY
1640							
TIME FINISH							
1740							
WATER LEVEL (FT)							
12.5	1640	0	8.40	16.4	375	16.0	very cloudy / brown
TOTAL WELL DEPTH (TD)							
27.4	1707	35	9.03	17.4	275	16.5	very cloudy / brown
WELL DIAMETER (INCHES)							
4"	1725	70	9.03	17.1	300	16.5	cloudy / lite brown
CALCULATED WELL VOLUME							
35 gallons	1740	105	7.50	17.1	300	16.5	cloudy / lite brown
BOREHOLE VOLUME							
105 gallons							
DEVELOPMENT METHOD							
Air Lift							
PUMP TYPE							
Compressor							
TOTAL TIME (A)							
1 hour							
AVERAGE FLOW (GPM)(B)							
10.5 1.75							
TOTAL ESTIMATED WITHDRAWAL AxB = 105 gallons							
MIN/OVA READING No elevated readings							

OBSERVATIONS/NOTES

Development satisfied criteria for pH, specific conductivity and temperature. An adequate volume of water was removed.

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FIELD WELL DEVELOPMENT RECORD

PROJECT: Camp Lejeune RI/FS
 CTO NO.: 19133 WELL NO.: 6-GW32
 DATE: 3-8-93
 GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START 1440	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (uohms)	TEMP (°C)	COLOR AND TURBIDITY
TIME FINISH 1520							
WATER LEVEL (FT) 15.0	1440	0	7.15	22.1	310	22	Brown / very cloudy
TOTAL WELL DEPTH (TD) 29.1	1448	10.0	7.54	20.5	350	20	Brown / very cloudy
WELL DIAMETER (INCHES) 2"	1456	20.0	7.54	18.9	330	19	Brown / very cloudy
CALCULATED WELL VOLUME	1504	30.0	7.77	18.7	320	18	Brown / very cloudy
BOREHOLE VOLUME 2(3) 27.6 gal	1512	40.0	7.65	19	320	18	Brown / very cloudy
DEVELOPMENT METHOD lift Air lift	1520	50.0	7.50	19	320	19	Brown / very cloudy
PUMP TYPE Hand Surging							
TOTAL TIME (A) 40 min							
AVERAGE FLOW (GPM)(B) 1.25 gpm							
TOTAL ESTIMATED WITHDRAWAL Ax B = 50 gallons							
HNU/DVA READING No elevated readings							

OBSERVATIONS/NOTES

Development satisfied criteria for pH, specific conductivity and temperature. An adequate volume of water was removed. No level "c" protection was needed due to non-elevated HNU background readings. Background readings were .8 ppm



FIELD WELL DEVELOPMENT RECORD

PROJECT: Camp Lejeune RI/FS
 CTO NO.: 19133 WELL NO.: 6-GW33
 DATE: 3-7-93
 GEOLOGIST/ENGINEER: J. E. Zimmerman

TIME START 1600	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (uohms)	TEMP (°C)	COLOR AND TURBIDITY
TIME FINISH 1700							
WATER LEVEL (FT) 8.17	1600	0	5.12	15.5	50	16	lite Brown / little cloudy
TOTAL WELL DEPTH (TD) 24.2	1617	12.5	5.16	14.9	50	16	Grey / very cloudy
WELL DIAMETER (INCHES) 2"	1630	25.0	5.19	14.9	60	16	Grey / very cloudy
CALCULATED WELL VOLUME	1647	37.5	5.12	14.6	60	16	Grey / very cloudy
BOREHOLE VOLUME 10.4(3) 31.4 gal	1700	50.0	5.12	14.8	60	16	Grey / very cloudy
DEVELOPMENT METHOD lift Air lift							
PUMP TYPE Hand surging							
TOTAL TIME (A) 1 hr							
AVERAGE FLOW (GPM)(B) .8 gpm							
TOTAL ESTIMATED WITHDRAWAL Ax B = 50 gallons							
HNU/OVA READING No elevated readings							

OBSERVATIONS/NOTES

Development satisfied criteria for pH, specific conductivity and temperature. An adequate volume of water was removed. No level "C" protection was needed due to non-elevated HNu background readings. Background readings were .4 ppm.

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CLEJ-01272-3.13-08/20/93

FIELD WELL _____

PROJECT: Camp Lejeune RI/FS
CTO NO.: 19133 WELL NO.: 6-GW-34
DATE: 3-7-93
GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (uohms)	TEMP (°C)	COLOR AND TURBIDITY
1417							
TIME FINISH							
1525							
WATER LEVEL (FT)							
17.85	1417	0	5.50	18	100	17	Brown/very cloudy
TOTAL WELL DEPTH (TD)							
37.3	1432	12.5	5.36	18	100	17	Brown/very cloudy
WELL DIAMETER (INCHES)							
2"	1447	25.0	5.25	17.7	100	17	Brown/very cloudy
CALCULATED WELL VOLUME							
—	1503	37.5	5.22	17.8	100	17	Brown/very cloudy
BOREHOLE VOLUME							
12.6(3) 38 gal	1525	50.0	5.21	17.6	100	17	Brown/very cloudy
DEVELOPMENT METHOD							
test Air lift							
PUMP TYPE							
Centrifugal/hand surging							
TOTAL TIME (A)							
1 hr 8 min							
AVERAGE FLOW (GPM)(B)							
.8 gpm							
TOTAL ESTIMATED WITHDRAWAL							
AxB = 50 gallons							
HNUNOVA READING							
No elevated readings							

OBSERVATIONS/NOTES

Development satisfied criteria for pH, specific conductivity and temperature. An adequate volume of water was removed. No level "c" protection was needed due to non-elevated HNU back-ground readings. Background readings were .6 ppm

Baker

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FIELD WELL DEVELOPMENT RECORD

PROJECT: Camp Lejeune RI/FS
 CTO NO.: 19133 WELL NO.: 6-GWIDA
 DATE: 4-19-93
 GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (uohms)	TEMP (°C)	COLOR AND TURBIDITY
1400							
TIME FINISH							
1700							
WATER LEVEL (FT)							
55.66	1410	2.0	9.66	20.2	550	20.0	Brown / very silty
TOTAL WELL DEPTH (TD)							
230.0	1428	15.0	9.52	20.0	550	20.0	Brown / very silty
WELL DIAMETER (INCHES)							
2.0	1443	25.0	9.28	21.0	500	21.0	Brown / very silty
CALCULATED WELL VOLUME							
$174.34 \times .163 = 28.41$	1600	40.0	9.11	21.8	500	21.0	Brown / very silty
BOREHOLE VOLUME							
-NA-	1700	50.0	9.20	21.5	500	21.0	Brown / very silty
DEVELOPMENT METHOD							
Air Lift							
PUMP TYPE							
Air Compressor							
TOTAL TIME (A)							
3 hrs							
AVERAGE FLOW (GPM)(B)							
.27 (gpm)							
TOTAL ESTIMATED WITHDRAWAL							
$A \times B = 50.0$							
HNU/OVA READING							
Background 1.0 ppm							

OBSERVATIONS/NOTES

Criteria satisfied for well development (pH, conductivity and temperature). An adequate volume of water was removed. Point source * HNU was drummed development water (.9ppm)

G.2

Sites 6 and 82 - Deep Wells

Baker

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FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB C.

CTO NO.: 19133

WELL NO.: 6-GW-1D

DATE: October 21, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1505							
TIME FINISH							
1645							
INITIAL WATER LEVEL (FT)	1505	0	9.07	19.4	-	-	Gray/Brown, Opaque
23.82' from TOC							
TOTAL WELL DEPTH (TD)	1530	60.5	8.03	20.0	550	21.1	Gray/Brown, Opaque
112.5'	1545	121	8.10	18.5	595	20.0	Med. Brown
WELL DIAMETER (INCHES)	1620	242	8.02	18.2	-	-	Lt. Brown, ^{semi-} translucent
4"							
CALCULATED WELL VOLUME	1645	387	-	-	-	-	Translucent/Clear
56.6 gal.							
BOREHOLE DIAMETER (INCHES)							
11"							
BOREHOLE VOLUME							
112.2 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Compressed Air w/ Filtering System							
PUMP TYPE							
-							
TOTAL TIME (A)							
1 hr. 40 min.							
AVERAGE FLOW (GPM)(B)							
3.87							
TOTAL ESTIMATED WITHDRAWAL AXB =							
387.2							
VOVA READING							
	OBSERVATIONS/NOTES * Heavy organic/chemical odor encountered during development. * After 165 gallons surged well 10 times						

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Baker Environmental, Inc

FIELD WELL

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Co

CTO NO.: 19133

WELL NO.: 6-GW-2D

DATE: October 23, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1358							
TIME FINISH							
1455							
INITIAL WATER LEVEL (FT)	1358	0	10.74	18.3	293	19.1	Brown/Gray, Opaque
21.86' from TOC							
TOTAL WELL DEPTH (TD)	1415	133	8.46	17.9	221	19.2	Lt. Gray, semi-translucent
119.0	1455	266	8.19	18.3	241	19.8	V. Lt. Gray/Tan, Clear
WELL DIAMETER (INCHES)							
4"							
CALCULATED WELL VOLUME							
62.4 gal.							
BOREHOLE DIAMETER (INCHES)							
11"							
BOREHOLE VOLUME							
122.7 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Compressed Air w/ Filtering System							
PUMP TYPE							
-							
TOTAL TIME (A)							
57 min.							
AVERAGE FLOW (GPM)(B)							
4.67							
TOTAL ESTIMATED WITHDRAWAL Ax B =	OBSERVATIONS/NOTES						
266 gal.							
NOVA READING	* After 185 gallons surged well 10 times						

FIELD WE CLEJ-01272-3.13-08/20/93

Baker

Baker Environmental, Inc

PROJECT: MCB Camp

CTO NO.: 19133 WELL NO.: 6-GW-70

DATE: October 21, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0830							
TIME FINISH							
1000							
INITIAL WATER LEVEL (FT)	0830	0	8.27	16.6	194	17.5	Lt. Gray, translucent
10.19' from TOC							
TOTAL WELL DEPTH (TD)	0840	60.2	8.35	17.2	302	17.9	Brown/Gray, Opaque
100.5'	0903	120.3	8.37	17.4	302	18.2	Lt. Gray, semi-trans.
WELL DIAMETER (INCHES)	0943	240.6	8.20	18.0	291	18.1	V. Lt. Gray, semi-trans
4"	1000	330.8	8.20	17.9	285	19.2	V. Lt. Gray, Translucent
CALCULATED WELL VOLUME							
56.3 gal.							
BOREHOLE DIAMETER (INCHES)							
11"							
BOREHOLE VOLUME							
116.2 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Compressed Air w/ Filtering System							
PUMP TYPE							
-							
TOTAL TIME (A)							
1 hr. 30 min.							
AVERAGE FLOW (GPM)(B)							
3.7							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES * After 145 gallons surged well 10 times						
331							
VOVA READING							
-							

Baker

Baker Environmental, Inc.

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB CCTO NO.: 19133WELL NO.: 6-GW-28DDATE: October 23, 1992GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0915							
TIME FINISH							
1055							
INITIAL WATER LEVEL (FT)	0915	0	6.74	16.6	148	17.2	Translucent
20.97' from TOC							
TOTAL WELL DEPTH (TD)	1015	134.25	8.04	16.4	229	17.9	Brown/gray, semi-translucent
114.5							
WELL DIAMETER (INCHES)	1055	268.5	8.14	16.4	258	17.8	Translucent
4"		330					
CALCULATED WELL VOLUME							
62.77 gal.							
BOREHOLE DIAMETER (INCHES)							
11"							
BOREHOLE VOLUME							
129.1 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Compressed Air w/ Filtering System							
PUMP TYPE							
-							
TOTAL TIME (A)							
1 hr. 10 min							
AVERAGE FLOW (GPM)(B)							
4.7							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES * After 165 gallons surged well 10 times						
330							
NOVA READING							
45-60 ppm							

FIELD WE

CLEJ-01272-3.13-08/20/93

Baker

PROJECT: MCB C.

CTO NO.: 19133

WELL NO.: 6-GW-27D

Baker Environmental, Inc

DATE: October 22, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
TIME FINISH	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1145							
1420							
INITIAL WATER LEVEL (FT) 16.21' from TOC	1145	0	8.17	17.7	-	-	Brown/Gray, Opaque
TOTAL WELL DEPTH (TD) 110'	1400	258.8	7.88	17.8	-	-	V. Lt. Gray, semi-translucent
WELL DIAMETER (INCHES) 4"	1420	385.6	7.72	17.5	-	-	V. Lt. Gray, translucent
CALCULATED WELL VOLUME 60.5 gal.							
BOREHOLE DIAMETER (INCHES) 11"							
BOREHOLE VOLUME 116.1 gal.							
AMOUNT OF WATER ADDED DURING DRILLING -							
DEVELOPMENT METHOD Compressed Air w/ Filtering System							
PUMP TYPE -							
TOTAL TIME (A) 2 hr. 35 min.							
AVERAGE FLOW (GPM)(B) 2.48							
TOTAL ESTIMATED WITHDRAWAL AxB = 385	OBSERVATIONS/NOTES * After 165 gallons surged well 10 times. * Conductivity meter was inoperable * Development was performed using Level-C health and safety protection, due to suspected contamination						
HNU/OVA READING							

G.3
Site 9 - Wells

Baker

Baker Environmental, Inc

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp

CTO NO.: 19133 WELL NO.: 9-GW-4

DATE: October 6, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1545							
TIME FINISH							
1700							
INITIAL WATER LEVEL (FT)	1545	0	4.97	20.4	200	21.0	Lt. Brown/white, Opaque
8.76' from TOC							
TOTAL WELL DEPTH (TD)	1605	38	4.47	20.6	158	21.0	Lt. Brown/white, Opaque
20.18'	1640	76	4.72	20.2	160	21.0	Semi-Translucent
WELL DIAMETER (INCHES)	1700	115	-	-	-	-	Semi-Translucent
4"							
CALCULATED WELL VOLUME							
8.96 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
38.1 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 15 min							
AVERAGE FLOW (GPM)(B)							
2.09							
TOTAL ESTIMATED WITHDRAWAL AxB =							
115 gal.							
VOVA READING							
-							
OBSERVATIONS/NOTES - After 55 gallons surged well 10 times - Initial pump setting caused well to run dry. Flow rate adjustment made.							

Baker

Baker Environmental, Inc

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Can. -

CTO NO.: 19133 WELL NO.: 9-GW-5

DATE: October 7, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0925							
TIME FINISH							
1022							
INITIAL WATER LEVEL (FT)							
10.19' from TOC	0925	0	6.49	23.2	303	25.0	Dk. Brown/Gray, Opaque
TOTAL WELL DEPTH (TD)							
18.41'	0945	31	6.44	23.2	302	25.0	V.Lt. Brown, Translucent
WELL DIAMETER (INCHES)							
4"	1005	62	6.39	25.4	312	26.1	Lt. Brown, Translucent
CALCULATED WELL VOLUME							
7.16 gal.	1022	110	6.45	26.7	339	28.0	Clear
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
30.4 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
57 min.							
AVERAGE FLOW (GPM)(B)							
1.93							
TOTAL ESTIMATED WITHDRAWAL AXB =							
110							
VOVA READING							
-							
OBSERVATIONS/NOTES - After 55 gallons surged well 10 times							

Baker

Baker Environmental, Inc

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Can

CTO NO.: 19133

WELL NO.: 9-GW-6

DATE: October 7, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
0803							
0900							
INITIAL WATER LEVEL (FT) 10.14' from TOC	0803	0	6.88	21.4	258	22.5	Dk. Brown, Opaque
TOTAL WELL DEPTH (TD) 19.5'	0812	33	6.45	20.6	191	22.7	Md. Brown, Opaque
WELL DIAMETER (INCHES) 4"	0830	66	6.81	22.7	219	24.1	Dk. Brown, Opaque
CALCULATED WELL VOLUME 7.74 gal.	0900	110	6.89	25.0	261	26.5	Lt. Brown, Translucent
BOREHOLE DIAMETER (INCHES) 8.25"							
BOREHOLE VOLUME 32.9 gal.							
AMOUNT OF WATER ADDED DURING DRILLING -							
DEVELOPMENT METHOD Pump - Surge							
PUMP TYPE Centrifugal							
TOTAL TIME (A) 57 min							
AVERAGE FLOW (GPM)(B) 1.9							
TOTAL ESTIMATED WITHDRAWAL AxB = 110 gal.	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
VOVA READING -							

Baker

Baker Environmental, Inc.

FIELD WE CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp - Lejeune, NC

CTO NO.: 19133 WELL NO.: 9-GW-7S

DATE: October 7, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1100							
TIME FINISH							
1237							
INITIAL WATER LEVEL (FT)	1100	0	6.47	29.0	142	28.5	Lt. Brown, Opaque
11.14' from TOC							
TOTAL WELL DEPTH (TD)	1132	35	6.17	27.1	132	28.5	V.Lt. Brown, Translucent
21.19'	1225	70	5.86	24.2	120	25.0	Lt. Brown, Translucent
WELL DIAMETER (INCHES)	1237	110	5.84	23.0	122	24.0	V.Lt., Clear
4"							
CALCULATED WELL VOLUME							
8.2 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
34.9							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
1 hr. 37 min.							
AVERAGE FLOW (GPM)(B)							
1.15							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES - After 55 gallons surged well 10 times						
110 gal.							
µ/OVA READING							
-							



FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB C...

CTO NO.: 19133 WELL NO.: 9-GW-7D

DATE: October 20, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1510							
TIME FINISH							
1645							
INITIAL WATER LEVEL (FT)	1510	0	11.75	19.0	108	20.1	Translucent
15.24' from TOC							
TOTAL WELL DEPTH (TD)	1530	134.5	8.30	19.3	323	20.2	V.Lt. Brown, translucent
110'	1615	269.5	8.54	19.4	339	20.7	V.Lt. Brown, translucent
WELL DIAMETER (INCHES)	1645	323	8.25	19.1	340	20.3	Clear
4"							
CALCULATED WELL VOLUME							
63 gal.							
BOREHOLE DIAMETER (INCHES)							
11"							
BOREHOLE VOLUME							
101.5 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Compressed Air w/ Filtering System							
PUMP TYPE							
-							
TOTAL TIME (A)							
1 hr. 35 min							
AVERAGE FLOW (GPM)(B)							
3.4							
TOTAL ESTIMATED WITHDRAWAL AxB =	OBSERVATIONS/NOTES						
323 gal.							
NOVA READING							
-	* After 165 gallons surged well 10 times						

Baker

Baker Environmental, Inc

FIELD WE

CLEJ-01272-3.13-08/20/93

PROJECT: MCB Camp

CTO NO.: 19133 WELL NO.: 9-GW-8

DATE: October 6, 1992

GEOLOGIST/ENGINEER: T. F. Trebilcock

TIME START	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (µmhos/cm)	TEMP (°C)	COLOR AND TURBIDITY
1740							
TIME FINISH							
1816							
INITIAL WATER LEVEL (FT)	1740	0	5.7	22.1	99	22	Lt. Brown, Opaque
7.72' from TOC							
TOTAL WELL DEPTH (TD)	1750	36.75	5.41	22	107	22.8	Lt. Brown, Opaque
18.42'	1802	74	5.94	21.9	110	22.1	Lt. Brown, Opaque
WELL DIAMETER (INCHES)	1816	110	5.74	21.1	112	22	Translucent
4"							
CALCULATED WELL VOLUME							
8.63 gal.							
BOREHOLE DIAMETER (INCHES)							
8.25"							
BOREHOLE VOLUME							
36.75 gal.							
AMOUNT OF WATER ADDED DURING DRILLING							
-							
DEVELOPMENT METHOD							
Pump - Surge							
PUMP TYPE							
Centrifugal							
TOTAL TIME (A)							
36 min							
AVERAGE FLOW (GPM)(B)							
* 2.2 to 3.4							
TOTAL ESTIMATED WITHDRAWAL AxB =							
110 gal							
NOVA READING							
-							
OBSERVATIONS/NOTES - After 55 gallons surged well 10 times * Flow rate fluctuated							

Baker

Baker Environmental, Inc.

FIELD WELL DEVELOPMENT RECORD

PROJECT: Camp Lejeune RI/FS
 CTO NO.: 19133 WELL NO.: 6-GW15D
 DATE: 4-19-93
 GEOLOGIST/ENGINEER: J. E. Zimmerman

TIME START 0900	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (uohms)	TEMP (°C)	COLOR AND TURBIDITY
TIME FINISH 1159							
WATER LEVEL (FT) 12.2	0904	2.0	9.44	18.2	300	18.0	Brown/Very Silty
TOTAL WELL DEPTH (TD) 155.0	0927	15.0	5.91	16.0	700	16.0	Brown/Very Silty
WELL DIAMETER (INCHES) 2.0	1110	17.0	10.0	16.0	500	16.0	Brown/Very Silty
	1140	18.0	10.1	16.0	500	16.0	Brown/Very Silty
CALCULATED WELL VOLUME 142.8 x .163 = 23.27	1159	18.5	10.0	16.0	500	16.0	Brown/Very Silty
BOREHOLE VOLUME -NA-							
DEVELOPMENT METHOD Air Lift							
PUMP TYPE Air Compressor							
TOTAL TIME (A) 2 hr 59 min							
AVERAGE FLOW (GPM)(B) .1 (GPM)							
TOTAL ESTIMATED WITHDRAWAL AxB = 18.5 gallons							
HNU/OVA READING Background .6 ppm							

OBSERVATIONS/NOTES

Criteria satisfied for well development (pH, conductivity and temperature). An adequate volume of water was removed. Point source *HNU was drummed development water (1.3 ppm).

Baker

Baker Environmental, Inc.

FIELD WELL DEVELOPMENT RECORD

PROJECT: Camp Lejeune RI/FS
 CTO NO.: 19/33 WELL NO.: 6-GW300
 DATE: 3-8-93
 GEOLOGIST/ENGINEER: J.E. Zimmerman

TIME START 0820	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (uohms)	TEMP (°C)	COLOR AND TURBIDITY
TIME FINISH 1213							
WATER LEVEL (FT) 1.5	0820	0	11.80	14.1	200	14	lite Brown / little silty
TOTAL WELL DEPTH (TD) .102	0955	25.0	9.33	21.8	200	21	lite Brown / little silty
WELL DIAMETER (INCHES) 2"	1130	40.0	9.28	22	220	21	clear / very little silt
	1213	45.0	9.30	21.6	210	21	clear / very little silt
CALCULATED WELL VOLUME —							
BOREHOLE VOLUME 8.5(3) 205.6 gal							
DEVELOPMENT METHOD Test Air lift							
PUMP TYPE air compressor							
TOTAL TIME (A) 3 hr 57 min							
AVERAGE FLOW (GPM)(B) .18 gpm							
TOTAL ESTIMATED WITHDRAWL Ax B = 45 gallons							
HNU/QVA READING No elevated readings							

OBSERVATIONS/NOTES

Development satisfied criteria for pH, specific conductivity and temperature. An adequate volume of water was removed. No level "c" protection was needed due to non-elevated HNU background readings. Background readings ranged from 1.6 to 2.2 ppm.

Baker

Baker Environmental, Inc.

FIELD WELL DEVELOPMENT RECORD

PROJECT: Landdiv Clean Program
 CTO NO.: 0133 WELL NO.: 6-GW-35
 DATE: 3-16-93
 GEOLOGIST/ENGINEER: Ted L. Paray

TIME START 9:30	DEVELOPMENT DATA						
	TIME	CUMULATIVE VOLUME (gallons)	pH	TEMP (°C)	SPEC. COND. (uohms)	TEMP (°C)	COLOR AND TURBIDITY
TIME FINISH 11:10							
WATER LEVEL (FT) 5' 10"							
TOTAL WELL DEPTH (TD) 109.0"	9:35	15	11.43	15.1	435	15.0	Grey & Turbid
WELL DIAMETER (INCHES) 2 inches	9:40	20	12.7	15.2	2600	17.0	Milky white
CALCULATED WELL VOLUME	9:50	25	12.47	16.5	2800	17.0	Milky white
BOREHOLE VOLUME 485 gallons	10:05	30	12.48	16.4	1980	17.8	Slight milky white
DEVELOPMENT METHOD Air Purge	10:20	32	12.46	16.8	1850	19.0	Slightly milky white
PUMP TYPE Air	10:40	34	12.50	16.9	1850	18.0	Very slight milky
TOTAL TIME (A)	11:00	35	12.26	18.6	1330	19.5	" " "
AVERAGE FLOW (GPM)(B)	11:10	36	12.10	17.5	1350	18.0	" " "
TOTAL ESTIMATED WITHDRAWAL AxB =							
HNU/DVA READING 1.0 ppm = BG							

OBSERVATIONS/NOTES

Well has slow recovery

Appendix H
Drum Logs

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KEN MARTIN Sampler PAM KJM TTT
 Weather OVERCAST 70°F Date 11/5/92 Time 1020

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T			X					X	1"
M	X					X	X		1"
B	X					X			4"

pH 6 PID 0.5 ppm
 Rad Meter 0.01 mr/hr
 Other FID = 1 PPM LEL/O2 = 39

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: NO LABEL INFO

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A-Air W-Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X		X			X			S	-	6	I	-	-	-	-	-	7180°F
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE TOP LAYER SAMPLES

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer 1708/KJM Compatibility Comp. Bulk No. 6-305

Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFT
 Weather OVERCAST 70°F Date 11/5/92 Time 10:32

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			12
M	X					X	X		12
B	X			X	BR		X		12

pH ~~7.7~~ 7.7 PID 0.5 ppm
 Rad Meter 0.01 mr/hr
 Other FID = 1 PPM LCL/O2 = BG
 MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: MISSING LARGE BUNG UNKNOWN

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A-Air W-Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X				BR	X		X	S	-	6	I	-	-	-	-	-	780
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE FROM LAYERS SINGLE

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-302

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager * RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFI
 Weather OVERCAST 70°F Date 11/5/92 Time 1036

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X					X			3
M	X					X			3
B	X			X	BR			X	1

pH _____ PID 0.5 ppm
 Rad Meter 0.02 mr/hr
 Other FID = 1PPM LEL/O2 = 36
 MFG Name DREW CHEMICAL CORP.
 Chemical Name UNKNOWN

Additional Information: YELLOW TINT
MISSING SMALL BUNG 89-049 091 5EA HANDWRITTEN ON TOP
10" OF MATERIAL

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A-Air W-Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			S	-	7	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERS (KJM)
 PCB Conc. NA ppm Flash Point >82 °C
 Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-BC4
 Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather OVERCAST 70'S Date 11/5/92 Time 1047

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

pH 5 PID 0.4 ppm
 Rad Meter 0.2 mr/hr
 Other FID = 1 PPM LEL/O2 = BG

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X					X			12
M	X				ORANGE	X	X		12
B	X				ORANGE		X		12

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: NO LABEL INFORMATION SMALL (PIN HOLE) RUST HOLES
IN TOP OF DRUM

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			S	-	5	I	-	-	-	-	-	>180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO
BE SINGLE LAYER (FEM/KJM)

PCB Conc. NA ppm Flash Point >82 °C

Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-BO1

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler KJM PAM TFT

Weather OVERCAST 70'S Date 11/5 Time 1056

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X	X							3
M	X								3
B	X								2

pH 6 PID 22.2 ppm

Rad Meter _____ mr/hr

Other FID = 20 PPM LEL/O₂ = 89

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: HANDWRITTEN ON TOP
88-049 DR-3 MAY BE LESS THAN 3"

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A-Air W-Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	6	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER (T/KJM)

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-1303

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager * RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TET

Weather OVERCAST MID 70'S Date 11/5/92 Time 1110

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X						X		4
M	X						X		8
B	X	X					X		12

pH _____ PID 0.5 ppm

Rad Meter 0.01 mr/hr

Other FID = 1 PPM LEL/O2 = 84

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: A LOT OF DEBRIS PRESENT MISSING LID LUBE OIL STENCILED ON SIDE (TRIPLE RINSED)

3/4 LIQUID W/ SOLIDIFIED-EMULSIFIED LAYER ON TOP BLACK-ORANGE COLOR

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel-Stein + or -	Flash Point °C or F	
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque											
T	X					X	X		S	-	7	I	-	-	-	-	-	-	7180
M																			
B																			

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER (FROM)

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-803

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TET

Weather OVERCAST MID 70'S Date 11/5/92 Time 1115

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X						X		4
M	X	X					X		4
B	X	X					X		10

pH 7 PID 0.5 ppm

Rad Meter 0.01 mr/hr

Other FID = 1 PPM LEL/O2 = B4

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: A LOT OF DEBRIS PRESENT
NO LID 1/2 LIQUID W/ DEBRIS (BRAKE FLUID CAN WIRE ETC)
LEAKAGE AT BOTTOM OF DRUM HAS SOLIDIFIED / EMULSIFIED

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X	X				X	X		S	-	7	I	-	-	-	-	-	>180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE
BE SINGLE COMP.

PCB Conc. NA ppm Flash Point >82 °C

Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-803

Field Reviewer KJM / PAM

Project Location CAMP LEJANE Project No. 19133

Project Manager R.P. W Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather OVERCAST 70'S Date 11/5/92 Time 1100

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X						X		2
M	X					X			2
B	X					X			2

pH 6 PID 1.4 ppm

Rad Meter 0.01 mr/hr

Other FID = 2 PPM LEL/O2 = 13G

MFG Name VALVOLINE

Chemical Name UNKNOWN

Additional Information: 5 GAL BUCKET VALVO ON SIDE, TOP HAS

POURING SPOUT. ~ 1/2 FULL

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X		X	S	-	6	I	-	-	-	-	-	>180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE

PCB Conc. NA ppm Flash Point > 82 °C

SINGLE LAYER

Data Reviewer MOB/KJM Compatibility Comp. Bulk No. 6-BC2

Field Reviewer KJM/PAM

Project Location CAMP LEJUNE Project No. 19133
 Project Manager R P W Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather OVERCAST 70'S Date 11/5/92 Time 1326

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X						X		8
M	X						X		8
B	X						X		8

pH 6 PID 0.3 ppm
 Rad Meter 0.1 mr/hr
 Other FID = 1 PPM LEL/O2 = 84

MFG Name OCTAGON PROCESS INC.

Chemical Name UNKNOWN

Additional Information: (STENCILED ON SIDE) ~ 3/4 FULL
DLA 400-87-D-008, LOT F-18981-B, OCTAGON PROCESS INC.
EDGEWATER NJ 07020 ETHYLENE GLYCOL - STAMPED ON SIDE OF DRUM

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or F
T	X					X			S	-	6	I	-	-	-	-	-	782
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point 782 °C

Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-802

Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather OVERCAST 70'S Date 11/5/92 Time 1:32

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X					X			12
M	X					X			12
B	X					X			12

pH 6 PID 0.2 ppm
 Rad Meter 0.2 mr/hr
 Other FID = 0.6 LEL/O₂ = BG

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: NO LABEL INFO

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			S	-	6	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point 782 °C
 Data Reviewer MOB/KJM Compatibility Comp. Bulk No. 6-601
 Field Reviewer KJM/PAM

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather OVERCAST 70'S Date 11/5/92 Time 1330

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	
T	X		X		ORANGE		X		2
M	X				ORANGE	X			12
B	X				ORANGE	X			12

pH 7 PID 1.1 ppm

Rad Meter 0.1 mr/hr

Other FID= 2 LEL/O2= .84

MFG Name UNKNOWN

Chemical Name LUBRICATING OIL

Additional Information: OE/HDO-30 LUBRICATING OIL (INTERNAL COMBUSTION) ENGINE, TACTICAL SERVICE MIL-L-2104D 1 APRIL 83, 9150-00-189-6729 GLOBULES FLOATING ON TOP LAYER

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel-Stein + or -	Flash Point °C (or °F)
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque										
T	X					X			S	-	7	I	-	-	-	-	-	718
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-803

Field Reviewer KJM/PHM

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TET
 Weather OVERCAST 70'S Date 11/5 Time 1355

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X				Brown			X	2
M	X				Brown			X	12
B	X				Brown			X	12

pH 6 PID 284 ppm
 Rad Meter 0.2 mr/hr
 Other FID = 1000 LEL/O₂ = BC

MFG Name UNKNOWN

Chemical Name LUBRICATING OIL

Additional Information: OE/HDB-30 LUBRICATING OIL, INTERNAL COMBUSTION ENGINE
TACTICAL SERVICE MIL-L-2104D 1 APRIL 1983 LOCATED AT DIESEL TANKS BLDG 821

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X				Brown			X	I	-	6	S	-	-	-	-	-	>182
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDA/KJM Compatibility Comp. Bulk No. 6-1306

Field Reviewer KJM/PAM

Project Location CAMP LEJENE Project No. 19133
 Project Manager R PW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFT
 Weather OVERCAST 70'S Date 11/5/92 Time 1417

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	
T	X				BR			X	6
M	X				BR			X	6
B	X				BR			X	6

pH 6 PID 0.7 ppm
 Rad Meter 0.2 mr/hr
 Other FID = 0 LEL/O2 = BG

MFG Name UNKNOWN
 Chemical Name LUBRICATING OIL

Additional Information: OIL LUBRICATING OIL INTERNAL COMBUSTION ENGINE 81 JAN 26
ON RACK ON ITS SIDE VALVE ON TOP

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A-Air W-Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C (°F)
T	X				BROWN			X	I	-	6	S	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point >82 °C
 Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-307
 Field Reviewer KJM/PAM

Project Location CAMP LEJUNE Project No. 19133

Project Manager R P W Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather OVERCAST 70'S Date 11/5/92 Time 1430

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			12
M	X					X			12
B	X					X			12

pH 6 PID 320 ppm

Rad Meter 0.2 mr/hr

Other FID=1000 LEL/O2=BG

MFG Name UNKNOWN

Chemical Name WHITE KEROSENE

Additional Information: WHITE KEROSENE STAMPED ON TOP AND SIDE

VALVE ON TOP DRUM SEVERELY DAMAGED

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			I	-	6	5	-	-	-	-	-	780
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSIS ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point 782 °C

Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-B06

Field Reviewer KJM / PAM

Project Location CAMP LEJUNE Project No. 19133
 Project Manager R P W Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather OVERCAST Date 11-5-92 Time 1445

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X	X		2"
M	X					X	X		12"
B	X					X	X		10"

pH 6 PID 170.00 ppm
 Rad Meter 0.1 mr/hr
 Other FID = 500 LEL/O2 = BACKGROUND

MFG Name UNKNOWN
 Chemical Name KEROSENE

Additional Information: APPEARS TO BE KEROSENE STENCILED ON SIDE

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			I	-	6	S	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point > 82 °C
 Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-B06
 Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM FFT

Weather P. CLOUDY 60'S Date 11/6/92 Time 0752

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X					X			12
M	X					X			12
B	X					X			12

pH 5 PID 0.3 ppm

Rad Meter 0.3 mr/hr

Other FID = 0.5 LEL/O2 = B6

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: MISSING LARGE BUNG NO LABEL INFO

SUSPECTED TO BE RAIN H2O

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			S	-	5	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point 782 °C

Data Reviewer MDJ / KJM Compatibility Comp. Bulk No. 6-804

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager * RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFT
 Weather P. CLOUDY 60'S Date 11/6/92 Time 0758

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			8
M	X					X			4
B	X			X	ORANGE		X	X	4

pH 6 PID 0.4 ppm
 Rad Meter 0.1 mr/hr
 Other FID = 0.5 PPM LEL/O2 = 34

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: NO LABEL INFO. DRUM IS UPSIDE DOWN W 1/3 OF BOTTOM OPEN

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	6	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point >82 °C
 Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-BC1
 Field Reviewer KJM/PAM

Project Location CAMP LEWNE Project No. 19133
 Project Manager R PW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TTT
 Weather P. CLOUDY 60's Date 11/6/92 Time ~~0758~~ 0810

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			KJM 2
M	X				KJM KW	X			KJM 1
B	X			KJM KW	KJM KW	X			KJM 1

pH 7 PID 0.4 ppm
 Rad Meter 0.2 mr/hr
 Other FID = 0.13 LEL/O₂ = B4

MFG Name UNKNOWN
 Chemical Name UNKNOWN

(STENCILED ON TOP)

Additional Information: DRUM HAS SIGNS OF BULGING TRIPLE RINSED 080488

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. S or I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	7	I	-	-	-	-	-	782
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point 782 °C
 Data Reviewer MOB/KJM Compatibility Comp. Bulk No. 6-B04
 Field Reviewer KJM/PAM

Project Location CAMP LEJUN2 Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TET
 Weather P. CLOUDY 60'S Date 11/6/92 Time 8758

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X				AQUA			X	2
M	X				AQUA			X	1
B	X				AQUA			X	1

pH 8 PID 0.4 ppm
 Rad Meter 6.3 mr/hr
 Other FID = 0.5 LEL O₂ = 134

MFG Name FROSTVAESKE
 Chemical Name UNKNOWN

Additional Information: FROSTVAESKE S-750 6850-25-120-5901
1983 PRODUCT N.R. 9688

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X				AQUA			X	S	-	8	I	-	+	-	-	-	7180
M																		
B																		

* THIS SAMPLE WAS NOT SENT FOR ANALYSES → NOT ENOUGH SAMPLE

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point >82 °C
 Data Reviewer MOB/KJM Compatibility Comp. Bulk No. _____
 Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TET
 Weather P. CLOUDY Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 **MT**
 Drum Condition: Good Fair Poor RCRA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID 0.7 ppm
 Rad Meter 0.3 mr/hr
 Other FID = 0.3 LEL/O₂ = 84

MFG Name UNKNOWN
 Chemical Name UNKNOWN

MT LESS THAN 1"

Additional Information: NO LABEL INFO.
RCRA MT

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEONE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler KJM PAM

Weather P. Cloudy 60's Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor RCRA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID 0.4 ppm

Rad Meter 0.3 mr/hr

Other FID = 0.3 LEL/O2 = BG

MFG Name UNKNOWN

Chemical Name LUBRICATING OIL

Additional Information: RCRA MT
LUBRICATING OIL INTERNAL COMBUSTION (ETC) 1 APRIL 83

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TFF

Weather P. CLOUDY 60'S Date 11/6/92 Time 0840

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	
T	X					X			2
M	X					X			2
B	X					X			2

pH 5 PID 0.4 ppm

Rad Meter 0.3 mr/hr

Other FID = 0.2 LEL/O2 = 139

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: NO LABEL INFO (ENTIRE DRUM RUSTY)

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol. Sor I Density	React.	pH	Hex. Sol. Sor I	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point	
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	A - Air W - Water	Std. Unit		+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F	
T	X					X			S	-	5	I	-	-	-	-	-	-	> 120
M																			
B																			

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE COMPONENT

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-004

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 60'S Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 ~~1/4~~ <1/4 **MT**

Drum Condition: Good Fair Poor RCRA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID _____ ppm

Rad Meter _____ mr/hr

Other FID = LEL/O2 =

MFG Name UNKNOWN

Chemical Name UNKNOWN

LESS THAN 1" RCRA MT

Additional Information: DRUM SEVERELY DENTED/RUSTED NO LABEL INFO

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TET

Weather P. CLOUDY 60'S Date 11/6/92 Time 0927

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X						X		2
M	X						X		1
B	X						X		1

pH 5 PID 0.3 ppm

Rad Meter 0.3 mr/hr

Other FID = 0.2 LEL/O2 = B4

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: NO LABEL INFO COMPLETELY RUSTED (NEAR INFLATABLE RAFTS)

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	5	I	-	-	-	-	-	> 82
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-B01

Field Reviewer KJM/PAM

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. Cloudy 60'S Date 11/6/92 Time 0913

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			2
M	X					X			2
B	X					X			2

pH 5 PID 0.3 ppm

Rad Meter 0.3 mr/hr

Other FID=0.12 LEL/O2=34

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: CORROSIVE LABEL GREEN FIBER/POLY DRUM

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	5	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAY.

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-804

Field Reviewer KJM / PAM

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TPT

Weather P. CLOUDY 60'S Date 11/6/92 Time 0919

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor RCRA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID 0.3 ppm

Rad Meter 0.3 mr/hr

Other FID= LEL102=

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: NO BUNG ON TOP OF DRUM. LID IS TAPED ON
RCRA MT

SUSPECTED CORROSIVE

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFT
 Weather P. CLOUDY 60'S Date 11/6/92 Time 0919

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	
T	X							X	1
M	X							X	2
B	X							X	1

pH 5 PID 0.3 ppm
 Rad Meter 0.3 mr/hr
 Other FID = 0.3 LEL/O2 = 89

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: MISSING LARGE BUNG CONTAMINATED OIL STENCILED ON THE SIDE.

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C (or °F)
T	X				Blown			X	S	-	5	S	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE COMPONENT

PCB Conc. NA ppm Flash Point > 82 °C
 Data Reviewer MOB/KJM Compatibility Comp. Bulk No. 6-BC5
 Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TFT

Weather P. CLOUDY 60's Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 **MT**

Drum Condition: Good Fair Poor PCRA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID 5.3 ppm

Rad Meter 0.3 mr/hr

Other FID=0.5 LEL/O2=39

MFG Name BATFIELD AMERICAN, INC

Chemical Name LUBRICATING OIL

Additional Information: PCRA MT LUBRICATING OIL BATCH - A-629-86 TEST DATE 1/86

DIELECTRIC FLUID CERTIFIED TO HAVE LESS THAN 50 PPM PCBs

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TET
 Weather P. CLOUDY 60'S Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor PCRA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID _____ ppm
 Rad Meter _____ mr/hr
 Other FID= LEL/O2=

MFG Name BATTLEFIELD AMERICAN, INC.
 Chemical Name LUBRICATING OIL

Additional Information: RCRA MIT
LUBRICATING OIL INTERNAL COMBUSTION, GRADE 30
81 JAN 26 AMD 81 APRIL 8 CERTIFIED TO CONTAIN LESS THAN 50 PPM PCBs

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____
 PCB Conc. _____ ppm Flash Point _____ °C
 Data Reviewer _____ Compatibility Comp. Bulk No. _____
 Field Reviewer _____

Project Location CAMP LEJUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFT
 Weather P. CLOUDY 60'S Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor RCCA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID _____ ppm
 Rad Meter _____ mr/hr
 Other FID = LEL/O₂ =

MFG Name BATTLEFIELD AMERICAN, INC.
 Chemical Name LUBRICATING OIL

RCCA MT

Additional Information: LUBRICATING OIL INTERNAL COMBUSTION 1 APRIL 83
CERTIFIED TO CONTAIN LESS THAN 50 PPM PCBs

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJENE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather P. CLOUDY 60'S Date 11/6/92 Time 1248

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X							X	5"
M	X							X	15"
B	X			X	orange			X	2

pH 5 PID 0.6 ppm
 Rad Meter 0.4 mr/hr
 Other FID = 0.5 LEL/O2 = BG
 MFG Name UNKNOWN
 Chemical Name LUBRICATING OIL

Additional Information: LUBRICATING OIL INTERNAL COMBUSTION GRADE 10W/30
81 JAN 26

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			S	-	5	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point 782 °C
 Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-B01
 Field Reviewer KJM/PAM

Project Location CAMP LEVEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFT
 Weather P. CLOUDY 60'S Date 11/6/92 Time 1253

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X					X			5
M	X					X			15
B	X			X	ORANGE	X			2

pH 6 PID 0.3 ppm
 Rad Meter 0.4 mr/hr
 Other FID = 0.2 LEL/O2 = B9

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: TRIPLE RINSE STENCILED ON THE SIDE NO OTHER LABEL INFO

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C (or °F)
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			S	-	6	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C
 Data Reviewer MDG / KJM Compatibility Comp. Bulk No. 6-802
 Field Reviewer KJM / PAM

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TFT

Weather P. CLOUDY 60'S Date 11/6/92 Time 1254

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X							X	6
M	X							X	6
B	X				BR			X	6

pH 6 PID 0.4 ppm

Rad Meter 0.3 mr/hr

Other FID = 0.2 LEL/O2 = 89

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: "USED OIL" STENCILED ON TOP DRUM IS LYING ON ITS SIDE BOTTOM IS CRUSHED W/ SEVERAL BULLET LIKE HOLES IN BOTTOM.

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	6	I	-	-	-	-	-	718
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-1302

Field Reviewer KJM / PAM

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TFT

Weather P. CLOUDY 60'S Date 11/6/92 Time 1303

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	
T	X							X	1
M	X							X	1
B	X							X	1

pH 6 PID 0.4 ppm

Rad Meter 0.3 mr/hr

Other FID = NA LEL/O2 = B4

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: EMPTY TRIPLE RINSE 8336" STENCILED ON SIDE

LUBRICATING OIL GEAR 12 OCT 1976

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point	
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F	
T	X					X			Sol	-	6	I	-	-	-	-	-	-	7150
M																			
B																			

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERS

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MOB/KJM Compatibility Comp. Bulk No. 6-B02

Field Reviewer KJM/PAM

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TET

Weather P. CLOUDY 60'S Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
RCRA MT.

Drum Condition: Good Fair Poor

pH _____ PID .4 ppm

Rad Meter .1 mr/hr

Other FID = N/A LEL/O2 = BACKPACK

MFG Name UNKNOWN

Chemical Name UNKNOWN

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

Additional Information: UNLEADED + TRIPLE RINSE STAMPED ON SIDE.
RCRA MT

*WHEN DRUM WAS ^{SET UPRIGHT} EFFERVESECE - INITIATED - 2 BOILING SOUND

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather P. CLOUDY 60's Date 11/6/92 Time 1315

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor RCRA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID 0.4 ppm
 Rad Meter 0.5 mr/hr
 Other FID= LEL/GZ= 79

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: "TRIPLE RINSE" STAMPED ON SIDE NO OTHER INFORMATION RCRA MT

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather P. CLOUDY 60'S Date 11/6/92 Time 1317

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			12
M	X					X			12
B	X					X			12

pH 5 PID 0.5 ppm
 Rad Meter 0.2 mr/hr
 Other FID= NA LEL/O2= BG
 MFG Name UNKNOWN
 Chemical Name HYDRAULIC FLUID

Additional Information: HYDRAULIC FLUID PETRO BASE.
TYPE II SHELF LIFE ITEM WARNING THIS FLUID MAY
CONTAINS TRICRESYL PHOSPHATE PRODUCES PARALYSIS IF TAKEN INTERNALLY
NOT DRUM HAS CRACK AT CHIME AROUND SMALL BUNG

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C (OFF)
T	X					X			S	-	5	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAA ANALYSES ALL SAMPLES WERE CONSIDERED TO
BE SINGLE COMPONENT

PCB Conc. NA ppm Flash Point > 82 °C
 Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-134
 Field Reviewer KJM / PAM

Project Location CAMP LEJUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFT
 Weather P. CLOUDY TO 60'S Date 11/6/92 Time 1324

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 PLUS < 1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X				Red			X	1
M	X					X			2
B	X					X			2

pH 6 PID 5.4 ppm
 Rad Meter 0.2 mr/hr
 Other FID = NA LEL/O2 = B4
 MFG Name UNKNOWN
 Chemical Name HYDRAULIC FLUID

Additional Information: HYDRAULIC FLUID. PETRO BASE
TYPE II SHELF LIFE ITEM THIS FLUID MAY CONTAIN
TRICRESYL PHOSPHATE PRODUCES PARALYSIS IF TAKEN INTERNALLY.

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C (or °F)	
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque											
T	X					X			PS	-	6	PS	-	-	-	-	-	-	>180
M																			
B																			

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE
SINGLE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C
 Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-805
 Field Reviewer KJM / PAM

Project Location CAMP LEONE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TET
 Weather P. CLOUDY 60'S Date 11/6/92 Time 1339

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X			X		X			1
M	X					X			1
B	X					X			1

pH 6 PID 0.7 ppm
 Rad Meter 0.1 mr/hr
 Other FID = NA LEL/O2 = BG

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: NO LABEL INFO.

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			PS	-	6	PS	-	-	-	-	-	>180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERS

PCB Conc. NA ppm Flash Point > 82 °C
 Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-305
 Field Reviewer KJM / PAM

Project Location CAMP LEONE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM TFT
 Weather P. CLOUDY 60'S Date 11/6/92 Time 1343

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X						X		6
M	X						X		10
B	X			X			X		2

pH 6 PID 0.5 ppm
 Rad Meter 0.3 mr/hr
 Other FID= _____ LEL/O2= BG
 MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: LID WAS CUT OFF 2 SNAKED LIDS INSIDE DRUM
MAY CONTAIN RAIN WATER

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A-Air W-Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	6	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NH ppm Flash Point > 82 °C
 Data Reviewer MD3 / KJM Compatibility Comp. Bulk No. 6-803
 Field Reviewer KJM / PAM

Project Location CAMP LEJUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather P. CLOUDY 60'S Date 11/6/92 Time 1347

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X		X				X		2
M	X					X			5
B	X					X			5

pH 6 PID 0.5 ppm
 Rad Meter 0.1 mr/hr
 Other FID = NA LEL/O2 = BCL

MFG Name UNKNOWN
 Chemical Name LUBRICATING OIL

Additional Information: OIL GLOBBLES ON TOP
MISSING LARGE BUNG LUBRICATING OIL GEAR MULTIPURPOSE
12 OCT 1976 AMD 2, 7 APRIL 1981

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A-Air W-Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			PS	-	6	PS	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LHB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERS

PCB Conc. NA ppm Flash Point >82 °C
 Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-305
 Field Reviewer KJM / PAM

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 60'S Date 11/6/92 Time 1351

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			12
M	X					X			12
B	X					X			12

pH 5 PID .2 ppm

Rad Meter .2 mr/hr

Other FID = NA LEL/O2 = BG

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: NO LABEL INFORMATION

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	5	I	-	-	-	-	-	780
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-304

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. Cloudy 60's Date 11/6/92 Time 1358

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X		X				X		2
M	X					X			1
B	X					X			1

pH 5 PID .4 ppm

Rad Meter .5 mr/hr

Other FID=NA LEL/OL=BG

MFG Name UNKNOWN

Chemical Name LUBRICATING OIL

Additional Information: LUBRICATING OIL INTERNAL COMBUSTION ENGINE

GRADE 10W30 MISSING BOTH BUNGS

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			PS	-	5	PS	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point >82 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-1305

Field Reviewer KJM / PAM

Project Location CAMP LEJUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather P. Cloudy 60's Date 11/6/92 Time 1400

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X							X	2
M	X							X	2
B	X						X	X	2

pH 5 PID 0.4 ppm
 Rad Meter 0.1 mr/hr
 Other FID= LELO₂= BG

MFG Name UNKNOWN
 Chemical Name LUBRICATING OIL

Additional Information: LUBRICATING OIL INTERNAL COMBUSTION ENGINE
MISSING BOTH BUNGS

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel-Stein + or -	Flash Point °C (or °F)
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X				GRANGE	X		X	S	-	5	I	-	-	-	-	-	>180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE CHAINED

PCB Conc. NA ppm Flash Point >82 °C

Data Reviewer MDG/KJM Compatibility Comp. Bulk No. 6-B01

Field Reviewer KJM/PAM

Project Location CAMP LEVINE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 60's Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor RCRA
MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID _____ ppm

Rad Meter _____ mr/hr

Other FID = LEL/O2 =

MFG Name UNKNOWN

Chemical Name LUBRICATING OIL

Additional Information: LUBRICATING OIL INTERNAL COMBUSTION ENGINE
RCRA MT

1 APRIL 1983

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point	
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																			
M																			
B																			

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEONE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 60'S Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor RCRA MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID 1.8 ppm

Rad Meter 0.1 mr/hr

Other FID = LEL/O₂ = 736

MFG Name UNKNOWN

Chemical Name GRADE 80 LUBE OIL

Additional Information: RCRA MT
GRADE 80 LUBE OIL ENG.

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. Cloudy 60's Date 11/6/92 Time 141Z

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			12
M	X					X			12
B	X						X		12

pH 5 PID 0.4 ppm

Rad Meter 0.1 mr/hr

Other FID= NA LEL/O2= BG

MFG Name UNKNOWN

Chemical Name DIESEL FUEL

Additional Information: DIESEL FUEL STENCILED ON SIDE MISSING

LARGE BUNG. VALVE INSTALLED AT SMALL BUNG

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			S	-	5	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDA / KJM Compatibility Comp. Bulk No. 6- B01

Field Reviewer KJM / PAM

Project Location CAMP LEJANE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 60's Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

RCRA
MT

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID _____ ppm

Rad Meter _____ mr/hr

Other FID= LEL/O2=

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: NO LABEL INFO RCRA MT

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather P. CLOUDY 60's Date 11/6/92 Time _____

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor *RCRA empty*

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID 750.0 ppm
 Rad Meter 2 mr/hr
 Other FID=NA LEL102=136

MFG Name UNKNOWN
 Chemical Name UNKNOWN

UNIQUE BUNG CONFIGURATION *RCRA MT*
 Additional Information: UNKNOWN ATTENTION THIS CONTAINER HAZARDOUS WHEN
EMPTY. EMPTY CONTAINERS MAY CONTAIN EXPLOSIVE VAPORS OR DANGEROUS
RESIDUES DO NOT CUT PUNCTURE OR WELD ON OR NEAR CONTAINER

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____
 PCB Conc. _____ ppm Flash Point _____ °C
 Data Reviewer _____ Compatibility Comp. Bulk No. _____
 Field Reviewer _____

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather P. CLOUDY 60'S Date 11/7/92 Time 1025

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other 1 QT CANS
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X				WHITE			X	2
M	X				WHITE			X	2
B	X				WHITE			X	2

pH 5 PID 150 ppm
 Rad Meter 0.3 mr/hr
 Other FID = 5 LEL/O2 = BG

MFG Name _____
 Chemical Name POLISHING COMPOUND

Additional Information: FLASH POINT 91 OF
~500 1QT CANS - POLISHING COMPOUND FLAMMABLE LIQUID
MFG 6-84 ORM-D FLASH POINT OF 91 OF ON CANS

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F	
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque											
T	X				WHITE			X	PS	-	5	PS	-	-	-	-	-	-	> 180
M																			
B																			

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER

PCB Conc. NA ppm Flash Point > 82 °C
 Data Reviewer MOB / KJM Compatibility Comp. Bulk No. 6-B06
 Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 17133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM TFT

Weather P. CLOUDY 60'S Date 11/6/92 Time 1636

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X				LT BR			X	2
M	X				LT BR			X	2
B	X				LT BR			X	2

pH 6 PID 3.1 ppm

Rad Meter 0.3 mr/hr

Other FID= NA LEL/O2= BG

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: SOUTH LOT 201

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X				blown			X	I	-	6	5	-	-	-	-	-	>180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO
SINCE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-1307

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 60'S Date 11/6/92 Time 1655

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X					X			2
M	X					X			2
B	X					X			2

pH 6 PID 238+ ppm

Rad Meter 0.2 mr/hr

Other FID= NA LEL/UEL= 60% 18%

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: LOT 201 SOUTH VOLATILIZED RAPIDLY

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X					X			I	-	6	5	-	-	-	-	-	> 82
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYER.

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-806

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 60's Date 11/6/92 Time 1705

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X				GR BL			X	2
M	X				GR BL			X	2
B	X				GR BL			X	2

pH 5 PID NA ppm

Rad Meter 0.3 mr/hr

Other FID = NA LEL/O2 = BL

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: LOT 201 SOUTH OIL ODOM

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F	
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque											
T	X				Brown			X	I	-	5	5	-	-	-	-	-	-	780T
M																			
B																			

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point 782 °C

Data Reviewer MDG / KJM Compatibility Comp. Bulk No. 6-807

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 50'S Date 11/7/92 Time 0735

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T	X		X		BR			X	6
M	X		X		BR			X	6
B	X		X		BR			X	6

pH 5 PID 304 ppm

Rad Meter 0.2 mr/hr

Other FID = 60 LEL/O2 = BG

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: LOT 201 SOUTH/WEST NEAR RAILROAD TRACKS

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T	X		X		Brown			X	I	-	5	S	-	-	-	-	-	140
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE COMPONENT

PCB Conc. NA ppm Flash Point ~~782~~ 60 °C

Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-602

Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 50'S Date 11/7/92 Time 0803

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T		X			WH			X	6
M		X			WH			X	5
B		X			WH			X	5

pH 13 PID 0.7 ppm

Rad Meter 0.2 mr/hr

Other FID=0 LEL/O2=85

MFG Name PENNSYLVANIA SALT MFG
PHILADELPHIA, PA
PONY-4-128 - US ARMY ACCOUNT
 Chemical Name DECONTAMINATING AGENT

Additional Information: DECONTAMINATING AGENT (SOUTH OF LOT 203)

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C (or °F)
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T		X			WHITE			X	I	-	13	I	-	+	-	+	+	780
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point 782 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-810

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. Cloudy 50's Date 11/7/92 Time ~~0822~~ 0933

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	
T		X			WH			X	2
M	X	X			WH			X	2
B	X	X			WH			X	2

pH 4 PID ~~8.8~~ 0.5 ppm
 Rad Meter ~~0.2~~ 0.2 μr/hr mr/hr
 Other FID = 0 LEL/O₂ = BG

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: RAVINE AREA SUSPECTED TO CONTAIN WHITE SOLID
WHITE CRYSTALLINE SOLID

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T		X			WHITE			X	I	-	4	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-B11

Field Reviewer KJM / PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 50's Date 11/7/92 Time 0945

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X					X			2
M	X					X			2
B	X					X			2

pH 6 PID .5 ppm

Rad Meter .2 ^{μr/hr} mr/hr

Other FID=0 LEL/O2=BG

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: RAVINE SUSPECTED OIL MATERIAL

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C (or °F)
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			S	-	6	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point 782 °C

Data Reviewer MOB/KJM Compatibility Comp. Bulk No. 6-305

Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 50'S Date 11/7/92 Time 0927

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T		X			GR BL			X	4
M		X			GR BL			X	4
B		X			GR BL			X	4

pH 5 PID 1.2 ppm

Rad Meter .2 uR/hr mr/hr

Other FID = 0 LEL/O2 = BG

MFG Name UNKNOWN

Chemical Name UNKNOWN

Additional Information: COMPOUND RUST PREVENTOR USA 2-82 (25 lbs)

Stock # 1A-C-326 (N 75 CONTAINERS)

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T		X			BROWN			X	I	-	5	PS	-	-	-	-	-	>180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERS

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB/KJM Compatibility Comp. Bulk No. C-111

Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133
 Project Manager RPW Telephone (919) 451-1725
 Logger KJM Sampler PAM KJM
 Weather P. Cloudy 50's Date 11/7/92 Time 5:55

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked
 Drum Size: 85 55 42 30 16 10 5 Other _____
 Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT
 Drum Condition: Good Fair Poor

Physical State					Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Inches
T									
M									
B									

pH _____ PID _____ ppm
 Rad Meter _____ mr/hr
 Other FID= LEL/O2=

MFG Name UNKNOWN
 Chemical Name UNKNOWN

Additional Information: PCRA
NEAR RAVINE ADJACENT TO DRUMS IN THE
GROUND - CONTAINED NUTS/BOLTS IN BURLAP SACKS NO SAMPLE TAKEN

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color	Clarity			Water Sol.	React.	pH	Hex. Sol.	Per.	Oxid.	CN	Sul.	Biel-Stein	Flash Point
Layers	Liquid	Solid	Gel	Sludge	Use Std. Colors	Clear	Cloudy	Opaque	Sol. Sor I Density	A - Air W - Water	Std. Unit	Sor I	+ or -	+ or -	+ or -	+ or -	+ or -	°C or °F
T																		
M																		
B																		

Comments: _____

PCB Conc. _____ ppm Flash Point _____ °C

Data Reviewer _____ Compatibility Comp. Bulk No. _____

Field Reviewer _____

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler Pam KJM

Weather P. CLOUDY 50's Date 11/7/92 Time 1000

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T	X					X			12
M	X					X			12
B	X			X		X	X		12

pH 6 PID 4.7 ppm

Rad Meter .2 uCi/hr mr/hr

Other FID=0 LEL/O2=BG

MFG Name SHELL OIL

Chemical Name UNKNOWN

Additional Information: 9250 LUBE OIL SHELL OIL LOCATED NEAR TEST PIT BY RAVINE MISSING BOTH BUNGS

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T	X					X			S	-	6	I	-	-	-	-	-	7180
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point > 82 °C

Data Reviewer MDB/KJM Compatibility Comp. Bulk No. 6-803

Field Reviewer KJM/PAM

Project Location CAMP LEJEUNE Project No. 19133

Project Manager RPW Telephone (919) 451-1725

Logger KJM Sampler PAM KJM

Weather P. CLOUDY 50's Date 11/7/92 Time 0852

Drum Type: Fiber Steel Poly Stainless Steel Nickel
 Poly-Lined Ring Top Closed Top Overpacked

Drum Size: 85 55 42 30 16 10 5 Other _____

Drum Contents: Amount Full 3/4 1/2 1/4 <1/4 MT

Drum Condition: Good Fair Poor

Physical State					Color Use Std. Colors	Clarity			Layer Thickness Inches
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque	
T		X			BL			X	6
M		X			BR			X	6
B		X			BR			X	6

pH 5 PID 447 ppm

Rad Meter 0.2 mr/hr

Other FID= 460 LEL/O2= BG

MFG Name UNKNOWN

Chemical Name UNKNOWN

CONTAINER SAMPLED ALONG ROADWAY

FLINSTON?

2-5 GALLON CONTAINERS ALONG ROADWAY LEADING TO RAVINE

Additional Information: 5 GALLON CONTAINER IN RAVINE AREA LEAKING

BLACK SUBSTANCE LEAKING FROM SIDE TO SOIL

LABORATORY COMPATIBILITY ANALYSES

Physical State					Color Use Std. Colors	Clarity			Water Sol. Sol. Sor I Density	React. A - Air W - Water	pH Std. Unit	Hex. Sol. Sor I	Per. + or -	Oxid. + or -	CN + or -	Sul. + or -	Biel- Stein + or -	Flash Point °C or °F
Layers	Liquid	Solid	Gel	Sludge		Clear	Cloudy	Opaque										
T		X			BROWN			X	I	-	5	S	-	-	-	-	-	140
M																		
B																		

Comments: NOTE FOR THE PURPOSE OF LAB ANALYSES ALL SAMPLES WERE CONSIDERED TO BE SINGLE LAYERED

PCB Conc. NA ppm Flash Point 60 °C

Data Reviewer MDB / KJM Compatibility Comp. Bulk No. 6-308

Field Reviewer KJM / PAM

Summary of Compatibility Analyses

SUMMARY OF COMPATIBILITY ANALYSES

BATCH NO. 6-B01

Base Neutral Liquid with Solids #1

Water soluble
pH = 5.0

D004, D024, D031, D044, D047, D062, D010-(no solids)

BATCH NO. 6-B02

Base Neutral Liquid with Solids #2

Water Soluble
pH = 6.0

D002, D009, D017, D032, D033, D034, D008-(oil w/water)

BATCH NO. 6-B03

Base Neutral Liquid with Solids #3

Water soluble
pH = 6-7

D005, D006, D007, D040, D057, D060, D011-(oil w/water)

BATCH NO. 6-B04

Base Neutral Liquid #1

Water Soluble
pH = 5-7

D003, D016, D018, D022, D025, D037, D042

BATCH NO. 6-B05

Combustible Liquid #1

Hexane and Water Soluble
pH = 4
100-200°F

D001, D027, D038, D039, D041, D043

BATCH NO. 6-B06

Flammable Liquid #1

Hexane Soluble
pH = 5
70-140°F

D012, D014, D015, D050, D052

BATCH NO. 6-B07

Combustible Liquid #2

Hexane Soluble
pH = 4
100-200°F

D013, D051, D053

BATCH NO. 6-B08

Flammable Solid #1

Hexane Soluble
pH = 5
< 70°F

D054, D061

BATCH NO. 6-B09

Corrosive Solid #1

pH = 12
> 180°F

D063

BATCH NO. 6-B10

Corrosive Solid #2

pH = 13
> 180°F
Strong oxidizer and sulfide

D055

BATCH NO. 6-B11

Base Neutral Solid #1

pH = 3
> 180°F

D056, D058

Appendix I
Compatibility Data Sheets

COMPATIBILITY DATA SHEET

Sample No: D001 Laboratory No: 6-B05 Phase: _____

Description:

Container: GLASS

Number of Phases: 1 (2) 3 _____

Physical Appearance: OIL w/ LIQUID

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water <u>PARTIAL</u>	<u>FW</u> Yes	<u>No</u>
	Hexane	Yes	<u>No</u>
pH		<4	<u>4-10</u> >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint <u>specific Between 100-200</u>		<70	<u>>180</u> <i>from</i>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>
<u>WATER CONTENT</u>		<u>< 1%</u>	<u>> 1%</u>

CLASSIFICATION: COMBUSTIBLE LIQUID #1

Analyst: KJM/PAM

Date: 11/7/92

PID HEADSPACE = BG ppm
 BG = .7ppm.

COMPATIBILITY DATA SHEET

Sample No: D002 Laboratory No: 6-802 Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: LIQUID w/SOLID

PARAMETER		RESULTS	
Air Reactive		Yes	<u>(No)</u>
Water Reactive		Yes	<u>(No)</u>
Solubility	Water	<u>(Yes)</u>	No P.P.M.
	Hexane	Yes	<u>(No)</u>
pH		<4	<u>(4-10)</u> ⁶ >10
Bielstein (chlorinated organics)		Yes	<u>(No)</u>
Flashpoint specific _____		<70	<u>(>180)</u>
Oxidizer		Yes	<u>(No)</u>
Peroxide		Yes	<u>(No)</u>
Density		< 1	> 1 <u>≈ 1</u>
Reactivity	Sulfide	Yes	<u>(No)</u>
	Cyanide	Yes	<u>(No)</u>
<u>WATER CONTENT</u>		<u><1%</u>	<u>(71%)</u>

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #2

Analyst: KJM/PAM

Date: 11/7/92

PID HEADSPACE BG PPM

COMPATIBILITY DATA SHEET

Sample No: 0003

Laboratory No: 6-804 Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (YELLOW TINT)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 7	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		< 1	> 1 <u>≈ 1</u>
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% 51%

CLASSIFICATION: BASE NEUTRAL LIQUID #1

Analyst: KJM/PAM

Date: 11/7/92

PID HEADSPACE BG PAM

COMPATIBILITY DATA SHEET

Sample No: 0004

Laboratory No: 6-301

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID w/ SOLIDS + ResT.
COLORLESS.

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	< 4	<u>4-10</u> 5	> 10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	< 70	<u>> 180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		< 1	> 1 <u>≈ 1</u>
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #1

Analyst: KJM/PAM

Date: 11/7/92

PID HEADSPACE 5.5 PPM.

COMPATIBILITY DATA SHEET

Sample No: D005

Laboratory No: 6-B03

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID w/SOLID
GREENISH TINT BR

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water.	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH		<4	<u>4-10</u> 6 >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific _____		<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		< 1	> 1 <u>≈ 1</u>
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: BASE NEUTRAL LIQUID w/SOLIDS #3

P10 HEADSPACE 7 PPM

Analyst: KJM/PAM.

Date: 11/7/92

COMPATIBILITY DATA SHEET

Sample No: D006

Laboratory No: 6-803

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 (2) 3 _____

Physical Appearance: Liquid (colorless) w/ SOLID (Brown)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No <i>p.e.m.</i>
	Hexane	Yes	<u>No</u>
pH	< 4	<u>4-10</u> 7	> 10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	< 70	<u>> 180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		< 1	> 1 <u>≈ 1</u>
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

1% 5%

CLASSIFICATION: BASE NEUTRAL LIQUID W/ SOLIDS #3

PID HEADSPACE BG PPM

Analyst: KJM/PAM

Date: 11/7/92

COMPATIBILITY DATA SHEET

Sample No: 0007

Laboratory No: 6-803

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 2 3 _____

Physical Appearance: LIQUID (colorless) w/ SOLID (GRAY)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH		<4	<u>4-10</u> >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific _____		<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		< 1	> 1 <u>≈ 1</u>
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #3

DIO HEADSPACE = 86 PPM

Analyst: KJM/PAM

Date: 11/7/92

COMPATIBILITY DATA SHEET

Sample No: D008

Laboratory No: 6-B02

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 (2) 3 _____

Physical Appearance: Oil (yellow) w/ (liquid) (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water / <u>PARTIAL OIL LIKE SUBSTANCE (FLOATS)</u>	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 6	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>~1 &lt; 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

21%

71%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #2

DID HEADSPACE = BG PPM

BG = 1.0 PPM

Analyst: KJM/PAM

Date: 11/7/92

COMPATIBILITY DATA SHEET

Sample No: D009

Laboratory No: 6-B02

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (COLORLESS) w/ SOLID (ORANGE)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 6	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	<u>≈ 1</u>	< 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #2

P10 HEADSPACE = BG PAM

Analyst: KJM/PAM.

Date: 11/7/92

COMPATIBILITY DATA SHEET

Sample No: 0010

Laboratory No: 6-B01

Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: LIQUID COLORLESS

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH		4-10 <u>4-10</u> PH = 4	<u>>10</u>
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific _____		<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>≈ 1</u>	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

21% 71%

CLASSIFICATION: BASE NEUTRAL
LIQUID W/SOLIDS #1

PID HEADSPACE = 86 PPM

Analyst: KJM/PAM

Date: 11/7/92

COMPATIBILITY DATA SHEET

Sample No: 0011 Laboratory No: 6-B03 Phase: _____

Description:

Container: GLASS

Number of Phases: 1 2 3 _____

Physical Appearance: OIL (yellow) w/ LIQUID (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water <u>PARTIAL - OIL-FLOATS AND FORMS GLOBULES, LIQUID - MIXES w/WATER</u>	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 7	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	<u>Liquid ≈ 1</u>	<u>OIL = < 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% >10%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #3

PID HEADSPACE = B6 PPM

Analyst: KJM/PAM.

Date: 11/7/92

COMPATIBILITY DATA SHEET

Sample No: D012 Laboratory No: 6-B06 Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (DK. BROWN)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane - <i>SOLUTION TURNED BR.</i>	<u>Yes</u>	No
pH	<4	<u>4-10</u> ⁶	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific <u>BETWEEN 100 & 200</u>	<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT <1% >1%

CLASSIFICATION: Flammable Liquid #2 FLAMMABLE LIQUID #1
 PID HEAD SPACE = 2.3 PPM

Analyst: KJM/PAD

Date: 11/7/92

COMPATIBILITY DATA SHEET

Sample No: 0613 ~~D012-19.M~~ Laboratory No: 6-807 ~~6-806~~ Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: LIQUID (DK. BROWN) [OIL]

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	<u>Yes</u>	No
pH		<4	<u>4-10</u> ⁶ >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint <u>specific Between 100 AND 200</u>		<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: COMBUSTIBLE LIQUID #2

PID HEADSPACE = 1.0PPM

BG = .5

Analyst: KJM/PAM

Date: 11/8/92.

COMPATIBILITY DATA SHEET

Sample No: 0014

Laboratory No: 6-806

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	<u>Yes</u>	No
pH		<4	<u>4-10</u> >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific <u>BETWEEN 100 AND 200</u>	<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% 71%

CLASSIFICATION: FLAMMABLE LIQUID #2 FLAMMABLE LIQUID #1
 PID HEADSPACE = 102PPM.

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D015

Laboratory No: 6-806

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	<u>Yes</u>	No
pH	<4	<u>4-10</u>	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific <u>BETWEEN 100 AND 200</u>	<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u><1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% 71%

CLASSIFICATION: combustible ^{Km} group #2 FLAMMABLE LIQUID #1
 PID HEADSPACE = 202 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D 016 Laboratory No: 6-B04 Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: Liquid (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH		<4	<u>4-10</u> 5 >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific _____		<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		≈ 1	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT.

< 1% > 1%

CLASSIFICATION: BASE NEUTRAL LIQUID #1

PID HEADSPACE = BG PPM

BG = 1.3 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D017 Laboratory No: 6-B02 Phase: _____

Description:

Container: GLASS

Number of Phases: 1 2 3 _____

Physical Appearance: LIQUID (colorless) w/ solid (orange)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH		<4	<u>4-10</u> >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		≈ 1	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT <1% >10%

CLASSIFICATION: BASE NEUTRAL LIQUID W/ SOLIDS #2
100 HEADSPACE = 136 PPM

Analyst: KJM/PAM Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0018

Laboratory No: 6-804

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: Liquid (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 7	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	<u>≈ 1</u>	< 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: BASE NEUTRAL LIQUID #1

PID HEADSPACE = 86 PPM

86 = 1.1 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: Do 19

Laboratory No: _____

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (AQUA BLUE) w/ SOLID (WHITE)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane <i>ALCOHOL TEST</i> <u>yes</u>	Yes	<u>No</u>
pH		< 4	<u>4-10</u> ⁸ > 10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	< 70	<u>> 180</u>
Oxidizer		<u>Yes</u>	No
Peroxide		Yes	<u>No</u>
Density		<u>≈ 1</u>	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: ~~OXIDIZER~~ OXIDIZER

PID HEADSPACE = 86 PPM

Analyst: KJM/PAM

Date: 11/18/92

COMPATIBILITY DATA SHEET

Sample No: D022 Laboratory No: 6-B04 Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: Liquid (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 5	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	≈ 1	< 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% >1%

CLASSIFICATION: BASE NEUTRAL LIQUID #1

PID HEADSPACE = BG PPM

BG = .7 PPM

Analyst: RJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D024

Laboratory No: 6-801

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (colorless) w/ SOLID (Brown)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> ⁵	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	<u>≈ /</u>	< 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #1

NID HEADSPACE = 86 PPM

Analyst: KJM/AMM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: Do 25

Laboratory No: 6-304

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (COLORLESS)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 5	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	≈ 1	< 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% 71%

CLASSIFICATION: BASE NEUTRAL LIQUID #1
 PID HEADSPACE = BG PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0027

Laboratory No: 6-B05

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 (2) 3 _____

Physical Appearance: OIL (BK. Brown) w/liquid (Brown)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water <u>PARTIAL</u> <u>OIL = NO</u>	<u>Liquid = Yes</u>	No
	Hexane <u>PARTIAL</u> <u>LIQUID = NO</u>	<u>OIL = Yes</u>	No
pH		<4	<u>4-10</u> 5 >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific <u>BETWEEN 100 TO 200</u>		<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>Liquid ≈ 1</u>	<u>OIL < 1</u> > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>
<u>water content</u>		<1%	<u>71%</u>

CLASSIFICATION: COMBUSTIBLE LIQUID #1

PID HEADSPACE = 1.0 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D031

Laboratory No: 6-301

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (colorless) w/ SOLID (ORANGE)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 5	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	<u>≈ 1</u>	< 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% >1%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #1

PID HEADSPACE = 86 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D032

Laboratory No: 6-B02

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 2 3 _____

Physical Appearance: LIQUID (colorless) w/ solid (orange)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH		<4	<u>4-10</u> >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific _____		<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>≈ 1</u>	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #2

PID HEAD space = 86 ppm

Analyst: KJM/PAM

Date: 11/18/92

COMPATIBILITY DATA SHEET

Sample No: 0037

Laboratory No: 6-B02

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: Liquid (colorless) w/ solid orange

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 6	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		≈ 1	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% >1%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #2

P10 HEADSPACE = 86 PPM

Analyst: KJM/PAM

Date: 11/18/92

COMPATIBILITY DATA SHEET

Sample No: D034

Laboratory No: 6-B02

Phase: _____

Description:

Container: GLASS

Number of Phases: ① ² _{LIQUID} ³ _____

Physical Appearance: ~~LIQUID~~ (colorless) w/ SOLID (BROWN)

PARAMETER		RESULTS	
Air Reactive		Yes	(No)
Water Reactive		Yes	(No)
Solubility	Water	(Yes)	No
	Hexane	Yes	(No)
pH		< 4	(4-10) ₆ > 10
Bielstein (chlorinated organics)		Yes	(No)
Flashpoint specific _____		< 70	(> 180)
Oxidizer		Yes	(No)
Peroxide		Yes	(No)
Density		≈ 1 < 1	> 1
Reactivity	Sulfide	Yes	(No)
	Cyanide	Yes	(No)

WATER CONTENT

< 1% (71%)

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #2

PID HEADSPACE = 86 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D037

Laboratory No: 6-804

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 2 3 _____

Physical Appearance: Liquid (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 5	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>≈ 1</u>	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% >1%

CLASSIFICATION: BASE NEUTRAL LIQUID #1

PID HEAD SPACE = 66 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0038

Laboratory No: 6-805

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 (2) 3 _____

Physical Appearance: OIL (RED) w/ LIQUID (COLORLESS)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water <u>PARTIAL</u> <u>LIQUID</u> =	Yes	<u>No = O/L</u>
	Hexane <u>PARTIAL</u> <u>OIL</u> =	Yes	<u>No = LIQUID</u>
pH		<4	<u>4-10</u> >10 6
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint <u>specific BETWEEN 100 AND 200</u>		<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density <u>PARTIAL</u> <u>LIQUID</u> x 1		< 1	<u>Oil</u> > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT <1% >1%

CLASSIFICATION: COMBUSTIBLE LIQUID #1

PID HEAD SPACE = 9.2 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D039

Laboratory No: 6-305

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 (2) 3 _____

Physical Appearance: SOL OIL (GRAV.) w/ LIQUID (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water.	Liquid = Yes	No = OIL
	Hexane <u>PARTIAL</u> LIQUID = NO	<u>OIL = Yes</u>	No
pH		<4	<u>4-10</u> >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific <u>BETWEEN 100 AND 200</u>		<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>Liquid ≈ 1</u>	<u>OIL = < 1</u> > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% 7%

CLASSIFICATION: COMBUSTIBLE LIQUID #1

PID HEADSPACE = 3.2 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D040

Laboratory No: 6-B03

Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: LIQUID (COLORLESS) w/ SOLID (ORANGE)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>(No)</u>
Water Reactive		Yes	<u>(No)</u>
Solubility	Water	<u>(Yes)</u>	No
	Hexane	Yes	<u>(No)</u>
pH	<4	<u>(4-10)</u> ₆	>10
Bielstein (chlorinated organics)		Yes	<u>(No)</u>
Flashpoint	specific _____	<70	<u>(>180)</u>
Oxidizer		Yes	<u>(No)</u>
Peroxide		Yes	<u>(No)</u>
Density		<u>≈ 1</u>	< 1 > 1
Reactivity	Sulfide	Yes	<u>(No)</u>
	Cyanide	Yes	<u>(No)</u>

WATER CONTENT

1% (71%)

CLASSIFICATION: Base Neutral Liquid w/ Solids #3

PIO HEADSPACE = 86 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: P041

Laboratory No: 6-805

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 (2) 3 _____

Physical Appearance: OIL (DK. BROWN) w/ LIQUID (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Liquid = Yes	No = OIL
	Hexane	OIL = Yes	No = Liquid
pH		< 4	<u>4-10</u> / 6 > 10
Bielstein (chlorinated organics)		Yes	No
Flashpoint specific <u>Between 100 AND 200</u>		< 70	> 180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>Liquid ≈ 1</u>	OIL = < 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

1% (7%)

CLASSIFICATION: COMBUSTIBLE LIQUID #1

PID HEADSPACE = 4.7 ppm

Analyst: KJM IPAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0042

Laboratory No: 6-B04

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 2 3 _____

Physical Appearance: Liquid (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH		<4	<u>4-10</u> 5 >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific _____		<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>≈ 1</u>	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT.

<1% >1%

CLASSIFICATION: BASE NEUTRAL LIQUID #1

PID HEAD SPACE = BG PPM

Analyst: KJM / PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D043

Laboratory No: 6-B05

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 (2) 3 _____

Physical Appearance: OIL (BROWN) w/ LIQUID (colorless)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Liquid = Yes	No = oil
	Hexane	Oil = Yes	No = Liquid
pH		<4	<u>4-10</u> 5 >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific <u>Between 100 to 200</u>		<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>Liquid ≈ 1</u> Oil = < 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% 71%

CLASSIFICATION: COMBUSTIBLE LIQUID #1

P10 HEADSPACE: 1.2 PPM.

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D044

Laboratory No: 6-B01

Phase: _____

Description:

Container: GLASS

Number of Phases: ① ~~②~~ ^{P.P.M.} 3

Physical Appearance: LIQUID (COLORLESS) W/ SOLID (ORANGE GR.)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	< 4	<u>4-10</u> 5	> 10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	< 70	<u>> 180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	≈ 1	< 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT < 1% 71%

CLASSIFICATION: BASE NEUTRAL LIQUID W/ SOLIDS #1

P10 HEADSPACE = 36 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0047

Laboratory No: 6-801

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: Liquid (colorless) w/ solid (orange)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 5	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	<u>≈ 1</u>	< 1	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% 7%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #1

PIG HEAD SPACE = 86 PPM

Analyst: KJM/PAW

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0050

Laboratory No: 6-806

Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: LIQUID (MILKY WHITE)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>(No)</u>
Water Reactive		Yes	<u>(No)</u>
Solubility	Water <u>PARTIAL</u>	Yes	<u>(No) P.O.M.</u>
	Hexane	<u>(Yes)</u>	No
pH	<4	<u>(4-10)</u> 5	>10
Bielstein (chlorinated organics)		Yes	<u>(No)</u>
Flashpoint	specific <u>BETWEEN 100 AND 200.</u>	<70	>180
Oxidizer		Yes	<u>(No)</u>
Peroxide		Yes	<u>(No)</u>
Density	<u>PARTIAL - SOME OF THE MATERIAL FLOATS, SOME SINKS.</u>	< 1	> 1
Reactivity	Sulfide	Yes	<u>(No)</u>
	Cyanide	Yes	<u>(No)</u>

WATER CONTENT

<1%

(7%)

CLASSIFICATION: Commercial Liquid #2 FLAMMABLE LIQUID #1
 PID HEADSPACE = 231.0 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D051 Laboratory No: 6-B07 Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: OIL (CARMEL [WHITE/BROWN])

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	<u>Yes</u>	No
pH		<4	<u>4-10</u> / 6 >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific <u>BETWEEN 100 AND 200</u>		<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: COMBUSTIBLE LIQUID #2
 PID HEADSPACE = 5.7 PPM

Analyst: KJM/PAM

Date: 11/8/92

6" \leftarrow 1/4

COMPATIBILITY DATA SHEET

Sample No: D052 Laboratory No: 6-806 Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (COLORLESS) w/ SOLID (ORANGE)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	<u>Yes</u>	No
pH		<4	<u>4-10</u> >10
Bielstein (chlorinated organics)		<u>Yes</u>	No
Flashpoint specific <u>FLAMMABLE</u>		<u><70</u>	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

21% >1%

CLASSIFICATION: FLAMMABLE LIQUID #1 ^{KM} ~~#2~~
 PID HEADSPACE = 249 PPM

Analyst: KJM/PAM

Date: 11/8/92

6" < 1/4

COMPATIBILITY DATA SHEET

Sample No: 0053 Laboratory No: 6-B07 Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: OIL (BROWN TINTS OF GREEN & RED)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	<u>Yes</u>	No
pH	<4	<u>4-10</u> 5	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific <u>Between 100 AND 200</u>	<70	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT 21% 71%

CLASSIFICATION: COMBUSTIBLE LIQUID #2

PID - HEADSPACE = 6.4 PPM

Analyst: KYM/PAM

Date: 11/8/92

6" < 1/4

COMPATIBILITY DATA SHEET

Sample No: 0054

Laboratory No: 6-808

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: OIL BROWN

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	<u>Yes</u>	No
pH		<4	<u>4-10</u> >10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific <u>FLAMMABLE</u>	<u><70</u>	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

21% 71%

CLASSIFICATION: FLAMMABLE SOLID #1

P10 HEADSPACE = 256 PPM.

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 055 Laboratory No: 6-B10 Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: SOLID (white powder)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>part</u> <u>Yes</u>	<u>No</u>
	Hexane	Yes	<u>No</u>
pH	<4	4-10	<u>>10</u> 13
Bielstein (chlorinated organics)		<u>Yes</u>	No
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		<u>Yes</u>	No
Peroxide		Yes	<u>No</u>
Density	<u>~1 part</u>	< 1	<u>> 1</u>
Reactivity	Sulfide	<u>Yes</u>	No
	Cyanide	Yes	<u>No</u>

WATER CONTENT

<1% 71%

CLASSIFICATION: CORROSIVE SOLID*2 OXIDIZER SULFIDE

PFO HEAD SPACE = 86 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0056 Laboratory No: 6-B11 Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: SOLID (white crystals)

PARAMETER		RESULTS
Air Reactive		Yes <u>(No)</u>
Water Reactive		Yes <u>(No)</u>
Solubility	Water	Yes <u>(No)</u>
	Hexane	Yes <u>(No)</u>
pH		<4 <u>4-10</u> ₄ >10
Bielstein (chlorinated organics)		Yes <u>(No)</u>
Flashpoint specific _____		<70 <u>>180</u>
Oxidizer		Yes <u>per</u> <u>(No)</u>
Peroxide		Yes <u>(No)</u>
Density		< 1 <u>> 1</u>
Reactivity	Sulfide	Yes <u>(No)</u>
	Cyanide	Yes <u>(No)</u>

WATER CONTENT

21% 71%

CRYSTALS MELT IN BOTH ACID & FLAME.

CLASSIFICATION: BASE NEUTRAL SOLID #1

PID HEADSPACE = 1.1 PPM.

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0057

Laboratory No: 6-B03

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (colorless) w/ SOLID (GRAY)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 6	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density	<u>LIQUID ≈ 1</u>	< 1	> 1 = SOLID
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1%

71%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #3

PID HEADSPACE = 86 ppm

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D058

Laboratory No: 6-B11

Phase: _____

Description:

Container: GLASS

Number of Phases: 1 2 3 _____

Physical Appearance: SOLID (DK BROWN / GREASE LIKE) ^{HARDENED}

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	Yes	No
		<i>PARTIAL - LT BROWN - color change to the Hexane.</i>	
pH	< 4	<u>4-10</u> 5	> 10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	< 70	<u>> 180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

< 1% > 1%

CLASSIFICATION: BASE NEUTRAL SOLID # 1

PID HEADSPACE = 1.0 PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: D060

Laboratory No: 6-803

Phase: _____

Description:

Container: GLASS

Number of Phases: ① 2 3 _____

Physical Appearance: LIQUID (COLORLESS) w/ SOLID (OK GR)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH	<4	<u>4-10</u> 6	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	<70	<u>>180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>≈ 1</u>	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

water content

1%

7%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #3

PID HEADSPACE = BG PPM

Analyst: KJM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0061

Laboratory No: 6808

Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: SOLID GREASE / GRAY & BROWN INTERMIX

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	<u>Yes</u>	No
pH	<4	<u>4-10</u> 5	>10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific <u>FLAMMABLE</u>	<u><70</u>	>180
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>< 1</u>	> 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

Water Content

21% > 1%

CLASSIFICATION: FLAMMABLE SOLID #1

PID HEADSPACE = 257 PPM.

Analyst: RIM/PAM

Date: 11/8/92

COMPATIBILITY DATA SHEET

Sample No: 0062

Laboratory No: 6-B01

Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: Liquid (colorless) w/ solid (orange)

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	<u>Yes</u>	No
	Hexane	Yes	<u>No</u>
pH		< 4	<u>4-10</u> 5 > 10
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint specific _____		< 70	<u>> 180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		<u>≈ 1</u>	< 1 > 1
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

water content

< 1% 7%

CLASSIFICATION: BASE NEUTRAL LIQUID w/ SOLIDS #1

PID-HEAD SPACE = 36 ppm

Analyst: KJM/PAM

Date: 11/8/93

COMPATIBILITY DATA SHEET

Sample No: 0067

Laboratory No: 6-809

Phase: _____

Description:

Container: GLASS

Number of Phases: (1) 2 3 _____

Physical Appearance: SOLID Crystalline/white & Brown

PARAMETER		RESULTS	
Air Reactive		Yes	<u>No</u>
Water Reactive		Yes	<u>No</u>
Solubility	Water	Yes	<u>No</u>
	Hexane	Yes	<u>No</u>
pH	< 4	4-10	<u>> 10</u> 12
Bielstein (chlorinated organics)		Yes	<u>No</u>
Flashpoint	specific _____	< 70	<u>> 180</u>
Oxidizer		Yes	<u>No</u>
Peroxide		Yes	<u>No</u>
Density		< 1	<u>> 1</u>
Reactivity	Sulfide	Yes	<u>No</u>
	Cyanide	Yes	<u>No</u>

WATER CONTENT

(21%) 71%

CLASSIFICATION: CORROSIVE SOLID #1

PID HEADSPACE = BLPPM

Analyst: KJM/PAM

Date: 11/8/92

Appendix J
Investigation-Derived Waste Summary
and Recommendation



Baker Environmental, Inc.
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(412) 269-6000
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January 18, 1993

Commanding Officer
Atlantic Division
Naval Facilities Engineering Command
Building N-26, Naval Station
Norfolk, Virginia 23511-6287

Attn: Mr. Byron Brant, P.E.
Code 1823

Re: Contract N62470-89-D-4814
Navy CLEAN District III
Contract Task Order (CTO) 0133
Investigation-Derived Waste Summary and Recommendations

Dear Mr. Brant:

Investigation-derived wastes (IDW) were generated during the recent field investigations at Sites 6, 9, and 48 located at Marine Corps Base (MCB) Camp Lejeune and New River Marine Corps Air Station (MCAS) in Jacksonville, North Carolina. These IDW included soil cuttings and drilling mud (solids), well development and purge water, and decontamination fluids (liquids). Presently, the solids are being stored in five, 20 cubic yard roll-off boxes and the liquids are being stored in a tanker truck, steel tanks, and steel 55-gallon drums. Both the liquids and solids are being stored within Storage Lot 203 at Site 6. Table 1 provides a summary of the various IDW and estimated volumes.

On November 10, 1992, samples were collected from the various IDW streams for laboratory analysis. For the solids, a single composite sample (composed of three grab samples from each roll-off box) was submitted for analysis of full Toxicity Characteristic Leaching Procedure (TCLP) compounds and the Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics of ignitability, corrosivity, and reactivity. These analyses were selected based on soil disposal requirements.

Liquid wastes were first segregated into four groups prior to sampling. These groups are defined as follows:

- Group 1 - Potentially noncontaminated groundwater from Site 6 shallow wells, deep wells 6GW2D and 6GW7D, and all Site 9 and Site 48 wells.
- Group 2 - Potentially contaminated groundwater from Site 6 deep wells 6GW1D, 6GW27D, and 6GW28D.

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Mr. Byron Brant, P.E.
Naval Facilities Engineering Command
January 18, 1993 - Page 2

- Group 3 - Excess water pumped from drums containing drilling mud and from roll-off boxes.
- Group 4 - Decontamination fluids consisting of Alconox soap solution, water, isopropanol alcohol, and 10 percent nitric acid.

Segregation of water was based on field observations and screening techniques (i.e., photoionization meter readings, odor and appearance). The four samples were analyzed for full Target Compound List (TCL) organics and Target Analyte List (TAL) inorganics in accordance with CLP protocols. These parameters are the same as those analyzed during the groundwater investigation.

Table 2 compares the analytical results against the contaminants applicable to identify the wastes as potentially hazardous by characteristic under RCRA for purposes of proper handling and disposal. Tables 3 and 4 summarize the organic and inorganic contaminants detected in the liquid IDW samples, respectively. The results provided on Tables 3 and 4 may be useful to the TSD to determine appropriate treatment and disposal options.

CONCLUSIONS AND RECOMMENDATIONS - SOLID IDW

Composite sample 6-RBC analysis from the roll-off boxes did not exhibit any contaminant at levels which exceed the regulatory level as defined by RCRA. Therefore, the soil is not a hazardous waste by characteristic.

Based on the analytical results of the IDW solids, several disposal alternatives are available. These alternatives include on-site disposal, off-site disposal in an "industrial" type landfill or treatment at a licensed treatment, storage, and disposal (TSD) facility. The most feasible option, however, is to return the solid wastes to the site. This alternative is acceptable (and encouraged) at Superfund sites per U. S. Environmental Protection Agency (EPA) Management of IDW Guidelines (see Attachment 1). If this option is approved, the soil could be disposed of within Storage Lot 203 where it is presently being stored.

CONCLUSIONS AND RECOMMENDATIONS - LIQUID IDW

Concentrations of several organics and inorganics were detected in all four water samples. Organic constituents detected included acetone, trichloroethene (TCE), 1,2-dichloroethene, 2-methylnaphthalene, bis (2-ethylhexyl) phthalate, and 4,4'-DDD. Inorganic constituents detected included 20 different metals and cyanide. Groups 1, 3, and 4 IDW liquids are not hazardous by characteristic; however, Groups 3 and 4 IDW liquids exhibited organic and inorganic contamination above drinking water standards (see Tables 3 and 4). Group 1 IDW liquids are considered "clean" since no contaminants were detected above Federal or State drinking water standards. Group 2 IDW liquids are hazardous since TCE levels exceed the RCRA regulatory level of 5.0 mg/l (see Table 2).

As discussed above, three of the four groups (approximately 3,200 gallons total from Groups 2, 3, and 4) contained organic and inorganic constituents. A recent telephone conversation with Mr. Thomas Morris, of the Camp Lejeune Environmental Management

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Mr. Byron Brant, P.E.
Naval Facilities Engineering Command
January 18, 1993 - Page 3

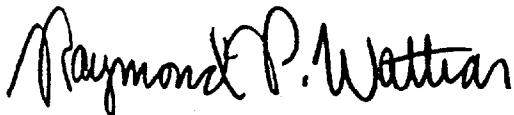
Department (EMD), indicated that these wastes could not be discharged into any of the base wastewater treatment systems for disposal. Therefore, it is recommended that these wastes be removed from the site via a vacuum truck and transported to a licensed TSD facility. For Group 1 (approximately 5,000 gallons), which exhibited only low levels of acetone, the wastes can be transported to a base wastewater treatment system for disposal since these liquids are not hazardous, nor contain elevated levels of organics or inorganics. This activity can be performed during the next phase of the field investigation scheduled in February. Once this tanker has been emptied, it can be reused for storage of water generated during the expanded deep groundwater investigation.

Baker is currently obtaining estimates for transporting and disposing the IDWs. Because these costs are not included in the original estimate, a modification to the CTO budget will be necessary. Labor costs associated with coordinating and managing these efforts are not reflected in the current budget. Baker will begin efforts to dispose of these wastes upon written authorization to proceed.

If you have any questions, please do not hesitate to contact me at (412) 269-2016.

Sincerely,

BAKER ENVIRONMENTAL, INC.



Raymond P. Wattras
Project Manager

RPW/REB/lmn
Attachments

cc: Mr. George Radford (MCB Camp Lejeune)
Ms. Lee Anne Rapp (w/o attachment)
Mr. Keith Simmons (w/o attachment)

TABLE 1

SUMMARY OF INVESTIGATION-DERIVED WASTES AND ESTIMATED VOLUMES

Sample Number	Medium	Group(1)	Quantities	Containment	Estimated Volume	Total Estimated Volume per Group
6-RBC	Solids	NA(2)	5	Roll-Off Boxes	90 cubic yards	90 cubic yards
6-WW1	Liquids	1	1 1 3(3)	Tanker Truck Steel Tank Steel 55-gallon Drums	5,000 gallons 500 gallons 140 gallons	5,640 gallons
6-WW2	Liquids	2	1 1	Steel Tank Steel Tank	1,000 gallons 500 gallons	1,500 gallons
6-WW3	Liquids	3	24	Steel 55-gallon Drums	1,100 gallons	1,100 gallons
6WW4	Liquids	4	11	Steel 55-gallon Drums	600 gallons	600 gallons

Notes: (1) Groups are defined for liquids by contamination potential and content.

Group 1 - potentially non-contaminated water

Group 2 - potentially contaminated water

Group 3 - excess water pumped from drums containing drilling mud

Group 4 - decontamination fluids

(2) NA - Not Applicable; roll-off box sample

(3) 55-gallon drums not filled to capacity.

TABLE 2

COMPARISON OF ANALYTICAL RESULTS AGAINST RCRA HAZARDOUS WASTE CHARACTERISTIC PARAMETERS

EPA HW No.	Contaminant	Regulatory Level (mg/L)	6-RBC ⁽¹⁾ (mg/L)	6-WW1 ⁽²⁾⁽³⁾ (mg/L)	6-WW2 ⁽²⁾⁽⁴⁾ (mg/L)	6-WW3 ⁽²⁾ (mg/L)	6-WW4 ⁽²⁾⁽⁵⁾ (mg/L)
D004	Arsenic	5.0	0.04U	0.003U	0.005U	0.0513	0.0121
D005	Barium	100.0	0.264	0.0246	0.072	0.519	0.205
D018	Benzene	0.5	0.005U	0.1U	1.0U	0.01U	5.0U
D006	Cadmium	1.0	0.0026	0.0019U	0.002	0.0099U	0.006
D019	Carbon tetrachloride	0.5	0.005U	0.1U	1.0U	0.01U	5.0U
D020	Chlordane	0.03	0.00017U	0.00005U	0.00005U	0.00005U	0.00005U
D021	Chlorobenzene	100.0	0.005U	0.1U	1.0U	0.01U	5.0U
D022	Chloroform	6.0	0.005U	0.1U	1.0U	0.01U	5.0U
D007	Chromium	5.0	0.0055	0.0036U	0.0275	0.303	0.158
D026	Cresol	200.0	0.033U	NA	NA	NA	NA
D016	2,4-D	10.0	0.033U	NA	NA	NA	NA
D027	1,4-Dichlorobenzene	7.5	0.033U	0.01U	0.01U	0.01U	0.05U
D028	1,2-Dichloroethane	0.5	0.005U	0.1U	1.0U	0.01U	5.0U
D029	1,1-Dichloroethylene	0.7	0.005U	0.1U	1.0U	0.01U	5.0U
D030	2,4-Dinitrotoluene	0.13	0.033U	0.01U	0.01U	0.01U	0.05U
D012	Endrin	0.02	0.00033U	0.0001U	0.0001U	0.0001U	0.00001U
D031	Heptachlor (and its epoxide)	0.008	0.00017U	0.00005U	0.00005U	0.00005U	0.00005U
D032	Hexachlorobenzene	0.13	0.033U	0.01U	0.01U	0.01U	0.05U
D033	Hexachlorobutadiene	0.5	0.033U	0.01U	0.01U	0.01U	0.05U
D034	Hexachloroethane	3.0	0.033U	0.01U	0.01U	0.01U	0.05U
D008	Lead	5.0	0.022U	0.0033	0.0074U	0.242	0.12
D013	Lindane	0.4	0.00017U	0.00005U	0.00005U	0.00005U	0.00005U
D009	Mercury	0.2	0.00004U	0.00004U	0.00004U	0.00011	0.00022

CLEJ-01272-3.13-08/20/93

TABLE 2

COMPARISON OF ANALYTICAL RESULTS AGAINST RCRA HAZARDOUS WASTE CHARACTERISTIC PARAMETERS

EPA HW No.	Contaminant	Regulatory Level (mg/L)	6-RBC ⁽¹⁾ (mg/L)	6-WW1 ⁽²⁾⁽³⁾ (mg/L)	6-WW2 ⁽²⁾⁽⁴⁾ (mg/L)	6-WW3 ⁽²⁾ (mg/L)	6-WW4 ⁽²⁾⁽⁵⁾ (mg/L)
D014	Methoxychlor	10.0	0.0017U	0.0005U	0.0005U	0.0005U	0.0005U
D035	Methyl ethyl ketone	200.0	0.01U	0.1U	1.0U	0.01U	5.0U
D036	Nitrobenzene	2.0	0.033U	0.01U	0.01U	0.01U	0.05U
D037	Pentachlorophenol	100.0	0.083U	0.025U	0.025U	0.025U	0.12U
D038	Pyridine	5.0	0.033U	NA	NA	NA	NA
D010	Selenium	1.0	0.257	0.005U	0.005U	0.025U	0.025U
D011	Silver	5.0	0.002U	0.002U	0.002U	0.002U	0.002U
D039	Tetrachloroethylene	0.7	0.005U	0.1U	1.0U	0.01U	5.0U
D015	Toxaphene	0.5	0.017U	0.005U	0.005U	0.005U	0.005U
D040	Trichloroethylene (TCE)	0.5	0.005U	0.1U	13	0.11	5.0U
D041	2,4,5-Trichlorophenol	400.0	0.083U	0.025U	0.025U	0.025U	0.12U
D042	2,4,6-Trichlorophenol	2.0	0.033U	0.01U	0.01U	0.01U	0.05U
D017	2,4,5-TP (Silvex)	1.0	0.1U	NA	NA	NA	NA
D043	Vinyl Chloride	0.2	0.01U	0.1U	1.0U	0.01U	5.0U
D001	Ignitability	FP <120°	>200°F	NA	NA	NA	NA
D002	Corrosivity	pH ≤ 2 or ≥ 12.5	9.52	NA	NA	NA	NA
D003	Reactivity Sulfide (mg/kg) Cyanide (mg/kg)	40 CFR 261.23	3.0U 0.6U	NA NA	NA NA	NA NA	NA NA

- (1) Analyzed for Full TCLP and RCRA Hazardous Waste Characteristics.
(2) Samples analyzed for Full TCL Organics/TAL Inorganics per CLP procedures.
(3) Volatile organic fraction analyzed at 10x dilution.
(4) Volatile organic fraction analyzed at 100x dilution.
(5) Volatile organic fraction analyzed at 500x dilution.

U - Not detected at Contract Required Quantitation Limit (CRQL).
NA - Not Analyzed

TABLE 3

ORGANIC COMPOUNDS DETECTED IN INVESTIGATION DERIVED WASTE SAMPLES

Sample Number	Medium	Group	Volatile Organics			Semivolatile Organics		Pesticide Organics
			Acetone	Trichloro-ethene	1,2-Dichloro-ethene (total)	2-methyl-naphthalene	bis (2-ethylhexyl) phthalate	
6-WW1	Liquids	1	930	--	--	--	--	--
6-WW2	Liquids	2	--	13,000	--	--	--	--
6-WW3	Liquids	3	36	110	47	--	--	0.171
6WW4	Liquids	4	44,000	--	--	98	76	--

Notes: (1) -- Denotes not detected at Contract Required Quantitation Level (CRQL)

Results shown in micrograms per liter (µg/L).

Note: Only contaminants detected above CRQL are listed.

TABLE 4
INORGANIC COMPOUNDS DETECTED IN INVESTIGATION DERIVED WASTE SAMPLES

Sample Number	Medium	Group	Inorganic Constituents									
			Beryllium	Barium	Selenium	Aluminum	Arsenic	Cadmium	Calcium	Chromium	Copper	Iron
6-WW1	Liquids	1	--	--	--	5,140	--	--	36,200	--	--	2,630
6-WW2	Liquids	2	--	--	--	9,480	--	--	137,000	27.5	--	12,800
6-WW3	Liquids	3	7.2	519	--	112,000	51.3	9.9	825,000	303	83.1	92,100
6WW4	Liquids	4	--	205	--	87,100	12.1	6.0	39,800	158	76.2	233,000

Notes: (1) -- Denotes not detected at Contract Required Quantitation Level (CRQL)

Results shown in micrograms per liter ($\mu\text{g/L}$).

Note: Only contaminants detected above CRQL are listed.

TABLE 4 (Continued)

INORGANIC COMPOUNDS DETECTED IN INVESTIGATION DERIVED WASTE SAMPLES

Sample Number	Medium	Group	Inorganic Constituents										
			Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Vanadium	Zinc	Cyanide	pH (S.U.)
6-WW1	Liquids	1	3.3	--	49.9	--	--	5,240	21,700	--	--	--	7.6
6-WW2	Liquids	2	7.4	5,150	172	--	--	6,320	16,800	--	81	--	7.6
6-WW3	Liquids	3	242	48,000	838	--	62.8	26,300	102,000	246	929	--	10.0
6WW4	Liquids	4	120	--	1,430	0.22	102	27,800	52,100	108	598	65.5	4.5

Notes: (1) -- Denotes not detected at Contract Required Quantitation Level (CRQL)

Results shown in micrograms per liter ($\mu\text{g/L}$).

Note: Only contaminants detected above CRQL are listed.

ATTACHMENT 1

GUIDE TO MANAGEMENT OF INVESTIGATION DERIVED WASTES

United States
Environmental Protection
Agency

Office of
Solid Waste and
Emergency Response

Publication: 9345.3-03FS
April 1992



Guide to Management of Investigation-Derived Wastes

Office of Emergency and Remedial Response
Hazardous Site Control Division OS-220W

Quick Reference Fact Sheet

CERCLA field investigation activities (e.g., remedial investigation/feasibility studies and remedial designs) may result in the generation of waste materials that may pose a risk to human health and the environment. These investigation-derived wastes (IDW) may include drilling muds, cuttings, and purge water from test pit and well installation; purge water, soil, and other materials from collection of samples; residues (e.g., ash, spent carbon, well development purge water) from testing of treatment technologies and pump and treat systems; contaminated personal protective equipment (PPE); and solutions (aqueous or otherwise) used to decontaminate non-disposable protective clothing and equipment. The management of IDW must ensure protection of human health and the environment and comply with (or waive) regulatory requirements that are applicable or relevant and appropriate requirements (ARAR). This fact sheet presents an overview of possible IDW management options, discusses the protectiveness requirements and ARARs associated with these options, and outlines general objectives established for IDW management under Superfund.¹

The general options for managing IDW (see Highlight 1) are collection and either (1) immediate disposal or (2) some type of interim management. Interim management may include storage or temporary measures. As discussed below, the specific option selected will depend on the type of waste produced, its relative threat to human health and the environment, and other site-specific conditions.

IDW MANAGEMENT REQUIREMENTS

When managing IDW, site managers are required to choose an option that: (1) is protective of human health and the environment and (2) complies with (or waives) ARARs, as described below.

Protectiveness

In determining if a particular management/disposal option is protective, site managers should consider the following:

- The contaminants, their concentrations, and total volume of IDW;
- Media potentially affected (e.g., ground water, soil) under management options;
- Location of the nearest population(s) and the likelihood and/or degree of site access;

¹ Management of treatability study and treatment pilot wastes is discussed in Guide for Conducting Treatability Studies Under CERCLA, Interim Final, December 1989, EPA/540/2-89/058. Information on management of IDW generated during Preliminary Assessments and Site Investigations is provided in Management of Investigation-Derived Waste During Site Investigations, May 1990, EPA/540/G-91/009.

- Potential exposures to workers; and
- Potential for environmental impacts.

As a general rule, it will be necessary to use best professional judgment, in light of the site-specific conditions, to determine whether an option is protective of human health and the environment. For example, a site manager may determine that storing IDW temporarily until the final action or returning IDW to its source is protective, based on knowledge that the material poses low risk and/or that the final action will address any risks posed by the wastes and there will be no unacceptable risks in the interim.

Alternatively, if the site includes or is near residential areas, the site is unsecured, and/or contaminants appear to be present at unacceptable levels, it may not be protective to return excavated soil to the source. Storing IDW in containers in an on-site, secure location, or sending it off site immediately may be more appropriate.

Site managers also need to consider the potential effects of IDW management-related activities on environmental media. For example, pouring contaminated purge water on the ground around a well may not be prudent, because such an action could mobilize any hazardous constituents present in the soil or introduce contaminants into clean soil.

Compliance with ARARs

Remedial Investigation/Feasibility Study (RI/FS) and Remedial Design (RD) actions must comply with ARARs "to the extent practicable, considering the exigencies of the situation" (NCP, 55 FR 8756, emphasis added); therefore, it generally will not be necessary to obtain a waiver if an ARAR cannot be attained during these actions. If a site manager determines that, based on site-

Highlight 1: IDW MANAGEMENT OPTIONS

<u>Type of IDW</u>	<u>Generation Processes*</u>	<u>Management Options</u>
Soil	<ul style="list-style-type: none"> • Well/test pit installation • Borehole drilling • Soil sampling 	<ul style="list-style-type: none"> • Return to boring, pit, or source immediately after generation • Spread around boring, pit, or source within the AOC⁺ • Consolidate in a pit (within the AOC) • Send to on-site TDU⁺ • Send to TDU off site immediately • Store for future treatment and/or disposal
Sludges/sediment	<ul style="list-style-type: none"> • Sludge pit/sediment sampling 	<ul style="list-style-type: none"> • Return to boring, pit, or source immediately after generation • Send to on-site TDU • Send to TDU off site immediately • Store for future treatment and/or disposal
Aqueous liquids (ground water, surface water, drilling fluids, other wastewaters)	<ul style="list-style-type: none"> • Well installation/development • Well purging during sampling • Ground water discharge during pump tests • Surface water sampling 	<ul style="list-style-type: none"> • Discharge to surface water • Pour onto ground close to well (non-hazardous waste) • Send to on-site TDU • Send to off-site commercial treatment unit • Send to POTW⁺ • Store for future treatment and/or disposal
Decontamination fluids	<ul style="list-style-type: none"> • Decontamination of PPE⁺ and equipment 	<ul style="list-style-type: none"> • Send to on-site TDU • Evaporate (for small amounts of low contamination organic fluids) • Send to TDU off site immediately • Store for future treatment and/or disposal
Disposable PPE	<ul style="list-style-type: none"> • Sampling procedures or other on-site activities 	<ul style="list-style-type: none"> • Send to on-site TDU • Place in on-site industrial dumpster • Send to TDU off site immediately • Store for future treatment and/or disposal

* The generation processes listed here are provided as examples. IDW may also be produced as a result of activities not listed here.
)+ AOC: Area of Contamination (AOCs at a site may not yet have been identified at the time of the RI/FS); TDU: Treatment/disposal Unit; POTW: Publicly Owned Treatment Works; PPE: Personal Protective Equipment

cific factors, compliance with an ARAR is practicable but an ARAR waiver is warranted for an RI/FS or RD action, an interim action waiver may be available if the final remedy will attain the ARAR. An action memorandum should be prepared for the waiver, the state given an opportunity to comment, and the decision document placed in the administrative record.

Potential ARARs for IDW at CERCLA sites include regulations under the Resource Conservation and Recovery Act (RCRA) (including both Federal and State underground injection control (UIC) regulations), the Clean Water Act (CWA), the Clean Air Act (CAA), the Toxic Substances Control Act (TSCA), and other State environmental laws. How these various requirements may direct or influence IDW management decisions is described below.

Resource Conservation and Recovery Act (RCRA). Certain sections of the RCRA Subtitle C hazardous waste regulations (e.g., land disposal restrictions and storage restrictions) may be ARARs for IDW should RCRA hazardous waste be identified at a site. (Note that RCRA may be relevant and appropriate even if the IDW is not a RCRA hazardous waste.) A waste is hazardous under RCRA if it is listed as such in 40 CFR 261.31 - 261.33 or if it exhibits one of four characteristics: ignitability, corrosivity, reactivity, or toxicity.

Site managers should not assume that a waste considered to pose a potential risk at a CERCLA site is a listed or characteristic RCRA hazardous waste. Until there is positive evidence (records, test results, other knowledge of waste properties) that the IDW is a RCRA hazardous waste, site managers should manage it in a protective manner (but not necessarily in accordance with Subtitle C requirements). Business records or facility processes should be examined to determine whether RCRA listed wastes were generated and are present in the IDW. For characteristic wastes, site managers should rely on testing results or on knowledge of the material's properties. If best professional judgment and available information indicate that, for protectiveness reasons (or because RCRA requirements are relevant and appropriate), IDW is best managed as a "hazardous waste," management in accordance with Subtitle C requirements is prudent, regardless of whether it is known to be a RCRA waste.

If aqueous liquid IDW is considered a RCRA hazardous waste, the site manager should determine whether the Domestic Sewage Exclusion (DSE) applies to the discharge of that IDW to a POTW. The RCRA DSE exempts domestic sewage and any mixture of domestic sewage and other wastes that passes through a sewer system to a POTW for treatment from classification as a solid waste and, therefore, as a RCRA hazardous waste (40 CFR 261.4).

- Land Disposal Restrictions

If IDW is determined to be a RCRA hazardous waste and subject to the land disposal restrictions (LDRs), "land disposal" of the IDW will be prohibited unless specified treatment standards are met (see Superfund LDR Guides #5 and #7, Determining When LDRs Are Applicable to CERCLA Response Actions and Determining When LDRs Are Relevant and Appropriate to CERCLA Response Actions, OSWER Directive 9347.3-05FS and

9347.3-08FS, June 1989 and December 1989 and the NCP, 55 FR 8759, March 8, 1990). "Land disposal" occurs when wastes from different AOCs are consolidated into one AOC; when wastes are moved outside an AOC (for treatment or storage) and returned to the same or a different AOC; or when wastes are excavated, placed in a separate hazardous waste management unit such as an incinerator or tank within the AOC, and then redeposited into the AOC.

Storing IDW in a container ("a portable device in which a material is stored, transported, treated, disposed of, or otherwise handled" (40 CFR 260.10)) within the AOC and then returning it to its source, however, is allowable without meeting the specified LDR treatment standards. Under the definition of "hazardous waste management unit" (40 CFR 260.10), EPA states that "a container alone does not constitute a unit; the unit includes the containers and the land or pad upon which they are placed." Therefore, returning IDW that has been stored in containers (not tanks or other RCRA-regulated units) within the AOC to its source does not constitute land disposal, as long as containers are not managed in such a manner as to constitute a RCRA storage unit as defined in 40 CFR 260.10. In addition, sampling and direct replacement of wastes within an AOC do not constitute land disposal.

- Storage

Subtitle C outlines the storage requirements for RCRA hazardous wastes. Under RCRA, "storage" is defined as "the holding of hazardous waste for a temporary period, at the end of which the hazardous waste is treated, disposed of, or stored elsewhere" (40 CFR 260.10).

On-site Superfund actions are only required to comply with the substantive standards of other laws (see 40 CFR 300.5, definitions of applicable or relevant and appropriate requirements). Superfund sites are also exempt from permit requirements under CERCLA §121(e). Therefore, site managers are not required to comply with administrative requirements triggered by RCRA storage deadlines (e.g., contingency planning, inspections, recordkeeping). Generally equivalent administrative activities are undertaken at Superfund sites, however, under existing Superfund management practices.

Site managers storing known RCRA hazardous waste must comply with the substantive, technical requirements of 40 CFR Parts 264 and 265 Subparts I (containers), J (tanks), and L (waste piles), to the extent practicable. (See Highlight 2 for a summary of these technical requirements for each type of unit). In addition, the ground-water monitoring requirements of 40 CFR Parts 264 and 265 Subpart F are potential ARARs, and to the extent they are determined to be ARARs at a site, they should be attained to the extent practicable (or waived). (In many cases, ground-water monitoring conducted during the RI/FS will provide protection equivalent to the Subpart F requirements.)

[NOTE: Under the LDRs, restricted RCRA hazardous waste may not be stored at a site unless the storage is solely for the purpose of accumulating sufficient quantities of the waste to facilitate proper disposal, treatment, or recovery (see 40 CFR 268.50). Generally, storing IDW until a final disposal option is

**Highlight 2:
EXAMPLES OF RCRA TECHNICAL STORAGE
REQUIREMENTS***

RCRA storage requirements, applicable to both less-than-90-days generators and permitted or interim status storage facilities, may include the following substantive requirements:

Containers 40 CFR 264 Subpart I and 265 Subpart I

- Containers must be in good condition
- Wastes must be compatible with container
- Container must be closed during storage
- Container storage areas must have a containment system that can contain 10 percent of the volume of containers or of the largest container
- Spilled or leaked waste must be removed from the collection area as necessary to prevent overflow

Tanks 40 CFR 264 Subpart J and 265 Subpart J

- Tanks must have a secondary containment system that includes a liner, a vault, a double-walled tank, or an equivalent device (applies only to certain tanks)

Waste Piles 40 CFR 264 Subpart L and 265 Subpart L

- Waste piles must have a liner and a leachate collection and removal system
- Owners/operators must have a run-on control system to prevent flow onto the active portion of the pile during peak discharge from at least a 25-year storm
- Owners/operators must have a run-off management system to collect and control at least the water volume resulting from a 24-hour, 25-year storm
- * This is a partial list of substantive requirements. For more detail, see 40 CFR Part 264 and 265.

selected in a Record of Decision (ROD) and implemented during the remedial action is allowable storage under the RCRA LDR storage prohibition.]

• **Recordkeeping and Manifesting**

If hazardous wastes are sent off site, the site manager must comply with both administrative and substantive elements of the RCRA generator requirements of 40 CFR Part 262 and LDR notification and certification requirements of Part 268. (For example, a site manager must prepare an LDR notification and certification when restricted wastes are sent off site to a land disposal facility.) These standards include requirements such as manifests for shipping waste that list all hazardous waste listings and characteristics applicable to the waste (see 40 CFR 262.11), packaging and transport requirements, and recordkeeping requirements.

If the LDRs are applicable, the following information should be collected and available before the removal of wastes to an off-site disposal facility: EPA hazardous waste number, LDR treatment standards, manifest number for the waste shipment, and waste analysis data.

• **Underground Injection Control (UIC) Program**

Under the UIC regulations, RCRA hazardous wastes may be injected into Class I permitted wells. In some cases, hazardous liquids, such as extracted ground water from pump and treat operations, may be injected into a Class IV UIC well. For example, ground water contaminated with RCRA hazardous wastes may be injected into Class IV permitted wells if it is part of a CERCLA response action or a RCRA corrective action and if it has been treated to "substantially reduce hazardous constituents prior to such injection..." (RCRA § 3020(b)). (See Applicability of Land Disposal Restrictions to RCRA and CERCLA Ground Water Treatment Reinjection, OSWER Directive #9234.1-06, December 1989.)

• **Non-RCRA Hazardous Wastes**

Some non-RCRA hazardous waste may be subject to management requirements under Subtitle D of RCRA as solid wastes. Subtitle D regulates disposal of solid waste in facilities such as municipal landfills. Therefore, non-RCRA hazardous IDW, such

as decontaminated PPE or equipment, may need to be disposed of in a Subtitle D facility (depending on State requirements).

Clean Water Act (CWA). Discharges of aqueous IDW to surface water and publicly owned treatment works (POTWs) may be required to comply with CWA Federal, State, and local requirements. Requirements to be met may include water quality criteria, pre-treatment standards, State water quality standards, and NPDES permit conditions. Direct discharges to on-site waters are subject only to substantive requirements, while discharges to POTWs and other off-site discharges must comply with both substantive and administrative CWA requirements (including permitting requirements). (See Guide to Discharging CERCLA Aqueous Wastes to POTWs, June 1991 and CERCLA Compliance with the CWA and SDWA, #9234.2-06FS, January 1991.)

Toxic Substances Control Act (TSCA). If IDW contains PCBs, TSCA treatment and/or disposal requirements may apply during its management. TSCA requirements regulate the disposal of material contaminated with PCBs at concentrations of 50 ppm or greater as found on site (i.e., based on sample analysis and not the PCB concentration of the source material (e.g., transformer fluid)). (See PCB Guidance Manual, EPA/540/G-90/007, August 1990.) In addition, TSCA storage requirements may apply that limit the time that PCBs may be stored to one year. Furthermore, if PCB materials are mixed with a RCRA hazardous waste, they may be regulated by the LDR California list prohibitions. (See RCRA sections 3004(d)(2)(D) and (E).)

Department of Transportation (DOT) requirements. Where IDW will be disposed of off site or transported on public roads to a site,

requirements for containerizing, labeling, and transporting hazardous materials and substances may apply.

State requirements. Promulgated State regulations that are legally enforceable, timely identified, and more stringent than Federal regulations may be potential ARARs for IDW managed on site. Substantive requirements of State law that may be ARARs for IDW management include State water quality standards, direct discharge limits, and RCRA requirements (including underground injection control regulations) promulgated in a State with an authorized RCRA hazardous waste management program (as well as programs authorized by State laws). Off-site, substantive and administrative requirements of State law may apply.

Off-Site Policy. In addition to complying with requirements of Federal and State laws, all off-site disposal of wastes must comply with CERCLA section 121(d)(3) and the CERCLA Off-Site Policy (OSWER Directive No. 9834.11 (November 13, 1987)). The Off-Site Policy establishes criteria for selecting an appropriate treatment, storage, or disposal facility (TSDF), including release criteria for all facilities that receive wastes from CERCLA-authorized or funded response actions. In addition, receiving facilities must be in compliance with all "applicable laws."

Before shipping wastes off site, approval should be obtained for the proposed disposal facility from EPA's Regional Off-Site Policy Coordinator. In addition, EPA has adopted a policy for Superfund wastes shipped out of State that written notification should be provided to receiving States (OSWER Directive 9330.2-07, September 14, 1989).

GENERAL OBJECTIVES FOR IDW MANAGEMENT

In addition to the two requirements of protectiveness and compliance with ARARs to the extent practicable (on site) or compliance with applicable law (off site), EPA has identified two general objectives that Superfund site managers should consider when managing IDW: (1) minimization of IDW generation; and (2) management of IDW consistent with the final remedy for the site. The extent to which these objectives can be achieved is highly dependent on site-specific circumstances.

IDW Minimization

Site managers should strive to minimize the generation of IDW to reduce the need for special storage or disposal requirements that may result in substantial additional costs yet provide little or no reduction in site risks relative to the final remedial action. Generation of IDW can be minimized through proper planning of all remedial activities that may generate IDW, as well as through use of screening information from the site inspection. The potential problems of managing IDW should be a factor in choosing an investigative method. Site managers may wish to consider techniques such as replacing solvent-based cleaners with aqueous-based cleaners for decontamination of equipment, reuse of equipment (where it can be decontaminated), limitation of traffic between clean and hot zones, and drilling methods and sampling techniques that generate little waste. Examples of such techniques include using gridding techniques to minimize the number of test

pits or using soil borings instead of test pits. Alternative drilling and subsurface sampling methods may include the use of small diameter boreholes, as well as borehole testing methods such as a core penetrometer instead of coring. Site managers should also be careful to keep hazardous wastes separate from nonhazardous wastes.

Management Consistent with Final Remedy

Most IDW (with the exception of non-indigenous IDW) generated during the course of an investigation are intrinsic elements of the site. If possible, IDW should be considered part of the site and should be managed with other wastes from the site, consistent with the final remedy. This will avoid the need for separate treatment and/or disposal arrangements.

Because early planning for IDW management can prevent unnecessary costs and the use of treatment or disposal capacity, IDW management should be considered as early as possible during the remedial process. A key decision to be made is whether the waste will best be treated/disposed of immediately or addressed with the final remedy. If addressed with the final remedy, IDW volumes should be considered in the FS. In addition, when IDW is stored on site, it should be managed as part of the first remedial action/operable unit that addresses the affected media.

SELECTION OF IDW DISPOSAL OPTIONS

The following sections present the Agency's presumptions for IDW management that have been established based on the above considerations. The actual option selected should be based upon best professional judgment and should take into account the following factors:

- The type and quantity of IDW generated (sludge/soil, aqueous liquid, non-indigenous IDW);
- Risk posed by managing the IDW on site (e.g., based on site access controls, contaminant concentrations);
- Compliance with ARARs, to the extent practicable (on site);
- IDW minimization; and
- Whether the final remedy is anticipated to be an off-site or on-site remedy (or this information is unknown) and whether IDW can be managed consistent with the final remedy.

Off-site Final Remedies

If a site manager believes that the final remedy will involve off-site disposal of wastes, EPA's presumption is to manage the IDW as part of the remedial action addressing the waste/medium. Thus, until the final action, the IDW may be stored (e.g., drummed, covered waste pile) or returned to its source. However, the management option selected should also take into account any protectiveness concerns, ARARs, and other relevant site-specific factors (e.g., weather, storage space, and public concern/perceptions).

There are several potential reasons why it may be advisable to IDW until the final action. First, because wastes at the site will be shipped off site eventually, returning IDW (especially sludges and soil) to its source would require that it be excavated again. Thus, site managers may consider it practical to containerize IDW as soon as it is generated. Second, storing IDW in containers may be more protective than returning it to its source. Third, because off-site actions may trigger such requirements as the LDRs, temporary storage will eliminate the need to meet these additional requirements until the final remedy.

In some cases, circumstances may lead site managers to choose to return the IDW to its source. This may be appropriate if it is determined that returning IDW to the source is protective and that storage at the site is not possible or practicable (i.e., given State or community concerns). In other cases, long-term storage may not be protective, and immediate off-site disposal may be a better option.

Off-site Remedy

Example: A site involves volatile organic RCRA hazardous wastes that will likely be sent off site for final treatment and disposal. Site conditions are such that temporary storage of IDW is considered protective until the remedial action begins. Because off-site disposal will trigger RCRA disposal requirements such as the LDRs and immediate containerization would be more protective than redepositing into the source area at the time of sampling, the site manager decides to containerize the IDW (and comply with RCRA substantive technical tank and container standards) until the final action is initiated.

On-site Final Remedies (or Final Management in an Unknown Location)

When final management of wastes is likely to occur on site, the management presumptions vary depending on the type of IDW produced.

Sludge/soil

Generally, the Agency expects sludge or soil IDW will be returned to its source if short-term protectiveness is not an issue. The reason behind this presumption is that IDW that may pose a risk to human health and the environment in the long term will be addressed by the final action. Storage of RCRA hazardous IDW in containers within the AOC prior to returning it to the source will not trigger the LDRs, as long as the containers are not managed in such a way as to constitute a RCRA storage unit as defined in 40 CFR 260.10. Therefore, it may be possible to store IDW temporarily before redispersing of it. However, EPA believes that, in many cases, returning sludges and soils to their source immediately will be protective and will avoid potentially increased costs and requirements associated with storage. Site-specific decisions on how to manage sludge and soil IDW may ultimately

vary from the presumption based on protectiveness, ARARs, and/or community concerns.

Sludge/Soil

Example 1: The soil at a site contains wastes that are expected to be stabilized on site during the final remedial action. The site manager determines that sending soil IDW off site is not cost-effective, because off-site disposal would involve testing and transport costs for a relatively small amount of waste. Instead, knowing that the site is secure and that redispersing the waste at the source will not increase site risk or violate ARARs, the site manager decides to return soil IDW to the source area from which it originated.

Example 2: A site manager determines that returning highly contaminated PCB wastes to the ground at a site is not protective because of the potential risks associated with the material; instead, the site manager chooses to drum the waste and send it off site (in compliance with TSCA). (Off-site disposal may occur immediately or at a later date.)

Example 3: Soil IDW contaminated with a RCRA hazardous waste is generated from a soil boring. The site manager decides to put the IDW back into the borehole immediately after generation, but ensures that site risks will not be increased (e.g., the contaminated soil will not be replaced at a greater depth than where it was originally so that it will not contaminate "clean" areas) and that the contamination will be addressed in the final remedy.

Aqueous liquids

EPA has not established a presumption for the management of aqueous liquid IDW (e.g., ground water). Site managers should determine the most appropriate disposal option for aqueous liquids on a site-specific basis. Parameters to consider, especially in making the protectiveness decision, include the volume of IDW, the contaminants present in the ground water, the presence of contaminants in the soil at the site, whether the ground or surface water is a drinking water supply, and whether the ground-water plume is contained or moving. Special disposal/handling may be needed for drilling fluids because they may contain significant solid components. Examples of aqueous liquid management decisions considering these factors are presented in the box on the next page.

Non-indigenous IDW

Non-indigenous IDW (e.g., sampling materials, disposable PPE, decontamination fluids) should be stored until the final remedy or disposed of immediately. If contaminated, such waste may not be disposed of onto the ground because such an action would add contamination that was not present when activities began at the site (e.g., solvents used for decontamination). If non-indigenous IDW is contaminated with RCRA hazardous waste, it must be managed in accordance with RCRA Subtitle C requirements. Otherwise, site

Aqueous Liquids

Example 1: A site manager has large volumes of ground water IDW and does not know if it is contaminated. Pouring this IDW on the ground would not be protective, because it may contaminate previously uncontaminated soil or may mobilize contaminants that are present in the soil. Therefore, the site manager stores the water in a mobile tank until a determination is made as to whether the water and soil are contaminated or until the final action.

Example 2: IDW is generated from the sampling of background, upgradient wells. Because there are no community concerns or evidence of any soil contamination from other sources, the site manager decides to pour this presumably uncontaminated IDW on the ground around the well.

Example 3: Purge water from a deep aquifer is known to be contaminated with a RCRA hazardous waste. At this site, if this water were poured on the ground, it could contaminate a previously uncontaminated shallow aquifer that is a potential drinking water source and would have to comply with the LDRs. The site manager decides to containerize the water within the AOC and store it until the final remedy.

Managers may generally dispose of it in an on-site dumpster (for PPE).

Non-indigenous IDW

Example 1: Disposable PPE (e.g., gloves, shoe covers) becomes contaminated with RCRA hazardous waste during the field investigation. The site manager containerizes and disposes of this IDW in compliance with RCRA Subtitle C requirements.

Example 2: Disposable equipment becomes contaminated during a field investigation. The site manager decontaminates them and sends them to a Subtitle D facility.

COMMUNITY CONCERNS

Residents of communities near a CERCLA site, local governments, or States may have concerns about certain disposal methods or long-term storage of IDW at the site. As with all CERCLA activities, site managers should evaluate community concerns regarding disposal of IDW in deciding what action to take. For example, if a community is concerned about the direct discharge of IDW water to surface water on site, site managers may want to consider sending the water to a POTW, if one is located nearby. In some instances, it may be appropriate to prepare fact sheets, include options in other community relations documents, or explain IDW management decisions at public meetings prior to actions.

NOTICE: The policies set out in this memorandum are not final agency action, but are intended solely as guidance. They are not intended, nor can they be relied upon, to create any rights enforceable by any party in litigation with the United States. EPA officials may decide to follow the guidance provided in this memorandum, or to act at variance with the guidance, based on an analysis of specific site circumstances. The Agency also reserves the right to change this guidance any time without public notice.

TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP)

VOLATILE ORGANICS TARGET ANALYTES

Client: Baker Environmental

Client ID: 6-RBC

Date Sampled: 11/10/92

Laboratory ID: 920611-01

Date TCLP Performed: 11/12/92

Concentration in: ug/L (ppb)

Date Leachate Analyzed: 11/14/9

Target Analyte	Sample Concentration	Method Reporting Limit
Benzene	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethylene	ND	5
Methylethylketone	ND	10
Tetrachloroethylene	ND	5
Trichloroethylene	ND	5
Vinyl chloride	ND	10

ND = Not detected

Reported by: _____

Approved by: _____

TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP)

SEMIVOLATILE ORGANICS TARGET ANALYTES

Client: Baker Environmental

Date Sampled: 11/11/92

Client Sample ID: 6-RBC

Date TCLP Performed: 11/12/92

Laboratory ID: 920611-01

Date Leachate Extracted: 11/16/92

Concentration in: ug/L (ppb)

Date Extract Analyzed: 11/17/92

Target Analyte	Sample Concentration	Method Reporting Limits
Pyridine	ND	33
2,4-Dinitrotoluene	ND	33
Hexachlorobenzene	ND	33
Hexachloro-1,3-butadiene	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
1,4-Dichlorobenzene	ND	33
Methylphenols (total)	ND	33
Pentachlorophenol	ND	83
2,4,5-Trichlorophenol	ND	83
2,4,6-Trichlorophenol	ND	33

ND = Not detected

Reported by: _____

Approved by: _____

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

6-RBC

Name: CEIMIC CORP Contract: BAKER
 Lab Code: CEIMIC Case No.: 19133 SAS No.: SDG No.: 6-RBC
 Matrix: (soil/water) WATER Lab Sample ID: 920611-01
 Sample wt/vol: 300.0 (g/mL) ML Lab File ID:
 % Moisture: decanted: (Y/N) Date Received: 11/11/92
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/16/92
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/17/92
 Injection Volume: 1.00 (uL) Dilution Factor: 1.00
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.17IU	
76-44-8	Heptachlor	0.17IU	
1024-57-3	Heptachlor epoxide	0.17IU	
72-20-8	Endrin	0.33IU	
72-43-5	Methoxychlor	1.7IU	
5103-71-9	Chlordane	0.17IU	
8001-35-2	Toxaphene	17 IU	

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

ORGANOCHLORINE HERBICIDES

EPA Method 8150

Client: Baker Environmental

Client ID: 6-RBC

Laboratory ID: 920611-01

Date Sample Received: 11/11/92

Date Sample Prepared: 11/12/92

Date Sample Analyzed: 11/21/92

Concentration in: ug/L (ppb)

Target Analyte	Sample Concentration	Method Reporting Limits
2,4-D	ND	33
2,4,5-TP (Silvex)	ND	10

ND = Not detected

Reported by: X.S.

Approved by: Henry Seibing

INORGANIC ANALYTES

Client: Baker Environmental

Client ID: 6-RBC

Laboratory ID: 920611-01

Date Sample Received: 11/11/92

Date Sampled: 11/10/92

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Flashpoint	NC	°F	200	11/19/92
pH	9.52	S.U	---	11/11/92
Reactive Sulfide	ND	mg/kg (ppm)+	3	11/11/92
Reactive Cyanide	ND	mg/kg (ppm)+	0.6	11/18/92

NC = No combustion

ND = Not detected

+ Reported on a dry weight basis, % solids = 77.7

Reported by:

Jeffrey D. Mayson

Approved by:

Catherine Moush

Appendix K
Dose Response Calculations and Spreadsheets

S.O. No. CTO - 133 Camp LejeuneSubject: Soil Ingestion**Baker**Sheet No. 1 of 2

Drawing No. _____

Computed by MDB Checked By DCS Date 3/21/93

Purpose: Estimate exposure/risk from ingestion of surface soil

$$\text{Intake (mg/Kg-day)} = \frac{C \times CF \times EF \times ED \times IR}{BW \times AT_c \text{ or } AT_{nc}}$$

Where:

C = contaminant concentration in surface soil (mg/kg)

CF = conversion factor (kg/mg)

EF = exposure frequency (day/yr)

ED = exposure duration (yr)

IR = ingestion rate (mg/day)

BW = body weight (kg)

AT_c = averaging time carcinogens (days)AT_{nc} = averaging time noncarcinogens (days)

Risk:

Carcinogens = Intake (mg/Kg-day) × CSF (mg/Kg-day)⁻¹

Non carcinogens = Intake (mg/Kg-day) / RfD (mg/Kg-day)

Example Carcinogen: 4.4 - DDD

$$\text{Intake (mg/Kg-day)} = \frac{0.0156 \frac{\text{mg}}{\text{kg}} \times 100 \frac{\text{mg}}{\text{day}} \times 350 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr} \times 1.0 \frac{\text{kg}}{\text{mg}}}{70 \text{ kg} \times 25,550 \text{ days}}$$

S.O. No. CTO-0133 Camp LejeuneSubject: Soil Ingestion**Baker**Sheet No. 2 of 2

Drawing No. _____

Computed by MDB Checked By DCS Date 3/21/93

$$= 9.2 E^{-09}$$

$$\text{Risk} = 9.2 E^{-09} \frac{\text{mg}}{\text{Kg-day}} \times 2.4 E^{-01} \frac{\text{mg}}{\text{Kg-day}}^{-1} = 2.2 E^{-09}$$

Example Noncarcinogen: 4.4'-DDT

$$\text{Intake (mg/Kg-day)} = \frac{0.136 \frac{\text{mg}}{\text{Kg}} \times 100 \frac{\text{mg}}{\text{day}} \times 350 \frac{\text{day}}{\text{yr}} \times 30 \text{yr} \times 1.0 E^{-6} \frac{\text{Kg}}{\text{mg}}}{70 \text{Kg} \times 10,950 \text{days}}$$

$$= 1.86 E^{-07}$$

$$\text{Risk} = \frac{1.86 E^{-07} \text{mg/Kg-day}}{5.00 E^{-04} \text{mg/Kg-day}} = 3.73 E^{-04}$$

SOIL INGESTION EXPOSURE ASSESSMENT
 SITE 6 LOT 201 GRIDS A B AND C - CHILD RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * EF * ED * IR / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } /RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for child (days/yr)	350
ED = exposure duration for child (yr)	6
IR = soil ingestion rate for child (mg/day)	200
BW = body weight for child (kg)	15
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	6
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Child	Exposure Duration (yr) Child	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Child	Body Weight (kg) Child	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Child	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Child	Percent Carcinogenic Risk Child
Dieldren	0.0074	350	6	1E-06	200	15	70	365	8.11E-08	1.60E+01	1.30E-07	1.65
4,4'-DDD	0.0156	350	6	1E-06	200	15	70	365	1.71E-08	2.40E-01	4.10E-09	0.05
4,4'-DDE	0.0452	350	6	1E-06	200	15	70	365	4.95E-08	3.40E-01	1.68E-08	0.21
4,4'-DDT	0.136	350	6	1E-06	200	15	70	365	1.49E-07	3.40E-01	5.07E-08	0.64
Aroclor 1260	0.036	350	6	1E-06	200	15	70	365	3.95E-08	7.70E+00	3.04E-07	3.66
1,4-Dichlorobenzene	0.036	350	6	1E-06	200	15	70	365	4.16E-08	2.40E-02	9.99E-10	0.01
Chrysene	0.066	350	6	1E-06	200	15	70	365	9.64E-08	7.30E+00	7.04E-07	8.96
Benzo(b)fluoranthene	0.16	350	6	1E-06	200	15	70	365	1.75E-07	7.30E+00	1.28E-06	16.28
Arsenic	2.8	350	6	1E-06	200	15	70	365	3.07E-06	1.75E+00	5.37E-06	66.32
TOTAL											7.66E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Child	Exposure Duration (yr) Child	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Child	Body Weight (kg) Child	Average Noncarc Time (years)	Days per year (days/yr)	Noncarc Dose (mg/kg/day) Child	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Child	Percent Noncarcinogenic Risk Child
Dieldren	0.0074	350	6	1E-06	200	15	6	365	9.46E-08	5.00E-05	1.89E-03	0.62
4,4'-DDT	0.136	350	6	1E-06	200	15	6	365	1.74E-06	5.00E-04	3.48E-03	1.15
Fluoranthene	0.094	350	6	1E-06	200	15	6	365	1.20E-06	4.00E-02	3.00E-05	0.01
Pyrene	0.099	350	6	1E-06	200	15	6	365	1.27E-06	3.00E-02	4.22E-05	0.01
Total PCBs	0.036	350	6	1E-06	200	15	6	365	4.60E-07	7E-05	6.58E-03	2.17
Arsenic	2.8	350	6	1E-06	200	15	6	365	3.58E-05	3.00E-04	1.19E-01	39.38
Cadmium	0.6	350	6	1E-06	200	15	6	365	1.02E-05	5.00E-04	2.05E-02	6.75
Chromium	12.1	350	6	1E-06	200	15	6	365	1.55E-04	5.00E-03	3.09E-02	10.21
Manganese	46.4	350	6	1E-06	200	15	6	365	5.93E-04	5.00E-03	1.19E-01	39.15
Zinc	39	350	6	1E-06	200	15	6	365	4.99E-04	3.00E-01	1.66E-03	0.55
TOTAL											3.03E-01	100.00

DIL INGESTION EXPOSURE ASSESSMENT
 TE 6 LOT 201 GRIDS A B AND C - ADULT RESIDENT
 MEDIAL INVESTIGATION CTO-0133
 CB CAMP LEJUNE, NORTH CAROLINA

take from ingestion of soil is calculated as follows:

$$\text{take (mg/kg-day)} = C * CF * EF * ED * IR/BW * ATc \text{ or } ATnc * DY$$

$$\text{Isk} = \text{Intake} * \text{CSF or /RID}$$

here:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for adults (days/yr)	350
ED = exposure duration for adults (yr)	30
IR = soil ingestion rate for adults (mg/day)	100
BW = body weight for adult (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Children	0.0074	350	30	1E-06	100	70	70	365	4.34E-09	1.60E+01	6.95E-08	1.65
1,4'-DDD	0.0158	350	30	1E-06	100	70	70	365	9.16E-09	2.40E-01	2.20E-09	0.05
1,4'-DDE	0.0452	350	30	1E-06	100	70	70	365	2.65E-08	3.40E-01	9.02E-09	0.21
1,4'-DDT	0.138	350	30	1E-06	100	70	70	365	7.98E-08	3.40E-01	2.71E-08	0.64
1,1-Dichloroethane	0.038	350	30	1E-06	100	70	70	365	2.11E-08	7.70E+00	1.63E-07	3.86
1,4-Dichlorobenzene	0.038	350	30	1E-06	100	70	70	365	2.23E-08	2.40E-02	5.35E-10	0.01
Chrysene	0.088	350	30	1E-06	100	70	70	365	5.17E-08	7.30E+00	3.77E-07	8.96
Benzo(b)fluoranthene	0.16	350	30	1E-06	100	70	70	365	9.39E-08	7.30E+00	6.86E-07	15.28
Arsenic	2.8	350	30	1E-06	100	70	70	365	1.84E-06	1.75E+00	2.68E-06	68.32
TOTAL											4.21E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Adult	Body Weight (kg) Adult	Average Noncarc Time (years)	Days per year (days/yr)	Noncarc Dose (mg/kg/day) Adult	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Children	0.0074	350	30	1E-06	100	70	30	365	1.01E-08	5.00E-05	2.03E-04	0.82
1,4'-DDT	0.138	350	30	1E-06	100	70	30	365	1.86E-07	5.00E-04	3.73E-04	1.15
Fluoranthene	0.094	350	30	1E-06	100	70	30	365	1.29E-07	4.00E-02	3.22E-06	0.01
Pyrene	0.099	350	30	1E-06	100	70	30	365	1.36E-07	3.00E-02	4.52E-06	0.01
Total PCBs	0.036	350	30	1E-06	100	70	30	365	4.93E-08	7E-05	7.05E-04	2.17
Arsenic	2.8	350	30	1E-06	100	70	30	365	3.84E-06	3.00E-04	1.28E-02	39.38
Cadmium	0.8	350	30	1E-06	100	70	30	365	1.10E-06	5.00E-04	2.19E-03	6.75
Chromium	12.1	350	30	1E-06	100	70	30	365	1.66E-05	5.00E-03	3.32E-03	10.21
Manganese	48.4	350	30	1E-06	100	70	30	365	6.36E-05	5.00E-03	1.27E-02	39.15
Zinc	39	350	30	1E-06	100	70	30	365	5.34E-05	3.00E-01	1.78E-04	0.55
TOTAL											3.25E-02	100.00

FILE: S1201.WG1

CLEJ-01272-3.13-08/20/93

SOIL INGESTION EXPOSURE ASSESSMENT
 SITE 6 LOT 201 GRIDS A B AND C - WORKER
 REMEDIAL INVESTIGATION CTO-0133
 AFB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * EF * ED * IR / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } /RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for worker (days/yr)	250
ED = exposure duration for worker (yr)	25
IR = soil ingestion rate for worker (mg/day)	100
BW = body weight for worker (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	25
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Worker	Exposure Duration (yr) Worker	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Worker	Body Weight (kg) Worker	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Worker	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Worker	Percent Carcinogenic Risk Worker
Dieldren	0.0074	250	25	1E-06	100	70	70	365	2.59E-09	1.60E+01	4.14E-08	1.65
4,4'-DDD	0.0156	250	25	1E-06	100	70	70	365	5.45E-09	2.40E-01	1.31E-09	0.05
4,4'-DDE	0.0452	250	25	1E-06	100	70	70	365	1.58E-08	3.40E-01	5.37E-09	0.21
4,4'-DDT	0.138	250	25	1E-06	100	70	70	365	4.75E-08	3.40E-01	1.62E-08	0.64
Aroclor 1260	0.036	250	25	1E-06	100	70	70	365	1.26E-08	7.70E+00	9.69E-08	3.86
1,4-Dichlorobenzene	0.038	250	25	1E-06	100	70	70	365	1.33E-08	2.40E-02	3.19E-10	0.01
Chrysene	0.086	250	25	1E-06	100	70	70	365	3.08E-08	7.30E+00	2.24E-07	8.96
Benzo(b)fluoranthene	0.16	250	25	1E-06	100	70	70	365	5.59E-08	7.30E+00	4.08E-07	16.28
Arsenic	2.8	250	25	1E-06	100	70	70	365	9.78E-07	1.75E+00	1.71E-06	68.32
TOTAL											2.51E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Worker	Exposure Duration (yr) Worker	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Worker	Body Weight (kg) Worker	Average Noncarc Time (years)	Days per year (days/yr)	Noncarc Dose (mg/kg/day) Worker	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Worker	Percent Noncarcinogenic Risk Worker
Dieldren	0.0074	250	25	1E-06	100	70	25	365	7.24E-09	5.00E-05	1.45E-04	0.62
4,4'-DDT	0.138	250	25	1E-06	100	70	25	365	1.33E-07	5.00E-04	2.66E-04	1.15
Fluoranthene	0.094	250	25	1E-06	100	70	25	365	9.20E-08	4.00E-02	2.30E-06	0.01
Pyrene	0.099	250	25	1E-06	100	70	25	365	9.69E-08	3.00E-02	3.23E-06	0.01
Total PCBs	0.036	250	25	1E-06	100	70	25	365	3.52E-08	7E-05	5.03E-04	2.17
Arsenic	2.8	250	25	1E-06	100	70	25	365	2.74E-06	3.00E-04	9.13E-03	39.38
Cadmium	0.8	250	25	1E-06	100	70	25	365	7.63E-07	5.00E-04	1.57E-03	6.75
Chromium	12.1	250	25	1E-06	100	70	25	365	1.18E-05	5.00E-03	2.37E-03	10.21
Manganese	46.4	250	25	1E-06	100	70	25	365	4.54E-05	5.00E-03	9.08E-03	39.15
Zinc	39	250	25	1E-06	100	70	25	365	3.82E-05	3.00E-01	1.27E-04	0.55
TOTAL											2.32E-02	100.00

SOIL INGESTION EXPOSURE ASSESSMENT
 SITE 6 LOT 203 OPEN STORAGE AREA, DDT AND PCB GRID - CHILD RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * EF * ED * IR / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for adult (days/yr)	350
ED = exposure duration for adult (yr)	6
IR = soil ingestion rate for adult(mg/day)	200
BW = body weight for adult (kg)	15
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	6
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Child	Exposure Duration (yr) Child	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Child	Body Weight (kg) Child	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Child	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Child	Percent Carcinogenic Risk Child
Dieldrin	0.0057	350	6	1E-06	200	15	70	365	6.25E-09	1.60E+01	9.99E-08	0.68
4,4'-DDD	0.0062	350	6	1E-06	200	15	70	365	6.79E-09	2.40E-01	1.63E-09	0.01
4,4'-DDE	0.0248	350	6	1E-06	200	15	70	365	2.72E-08	3.40E-01	9.24E-09	0.06
4,4'-DDT	0.0416	350	6	1E-06	200	15	70	365	4.56E-08	3.40E-01	1.55E-08	0.10
Aroclor 1260	0.1615	350	6	1E-06	200	15	70	365	1.99E-07	7.70E+00	1.53E-06	10.13
1,4-Dichlorobenzene	0.16	350	6	1E-06	200	15	70	365	1.75E-07	2.40E-02	4.21E-09	0.03
Benzo(a)anthracene	0.239	350	6	1E-06	200	15	70	365	2.62E-07	7.30E+00	1.91E-06	12.64
Chrysene	0.231	350	6	1E-06	200	15	70	365	2.53E-07	7.30E+00	1.85E-06	12.22
Benzo(b)fluoranthene	0.27	350	6	1E-06	200	15	70	365	2.96E-07	7.30E+00	2.16E-06	14.28
Benzo(k)fluoranthene	0.235	350	6	1E-06	200	15	70	365	2.58E-07	7.30E+00	1.88E-06	12.43
Indeno(1,2,3-cd)pyrene	0.227	350	6	1E-06	200	15	70	365	2.49E-07	7.30E+00	1.82E-06	12.01
Benzo(e)pyrene	0.241	350	6	1E-06	200	15	70	365	2.64E-07	7.30E+00	1.93E-06	12.75
Arsenic	1	350	6	1E-06	200	15	70	365	1.10E-06	1.75E+00	1.92E-06	12.68
TOTAL											1.51E-05	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Child	Exposure Duration (yr) Child	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Child	Body Weight (kg) Child	Average Noncarc Time (years)	Days per year (days/yr)	Noncarc Dose (mg/kg/day) Child	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Child	Percent Noncarcinogenic Risk Child
Dieldrin	0.0057	350	6	1E-06	200	15	6	365	7.29E-08	5.00E-05	1.46E-03	0.68
Endrin	0.0054	350	6	1E-06	200	15	6	365	6.90E-08	5.40E-05	1.28E-05	0.01
4,4'-DDT	0.0416	350	6	1E-06	200	15	6	365	5.32E-07	5.00E-04	1.08E-03	0.50
Fluoranthene	0.25	350	6	1E-06	200	15	6	365	3.20E-08	4.00E-02	7.99E-05	0.04
Pyrene	0.254	350	6	1E-06	200	15	6	365	3.25E-08	3.00E-02	1.08E-04	0.05
Total PCBs	0.1615	350	6	1E-06	200	15	6	365	2.32E-08	7E-05	3.32E-02	15.48
Arsenic	1	350	6	1E-06	200	15	6	365	1.26E-05	3.00E-04	4.26E-02	19.90
Barium	10.4	350	6	1E-06	200	15	6	365	1.33E-04	7.00E-02	1.90E-03	0.89
Cadmium	0.9	350	6	1E-06	200	15	6	365	1.15E-05	5.00E-04	2.30E-02	10.75
Chromium	5.6	350	6	1E-06	200	15	6	365	7.16E-05	5.00E-03	1.43E-02	6.69
Manganese	36.4	350	6	1E-06	200	15	6	365	4.65E-04	5.00E-03	9.31E-02	43.47
Zinc	78.2	350	6	1E-06	200	15	6	365	1.00E-03	3.00E-01	3.33E-03	1.56
TOTAL											2.14E-01	100.00

SOIL INGESTION EXPOSURE ASSESSMENT
 SITE 6 LOT 203 OPEN STORAGE AREA, DDT AND PCB GRID - ADULT RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * EF * ED * IR/BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RfD$$

Where:

C = contaminant concentration in soil (mg/kg)	INPUTS
CF = conversion for kg to mg	1E-06
EF = exposure frequency for adult (days/yr)	350
ED = exposure duration for adult (yr)	30
IR = soil ingestion rate for adult(mg/day)	100
BW = body weight for adult (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Worker
Dieldrin	0.0057	350	30	1E-06	100	70	70	365	3.35E-09	1.80E+01	5.35E-08	0.88
4,4'-DDD	0.0082	350	30	1E-06	100	70	70	365	3.64E-09	2.40E-01	8.74E-10	0.01
4,4'-DDE	0.0248	350	30	1E-06	100	70	70	365	1.46E-08	3.40E-01	4.95E-09	0.06
4,4'-DDT	0.0416	350	30	1E-06	100	70	70	365	2.44E-08	3.40E-01	8.30E-09	0.10
Aroclor 1260	0.1815	350	30	1E-06	100	70	70	365	1.07E-07	7.70E+00	8.20E-07	10.13
1,4-Dichlorobenzene	0.16	350	30	1E-06	100	70	70	365	9.39E-08	2.40E-02	2.25E-09	0.03
Benzo(a)anthracene	0.239	350	30	1E-06	100	70	70	365	1.40E-07	7.30E+00	1.02E-06	12.84
Chrysene	0.231	350	30	1E-06	100	70	70	365	1.36E-07	7.30E+00	9.90E-07	12.22
Benzo(b)fluoranthene	0.27	350	30	1E-06	100	70	70	365	1.59E-07	7.30E+00	1.16E-06	14.28
Benzo(k)fluoranthene	0.235	350	30	1E-06	100	70	70	365	1.36E-07	7.30E+00	1.01E-06	12.43
Indeno(1,2,3-cd)pyrene	0.227	350	30	1E-06	100	70	70	365	1.33E-07	7.30E+00	9.73E-07	12.01
Benzo(a)pyrene	0.241	350	30	1E-06	100	70	70	365	1.41E-07	7.30E+00	1.03E-06	12.75
Arsenic	1	350	30	1E-06	100	70	70	365	5.87E-07	1.76E+00	1.03E-06	12.68
TOTAL											8.10E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Adult	Body Weight (kg) Adult	Average Noncarc Time (years)	Days per year (days/yr)	Noncarc Dose (mg/kg/day) Adult	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Worker
Dieldrin	0.0057	350	30	1E-06	100	70	30	365	7.31E-09	5.00E-05	1.58E-04	0.88
Endrin	0.0054	350	30	1E-06	100	70	30	365	7.40E-09	5.40E-03	1.37E-06	0.01
4,4'-DDT	0.0416	350	30	1E-06	100	70	30	365	5.70E-08	5.00E-04	1.14E-04	0.50
Fluoranthene	0.25	350	30	1E-06	100	70	30	365	3.42E-07	4.00E-02	8.56E-06	0.04
Pyrene	0.254	350	30	1E-06	100	70	30	365	3.48E-07	3.00E-02	1.16E-05	0.05
Total PCB	0.1815	350	30	1E-06	100	70	30	365	2.49E-07	7E-05	3.55E-03	15.48
Arsenic	1	350	30	1E-06	100	70	30	365	1.37E-06	3.00E-04	4.57E-03	19.90
Barium	10.4	350	30	1E-06	100	70	30	365	1.42E-05	7.00E-02	2.04E-04	0.69
Cadmium	0.9	350	30	1E-06	100	70	30	365	1.23E-06	5.00E-04	2.47E-03	10.75
Chromium	5.8	350	30	1E-06	100	70	30	365	7.87E-06	5.00E-03	1.53E-03	6.69
Manganese	36.4	350	30	1E-06	100	70	30	365	4.99E-05	5.00E-03	9.97E-03	43.47
Zinc	78.2	350	30	1E-06	100	70	30	365	1.07E-04	3.00E-01	3.57E-04	1.56
TOTAL											2.29E-02	100.00

FILE NAME: S1203 W01

CLEJ-01272-3.13-08/20/93

SOIL INGESTION EXPOSURE ASSESSMENT
 SITE 6 LOT 203 OPEN STORAGE AREA, DDT AND PCB GRID - WORKER
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * EF * ED * IR / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } /RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for worker (days/yr)	250
ED = exposure duration for worker (yr)	25
IR = soil ingestion rate for worker (mg/day)	100
BW = body weight for worker (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	25
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Worker	Exposure Duration (yr) Worker	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Worker	Body Weight (kg) Worker	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Worker	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Worker	Percent Carcinogenic Risk Worker
Dieldren	0.0057	250	25	1E-06	100	70	70	365	1.99E-09	1.80E+01	3.19E-08	0.68
4,4'-DDD	0.0062	250	25	1E-06	100	70	70	365	2.17E-09	2.40E-01	5.20E-10	0.01
4,4'-DDE	0.0248	250	25	1E-06	100	70	70	365	8.67E-09	3.40E-01	2.95E-09	0.06
4,4'-DDT	0.0416	250	25	1E-06	100	70	70	365	1.45E-08	3.40E-01	4.94E-09	0.10
Aroclor 1260	0.1815	250	25	1E-06	100	70	70	365	6.34E-08	7.70E+00	4.88E-07	10.13
1,4-Dichlorobenzene	0.18	250	25	1E-06	100	70	70	365	5.59E-08	2.40E-02	1.34E-09	0.03
Benzo(a)anthracene	0.239	250	25	1E-06	100	70	70	365	8.35E-08	7.30E+00	6.10E-07	12.64
Chrysene	0.231	250	25	1E-06	100	70	70	365	8.07E-08	7.30E+00	5.89E-07	12.22
Benzo(b)fluoranthene	0.27	250	25	1E-06	100	70	70	365	9.44E-08	7.30E+00	6.89E-07	14.28
Benzo(k)fluoranthene	0.235	250	25	1E-06	100	70	70	365	8.21E-08	7.30E+00	5.99E-07	12.43
Indeno(1,2,3-cd)pyrene	0.227	250	25	1E-06	100	70	70	365	7.93E-08	7.30E+00	5.79E-07	12.01
Benzo(a)pyrene	0.241	250	25	1E-06	100	70	70	365	8.42E-08	7.30E+00	6.15E-07	12.75
Arsenic	1	250	25	1E-06	100	70	70	365	3.49E-07	1.75E+00	6.12E-07	12.65
TOTAL											4.82E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Worker	Exposure Duration (yr) Worker	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Worker	Body Weight (kg) Worker	Average Noncarc Time (years)	Days per year (days/yr)	Noncarc Dose (mg/kg/day) Worker	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Worker	Percent Noncarcinogenic Risk Worker
Dieldren	0.0057	250	25	1E-06	100	70	25	365	5.58E-09	5.00E-05	1.12E-04	0.68
Endrin	0.0054	250	25	1E-06	100	70	25	365	5.28E-09	5.40E-03	9.78E-07	0.01
4,4'-DDT	0.0416	250	25	1E-06	100	70	25	365	4.07E-08	5.00E-04	8.14E-05	0.50
Fluoranthene	0.23	250	25	1E-06	100	70	25	365	2.45E-07	4.00E-02	6.12E-06	0.04
Pyrene	0.254	250	25	1E-06	100	70	25	365	2.49E-07	3.00E-02	8.28E-06	0.05
Total PCBs	0.1815	250	25	1E-06	100	70	25	365	1.78E-07	7E-05	2.54E-03	15.48
Arsenic	1	250	25	1E-06	100	70	25	365	9.78E-07	3.00E-04	3.26E-03	19.90
Barium	10.4	250	25	1E-06	100	70	25	365	1.02E-05	7.00E-02	1.46E-04	0.89
Cadmium	0.9	250	25	1E-06	100	70	25	365	8.81E-07	5.00E-04	1.76E-03	10.75
Chromium	5.8	250	25	1E-06	100	70	25	365	5.48E-06	5.00E-03	1.10E-03	6.69
Manganese	38.4	250	25	1E-06	100	70	25	365	3.58E-05	5.00E-03	7.12E-03	43.47
Zinc	78.2	250	25	1E-06	100	70	25	365	7.65E-05	3.00E-01	2.55E-04	1.56
TOTAL											1.84E-02	100.00

SOIL INGESTION EXPOSURE ASSESSMENT
 SITE # WOOD AND RAVINE AREA - CHILD RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot EF \cdot ED \cdot IR / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for child (days/yr)	350
ED = exposure duration for child (yr)	6
IR = soil ingestion rate for child (mg/day)	200
BW = body weight for child (kg)	15
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	6
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Child	Exposure Duration (yr) Child	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Child	Body Weight (kg) Child	Average Care Time (years)	Days per year (days/yr)	Care Dose (mg/kg/day) Child	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Child	Percent Carcinogenic Risk Child
Children	0.0069	350	6	1E-06	200	15	70	365	7.56E-09	1.80E+01	1.21E-07	0.84
1,4'-DDB	0.006	350	6	1E-06	200	15	70	365	6.56E-09	2.40E-01	1.58E-09	0.01
1,4'-DDE	0.0208	350	6	1E-06	200	15	70	365	2.28E-09	3.40E-01	7.75E-09	0.05
1,4'-DDT	0.0283	350	6	1E-06	200	15	70	365	3.10E-09	3.40E-01	1.05E-08	0.07
Aroclor 1260	0.063	350	6	1E-06	200	15	70	365	6.90E-09	7.70E+00	5.22E-07	3.71
1,4-Dichlorobenzene	0.074	350	6	1E-06	200	15	70	365	8.11E-09	2.40E-02	1.93E-09	0.01
Chrysene	0.2108	350	6	1E-06	200	15	70	365	2.31E-07	7.30E+00	1.69E-06	11.76
Benzo(a)anthracene	0.2181	350	6	1E-06	200	15	70	365	2.36E-07	7.30E+00	1.74E-06	12.16
Benzo(b)fluoranthene	0.2131	350	6	1E-06	200	15	70	365	2.34E-07	7.30E+00	1.70E-06	11.89
Benzo(k)fluoranthene	0.1969	350	6	1E-06	200	15	70	365	2.16E-07	7.30E+00	1.58E-06	10.98
Benzo(a)pyrene	0.2101	350	6	1E-06	200	15	70	365	2.30E-07	7.30E+00	1.68E-06	11.72
Indeno(1,2,3-cd)pyrene	0.2118	350	6	1E-06	200	15	70	365	2.32E-07	7.30E+00	1.69E-06	11.81
Dibenz(a,h)anthracene	0.2008	350	6	1E-06	200	15	70	365	2.20E-07	7.30E+00	1.61E-06	11.20
Arsenic	1.03	350	6	1E-06	200	15	70	365	1.13E-06	1.75E+00	1.98E-06	13.77
TOTAL											1.43E-05	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Child	Exposure Duration (yr) Child	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Child	Body Weight (kg) Child	Average Noncare Time (years)	Days per year (days/yr)	Noncare Dose (mg/kg/day) Child	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Child	Percent Noncarcinogenic Risk Child
Children	0.0068	350	6	1E-06	200	15	6	365	8.82E-06	5.00E-05	1.76E-03	1.28
Endrin	0.0041	350	6	1E-06	200	15	6	365	8.24E-06	3.00E-04	1.76E-04	0.13
1,4' DDT	0.0283	350	6	1E-06	200	15	6	365	3.62E-07	6.00E-04	7.24E-04	0.53
Anthracene	0.2	350	6	1E-06	200	15	6	365	2.56E-06	3.00E-01	8.32E-06	0.01
Fluoranthene	0.2215	350	6	1E-06	200	15	6	365	2.83E-06	4.00E-02	7.08E-05	0.05
Phenol	0.16	350	6	1E-06	200	15	6	365	2.05E-06	6.00E-01	3.41E-06	0.00
Pyrene	0.2346	350	6	1E-06	200	15	6	365	3.00E-06	3.00E-02	1.00E-04	0.07
Total PCBs	0.063	350	6	1E-06	200	15	6	365	9.05E-07	7E-05	1.15E-02	8.37
Arsenic	1.03	350	6	1E-06	200	15	6	365	1.32E-05	3.00E-04	4.39E-02	31.94
Barium	21.8	350	6	1E-06	200	15	6	365	2.80E-04	7.00E-02	4.00E-03	2.91
Cadmium	0.57	350	6	1E-06	200	15	6	365	7.29E-06	5.00E-04	1.46E-02	10.81
Chromium	2.7	350	6	1E-06	200	15	6	365	3.45E-05	5.00E-03	6.90E-03	5.02
Manganese	17.3	350	6	1E-06	200	15	6	365	2.21E-04	5.00E-03	4.42E-02	32.18
Vanadium	4.7	350	6	1E-06	200	15	6	365	4.01E-05	7.00E-03	8.59E-03	6.23
Zinc	20.6	350	6	1E-06	200	15	6	365	2.63E-04	3.00E-01	8.78E-04	0.64
TOTAL											1.37E-01	100.00

FILE NAME: SWRW03

CLEJ-01272-3.13-08/20/93

SOIL INGESTION EXPOSURE ASS.
 SITE 6 WOOD AND RAVINE AREA - ADULT RESIDENT
 REMEDIAL INVESTIGATION CTD-0123
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot EF \cdot ED \cdot IR / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for adults (days/yr)	350
ED = exposure duration for adults (yr)	30
IR = soil ingestion rate for adults (mg/day)	100
BW = body weight for adult (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Dieldrin	0.0069	350	30	1E-06	100	70	70	365	4.05E-09	1.80E+01	8.49E-08	0.84
1,4'-DDO	0.006	350	30	1E-06	100	70	70	365	3.92E-09	2.40E-01	8.45E-10	0.01
1,4'-DDE	0.0208	350	30	1E-06	100	70	70	365	1.22E-08	3.40E-01	4.19E-08	0.05
1,4'-DDT	0.0263	350	30	1E-06	100	70	70	365	1.66E-08	3.40E-01	5.65E-08	0.07
Aroclor 1260	0.063	350	30	1E-06	100	70	70	365	3.70E-08	7.70E+00	2.89E-07	2.71
1,4-Dichlorobenzene	0.074	350	30	1E-06	100	70	70	365	4.34E-08	2.40E-02	1.04E-08	0.01
Chrysene	0.2109	350	30	1E-06	100	70	70	365	1.24E-07	7.30E+00	9.04E-07	11.76
Benzo(a)anthracene	0.2181	350	30	1E-06	100	70	70	365	1.28E-07	7.30E+00	9.35E-07	12.16
Benzo(b)fluoranthene	0.2131	350	30	1E-06	100	70	70	365	1.25E-07	7.30E+00	9.19E-07	11.89
Benzo(k)fluoranthene	0.1969	350	30	1E-06	100	70	70	365	1.16E-07	7.30E+00	8.44E-07	10.88
Benzo(e)pyrene	0.2101	350	30	1E-06	100	70	70	365	1.23E-07	7.30E+00	9.00E-07	11.72
Indene(1,2,3-cd)pyrene	0.2119	350	30	1E-06	100	70	70	365	1.24E-07	7.30E+00	9.08E-07	11.81
Dibenz(a,h)anthracene	0.2008	350	30	1E-06	100	70	70	365	1.18E-07	7.30E+00	8.61E-07	11.20
Areneis	1.03	350	30	1E-06	100	70	70	365	6.95E-07	1.75E+00	1.08E-06	13.77
TOTAL											7.86E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Adult	Body Weight (kg) Adult	Average Noncnc Time (years)	Days per year (days/yr)	Noncnc Dose (mg/kg/day) Adult	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Dieldrin	0.0069	350	30	1E-06	100	70	30	365	8.45E-09	5.00E-03	1.69E-04	1.28
Dieldrin	0.0041	350	30	1E-06	100	70	30	365	5.82E-09	3.00E-04	1.87E-05	0.13
1,4'-DDT	0.0263	350	30	1E-06	100	70	30	365	3.98E-08	5.00E-04	7.75E-05	0.53
Anthracene	0.2	350	30	1E-06	100	70	30	365	2.74E-07	2.00E-01	9.13E-07	0.01
Fluoranthene	0.2215	350	30	1E-06	100	70	30	365	3.03E-07	4.00E-02	7.58E-08	0.05
Phenol	0.16	350	30	1E-06	100	70	30	365	2.19E-07	6.00E-01	3.85E-07	0.00
Pyrene	0.2346	350	30	1E-06	100	70	30	365	3.21E-07	3.00E-02	1.07E-05	0.07
Total PCBs	0.063	350	30	1E-06	100	70	30	365	6.83E-08	7E-06	1.29E-03	8.37
Arsenic	1.03	350	30	1E-06	100	70	30	365	1.41E-06	3.00E-04	4.70E-03	31.84
Barium	21.8	350	30	1E-06	100	70	30	365	3.00E-05	7.00E-02	4.29E-04	2.91
Cadmium	0.57	350	30	1E-06	100	70	30	365	7.81E-07	5.00E-04	1.58E-03	10.61
Chromium	2.7	350	30	1E-06	100	70	30	365	3.70E-06	5.00E-03	7.40E-04	3.02
Manganese	17.3	350	30	1E-06	100	70	30	365	2.37E-05	5.00E-03	4.74E-03	32.19
Selenium	4.7	350	30	1E-06	100	70	30	365	6.44E-06	7.00E-03	9.20E-04	6.25
Zinc	20.6	350	30	1E-06	100	70	30	365	2.82E-05	3.00E-01	8.41E-05	0.64
TOTAL											1.47E-02	100.00

FILE NAME: SIWRW01

CLEJ-01272-3.13-08/20/93

SOIL INGESTION EXPOSURE ASSESSMENT
 SITE 6 WOOD AND RAVINE AREA - WORKER
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot EF \cdot ED \cdot IR / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } /RfD$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for worker (days/yr)	250
ED = exposure duration for worker (yr)	25
IR = soil ingestion rate for worker (mg/day)	100
BW = body weight for worker (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	25
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration (mg/kg)	Exposure Frequency (days/yr) Worker	Exposure Duration (yr) Worker	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Worker	Body Weight (kg) Worker	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Worker	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Worker	Percent Carcinogenic Risk Worker
Children	0.0089	250	25	1E-06	100	70	70	365	2.41E-09	1.80E+01	3.85E-08	0.84
1,4'-DDD	0.006	250	25	1E-06	100	70	70	365	2.10E-09	2.40E-01	5.03E-10	0.01
1,4'-DDE	0.0208	250	25	1E-06	100	70	70	365	7.27E-09	3.40E-01	2.47E-08	0.05
1,4'-DDT	0.0283	250	25	1E-06	100	70	70	365	9.89E-09	3.40E-01	3.36E-08	0.07
Aroclor 1260	0.063	250	25	1E-06	100	70	70	365	2.20E-08	7.70E+00	1.70E-07	3.71
1,4-Dichlorobenzene	0.074	250	25	1E-06	100	70	70	365	2.58E-08	2.40E-02	6.21E-10	0.01
Chrysene	0.2109	250	25	1E-06	100	70	70	365	7.37E-08	7.30E+00	5.38E-07	11.76
Benzo(a)anthracene	0.2181	250	25	1E-06	100	70	70	365	7.62E-08	7.30E+00	5.56E-07	12.16
Benzo(b)fluoranthene	0.2131	250	25	1E-06	100	70	70	365	7.45E-08	7.30E+00	5.44E-07	11.89
Benzo(k)fluoranthene	0.1869	250	25	1E-06	100	70	70	365	6.88E-08	7.30E+00	5.02E-07	10.98
Benzo(a)pyrene	0.2101	250	25	1E-06	100	70	70	365	7.34E-08	7.30E+00	5.38E-07	11.72
Indeno(1,2,3-cd)pyrene	0.2119	250	25	1E-06	100	70	70	365	7.40E-08	7.30E+00	5.40E-07	11.81
Dibenz(a,h)anthracene	0.2008	250	25	1E-06	100	70	70	365	7.02E-08	7.30E+00	5.12E-07	11.20
Arsenic	1.03	250	25	1E-06	100	70	70	365	3.80E-07	1.75E+00	6.30E-07	13.77
TOTAL											4.37E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Worker	Exposure Duration (yr) Worker	Conversion Factor (kg/mg)	Ingestion Rate (mg/day) Worker	Body Weight (kg) Worker	Average Noncarc Time (years)	Days per year (days/yr)	Noncarc Dose (mg/kg/day) Worker	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Worker	Percent Noncarcinogenic Risk Worker
Children	0.0089	250	25	1E-06	100	70	25	365	6.70E-09	5.00E-05	1.35E-04	1.28
Endrin	0.0041	250	25	1E-06	100	70	25	365	4.01E-08	3.00E-04	1.34E-05	0.13
1,4' DDT	0.0283	250	25	1E-06	100	70	25	365	2.77E-08	5.00E-04	5.54E-05	0.53
Anthracene	0.2	250	25	1E-06	100	70	25	365	1.88E-07	3.00E-01	6.82E-07	0.01
Fluoranthene	0.2215	250	25	1E-06	100	70	25	365	2.17E-07	4.00E-02	5.42E-08	0.05
Phenol	0.16	250	25	1E-06	100	70	25	365	1.57E-07	6.00E-01	2.61E-07	0.00
Pyrene	0.2348	250	25	1E-06	100	70	25	365	3.20E-07	3.00E-02	7.63E-08	0.07
Total PCBs	0.063	250	25	1E-06	100	70	25	365	6.16E-08	7E-05	8.81E-04	8.37
Arsenic	1.03	250	25	1E-06	100	70	25	365	1.01E-06	3.00E-04	3.38E-03	31.94
Berium	21.9	250	25	1E-06	100	70	25	365	2.14E-05	7.00E-02	3.08E-04	2.91
Cadmium	0.57	250	25	1E-06	100	70	25	365	5.58E-07	5.00E-04	1.12E-03	10.81
Chromium	2.7	250	25	1E-06	100	70	25	365	2.64E-06	5.00E-03	5.28E-04	5.02
Manganese	17.3	250	25	1E-06	100	70	25	365	1.89E-05	5.00E-03	3.39E-03	32.19
Vanadium	4.7	250	25	1E-06	100	70	25	365	4.80E-06	7.00E-03	6.57E-04	6.25
Zinc	20.8	250	25	1E-06	100	70	25	365	2.02E-05	3.00E-01	6.72E-05	0.64
TOTAL											1.65E-02	100.00

FILE NAME: SWR.W03

CLEJ-01272-3.13-08/20/93

S.O. No. CTO-0138 Camp LejeuneSubject: Dermal Contact with Surface Soil**Baker**Sheet No. 1 of 2

Drawing No. _____

Computed by MDB Checked By JCS Date 3/21/93

Purpose: Estimate exposure/risk from dermal contact with surface soil

$$\text{Intake (mg/Kg-day)} = \frac{C \times CF \times SA \times AF \times Abs \times EF \times ED}{BW \times AT_c \text{ or } AT_{nc}}$$

Where:

C = contaminant concentration in surface soil (mg/Kg)

CF = conversion factor (Kg/mg)

SA = surface area available for contact ($\frac{\text{cm}^2}{\text{event}}$)

AF = soil to skin adherence factor ($\frac{\text{mg}}{\text{cm}^2}$)

Abs = fraction absorbed (percent)

EF = exposure frequency (day/yr)

ED = exposure duration (yr)

BW = body weight (Kg)

AT_c = averaging time carcinogen (days)

AT_{nc} = averaging time noncarcinogen (days)

Risk:

$$\text{Carcinogen} = \text{Intake (mg/Kg-day)} \times \text{CSF (mg/Kg-day)}^{-1}$$

$$\text{Noncarcinogen} = \text{Intake (mg/Kg-day)} / \text{RfD (mg/Kg-day)}$$

S.O. No. CTO-0133

Subject: Dermal Contact with Surface Soil



Sheet No. 2 of 2

Drawing No. _____

Computed by MDB Checked By DCS

Date 3/21/93

Example Carcinogen: 4.4'-DDD

$$\begin{aligned} \text{Intake (mg/Kg-day)} &= \frac{0.0156 \frac{\text{mg}}{\text{kg}} \times 1\text{E-}06 \frac{\text{kg}}{\text{mg}} \times 5300 \frac{\text{cm}^2}{\text{cm}^2} \times 1.0 \frac{\text{mg}}{\text{cm}^2} \times 0.05\% \times 350 \frac{\text{cm}^2}{\text{cm}^2} \times 30\%}{70 \text{ Kg} \times 25,550 \text{ days}} \\ &= 2.4 \text{ E } 10^{-8} \end{aligned}$$

$$\text{Risk} = \frac{2.4 \text{ E } 10^{-8} \frac{\text{mg}}{\text{kg-day}}}{2.4 \text{ E } 10^{-1} \frac{\text{mg}}{\text{kg-day}}} = 5.8 \text{ E } 10^{-9}$$

Example Noncarcinogen: 4.4'-DDT

$$\begin{aligned} \text{Intake (mg/Kg-day)} &= \frac{0.136 \frac{\text{mg}}{\text{kg}} \times 1.0\text{E-}06 \frac{\text{kg}}{\text{mg}} \times 5300 \frac{\text{cm}^2}{\text{cm}^2} \times 1.0 \frac{\text{mg}}{\text{cm}^2} \times 0.05\% \times 350 \frac{\text{cm}^2}{\text{cm}^2} \times 30\%}{70 \text{ Kg} \times 10,950 \text{ days}} \\ &= 4.9 \text{ E } 10^{-7} \end{aligned}$$

$$\text{Risk} = \frac{4.9 \text{ E } 10^{-7} \frac{\text{mg}}{\text{kg-day}}}{5.0 \text{ E } 10^{-4} \frac{\text{mg}}{\text{kg-day}}} = 9.9 \text{ E } 10^{-4}$$

DERMAL CONTACT EXPOSURE ASSESSMENT
 SITE 6 LOT 201 AREAS A B AND C - CHILD RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * SA * AF * Abs * EF * ED / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1E-06
SA = child exposed skin surface area (cm ²)	1800
AF = soil to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unitless)	Specific
EF = child exposure frequency (events/yr)	350
ED = child exposure duration (years)	6
BW = child body weight (kg)	15
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	6
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Child	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Child	Exposure Duration (yrs) Child	Body Weight (kg) Child	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Child	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Child	Percent Carcinogenic Risk Child
Dieldren	0.0074	1E-06	1800	1	0.05	350	6	15	70	365	3.85E-09	1.60E+01	5.84E-08	5.13
1,4'-DDD	0.0158	1E-06	1800	1	0.05	350	6	15	70	365	7.89E-09	2.40E-01	1.85E-09	0.16
1,4'-DDE	0.0452	1E-06	1800	1	0.05	350	6	15	70	365	2.23E-08	3.40E-01	7.58E-09	0.67
1,4'-DDT	0.138	1E-06	1800	1	0.05	350	6	15	70	365	6.71E-08	3.40E-01	2.28E-08	2.00
Aroclor 1280	0.038	1E-06	1800	1	0.03	350	6	15	70	365	1.07E-08	7.70E+00	8.20E-08	7.20
1,4-Dichlorobenzene	0.038	1E-06	1800	1	0.05	350	6	15	70	365	1.87E-08	2.40E-02	4.50E-10	0.04
Chrysene	0.088	1E-06	1800	1	0.05	350	6	15	70	365	4.34E-08	7.30E+00	3.17E-07	27.82
Benzo(b)fluoranthene	0.048	1E-06	1800	1	0.05	350	6	15	70	365	2.27E-08	7.30E+00	1.86E-07	14.54
Arsenic	2.8	1E-06	1800	1	0.01	350	6	15	70	365	2.76E-07	1.75E+00	4.83E-07	42.44
TOTAL													1.14E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Child	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Child	Exposure Duration (yrs) Child	Body Weight (kg) Child	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day) Child	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Child	Percent Noncarcinogenic Risk Child
Dieldren	0.0074	1E-06	1800	1	0.05	350	6	15	6	365	4.26E-08	5.00E-05	8.52E-04	2.80
1,4'-DDT	0.138	1E-06	1800	1	0.05	350	6	15	6	365	7.82E-07	5.00E-04	1.56E-03	5.14
Fluoranthene	0.094	1E-06	1800	1	0.05	350	6	15	6	365	5.41E-07	4.00E-02	1.35E-05	0.04
Pyrene	0.099	1E-06	1800	1	0.05	350	6	15	6	365	6.70E-07	3.00E-02	1.90E-05	0.06
TOTAL PCBs	0.038	1E-06	1800	1	0.03	350	6	15	6	365	1.24E-07	7E-05	1.78E-05	5.84
Arsenic	2.8	1E-06	1800	1	0.01	350	6	15	6	365	3.22E-06	3.00E-04	1.07E-02	35.31
Cadmium	0.8	1E-06	1800	1	0.01	350	6	15	6	365	9.21E-07	5.00E-04	1.84E-03	8.05
Chromium	12.1	1E-06	1800	1	0.01	350	6	15	6	365	1.39E-05	5.00E-03	2.78E-03	9.15
Manganese	46.4	1E-06	1800	1	0.01	350	6	15	6	365	5.34E-05	5.00E-03	1.07E-02	35.11
Zinc	39	1E-06	1800	1	0.01	350	6	15	6	365	4.49E-05	3.00E-01	1.50E-04	0.49
TOTAL													3.04E-02	100.00

CLEJ-01272-3.13-08/20/93

DERMAL CONTACT EXPOSURE ASSESSMENT
 SITE 6 LOT 201 AREAS A B AND C - ADULT RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * SA * AF * Abs * EF * ED / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1E-06
SA = adult exposed skin surface area (cm ²)	5300
AF = soil to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unitless)	Specific
EF = adult exposure frequency (events/yr)	350
ED = adult exposure duration (years)	30
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Handwritten notes:
 1/1000 (100) 1/100,000,000
 1E-4 1E-6
 (10E-4 to 10E-6)
 1E-06

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Dieldrin	0.0074	1E-06	5300	1	0.05	350	30	70	70	365	1.15E-08	1.60E+01	1.84E-07	5.13
4,4'-DDD	0.0156	1E-06	5300	1	0.05	350	30	70	70	365	2.43E-08	2.40E-01	5.82E-09	0.16
4,4'-DDE	0.0452	1E-06	5300	1	0.05	350	30	70	70	365	7.03E-08	3.40E-01	2.39E-08	0.67
4,4'-DDT	0.136	1E-06	5300	1	0.05	350	30	70	70	365	2.12E-07	3.40E-01	7.19E-08	2.00
Aroclor 1260	0.036	1E-06	5300	1	0.03	350	30	70	70	365	3.36E-08	7.70E+00	2.59E-07	7.20
1,4-Dichlorobenzene	0.038	1E-06	5300	1	0.05	350	30	70	70	365	5.91E-08	2.40E-02	1.42E-09	0.04
Chrysene	0.088	1E-06	5300	1	0.05	350	30	70	70	365	1.37E-07	7.30E+00	9.99E-07	27.82
Benzo(b)fluoranthene	0.046	1E-06	5300	1	0.05	350	30	70	70	365	7.16E-08	7.30E+00	5.22E-07	14.54
Arsenic	2.8	1E-06	5300	1	0.01	350	30	70	70	365	8.71E-07	1.75E+00	1.52E-06	42.44
TOTAL													3.59E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Dieldrin	0.0074	1E-06	5300	1	0.05	350	30	70	30	365	2.69E-08	5.00E-05	5.37E-04	2.80
4,4'-DDT	0.136	1E-06	5300	1	0.05	350	30	70	30	365	4.94E-07	5.00E-04	9.87E-04	5.14
Fluoranthene	0.094	1E-06	5300	1	0.05	350	30	70	30	365	3.41E-07	4.00E-02	8.53E-06	0.04
Pyrene	0.099	1E-06	5300	1	0.05	350	30	70	30	365	3.59E-07	3.00E-02	1.20E-05	0.08
TOTAL PCBs	0.036	1E-06	5300	1	0.03	350	30	70	30	365	7.84E-08	7E-05	1.12E-03	5.84
Arsenic	2.8	1E-06	5300	1	0.01	350	30	70	30	365	2.03E-06	3.00E-04	6.78E-03	35.31
Cadmium	0.8	1E-06	5300	1	0.01	350	30	70	30	365	5.81E-07	5.00E-04	1.16E-03	6.05
Chromium	12.1	1E-06	5300	1	0.01	350	30	70	30	365	6.76E-06	5.00E-03	1.76E-03	9.15
Manganese	46.4	1E-06	5300	1	0.01	350	30	70	30	365	3.37E-05	5.00E-03	6.74E-03	35.11
Zinc	39	1E-06	5300	1	0.01	350	30	70	30	365	2.83E-05	3.00E-01	9.44E-05	0.49
TOTAL													1.92E-02	100.00

CLEJ-01272-3.13-08/20/93

DERMAL CONTACT EXPOSURE ASSESSMENT
 SITE 6 LOT 201 AREAS A B AND C - WORKER
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * SA * AF * Abs * EF * ED / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1E-06
SA = worker exposed skin surface area (cm2)	4300
AF = soil to skin adherence factor (mg/cm2)	1
Abs = fraction absorbed (unitless)	Specific
EF = worker exposure frequency (events/yr)	250
ED = worker exposure duration (years)	25
BW = worker body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	25
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm2) Worker	Adherence Factor (mg/cm2)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Worker	Exposure Duration (yrs) Worker	Body Weight (kg) Worker	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Worker	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Worker	Percent Carcinogenic Risk Worker
Dieldren	0.0074	1E-06	4300	1	0.05	250	25	70	70	365	5.56E-09	1.60E+01	8.90E-08	5.13
1,4'-DDD	0.0156	1E-06	4300	1	0.05	250	25	70	70	365	1.17E-08	2.40E-01	2.81E-09	0.16
1,4'-DDE	0.0452	1E-06	4300	1	0.05	250	25	70	70	365	3.40E-08	3.40E-01	1.15E-08	0.67
1,4'-DDT	0.136	1E-06	4300	1	0.05	250	25	70	70	365	1.02E-07	3.40E-01	3.47E-08	2.00
Aroclor 1260	0.036	1E-06	4300	1	0.03	250	25	70	70	365	1.62E-08	7.70E+00	1.25E-07	7.20
1,4-Dichlorobenzene	0.036	1E-06	4300	1	0.05	250	25	70	70	365	2.66E-08	2.40E-02	6.65E-10	0.04
Chrysene	0.086	1E-06	4300	1	0.05	250	25	70	70	365	6.61E-08	7.30E+00	4.63E-07	27.62
Benzo(b)fluoranthene	0.046	1E-06	4300	1	0.05	250	25	70	70	365	3.46E-08	7.30E+00	2.52E-07	14.54
Arsenic	2.6	1E-06	4300	1	0.01	250	25	70	70	365	4.21E-07	1.75E+00	7.36E-07	42.44
TOTAL													1.73E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm2) Worker	Adherence Factor (mg/cm2)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Worker	Exposure Duration (yrs) Worker	Body Weight (kg) Worker	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day) Worker	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Worker	Percent Noncarcinogenic Risk Worker
Dieldren	0.0074	1E-06	4300	1	0.05	250	25	70	25	365	1.56E-08	5.00E-05	3.11E-04	2.80
1,4'-DDT	0.136	1E-06	4300	1	0.05	250	25	70	25	365	2.66E-07	5.00E-04	5.72E-04	5.14
Fluoranthene	0.084	1E-06	4300	1	0.05	250	25	70	25	365	1.98E-07	4.00E-02	4.94E-06	0.04
Pyrene	0.099	1E-06	4300	1	0.05	250	25	70	25	365	2.08E-07	3.00E-02	6.94E-06	0.06
TOTAL PCBs	0.036	1E-06	4300	1	0.03	250	25	70	25	365	4.54E-08	7E-05	6.49E-04	5.84
Arsenic	2.6	1E-06	4300	1	0.01	250	25	70	25	365	1.18E-06	3.00E-04	3.93E-03	35.31
Cadmium	0.8	1E-06	4300	1	0.01	250	25	70	25	365	3.37E-07	5.00E-04	6.73E-04	6.05
Chromium	12.1	1E-06	4300	1	0.01	250	25	70	25	365	5.09E-06	5.00E-03	1.02E-03	9.15
Manganese	46.4	1E-06	4300	1	0.01	250	25	70	25	365	1.95E-05	5.00E-03	3.90E-03	35.11
Zinc	39	1E-06	4300	1	0.01	250	25	70	25	365	1.64E-05	3.00E-01	5.47E-05	0.49
TOTAL													1.11E-02	100.00

DERMAL CONTACT EXPOSURE ASSESSMENT
 SITE 6 LOT 203 AREAS OPEN STORAGE AREA, PCB AND DDT GRID - CHILD RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * SA * AF * Abs * EF * ED / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1E-06
SA = child exposed skin surface area (cm2)	1800
AF = soil to skin adherence factor (mg/cm2)	1
Abs = fraction absorbed (unitless)	Specific
EF = child exposure frequency (events/yr)	350
ED = child exposure duration (years)	6
BW = child body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	6
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Note: inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm2) Child	Adherence Factor (mg/cm2)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Child	Exposure Duration (yrs) Child	Body Weight (kg) Child	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Child	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Child	Percent Carcinogenic Risk Child
Dieldrin	0.0057	1E-06	1800	1	0.05	350	6	70	70	365	6.02E-10	1.60E+01	9.64E-08	0.77
4,4'-DDD	0.062	1E-06	1800	1	0.05	350	6	70	70	365	6.55E-09	2.40E-01	1.57E-09	0.13
4,4'-DDE	0.0248	1E-06	1800	1	0.05	350	6	70	70	365	2.82E-09	3.40E-01	8.91E-10	0.07
4,4'-DDT	0.0416	1E-06	1800	1	0.05	350	6	70	70	365	4.40E-09	3.40E-01	1.49E-09	0.12
Aroclor 1260	0.1815	1E-06	1800	1	0.03	350	6	70	70	365	1.15E-08	7.70E+00	8.66E-08	7.07
1,4-Dichlorobenzene	0.16	1E-06	1800	1	0.05	350	6	70	70	365	1.69E-08	2.40E-02	4.06E-10	0.03
Chrysene	0.231	1E-06	1800	1	0.05	350	6	70	70	365	2.44E-08	7.30E+00	1.78E-07	14.22
Benzo(a)anthracene	0.239	1E-06	1800	1	0.05	350	6	70	70	365	2.53E-08	7.3	1.84E-07	14.72
Benzo(b)fluoranthene	0.27	1E-06	1800	1	0.05	350	6	70	70	365	2.85E-08	7.30E+00	2.08E-07	16.63
Benzo(k)fluoranthene	0.235	1E-06	1800	1	0.05	350	6	70	70	365	2.48E-08	7.3	1.81E-07	14.47
Benzo(a)pyrene	0.241	1E-06	1800	1	0.05	350	6	70	70	365	2.55E-08	7.3	1.86E-07	14.84
Indeno(1,2,3-cd)pyrene	0.227	1E-06	1800	1	0.05	350	6	70	70	365	2.40E-08	7.3	1.75E-07	13.98
Arsenic	1	1E-06	1800	1	0.01	350	6	70	70	365	2.11E-08	1.75E+00	3.70E-08	2.95
TOTAL													1.25E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm2) Child	Adherence Factor (mg/cm2)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Child	Exposure Duration (yrs) Child	Body Weight (kg) Child	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day) Child	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Child	Percent Noncarcinogenic Risk Child
Dieldrin	0.0057	1E-06	1800	1	0.05	350	6	70	6	365	7.03E-09	5.00E-05	1.41E-04	2.49
Endrin	0.0054	1E-06	1800	1	0.05	350	6	70	6	365	6.66E-09	0.0003	2.22E-05	0.39
4,4'-DDT	0.0416	1E-06	1800	1	0.05	350	6	70	6	365	5.13E-08	5.00E-04	1.03E-04	1.82
Fluoranthene	0.2502	1E-06	1800	1	0.05	350	6	70	6	365	3.08E-07	4.00E-02	7.71E-06	0.14
Pyrene	0.254	1E-06	1800	1	0.05	350	6	70	6	365	3.13E-07	0.03	1.04E-05	0.19
Total PCB	0.1815	1E-06	1800	1	0.03	350	6	70	6	365	1.34E-07	7E-05	1.92E-03	34.01
Arsenic	1	1E-06	1800	1	0.01	350	6	70	6	365	2.47E-07	3.00E-04	8.22E-04	14.57
Barium	10.4	1E-06	1800	1	0.01	350	6	70	6	365	2.56E-06	0.07	3.66E-05	0.65
Cadmium	0.9	1E-06	1800	1	0.01	350	6	70	6	365	2.22E-07	5.00E-04	4.44E-04	7.67
Chromium	5.6	1E-06	1800	1	0.01	350	6	70	6	365	1.38E-06	5.00E-03	2.76E-04	4.90
Manganese	36.4	1E-06	1800	1	0.01	350	6	70	6	365	8.98E-06	5.00E-03	1.80E-03	31.83
Zinc	78.2	1E-06	1800	1	0.01	350	6	70	6	365	1.93E-05	3.00E-01	6.43E-05	1.14
TOTAL													5.84E-03	100.00

DERMAL CONTACT EXPOSURE ASSESSMENT
 SITE # LOT 203 AREAS OPEN STORAGE AREA, PCB AND DDT GRID - ADULT RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * SA * AF * Abs * EF * ED / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RfD$$

Where:

- C = contaminant concentration in soil (mg/kg)
- CF = conversion factor (kg/mg)
- SA = adult exposed skin surface area (cm²)
- AF = soil to skin adherence factor (mg/cm²)
- Abs = fraction absorbed (unitless)
- EF = adult exposure frequency (events/yr)
- ED = adult exposure duration (years)
- BW = adult body weight (kg)
- ATc = averaging time for carcinogen (yr)
- ATnc = averaging time for noncarcinogen (yr)
- DY = day per year (day/yr)
- CSF = cancer slope factor (mg/kg-day)⁻¹
- RfD = reference dose (mg/kg-day)

INPUTS

- 1E-06
- 5300
- 1
- Specific
- 350
- 30
- 70
- 70
- 30
- 365
- specific
- specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Care Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Children	0.0037	1E-06	5300	1	0.03	350	30	70	70	365	6.87E-06	1.60E+01	1.42E-07	6.77
4,4'-DDD	0.082	1E-06	5300	1	0.05	350	30	70	70	365	8.65E-06	2.40E-01	2.31E-08	0.13
4,4'-DDE	0.0248	1E-06	5300	1	0.05	350	30	70	70	365	2.86E-06	3.40E-01	1.31E-08	0.07
4,4'-DDT	0.0416	1E-06	5300	1	0.05	350	30	70	70	365	6.47E-06	3.40E-01	2.20E-08	0.12
Aroclor 1260	0.1815	1E-06	5300	1	0.03	350	30	70	70	365	1.68E-07	7.70E+00	1.30E-06	7.07
1,4-Dichlorobenzene	0.16	1E-06	5300	1	0.05	350	30	70	70	365	2.48E-07	2.40E-02	5.97E-06	0.03
Chrysene	0.231	1E-06	5300	1	0.05	350	30	70	70	365	3.58E-07	7.30E+00	2.82E-06	14.22
Benzo(a)anthracene	0.238	1E-06	5300	1	0.05	350	30	70	70	365	3.72E-07	7.30E+00	2.71E-06	14.72
Benzo(b)fluoranthene	0.27	1E-06	5300	1	0.05	350	30	70	70	365	4.20E-07	7.30E+00	3.07E-06	16.83
Benzo(k)fluoranthene	0.235	1E-06	5300	1	0.05	350	30	70	70	365	3.66E-07	7.30E+00	2.87E-06	14.47
Benzo(e)pyrene	0.241	1E-06	5300	1	0.05	350	30	70	70	365	3.73E-07	7.30E+00	2.74E-06	14.84
Indeno(1,2,3-cd)pyrene	0.227	1E-06	5300	1	0.05	350	30	70	70	365	3.53E-07	7.30E+00	2.58E-06	13.98
Arsenic	1	1E-06	5300	1	0.01	350	30	70	70	365	3.11E-07	1.75E+00	5.45E-07	2.95
TOTAL													1.84E-05	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Noncare Time (years)	Days per year (day/year)	Noncare Dose (mg/kg/day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Children	0.0037	1E-06	5300	1	0.03	350	30	70	30	365	2.87E-06	3.00E-05	4.14E-04	2.49
Endrin	0.0054	1E-06	5300	1	0.05	350	30	70	30	365	1.94E-06	0.0003	6.53E-05	0.39
4,4'-DDT	0.0416	1E-06	5300	1	0.05	350	30	70	30	365	1.51E-07	5.00E-04	3.02E-04	1.82
Fluoranthene	0.2502	1E-06	5300	1	0.05	350	30	70	30	365	9.08E-07	4.00E-02	2.27E-05	0.14
Pyrene	0.234	1E-06	5300	1	0.05	350	30	70	30	365	8.22E-07	0.03	3.07E-05	0.19
TOTAL PCB	0.1815	1E-06	5300	1	0.03	350	30	70	30	365	3.85E-07	7E-05	5.85E-05	34.01
Arsenic	1	1E-06	5300	1	0.01	350	30	70	30	365	7.28E-07	3.00E-04	2.42E-03	14.57
Beryllium	10.4	1E-06	5300	1	0.01	350	30	70	30	365	7.53E-06	0.07	1.08E-04	0.65
Cadmium	0.9	1E-06	5300	1	0.01	350	30	70	30	365	6.53E-07	3.00E-04	1.31E-03	7.87
Chromium	3.8	1E-06	5300	1	0.01	350	30	70	30	365	4.07E-06	5.00E-03	8.13E-04	4.90
Manganese	36.4	1E-06	5300	1	0.01	350	30	70	30	365	2.84E-05	5.00E-03	5.28E-03	31.83
Zinc	78.2	1E-06	5300	1	0.01	350	30	70	30	365	5.88E-05	3.00E-01	1.89E-04	1.14
TOTAL													1.66E-02	100.00

CLEJ-01272-3-13-08/20/93

DERMAL CONTACT EXPOSURE
 SITE 8 LOT 203 AREAS OPEN STORAGE AREA, PCB AND DDT QMID - WORKER
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot SA \cdot AF \cdot Abs \cdot EF \cdot ED/BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1E-06
SA = worker exposed skin surface area (cm ²)	4300
AF = soil to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unitless)	Specific
EF = worker exposure frequency (events/yr)	250
ED = worker exposure duration (years)	25
BW = worker body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	25
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Worker	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Worker	Exposure Duration (yrs) Worker	Body Weight (kg) Worker	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Worker	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Worker	Percent Carcinogenic Risk Worker
Children	0.0057	1E-06	4300	1	0.05	250	25	70	70	365	4.28E-06	1.60E+01	6.85E-06	0.77
1,4'-DDD	0.062	1E-06	4300	1	0.05	250	25	70	70	365	4.86E-06	2.40E-01	1.12E-06	0.13
1,4'-DDE	0.0248	1E-06	4300	1	0.05	250	25	70	70	365	1.96E-06	3.40E-01	6.34E-06	0.07
1,4'-DDT	0.0416	1E-06	4300	1	0.05	250	25	70	70	365	3.13E-06	3.40E-01	1.06E-06	0.12
Aroclor 1280	0.1815	1E-06	4300	1	0.05	250	25	70	70	365	6.18E-06	7.70E+00	6.30E-07	7.07
1,4-Dichlorobenzene	0.16	1E-06	4300	1	0.05	250	25	70	70	365	1.20E-07	2.40E-02	2.88E-06	0.03
Chrysene	0.231	1E-06	4300	1	0.05	250	25	70	70	365	1.74E-07	7.30E+00	1.27E-06	14.22
Benzo(a)anthracene	0.239	1E-06	4300	1	0.05	250	25	70	70	365	1.80E-07	7.3	1.31E-06	14.72
Benzo(b)fluoranthene	0.27	1E-06	4300	1	0.05	250	25	70	70	365	2.03E-07	7.30E+00	1.46E-06	16.63
Benzo(k)fluoranthene	0.235	1E-06	4300	1	0.05	250	25	70	70	365	1.77E-07	7.3	1.28E-06	14.47
Benzo(a)pyrene	0.241	1E-06	4300	1	0.05	250	25	70	70	365	1.81E-07	7.3	1.32E-06	14.84
Indene(1,2,3-cd)pyrene	0.227	1E-06	4300	1	0.05	250	25	70	70	365	1.71E-07	7.3	1.25E-06	13.86
Arsenic	1	1E-06	4300	1	0.01	250	25	70	70	365	1.50E-07	1.75E+00	2.62E-07	2.85
TOTAL													8.81E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Worker	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Worker	Exposure Duration (yrs) Worker	Body Weight (kg) Worker	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day) Worker	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Worker	Percent Noncarcinogenic Risk Worker
Children	0.0057	1E-06	4300	1	0.05	250	25	70	25	365	1.20E-06	5.00E-05	2.40E-04	2.49
Indrin	0.0054	1E-06	4300	1	0.05	250	25	70	25	365	1.14E-06	0.0003	3.78E-05	0.38
1,4'-DDT	0.0416	1E-06	4300	1	0.05	250	25	70	25	365	8.73E-06	3.00E-04	1.75E-04	1.82
Fluoranthene	0.2502	1E-06	4300	1	0.05	250	25	70	25	365	5.28E-07	4.00E-02	1.32E-05	0.14
Pyrene	0.254	1E-06	4300	1	0.05	250	25	70	25	365	5.34E-07	0.03	1.78E-05	0.18
TOTAL PCBs	0.1815	1E-06	4300	1	0.03	250	25	70	25	365	2.28E-07	7E-05	3.27E-03	34.01
Arsenic	1	1E-06	4300	1	0.01	250	25	70	25	365	4.21E-07	3.00E-04	1.40E-03	14.57
Berilium	10.4	1E-06	4300	1	0.01	250	25	70	25	365	4.36E-06	0.07	6.25E-05	0.65
Cadmium	0.9	1E-06	4300	1	0.01	250	25	70	25	365	3.78E-07	5.00E-04	7.57E-04	7.87
Chromium	5.6	1E-06	4300	1	0.01	250	25	70	25	365	2.36E-06	3.00E-03	4.71E-04	4.80
Manganese	36.4	1E-06	4300	1	0.01	250	25	70	25	365	1.53E-05	3.00E-03	3.06E-03	31.83
Thc	78.2	1E-06	4300	1	0.01	250	25	70	25	365	3.29E-05	3.00E-01	1.10E-04	1.14
TOTAL													9.62E-03	100.00

DERMAL CONTACT EXPOSURE
 SITE 6 WOODS AND RavINE - CHILDRÉN RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot SA \cdot AF \cdot Abs \cdot EF \cdot ED / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RID$$

Where:

INPUTS

- C = contaminant concentration in soil (mg/kg)
- CF = conversion factor (kg/mg)
- SA = child exposed skin surface area (cm²)
- AF = soil to skin adherence factor (mg/cm²)
- Abs = fraction absorbed (unitless)
- EF = child exposure frequency (events/yr)
- ED = child exposure duration (years)
- BW = child body weight (kg)
- ATc = averaging time for carcinogen (yr)
- ATnc = averaging time for noncarcinogen (yr)
- DY = day per year (day/yr)
- CSF = cancer slope factor (mg/kg-day)⁻¹
- RID = reference dose (mg/kg-day)

- 1E-08
- 1800
- 1
- Specific
- 350
- 6
- 15
- 70
- 6
- 365
- specific
- specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Child	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Child	Exposure Duration (yrs) Child	Body Weight (kg) Child	Average Care Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Child	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Child	Percent Carcinogenic Risk Child
Children	0.0089	1E-08	1800	1	0.05	350	6	15	70	365	3.40E-08	1.80E-01	5.44E-10	0.01
1,4'-DDD	0.006	1E-08	1800	1	0.05	350	6	15	70	365	2.98E-08	2.40E-01	7.10E-10	0.01
1,4'-DDE	0.0208	1E-08	1800	1	0.05	350	6	15	70	365	1.03E-08	3.40E-01	3.49E-08	0.06
1,4'-DDT	0.0283	1E-08	1800	1	0.05	350	6	15	70	365	1.40E-08	3.40E-01	4.75E-08	0.06
Aroclor 1260	0.063	1E-08	1800	1	0.05	350	6	15	70	365	1.86E-08	7.70E+00	1.44E-07	2.57
1,4-Dichlorobenzene	0.1982	1E-08	1800	1	0.05	350	6	15	70	365	9.18E-08	2.40E-02	2.20E-08	0.04
Chrysene	0.2108	1E-08	1800	1	0.05	350	6	15	70	365	1.04E-07	7.30E+00	7.58E-07	13.57
Benzo(e)anthracene	0.2181	1E-08	1800	1	0.05	350	6	15	70	365	1.06E-07	7.30E+00	7.85E-07	14.03
Benzo(b)fluoranthene	0.2151	1E-08	1800	1	0.05	350	6	15	70	365	1.05E-07	7.30E+00	7.67E-07	13.71
Benzo(k)fluoranthene	0.1989	1E-08	1800	1	0.05	350	6	15	70	365	9.71E-08	7.30E+00	7.09E-07	12.87
Benzo(a)pyrene	0.2101	1E-08	1800	1	0.05	350	6	15	70	365	1.04E-07	7.30E+00	7.66E-07	13.52
Indene(1,2,3 cd)pyrene	0.2118	1E-08	1800	1	0.05	350	6	15	70	365	1.04E-07	7.30E+00	7.62E-07	13.63
Dibenz(a,h)anthracene	0.2008	1E-08	1800	1	0.05	350	6	15	70	365	9.90E-08	7.30E+00	7.23E-07	12.92
Aroclor	1.03	1E-08	1800	1	0.01	350	6	15	70	365	1.02E-07	1.75E+00	1.78E-07	3.18
TOTAL													5.60E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Child	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Child	Exposure Duration (yrs) Child	Body Weight (kg) Child	Average Noncare Time (years)	Days per year (day/year)	Noncare Dose (mg/kg/day) Child	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Child	Percent Noncarcinogenic Risk Child
Children	0.0089	1E-08	1800	1	0.05	350	6	15	6	365	3.97E-08	5.00E-03	7.94E-04	6.57
Endrin	0.0041	1E-08	1800	1	0.05	350	6	15	6	365	2.36E-08	3.00E-04	7.86E-05	0.65
1,4'-DDT	0.0283	1E-08	1800	1	0.05	350	6	15	6	365	1.63E-07	5.00E-04	3.26E-04	2.70
Anthracene	0.2	1E-08	1800	1	0.05	350	6	15	6	365	1.15E-08	3.00E-01	3.84E-08	0.03
Fluoranthene	0.2215	1E-08	1800	1	0.05	350	6	15	6	365	1.27E-08	4.00E-02	3.18E-05	0.28
Phenol	0.18	1E-08	1800	1	0.05	350	6	15	6	365	9.21E-07	6.00E-01	1.53E-06	0.01
Pyrene	0.2346	1E-08	1800	1	0.05	350	6	15	6	365	1.35E-08	3.00E-02	4.50E-05	0.37
TOTAL PCBs	0.063	1E-08	1800	1	0.03	350	6	15	6	365	0.006400	7E-05	3.11E-06	0.00
Aroclor	1.03	1E-08	1800	1	0.01	350	6	15	6	365	1.18E-08	3.00E-04	3.85E-03	32.70
Barium	21.9	1E-08	1800	1	0.01	350	6	15	6	365	2.52E-05	3.00E-01	8.40E-05	0.70
Cadmium	0.37	1E-08	1800	1	0.01	350	6	15	6	365	6.58E-07	5.00E-04	1.31E-03	10.88
Chromium	2.7	1E-08	1800	1	0.01	350	6	15	6	365	3.11E-06	5.00E-03	6.21E-04	5.14
Manganese	17.3	1E-08	1800	1	0.01	350	6	15	6	365	1.88E-05	5.00E-03	3.86E-03	32.85
Vanadium	4.7	1E-08	1800	1	0.01	350	6	15	6	365	3.41E-06	7.00E-03	7.73E-04	6.40
Zinc	20.8	1E-08	1800	1	0.01	350	6	15	6	365	2.57E-05	3.00E-01	7.90E-05	0.65
TOTAL													1.52E-02	100.00

FILE NAME: DCWA.W02

CLEJ-01272-3.13-08/20/93

DERMAL CONTACT EXPOSURE AGENT
 SITE 8 WOODS AND RAVINE - ADJUTANT RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot SA \cdot AF \cdot Abs \cdot EF \cdot ED / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RFD$$

Where:

C = contaminant concentration in soil (mg/kg)	INPUTS
CF = conversion factor (kg/mg)	1E-06
SA = adult exposed skin surface area (cm ²)	5300
AF = soil to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unitless)	Specific
EF = adult exposure frequency (events/yr)	350
ED = adult exposure duration (years)	30
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RFD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Children	0.0069	1E-06	5300	1	0.05	350	30	70	70	365	1.07E-06	1.80E-01	1.72E-08	0.01
1,4'-DDD	0.006	1E-06	5300	1	0.05	350	30	70	70	365	8.33E-09	2.40E-01	2.24E-08	0.01
1,4'-DDE	0.0206	1E-06	5300	1	0.05	350	30	70	70	365	3.24E-09	3.40E-01	1.10E-08	0.06
1,4'-DDT	0.0283	1E-06	5300	1	0.05	350	30	70	70	365	4.40E-09	3.40E-01	1.50E-08	0.08
Aroclor 1260	0.063	1E-06	5300	1	0.03	350	30	70	70	365	5.88E-08	7.70E+00	4.53E-07	2.57
1,4-Dichlorobenzene	0.1862	1E-06	5300	1	0.05	350	30	70	70	365	2.90E-07	2.40E-02	6.95E-06	0.04
Chrysene	0.2109	1E-06	5300	1	0.05	350	30	70	70	365	3.28E-07	7.30E+00	2.40E-06	13.57
Benz(a)anthracene	0.2181	1E-06	5300	1	0.05	350	30	70	70	365	3.39E-07	7.30E+00	2.48E-06	14.03
Benz(b)fluoranthene	0.2131	1E-06	5300	1	0.05	350	30	70	70	365	3.32E-07	7.30E+00	2.43E-06	13.71
Benz(k)fluoranthene	0.1969	1E-06	5300	1	0.05	350	30	70	70	365	3.08E-07	7.30E+00	2.24E-06	12.67
Benz(a)pyrene	0.2101	1E-06	5300	1	0.05	350	30	70	70	365	3.27E-07	7.30E+00	2.39E-06	13.32
Indene(1,2,3-cd)pyrene	0.2118	1E-06	5300	1	0.05	350	30	70	70	365	3.30E-07	7.30E+00	2.41E-06	13.63
Dibenz(a,h)anthracene	0.2008	1E-06	5300	1	0.05	350	30	70	70	365	3.18E-07	7.30E+00	2.28E-06	12.82
Arsenic	1.03	1E-06	5300	1	0.01	350	30	70	70	365	3.20E-07	1.75E+00	5.61E-07	3.18
TOTAL													1.77E-05	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Noncanc Time (years)	Days per year (day/year)	Noncanc Dose (mg/kg/day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Children	0.0048	1E-06	5300	1	0.05	350	30	70	30	365	2.50E-06	5.00E-05	5.01E-04	5.13
Endrin	0.0041	1E-06	5300	1	0.05	350	30	70	30	365	1.49E-06	3.00E-04	4.96E-05	0.51
1,4'-DDT	0.0283	1E-06	5300	1	0.05	350	30	70	30	365	1.03E-07	5.00E-04	2.06E-04	2.11
Anthracene	0.2	1E-06	5300	1	0.05	350	30	70	30	365	7.26E-07	3.00E-01	2.42E-06	0.02
Fluoranthene	0.2215	1E-06	5300	1	0.05	350	30	70	30	365	8.04E-07	4.00E-02	2.01E-05	0.21
Phenol	0.16	1E-06	5300	1	0.05	350	30	70	30	365	5.81E-07	6.00E-01	8.98E-07	0.01
Pyrene	0.2349	1E-06	5300	1	0.05	350	30	70	30	365	6.32E-07	3.00E-02	2.84E-05	0.29
Fatal PCBs	0.063	1E-06	5300	1	0.03	350	30	70	30	365	1.37E-07	7E-05	1.98E-03	20.09
Arsenic	1.03	1E-06	5300	1	0.01	350	30	70	30	365	7.48E-07	3.00E-04	2.48E-03	25.55
Barium	21.9	1E-06	5300	1	0.01	350	30	70	30	365	1.58E-05	7.00E-02	2.27E-04	2.33
Cadmium	0.57	1E-06	5300	1	0.01	350	30	70	30	365	4.14E-07	5.00E-04	8.28E-04	8.48
Chromium	2.7	1E-06	5300	1	0.01	350	30	70	30	365	1.98E-06	5.00E-03	3.92E-04	4.02
Manganese	17.3	1E-06	5300	1	0.01	350	30	70	30	365	1.28E-05	5.00E-03	2.51E-03	25.75
Vanadium	4.7	1E-06	5300	1	0.01	350	30	70	30	365	3.41E-06	7.00E-03	4.87E-04	5.00
Zinc	20.8	1E-06	5300	1	0.01	350	30	70	30	365	1.50E-05	3.00E-01	4.99E-03	5.51
TOTAL													8.78E-03	100.00

FILE NAME: DQWR.W01

CLEJ-01272-3.13-08/20/93

DERMAL CONTACT EXPOSURE
 SITE 8 WOODS AND RAVINE
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal contact with soil is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot SA \cdot AF \cdot Abs \cdot EF \cdot ED / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:

C = contaminant concentration in soil (mg/kg)	INPUTS
CF = conversion factor (kg/mg)	1E-06
SA = worker exposed skin surface area (cm ²)	4300
AF = soil to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unitless)	Specific
EF = worker exposure frequency (events/yr)	250
ED = worker exposure duration (years)	25
BW = worker body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	25
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Worker	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Worker	Exposure Duration (yrs) Worker	Body Weight (kg) Worker	Average Care Time (years)	Days per year (day/year)	Carcinogen Dose (mg/kg/day) Worker	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Worker	Percent Carcinogenic Risk Worker
Dieldrin	0.0088	1E-06	4300	1	0.05	250	25	70	70	365	5.19E-08	1.80E-01	8.29E-10	0.01
1,4'-DDD	0.006	1E-06	4300	1	0.05	250	25	70	70	365	4.51E-08	2.40E-01	1.06E-09	0.01
1,4'-DDE	0.0208	1E-06	4300	1	0.05	250	25	70	70	365	1.56E-08	3.40E-01	5.31E-09	0.06
1,4'-DDT	0.0283	1E-06	4300	1	0.05	250	25	70	70	365	2.13E-08	3.40E-01	7.23E-09	0.08
Acetol 1280	0.063	1E-06	4300	1	0.03	250	25	70	70	365	2.84E-08	7.70E+00	2.19E-07	2.57
1,4-Dichlorobenzene	0.1962	1E-06	4300	1	0.05	250	25	70	70	365	1.40E-07	2.40E-02	3.36E-09	0.04
Chrysene	0.2109	1E-06	4300	1	0.05	250	25	70	70	365	1.56E-07	7.30E+00	1.16E-06	13.57
Benz(a)anthracene	0.2181	1E-06	4300	1	0.05	250	25	70	70	365	1.64E-07	7.30E+00	1.20E-06	14.03
Benz(b)fluoranthene	0.2131	1E-06	4300	1	0.05	250	25	70	70	365	1.60E-07	7.30E+00	1.17E-06	13.71
Benz(k)fluoranthene	0.1969	1E-06	4300	1	0.05	250	25	70	70	365	1.48E-07	7.30E+00	1.06E-06	12.67
Benz(a)pyrene	0.2101	1E-06	4300	1	0.05	250	25	70	70	365	1.56E-07	7.30E+00	1.15E-06	13.52
Indene(1,2,3-cd)pyrene	0.2118	1E-06	4300	1	0.05	250	25	70	70	365	1.56E-07	7.30E+00	1.16E-06	13.63
Dibenz(a,h)anthracene	0.2008	1E-06	4300	1	0.05	250	25	70	70	365	1.51E-07	7.30E+00	1.10E-06	12.92
Arsenic	1.02	1E-06	4300	1	0.01	250	25	70	70	365	1.55E-07	1.75E+00	2.71E-07	3.18
TOTAL													8.52E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Worker	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Worker	Exposure Duration (yrs) Worker	Body Weight (kg) Worker	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day) Worker	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Worker	Percent Noncarcinogenic Risk Worker
Dieldrin	0.0088	1E-06	4300	1	0.05	250	25	70	25	365	1.45E-08	5.00E-03	2.90E-04	5.13
Endrin	0.0041	1E-06	4300	1	0.05	250	25	70	25	365	6.63E-09	3.00E-04	2.88E-05	0.51
1,4'-DDT	0.0283	1E-06	4300	1	0.05	250	25	70	25	365	5.95E-08	5.00E-04	1.19E-04	2.11
Anthracene	0.2	1E-06	4300	1	0.05	250	25	70	25	365	4.21E-07	3.00E-01	1.40E-06	0.02
Fluoranthene	0.2215	1E-06	4300	1	0.05	250	25	70	25	365	4.66E-07	4.00E-02	1.16E-05	0.21
Phenol	0.16	1E-06	4300	1	0.05	250	25	70	25	365	3.37E-07	6.00E-01	5.61E-07	0.01
Pyrene	0.2346	1E-06	4300	1	0.05	250	25	70	25	365	4.94E-07	3.00E-02	1.65E-05	0.29
TOTAL PCBs	0.063	1E-06	4300	1	0.03	250	25	70	25	365	7.85E-08	7E-05	1.14E-03	20.09
Arsenic	1.02	1E-06	4300	1	0.01	250	25	70	25	365	4.33E-07	3.00E-04	1.44E-03	25.55
Berium	21.8	1E-06	4300	1	0.01	250	25	70	25	365	9.21E-06	7.00E-02	1.32E-04	2.33
Cadmium	0.57	1E-06	4300	1	0.01	250	25	70	25	365	2.40E-07	5.00E-04	4.80E-04	8.49
Chromium	2.7	1E-06	4300	1	0.01	250	25	70	25	365	1.14E-06	5.00E-03	2.27E-04	4.02
Manganese	17.3	1E-06	4300	1	0.01	250	25	70	25	365	7.28E-06	5.00E-03	1.46E-03	25.73
Vanadium	4.7	1E-06	4300	1	0.01	250	25	70	25	365	1.96E-06	7.00E-03	2.62E-04	5.00
Zinc	20.6	1E-06	4300	1	0.01	250	25	70	25	365	8.67E-06	3.00E-01	2.89E-05	0.51
TOTAL													3.63E-03	100.00

FILE NAME DCWAW03

CLEJ-01272-3.13-08/20/93

S.O. No. CTO-0133 Camp LejeuneSubject: Particulate Inhalation**Baker**Sheet No. 1 of 2

Drawing No. _____

Computed by MDB Checked By DES Date 3/23/93

Purpose: Estimate exposure/risk from inhalation of particulates

$$\text{Intake (mg/Kg-day)} = \frac{C \times EF \times ED \times ET \times IR \times 1/PEF}{BW \times AT_c \text{ or } AT_{nc}}$$

Where:

C = contaminant concentration in surface soil (mg/Kg)EF = exposure frequency (day/yr)ED = exposure duration (yr)ET = exposure time (hr/day)IR = inhalation rate (m^3/hr) $1/PEF$ = Particulate emission factor (m^3/Kg) (Cowherd)

BW = body weight (Kg)

 AT_c = averaging time carcinogen (day) AT_{nc} = averaging time noncarcinogen (day)

Risk:

Carcinogen = Intake (mg/Kg-day) \times CSF (mg/Kg-day)⁻¹Noncarcinogen = Intake (mg/Kg-day) / RfD (mg/Kg-day)

Example Carcinogen: Dieldrin

$$\text{Intake (mg/Kg-day)} = \frac{0.01 \frac{\text{mg}}{\text{Kg}} \times 350 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr} \times 16 \frac{\text{hr}}{\text{day}} \times 0.83 \frac{\text{m}^3}{\text{hr}} \times \frac{1}{3 \times 10^8 \frac{\text{m}^3}{\text{Kg}}}}{70 \text{ Kg} \times 25,550 \text{ days}}$$

S.O. No. CTO-φ133 Camp Lejeune

Subject: Particulate Inhalation



Sheet No. 2 of 2

Drawing No. _____

Computed by MDB Checked By DES Date 3/23/93

$$= 1.56 E-12$$

$$Risk = 1.56 E-12 (mg/Kg-day) \times 1.6 E+01 mg/Kg-day^{-1} = 2.49 E-11$$

Example Noncarcinogen: Manganese

$$\text{Intake (mg/Kg-day)} = \frac{53 \frac{mg}{kg} \times 350 \frac{day}{yr} \times 30 yr \times 16 \frac{hr}{day} \times 0.83 \frac{m^3}{hr} \times \frac{1}{5 \times 10^8 \frac{m^3}{kg}}}{70^{kg} \times 10,950 \text{ days}}$$

$$= 1.93 E-08$$

$$Risk = \frac{1.93 E-08 \frac{mg}{kg-day}}{4.00 E-04 \frac{mg}{kg-day}} = 6.81 E-05$$

PARTICULATE INHALATION EXPOSURE ASSESSMENT
 SITE 6 LOT 201 AREAS A B AND C - CHILD
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from the inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF) / (BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * \text{CSF or /RfD}$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	Calculated
CSF = carcinogenic slope factor	Specific
RfD = reference dose for noncarcinogen	Specific
IR = inhalation rate (m3/hr)	0.43
EF = child exposure frequency (days/yr)	350
ED = child exposure duration (years)	6
ET = child exposure time (hr/day)	24
BW = child body weight (kg)	15
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	6
DY = day per year (day/yr)	365
PEF = particulate emission factor (m3/kg)	Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldren	0.01	5.0E+08	350	0.43	6	24	15	70	365	8.37E-13	1.60E+01	1.34E-11	0.02
1,4'-DDT	0.14	5.0E+08	350	0.43	6	24	15	70	365	1.54E-11	3.40E-01	5.29E-12	0.01
Arsenic	2.80	5.0E+08	350	0.43	6	24	15	70	365	3.17E-10	5.00E+01	1.58E-08	21.43
Cadmium	0.80	5.0E+08	350	0.43	6	24	15	70	365	9.05E-11	6.30E+00	5.70E-10	0.77
Chromium	12.10	5.0E+08	350	0.43	6	24	15	70	365	1.37E-09	4.20E+01	5.75E-08	77.78
TOTAL												7.39E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
1,4-Dichlorobenzene	0.04	5.0E+08	350	0.43	6	24	15	6	365	5.01E-11	8.00E-01	6.27E-11	0.00
Manganese	46.40	5.0E+08	350	0.43	6	24	15	6	365	6.12E-08	4.00E-04	1.53E-04	100.00
TOTAL												1.53E-04	100.00

FILE NAME:PI201.W02

CLEJ-01272-3.13-08/20/93

PARTICULATE INHALATION EXPOSURE ASSESSMENT
 SITE 6 LOT 201 AREAS A B AND C - ADULT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from the inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF)/(BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * \text{CSF or /RID}$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	Calculated
CSF = carcinogenic slope factor	Specific
RID = reference dose for noncarcinogen	Specific
IR = inhalation rate (m3/hr)	0.83
EF = adult exposure frequency (days/yr)	350
ED = adult exposure duration (years)	30
ET = adult exposure time (hr/day)	16
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = day per year (day/yr)	365
PEF = particulate emission factor (m3/kg)	Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldrin	0.01	5.0E+08	350	0.83	30	16	70	70	365	1.15E-12	1.60E+01	1.85E-11	0.02
1,4'-DDT	0.14	5.0E+08	350	0.83	30	16	70	70	365	2.12E-11	3.40E-01	7.21E-12	0.01
Arsenic	2.80	5.0E+08	350	0.83	30	16	70	70	365	4.37E-10	5.00E+01	2.18E-08	21.43
Cadmium	0.80	5.0E+08	350	0.83	30	16	70	70	365	1.25E-10	6.30E+00	7.86E-10	0.77
Chromium	12.10	5.0E+08	350	0.83	30	16	70	70	365	1.69E-09	4.20E+01	7.92E-08	77.78
TOTAL												1.02E-07	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
1,4-Dichlorobenzene	0.04	5.0E+08	350	0.83	30	16	70	30	365	1.38E-11	8.00E-01	1.73E-11	0.00
Manganese	46.40	5.0E+08	350	0.83	30	16	70	30	365	1.69E-08	4.00E-04	4.22E-05	100.00
TOTAL												4.22E-05	100.00

FILE NAME: PI201.WQ1

CLEJ-01272-3.13-08/20/93

ARTICULATE INHALATION EXPOSURE ASSESSMENT
 SITE 6 LOT 201 AREAS A B AND C - WORKER
 REMEDIAL INVESTIGATION CTO-0133
 ACB CAMP LEJEUNE, NORTH CAROLINA

Intake from the inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF) / (BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * \text{CSF or /RID}$$

Where:

- C = contaminant concentration in soil (mg/kg)
- CSF = carcinogenic slope factor
- RID = reference dose for noncarcinogen
- IR = Inhalation rate (m3/hr)
- EF = worker exposure frequency (days/yr)
- ED = worker exposure duration (years)
- ET = worker exposure time (hr/day)
- BW = worker body weight (kg)
- ATc = averaging time for carcinogen (yr)
- ATnc = averaging time for noncarcinogen (yr)
- DY = day per year (day/yr)
- PEF = particulate emission factor (m3/kg)

INPUTS

- Calculated
- Specific
- Specific
- 1.25
- 250
- 25
- 24
- 70
- 70
- 25
- 365
- Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldrin	0.01	5.0E+08	250	1.25	25	24	70	70	365	1.55E-12	1.60E+01	2.48E-11	0.02
1,4'-DDT	0.14	5.0E+08	250	1.25	25	24	70	70	365	2.85E-11	3.40E-01	9.70E-12	0.01
Arsenic	2.80	5.0E+08	250	1.25	25	24	70	70	365	5.87E-10	5.00E+01	2.94E-08	21.43
Cadmium	0.80	5.0E+08	250	1.25	25	24	70	70	365	1.88E-10	6.30E+00	1.08E-09	0.77
Chromium	12.10	5.0E+08	250	1.25	25	24	70	70	365	2.54E-09	4.20E+01	1.07E-07	77.78
TOTAL												1.37E-07	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
1,4-Dichlorobenzene	0.04	5.0E+08	250	1.25	25	24	70	25	365	2.23E-11	8.00E-01	2.79E-11	0.00
Manganese	46.40	5.0E+08	250	1.25	25	24	70	25	365	2.72E-08	4.00E-04	6.81E-05	100.00
TOTAL												6.81E-05	100.00

FILE NAME: P1201.WQ3

CLEJ-01272-3.13-08/20/93

ARTICULATE INHALATION EXPOSURE ASSESSMENT
 TE 6 LOT 203 OPEN STORAGE AREA, DDT AND PCB GRID - CHILD
 MEDICAL INVESTIGATION CTO-0133
 CB CAMP LEJEUNE, NORTH CAROLINA

Intake from the inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF) / (BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RfD$$

where:	INPUTS
C = contaminant concentration in soil (mg/kg)	Calculated
CSF = carcinogenic slope factor	Specific
RfD = reference dose for noncarcinogen	Specific
IR = Inhalation rate (m3/hr)	0.43
EF = child exposure frequency (days/yr)	350
ED = child exposure duration (years)	6
ET = child exposure time (hr/day)	24
BW = child body weight (kg)	15
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	6
DY = day per year (day/yr)	365
PEF = particulate emission factor (m3/kg)	Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldren	0.01	5.0E+08	350	0.43	6	24	15	70	365	6.45E-13	1.60E+01	1.03E-11	0.03
1,4'-DDT	0.04	5.0E+08	350	0.43	6	24	15	70	365	4.70E-12	3.40E-01	1.60E-12	0.00
Arsenic	1.00	5.0E+08	350	0.43	6	24	15	70	365	1.13E-10	5.00E+01	5.65E-09	17.18
Cadmium	0.90	5.0E+08	350	0.43	6	24	15	70	365	1.02E-10	6.30E+00	6.41E-10	1.95
Chromium	5.80	5.0E+08	350	0.43	6	24	15	70	365	6.33E-10	4.20E+01	2.66E-08	80.83
TOTAL												3.29E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
1,4-Dichlorobenzene	0.18	5.0E+08	350	0.43	6	24	15	6	365	2.11E-10	8.00E-01	2.64E-10	0.00
Manganese	36.40	5.0E+08	350	0.43	6	24	15	6	365	4.80E-08	4.00E-04	1.20E-04	100.00
TOTAL												1.20E-04	100.00

FILE NAME: PI203.WQ2

CLEJ-01272-3.13-08/20/93

PARTICULATE INHALATION EXPOSURE ASSESSMENT
 SITE 6 LOT 203 OPEN STORAGE AREA, DDT AND PCB GRID - ADULT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from the Inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF) / (BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * \text{CSF or /RID}$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	Calculated
CSF = carcinogenic slope factor	Specific
RID = reference dose for noncarcinogen	Specific
IR = Inhalation rate (m3/hr)	0.83
EF = adult exposure frequency (days/yr)	350
ED = adult exposure duration (years)	30
ET = adult exposure time (hr/day)	16
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = day per year (day/yr)	365
PEF = particulate emission factor (m3/kg)	Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldren	0.01	5.0E+08	350	0.83	30	16	70	70	365	8.89E-13	1.80E+01	1.42E-11	0.03
4,4'-DDT	0.04	5.0E+08	350	0.83	30	16	70	70	365	6.49E-12	3.40E-01	2.21E-12	0.00
Arsenic	1.00	5.0E+08	350	0.83	30	16	70	70	365	1.56E-10	5.00E+01	7.80E-09	17.18
Cadmium	0.90	5.0E+08	350	0.83	30	16	70	70	365	1.40E-10	6.30E+00	8.84E-10	1.95
Chromium	5.60	5.0E+08	350	0.83	30	16	70	70	365	6.73E-10	4.20E+01	3.67E-08	80.83
TOTAL												4.54E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
1,4-Dichlorobenzene	0.18	5.0E+08	350	0.83	30	16	70	30	365	5.82E-11	8.00E-01	7.28E-11	0.00
Manganese	36.40	5.0E+08	350	0.83	30	16	70	30	365	1.32E-08	4.00E-04	3.31E-05	100.00
TOTAL												3.31E-05	100.00

FILE NAME: PI203.WQ1

CLEJ-01272-3.13-08/20/93

PARTICULATE INHALATION RISK ASSESSMENT
 SITE 6 LOT 203 OPEN STORAGE AREA, DDT AND PCB GRID - WORKER
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from the inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF) / (BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * \text{CSF} \text{ or } \text{RID}$$

Where:

- C = contaminant concentration in soil (mg/kg)
- CSF = carcinogenic slope factor
- RID = reference dose for noncarcinogen
- IR = inhalation rate (m³/hr)
- EF = worker exposure frequency (days/yr)
- ED = worker exposure duration (years)
- ET = worker exposure time (hr/day)
- BW = worker body weight (kg)
- ATc = averaging time for carcinogen (yr)
- ATnc = averaging time for noncarcinogen (yr)
- DY = day per year (day/yr)
- PEF = particulate emission factor (m³/kg)

INPUTS

- Calculated
- Specific
- Specific
- 1.25
- 250
- 25
- 24
- 70
- 70
- 25
- 365
- Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m ³ /kg)	Exposure Frequency (events/yr)	Inhalation Rate (m ³ /day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldrin	0.01	5.0E+08	250	1.25	25	24	70	70	365	1.20E-12	1.60E+01	1.91E-11	0.03
p,p'-DDT	0.04	5.0E+08	250	1.25	25	24	70	70	365	6.72E-12	3.40E-01	2.97E-12	0.00
Arsenic	1.00	5.0E+08	250	1.25	25	24	70	70	365	2.10E-10	5.00E+01	1.05E-08	17.18
Cadmium	0.90	5.0E+08	250	1.25	25	24	70	70	365	1.89E-10	6.30E+00	1.19E-09	1.95
Chromium	5.60	5.0E+08	250	1.25	25	24	70	70	365	1.17E-09	4.20E+01	4.93E-08	80.83
TOTAL												6.10E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m ³ /kg)	Exposure Frequency (events/yr)	Inhalation Rate (m ³ /day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
p,p'-Dichlorobenzene	0.16	5.0E+08	250	1.25	25	24	70	25	365	9.36E-11	8.00E-01	1.17E-10	0.00
Manganese	36.40	5.0E+08	250	1.25	25	24	70	25	365	2.14E-08	4.00E-04	5.34E-05	100.00
TOTAL												5.34E-05	100.00

FILE NAME: PI203.WQ3

CLEJ-01272-3.13-08/20/93

PARTICULATE INHALATION EXPOSURE ASSESSMENT
 SITE 6 WOOD AND RAVINE AREA - CHILD
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from the inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF) / (BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RID$$

Where:

C = contaminant concentration in soil (mg/kg)	Calculated
CSF = carcinogenic slope factor	Specific
RID = reference dose for noncarcinogen	Specific
IR = inhalation rate (m ³ /hr)	0.43
EF = child exposure frequency (days/yr)	350
ED = child exposure duration (years)	6
ET = child exposure time (hr/day)	24
BW = child body weight (kg)	15
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	6
DY = day per year (day/yr)	365
PEF = particulate emission factor (m ³ /kg)	Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m ³ /kg)	Exposure Frequency (events/yr)	Inhalation Rate (m ³ /day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldrin	0.01	5.0E+08	350	0.43	6	24	15	70	365	7.80E-13	1.80E+01	1.25E-11	0.07
1,4'-DDT	0.03	5.0E+08	350	0.43	6	24	15	70	365	3.20E-12	3.40E-01	1.09E-12	0.01
Arsenic	1.03	5.0E+08	350	0.43	6	24	15	70	365	1.16E-10	5.00E+01	5.82E-09	30.54
Cadmium	0.57	5.0E+08	350	0.43	6	24	15	70	365	6.45E-11	6.30E+00	4.06E-10	2.13
Chromium	2.70	5.0E+08	350	0.43	6	24	15	70	365	3.05E-10	4.20E+01	1.28E-08	67.26
TOTAL												1.91E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m ³ /kg)	Exposure Frequency (events/yr)	Inhalation Rate (m ³ /day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
1,4-Dichlorobenzene	0.07	5.0E+08	350	0.43	6	24	15	6	365	9.76E-11	8.00E-01	1.22E-10	0.00
Manganese	17.30	5.0E+08	350	0.43	6	24	15	6	365	2.28E-08	4.00E-04	5.71E-05	100.00
TOTAL												5.71E-05	100.00

FILE NAME: PIWR.WQ2

CLEJ-01272-3.13-08/20/93

PARTICULATE INHALATION EXPOSURE ASSESSMENT
 SITE 6 WOOD AND RAVINE AREA - ADULT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from the inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF) / (BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * \text{CSF or RfD}$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	Calculated
CSF = carcinogenic slope factor	Specific
RfD = reference dose for noncarcinogen	Specific
IR = inhalation rate (m3/hr)	0.83
EF = adult exposure frequency (days/yr)	350
ED = adult exposure duration (years)	30
ET = adult exposure time (hr/day)	16
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = day per year (day/yr)	365
PEF = particulate emission factor (m3/kg)	Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldrin	0.01	5.0E+08	350	0.83	30	16	70	70	365	1.08E-12	1.80E+01	1.72E-11	0.07
1,4'-DDT	0.03	5.0E+08	350	0.83	30	16	70	70	365	4.41E-12	3.40E+01	1.50E-11	0.01
Arsenic	1.03	5.0E+08	350	0.83	30	16	70	70	365	1.61E-10	5.00E+01	8.03E-09	30.54
Cadmium	0.57	5.0E+08	350	0.83	30	16	70	70	365	8.89E-11	6.30E+00	5.60E-10	2.13
Chromium	2.70	5.0E+08	350	0.83	30	16	70	70	365	4.21E-10	4.20E+01	1.77E-08	67.26
TOTAL												2.63E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
1,4-Dichlorobenzene	0.07	5.0E+08	350	0.83	30	16	70	30	365	2.69E-11	8.00E-01	3.37E-11	0.00
Manganese	17.30	5.0E+08	350	0.83	30	16	70	30	365	6.29E-09	4.00E-04	1.57E-05	100.00
TOTAL												1.57E-05	100.00

FILE NAME: PIWR.WQT

CLEJ-01272-3.13-08/20/93

PARTICULATE INHALATION EXPOSURE ASSESSMENT
 SITE 6 WOOD AND RAVINE AREA - WORKER
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from the inhalation of particulates is calculated as follows:

$$\text{Intake (mg/kg-day)} = (C * EF * ED * ET * IR * 1/PEF) / (BW * ATc \text{ or } ATnc * DY)$$

$$\text{Risk} = \text{Intake} * \text{CSF} \text{ or } / \text{RID}$$

Where:

C = contaminant concentration in soil (mg/kg)	INPUTS
CSF = carcinogenic slope factor	Calculated
RID = reference dose for noncarcinogen	Specific
IR = inhalation rate (m3/hr)	Specific
EF = worker exposure frequency (days/yr)	1.25
ED = worker exposure duration (years)	250
ET = worker exposure time (hr/day)	25
BW = worker body weight (kg)	8
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	70
DY = day per year (day/yr)	25
PEF = particulate emission factor (m3/kg)	365
	Cowherd

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day)	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk	Percent Contribution to Risk
Dieldrin	0.01	5.0E+08	250	1.25	25	8	70	70	365	4.82E-13	1.60E+01	7.72E-12	0.07
p,p'-DDT	0.03	5.0E+08	250	1.25	25	8	70	70	365	1.98E-12	3.40E+01	6.72E-13	0.01
Arsenic	1.03	5.0E+08	250	1.25	25	8	70	70	365	7.20E-11	5.00E+01	3.60E-09	30.54
Cadmium	0.57	5.0E+08	250	1.25	25	8	70	70	365	3.98E-11	6.30E+00	2.51E-10	2.13
Chromium	2.70	5.0E+08	250	1.25	25	8	70	70	365	1.89E-10	4.20E+01	7.93E-09	67.26
TOTAL												1.18E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Particulate Emission Factor (m3/kg)	Exposure Frequency (events/yr)	Inhalation Rate (m3/day)	Exposure Duration (yrs)	Exposure Time (hr/day)	Body Weight (kg)	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk	Percent Noncarcinogenic Risk
p,p'-Dichlorobenzene	0.07	5.0E+08	250	1.25	25	8	70	25	365	1.45E-11	8.00E-01	1.81E-11	0.00
Manganese	17.30	5.0E+08	250	1.25	25	8	70	25	365	3.39E-09	4.00E-04	8.46E-06	100.00
TOTAL												8.46E-06	100.00

FILE NAME: PIWR.WQ3

CLEJ-01272-3.13-08/20/93

Purpose: Estimate exposures / risks from ingestion of groundwater

$$\text{Intake (mg/kg-day)} = \frac{C \times IR_w \times EF \times ED}{BW \times AT_c \text{ or } AT_{nc}}$$

Where:

C = contaminant concentration in groundwater (mg/l)

IR_w = daily water ingestion rate (l/day)

EF = exposure frequency (day/year)

ED = exposure duration (yr)

BW = body weight (kg)

AT_c = averaging time for carcinogens (days)

AT_{nc} = averaging time for noncarcinogens (days)

Risk =

Carcinogen = Intake (mg/kg-day) × CSF (mg/kg-day)⁻¹

Noncarcinogen = Intake (mg/kg-day) / RFD (mg/kg-day)

Example Carcinogen: Vinyl Chloride

$$\begin{aligned} \text{Intake (mg/kg-day)} &= \frac{0.0016 \frac{\text{mg}}{\text{l}} \times 2 \frac{\text{l}}{\text{day}} \times 350 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr}}{70 \text{ kg} \times 25,550 \text{ day}} \\ &= 1.88 \text{E-}05 \end{aligned}$$

S.O. No. CTO-0133 Camp Lejeune

CLEJ-01272-3.13-08/20/93

Subject: Groundwater Ingestion

Sheet No. 2 of 2

Drawing No. _____

Computed by MDB Checked By DCJ

Date 3/20/93

$$\text{Risk} = 1.88 \text{ E-}05 \frac{\text{mg}}{\text{Kg-day}} \times 1.9 \text{ E}0 \frac{\text{mg}}{\text{Kg-day}}^{-1} = 3.6 \text{ E-}05$$

Example Noncarcinogen: Ethylbenzene

$$\text{Intake (mg/Kg-day)} = \frac{0.0008 \frac{\text{mg}}{\text{L}} \times 2 \frac{\text{L}}{\text{day}} \times 350 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr}}{70 \text{ Kg} \times 10,950 \text{ days}}$$

$$= 2.19 \text{ E-}05$$

$$\text{Risk} = \frac{2.19 \text{ E-}05 \frac{\text{mg}}{\text{Kg-day}}}{1.0 \text{ E-}01 \frac{\text{mg}}{\text{Kg-day}}} = 2.2 \text{ E-}04$$

GROUNDWATER INGESTION EXPOSURE ASSESSMENT
 SITE # AND # CHILD RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from drinking water is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot \text{IRw} \cdot \text{EF} \cdot \text{ED} / \text{BW} \cdot \text{AT} \text{ or } \text{ATnc} \cdot \text{DY}$$

$$\text{Risk} = \text{Intake} \cdot \text{CSF} \text{ or } \text{RID}$$

Where:

INPUTS

- C = contaminant concentration in water (mg/l)
- IRw = child daily water ingestion rate (L/Day) 1
- EF = child exposure frequency (days/yr) 350
- ED = child exposure duration (yr) 6
- BW = child body weight (kg) 15
- ATc = averaging time for carcinogen (yr) 70
- ATnc = averaging time for noncarcinogen (yr) 6
- DY = days per year (day/year) 365
- CSF = cancer slope factor (mg/kg-day)⁻¹ specific
- RID = reference dose (mg/kg-day) specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/l)	Ingestion Rate (L/day) Child	Exposure Frequency (day/year) Child	Exposure Duration (year) Child	Body Weight (kg) Child	Average Carc Time (years)	Days per year (day/yr)	Carc Dose (mg/kg-day) Child	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Child	Percent Carcinogenic Risk Child
Bromochloromethane	0.0008	1	350	6	15	70	365	3.26E-06	6.52E-02	2.04E-07	0.121
1,2-Dichloroethane	0.0008	1	350	6	15	70	365	3.29E-06	9.10E-02	2.99E-07	0.177
1,1-Dichloroethane	0.0008	1	350	6	15	70	365	3.29E-06	6.00E-01	1.97E-06	1.169
1,1,2,2-Tetrachloroethane	0.0017	1	350	6	15	70	365	6.32E-06	2.00E-01	1.26E-06	1.104
1,1,2-Trichloroethane	0.0005	1	350	6	15	70	365	2.74E-06	5.70E-02	1.56E-07	0.083
Trichloroethane	0.014	1	350	6	15	70	365	7.67E-05	1.10E-02	8.44E-07	0.500
Tetrachloroethane	0.0021	1	350	6	15	70	365	1.15E-05	3.20E-02	3.69E-07	0.353
Vinyl Chloride	0.0018	1	350	6	15	70	365	6.77E-06	1.90E+00	1.27E-05	8.875
Arsenic	0.00467	1	350	6	15	70	365	2.54E-05	1.73E+00	4.40E-05	28.844
Beryllium	0.0043	1	350	6	15	70	365	2.36E-05	4.30E+00	1.01E-04	60.040
TOTAL										1.89E-04	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Ingestion Rate (L/day) Child	Exposure Frequency (day/year) Child	Exposure Duration (year) Child	Body Weight (kg) Child	Average Noncarc Time (years)	Days per year (day/yr)	Noncarc Dose (mg/kg-day) Child	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Child	Percent Noncarcinogenic Risk Child
Bromochloromethane	0.0008	1	350	6	15	6	365	3.84E-05	2.00E-02	1.92E-03	0.06
Chlorobenzene	0.0021	1	350	6	15	6	365	1.34E-04	2.00E-02	6.71E-03	0.23
1,1-Dichloroethane	0.0008	1	350	6	15	6	365	3.84E-05	9.00E-03	4.28E-03	0.14
1,1,2-Dichloroethane	0.0051	1	350	6	15	6	365	3.28E-04	2.00E-02	1.63E-02	0.55
1,1,2,2-Tetrachloroethane	0.0017	1	350	6	15	6	365	1.09E-04	3.00E-02	3.62E-03	0.12
Tetrachloroethane	0.0021	1	350	6	15	6	365	1.34E-04	1.00E-02	1.34E-02	0.45
1,1,2-Trichloroethane	0.0005	1	350	6	15	6	365	3.20E-05	4.00E-03	7.99E-03	0.27
Ethylbenzene	0.0008	1	350	6	15	6	365	3.11E-05	1.00E-01	5.11E-04	0.02
Tolylbenzene	0.0007	1	350	6	15	6	365	4.47E-05	2.00E+00	2.24E-05	0.00
Phenol	0.0054	1	350	6	15	6	365	3.43E-04	8.00E-01	5.75E-04	0.02
Arsenic	0.0047	1	350	6	15	6	365	2.99E-04	3.00E-04	9.95E-01	33.48
Barium	0.1368	1	350	6	15	6	365	8.74E-03	7.00E-02	1.25E-01	4.20
Beryllium	0.0008	1	350	6	15	6	365	3.52E-05	9.00E-03	7.03E-03	0.24
Chromium (IV)	0.0467	1	350	6	15	6	365	2.98E-03	5.00E-03	5.96E-01	20.07
Manganese	0.0453	1	350	6	15	6	365	2.90E-03	5.00E-03	5.79E-01	18.49
Mercury	0.0001	1	350	6	15	6	365	5.11E-06	3.00E-04	1.70E-02	0.57
Nickel	0.0104	1	350	6	15	6	365	6.82E-04	2.00E-02	3.31E-02	1.11
Vanadium	0.0807	1	350	6	15	6	365	3.86E-03	7.00E-03	5.54E-01	18.84
Zinc	0.0471	1	350	6	15	6	365	3.01E-03	3.00E-01	1.00E-02	0.34
TOTAL										3.0	100.00

GROUNDWATER INGESTION EXPOSURE ASSESSMENT
 OPERABLE UNIT NO 2 ADULT RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from drinking water is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * IRw * EF * ED / BW * AT \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RfD$$

Where:	INPUTS
C = contaminant concentration in water (mg/l)	
IRw = adult daily water ingestion rate (L/day)	2
EF = adult exposure frequency (days/yr)	350
ED = adult exposure duration (yr)	30
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = days per year (day/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/l)	Ingestion Rate (L/day) Adult	Exposure Frequency (day/year) Adult	Exposure Duration (year) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (day/yr)	Carc Dose (mg/kg-day) Adult	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Bromodichloromethane	0.0006	2	350	30	70	70	365	7.05E-06	8.20E-02	4.37E-07	0.121
1,2-Dichloroethane	0.0006	2	350	30	70	70	365	7.05E-06	9.10E-02	6.41E-07	0.177
1,1-Dichloroethene	0.0006	2	350	30	70	70	365	7.05E-06	6.00E-01	4.23E-06	1.169
1,1,2,2-Tetrachloroethane	0.0017	2	350	30	70	70	365	2.00E-05	2.00E-01	3.99E-06	1.104
1,1,2-Trichloroethane	0.0005	2	350	30	70	70	365	5.87E-06	5.70E-02	3.35E-07	0.093
Trichloroethene	0.014	2	350	30	70	70	365	1.64E-04	1.10E-02	1.81E-06	0.500
Tetrachloroethene	0.0021	2	350	30	70	70	365	2.47E-05	5.20E-02	1.26E-06	0.355
Vinyl Chloride	0.0016	2	350	30	70	70	365	1.88E-05	1.90E+00	3.57E-05	9.875
Arsenic	0.00467	2	350	30	70	70	365	5.46E-05	1.75E+00	9.60E-05	26.546
Beryllium	0.0043	2	350	30	70	70	365	5.05E-05	4.30E+00	2.17E-04	60.060
TOTAL										3.61E-04	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Ingestion Rate (L/day) Adult	Exposure Frequency (day/year) Adult	Exposure Duration (year) Adult	Body Weight (kg) Adult	Average Noncarc Time (years)	Days per year (day/yr)	Noncarc Dose (mg/kg-day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Bromodichloromethane	0.0006	2	350	30	70	30	365	1.64E-05	2.00E-02	8.22E-04	0.08
Chlorobenzene	0.0021	2	350	30	70	30	365	5.75E-05	2.00E-02	2.68E-03	0.23
1,1-Dichloroethane	0.0006	2	350	30	70	30	365	1.64E-05	9.00E-03	1.63E-03	0.14
1,1,2-Dichloroethane	0.0051	2	350	30	70	30	365	1.40E-04	2.00E-02	6.99E-03	0.55
1,1,2,2-Tetrachloroethane	0.0017	2	350	30	70	30	365	4.66E-05	3.00E-02	1.55E-03	0.12
Tetrachloroethene	0.0021	2	350	30	70	30	365	5.75E-05	1.00E-02	5.75E-03	0.45
1,1,2-Trichloroethane	0.0005	2	350	30	70	30	365	1.37E-05	4.00E-03	3.42E-03	0.27
Ethylbenzene	0.0008	2	350	30	70	30	365	2.19E-05	1.00E-01	2.19E-04	0.02
Total Xylenes	0.0007	2	350	30	70	30	365	1.92E-05	2.00E+00	9.59E-06	0.00
Phenol	0.0054	2	350	30	70	30	365	1.48E-04	6.00E-01	2.47E-04	0.02
Arsenic	0.0047	2	350	30	70	30	365	1.28E-04	3.00E-04	4.26E-01	33.48
Barium	0.1366	2	350	30	70	30	365	3.75E-03	7.00E-02	5.35E-02	4.20
Beryllium	0.0008	2	350	30	70	30	365	1.51E-05	5.00E-03	3.01E-03	0.24
Chromium (IV)	0.0467	2	350	30	70	30	365	1.28E-03	5.00E-03	2.56E-01	20.07
Manganese	0.0453	2	350	30	70	30	365	1.24E-03	5.00E-03	2.48E-01	19.49
Mercury	0.0001	2	350	30	70	30	365	2.19E-06	3.00E-04	7.31E-03	0.57
Nickel	0.0104	2	350	30	70	30	365	2.64E-04	2.00E-02	1.42E-02	1.11
Sodium	0.0607	2	350	30	70	30	365	1.66E-03	7.00E-03	2.37E-01	18.64
Zinc	0.0471	2	350	30	70	30	365	1.26E-03	3.00E-01	4.30E-03	0.34
TOTAL										1.3	100.00

CLEJ-01272-3.13-08/20/93

GROUNDWATER INGESTION EXPOSURE ASSESSMENT
 SITE 8 AND 9 WORKER
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from drinking water is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot IRW \cdot EF \cdot ED / BW \cdot AT \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUTS
C = contaminant concentration in water (mg/l)	
IRW = adult daily water ingestion rate (L/Day)	2
EF = adult exposure frequency (days/yr)	250
ED = adult exposure duration (yr)	25
BW = adult body weight (kg)	70
ATC = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	25
DY = days per year (day/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/l)	Ingestion Rate (L/day) Worker	Exposure Frequency (day/year) Worker	Exposure Duration (year) Worker	Body Weight (kg) Worker	Average Carc Time (years)	Days per year (day/yr)	Carc Dose (mg/kg-day) Worker	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Worker	Percent Carcinogenic Risk Worker
Bromodichloromethane	0.0006	2	250	25	70	70	365	4.19E-06	6.20E-02	2.60E-07	0.121
1,2-Dichloroethane	0.0006	2	250	25	70	70	365	4.19E-06	9.10E-02	3.82E-07	0.177
1,1-Dichloroethane	0.0006	2	250	25	70	70	365	4.19E-06	6.00E-01	2.52E-06	1.169
1,1,2,2-Tetrachloroethane	0.0017	2	250	25	70	70	365	1.19E-05	2.00E-01	2.38E-06	1.104
1,1,2-Trichloroethane	0.0005	2	250	25	70	70	365	3.49E-06	5.70E-02	1.99E-07	0.093
Trichloroethane	0.014	2	250	25	70	70	365	9.79E-05	1.10E-02	1.08E-06	0.500
Tetrachloroethane	0.0021	2	250	25	70	70	365	1.47E-05	5.20E-02	7.63E-07	0.353
Vinyl Chloride	0.0016	2	250	25	70	70	365	1.12E-05	1.80E+00	2.12E-05	9.873
Arsenic	0.00467	2	250	25	70	70	365	3.26E-05	1.75E+00	5.71E-05	26.546
Beryllium	0.0049	2	250	25	70	70	365	3.01E-05	4.30E+00	1.29E-04	60.090
TOTAL										2.15E-04	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Ingestion Rate (L/day) Worker	Exposure Frequency (day/year) Worker	Exposure Duration (year) Worker	Body Weight (kg) Worker	Average Noncarc Time (years)	Days per year (day/yr)	Noncarc Dose (mg/kg-day) Worker	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Worker	Percent Noncarcinogenic Risk Worker
Bromodichloromethane	0.0006	2	250	25	70	25	365	1.17E-05	2.00E-02	5.87E-04	0.06
Chlorobenzene	0.0021	2	250	25	70	25	365	4.11E-05	2.00E-02	2.05E-03	0.23
1,1-Dichloroethane	0.0006	2	250	25	70	25	365	1.17E-05	9.00E-03	1.30E-03	0.14
1,1,2-Dichloroethane	0.0051	2	250	25	70	25	365	9.99E-05	2.00E-02	4.99E-03	0.55
1,1,2,2-Tetrachloroethane	0.0017	2	250	25	70	25	365	3.33E-05	3.00E-02	1.11E-03	0.12
Trichloroethane	0.0021	2	250	25	70	25	365	4.11E-05	1.00E-02	4.11E-03	0.45
1,1,2-Trichloroethane	0.0005	2	250	25	70	25	365	9.79E-06	4.00E-03	2.45E-03	0.27
Ethylbenzene	0.0006	2	250	25	70	25	365	1.57E-05	1.00E-01	1.57E-04	0.02
Total Xylenes	0.0007	2	250	25	70	25	365	1.37E-05	2.00E+00	6.85E-06	0.00
Phenol	0.0054	2	250	25	70	25	365	1.06E-04	6.00E-01	1.76E-04	0.02
Arsenic	0.0047	2	250	25	70	25	365	9.14E-05	3.00E-04	3.05E-01	33.46
Barium	0.1388	2	250	25	70	25	365	2.89E-03	7.00E-02	3.82E-02	4.20
Beryllium	0.0006	2	250	25	70	25	365	1.06E-05	5.00E-03	2.15E-03	0.24
Chromium (IV)	0.0487	2	250	25	70	25	365	9.13E-04	5.00E-03	1.83E-01	20.07
Manganese	0.0453	2	250	25	70	25	365	8.87E-04	5.00E-03	1.77E-01	19.49
Mercury	0.0001	2	250	25	70	25	365	1.57E-06	3.00E-04	5.22E-03	0.57
Nickel	0.0104	2	250	25	70	25	365	2.03E-04	2.00E-02	1.01E-02	1.11
Selenium	0.0807	2	250	25	70	25	365	1.19E-03	7.00E-03	1.70E-01	18.84
Zinc	0.0471	2	250	25	70	25	365	9.21E-04	3.00E-01	3.07E-03	0.34
TOTAL										0.9	100.00

S.O. No. CTO-0133Subject: Camp LejeuneDermal Contact with Groundwater Sheet No. 1 of 2

Drawing No. _____

Computed by MDB Checked By RFH Date 4/6/934/6/93**Baker**

Purpose: Estimate exposure / risk from dermal contact with groundwater

$$\text{Intake} = \frac{C \times SA \times PC \times ET \times EF \times ED \times CF}{BW \times AT \text{ or } AT_{nc}}$$

(mg/kg-day)

Where: C = contaminant concentration in groundwater (mg/l)

SA = exposed skin surface available for contact (cm²)

PC = permeability constant (cm/hr)

ET = exposure time (hr/day)

EF = exposure frequency (day/yr)

ED = exposure duration (yr)

CF = conversion factor (L/1000 cm³)

BW = body weight (kg)

AT_c = averaging time carcinogen (days)

AT_{nc} = averaging time noncarcinogen (days)

Risk:

$$\text{Carcinogen} = \text{Intake (mg/kg-day)} \times \text{CSF (mg/kg-day)}^{-1}$$

$$\text{Noncarcinogen} = \text{Intake (mg/kg-day)} / \text{RfD (mg/kg-day)}$$

S.O. No. CTO-φ133

Subject: Camp Lejeune

Dermal Contact with Groundwater Sheet No. 2 of 2



Drawing No. _____

Computed by MDB Checked By _____ Date 4/6/93

Example Carcinogen: Vinyl Chloride

$$\begin{aligned} \text{Intake (mg/Kg-day)} &= \frac{0.0016 \frac{\text{mg}}{\text{cm}^2} \times 18,150 \text{ cm}^2 \times 7.3 \text{E-}3 \frac{\text{cm}}{\text{hr}} \times 0.25 \frac{\text{hr}}{\text{day}} \times 350 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr} \times \frac{1}{10000}}{70 \text{ Kg} \times 25,550 \text{ days}} \\ &= 3.11 \text{E-}07 \end{aligned}$$

$$\text{Risk} = 3.11 \text{E-}07 \frac{\text{mg}}{\text{kg-day}} \times 1.9 \text{E+}00 \left[\frac{\text{mg}}{\text{kg-day}} \right]^{-1} = 5.91 \text{E-}07$$

Example Noncarcinogen: Chlorobenzene

$$\begin{aligned} \text{Intake (mg/Kg-day)} &= \frac{.0021 \frac{\text{mg}}{\text{cm}^2} \times 18,150 \text{ cm}^2 \times 4.1 \text{E-}02 \frac{\text{cm}}{\text{hr}} \times 0.25 \frac{\text{hr}}{\text{day}} \times 350 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr} \times \frac{1}{10000}}{70 \text{ Kg} \times 10,950 \text{ days}} \\ &= 5.35 \text{E-}06 \end{aligned}$$

$$\text{Risk} = 5.35 \text{E-}06 \text{ mg/Kg-day} / 2.0 \text{E-}02 \text{ mg/Kg-day} = 2.7 \text{E-}04$$

GROUNDWATER DERMAL CONTACT EXPOSURE ASSESSMENT
 SITE 6 AND 9 C-MLD
 REMEDIAL INVESTIGATION CTO-0133
 VCB CAMP LEJEUNE, NORTH CAROLINA

Dermal Contact from groundwater is calculated as follows:

$$Risk \text{ (mg/kg-day)} = CW \cdot SA \cdot PC \cdot ET \cdot EF \cdot ED \cdot CF/BW \cdot Afc \text{ or } ATnc \cdot DY$$

Risk = Intake * CSF or /AD

Where:	INPUTS
CW = contaminant concentration in water (mg/l)	7800
SA = total skin surface available for contact (cm ²)	Specific
PC = contaminant specific dermal permeability (cm/hr)	0.25
ET = total exposure time (hours/day)	350
EF = total exposure frequency (days/yr)	6
ED = total exposure duration (years)	0.001
CF = volumetric conversion factor for water (liter/1000 cm ³)	15
BW = total body weight (kg)	70
Afc = averaging time for carcinogen (yr)	6
ATnc = averaging time for noncarcinogen (yr)	365
DY = days per year (days)	

Note: Inputs are site and scenario specific

Contaminant	Concentration Carcinogen (mg/l)	Surface Area (cm ² ; Child)	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Child	Exposure Frequency (days/yr) Child	Exposure Duration (years) Child	Volumetric Conversion (L/m ³)	Body Weight (kg) Child	Averaging Time (years)	Days per Year (days)	Carcinogen Dose (mg/kg-day) Child	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Child	Percent Carcinogenic Risk Child
monochlorobenzene	0.0006	7800	6.80E-03	0.25	350	6	0.001	15	70	365	3.78E-08	6.20E-02	2.35E-09	0.15
2,4-Dichlorobenzene	0.0006	7800	6.30E-03	0.25	350	6	0.001	15	70	365	3.43E-08	6.10E-02	2.12E-09	0.20
1,4-Dichlorobenzene	0.0006	7800	1.80E-02	0.25	350	6	0.001	15	70	365	1.04E-07	6.00E-01	6.22E-08	3.94
1,2,3-Trichlorobenzene	0.0017	7800	8.00E-03	0.25	350	6	0.001	15	70	365	1.65E-07	2.00E-01	3.30E-08	2.09
1,2,4-Trichlorobenzene	0.0006	7800	8.40E-03	0.25	350	6	0.001	15	70	365	4.53E-08	6.70E-02	2.58E-08	0.16
trichlorobenzene	0.014	7800	2.00E-01	0.25	350	6	0.001	15	70	365	3.02E-06	1.10E-02	3.32E-07	21.06
tetrachlorobenzene	0.0021	7800	4.00E-01	0.25	350	6	0.001	15	70	365	8.07E-06	5.30E-02	4.72E-07	29.87
vinyl Chloride	0.0018	7800	7.30E-03	0.25	350	6	0.001	15	70	365	1.26E-07	1.90E+00	2.40E-07	15.18
Ursene	0.00487	7800	1.50E-03	0.25	350	6	0.001	15	70	365	7.58E-08	1.75E+00	1.32E-07	8.38
benzylum	0.0043	7800	1.50E-03	0.25	350	6	0.001	15	70	365	6.94E-08	4.30E+00	2.99E-07	18.97
TOTAL													1.58E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Surface Area (cm ² ; Child)	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Child	Exposure Frequency (days/yr) Child	Exposure Duration (years) Child	Volumetric Conversion (L/m ³)	Body Weight (kg) Child	Average Noncancer Time (years)	Days per Year (days)	Absorbed Dose (mg/kg-day) Child	Reference Dose (mg/kg-day)	Noncancer Risk Child	Percent Noncarcinogenic Risk Child
monochlorobenzene	0.0006	7800	6.80E-03	0.25	350	6	0.001	15	6	365	4.38E-07	2.00E-02	2.19E-05	0.11
nonchlorobenzene	0.0021	7800	4.10E-02	0.25	350	6	0.001	15	6	365	1.08E-06	2.00E-02	5.42E-04	2.66
1,4-Dichlorobenzene	0.0006	7800	1.80E-02	0.25	350	6	0.001	15	6	365	1.21E-06	8.00E-03	1.54E-04	0.66
1,2,4-Dichlorobenzene	0.0011	7800	1.00E-02	0.25	350	6	0.001	15	6	365	6.43E-06	2.00E-02	3.21E-04	1.59
1,2,3-Trichlorobenzene	0.0017	7800	2.00E-01	0.25	350	6	0.001	15	6	365	1.97E-06	2.00E-01	9.93E-06	0.06
trichlorobenzene	0.0021	7800	3.70E-01	0.25	350	6	0.001	15	6	365	9.79E-06	1.00E-02	9.79E-03	48.06
1,2,4-Trichlorobenzene	0.0006	7800	8.40E-03	0.25	350	6	0.001	15	6	365	8.29E-07	4.00E-03	1.32E-04	0.65
trichloroethene	0.0008	7800	7.40E-02	0.25	350	6	0.001	15	6	365	7.48E-06	1.00E-01	7.48E-06	0.37
o,p'-DDE	0.0007	7800	8.00E-02	0.25	350	6	0.001	15	6	365	7.06E-06	2.00E+00	3.53E-06	0.02
hexachlorocyclopentadiene	0.0064	7800	8.20E-02	0.25	350	6	0.001	15	6	365	6.58E-06	6.00E-01	9.28E-06	0.46
hexachlorocyclopentadiene	0.0047	7800	1.50E-03	0.25	350	6	0.001	15	6	365	8.98E-07	5.00E-04	2.98E-03	14.53
arsine	0.1268	7800	1.50E-03	0.25	350	6	0.001	15	6	365	2.59E-06	7.00E-02	3.69E-04	1.81
arsine	0.0006	7800	1.50E-03	0.25	350	6	0.001	15	6	365	1.13E-07	6.00E-03	2.27E-06	0.11
arsine	0.0427	7800	2.00E-01	0.25	350	6	0.001	15	6	365	1.19E-06	6.00E-03	2.35E-03	11.55
arsine	0.0457	7800	1.50E-01	0.25	350	6	0.001	15	6	365	8.54E-06	5.00E-03	1.71E-03	8.41
arsine	0.0001	7800	1.50E-01	0.25	350	6	0.001	15	6	365	1.89E-08	2.00E-04	6.30E-05	0.31
arsine	0.0104	7800	1.50E-01	0.25	350	6	0.001	15	6	365	1.96E-06	2.00E-03	9.82E-05	0.48
arsine	0.0607	7800	1.50E-01	0.25	350	6	0.001	15	6	365	1.18E-06	7.00E-03	1.84E-03	9.04
arsine	0.0471	7800	1.50E-01	0.25	350	6	0.001	15	6	365	8.90E-06	3.00E-01	2.97E-06	0.15
TOTAL													2.01E-02	100.00

FILE NAME: DCQWR9.WQ3

CLEJ-01272-3.13-08/20/93

GROUNDWATER DERMAL CONTACT RISK ASSESSMENT
 OPERABLE UNIT NO. 2 ADULT RESIDENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal Contact from groundwater is calculated as follows:

$$Intake (mg/kg-day) = CW \cdot SA \cdot PC \cdot ET \cdot EF \cdot ED \cdot CF / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$Risk = Intake \cdot CSF \text{ or } PWD$$

Where: INPUTS

- CW = contaminant concentration in water (mg/l)
- SA = adult skin surface available for contact (cm²)
- PC = contaminant specific dermal permeability (cm/hr)
- ET = adult exposure time (hours/day)
- EF = adult exposure frequency (days/yr)
- ED = adult exposure duration (years)
- CF = volumetric conversion factor for water (liter/1000 cm³)
- BW = adult body weight (kg)
- ATc = averaging time for carcinogen (yr)
- ATnc = averaging time for noncarcinogen (yr)
- DY = days per year (days)

INPUTS

- 18150
- Specific
- 0.25
- 360
- 30
- 0.001
- 70
- 70
- 30
- 365
- 8.27E-08
- 6.30E-02
- 5.75E-09
- 0.02

Note: Inputs are site and scenario specific

Contaminant	Concentration Carcinogen (mg/l)	Surface Area (cm ²) Adult	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adult	Exposure Frequency (days/yr) Adult	Exposure Duration (years) Adult	Volumetric Conversion (L/m ³)	Body Weight (kg) Adult	Averaging Carc Time (years)	Days per Year (days)	Carc Dose (mg/kg-day) Adult	Noncarc Dose (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
1,2-Dichloroethane	0.0006	18150	5.80E-03	0.25	360	30	0.001	70	70	365	8.27E-08	6.30E-02	5.75E-09	0.02
1,2-Dibromoethane	0.0006	18150	5.30E-03	0.25	360	30	0.001	70	70	365	8.47E-08	8.10E-02	7.71E-09	0.02
1-Chloroethane	0.0006	18150	1.80E-03	0.25	360	30	0.001	70	70	365	2.94E-07	6.00E-01	1.83E-07	0.60
1,1,2-Trichloroethane	0.0017	18150	8.00E-03	0.25	360	30	0.001	70	70	365	4.08E-07	2.00E-01	8.16E-08	0.32
1,1,2-Trichloroethane	0.0005	18150	8.40E-03	0.25	360	30	0.001	70	70	365	1.12E-07	6.70E-02	6.39E-09	0.02
1,1,2-Trichloroethane	0.014	18150	2.00E-01	0.25	360	30	0.001	70	70	365	7.44E-06	2.00E-01	1.49E-05	
1,1,2-Trichloroethane	0.0021	18150	4.00E-01	0.25	360	30	0.001	70	70	365	2.24E-05	4.00E-01	8.95E-06	
1,1,2-Trichloroethane	0.0016	18150	7.30E-03	0.25	360	30	0.001	70	70	365	3.11E-07	1.80E+00	5.81E-07	2.29
1,1,2-Trichloroethane	0.0047	18150	1.50E-03	0.25	360	30	0.001	70	70	365	1.87E-07	1.75E+00	3.27E-07	1.27
1,1,2-Trichloroethane	0.0043	18150	1.50E-03	0.25	360	30	0.001	70	70	365	1.73E-07	4.30E+00	7.39E-07	2.87
TOTAL													2.28E-05	7.51

Contaminant	Concentration Noncarcinogen (mg/l)	Surface Area (cm ²) Adult	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adult	Exposure Frequency (days/yr) Adult	Exposure Duration (years) Adult	Volumetric Conversion (L/m ³)	Body Weight (kg) Adult	Averaging Noncarc Time (years)	Days per Year (days)	Noncarc Dose (mg/kg-day) Adult	Noncarc Dose (mg/kg-day) ⁻¹	Noncarc Risk Adult	Percent Noncarcinogenic Risk Adult
1,2-Dichloroethane	0.0006	18150	5.80E-03	0.25	360	30	0.001	70	30	365	2.15E-07	3.00E-02	1.08E-05	0.11
1,2-Dichloroethane	0.0021	18150	4.10E-03	0.25	360	30	0.001	70	30	365	5.39E-06	3.00E-02	2.89E-04	3.44
1,2-Dichloroethane	0.0006	18150	1.80E-03	0.25	360	30	0.001	70	30	365	8.87E-07	8.00E-02	6.83E-05	0.86
1,2-Dichloroethane	0.0081	18150	1.00E-03	0.25	360	30	0.001	70	30	365	3.17E-06	2.00E-02	1.58E-04	1.58
1,1,2-Trichloroethane	0.0017	18150	8.00E-03	0.25	360	30	0.001	70	30	365	8.81E-07	2.00E-01	4.79E-05	0.05
1,1,2-Trichloroethane	0.0021	18150	2.70E-01	0.25	360	30	0.001	70	30	365	4.93E-06	1.00E-02	4.93E-05	48.06
1,1,2-Trichloroethane	0.0006	18150	8.40E-03	0.25	360	30	0.001	70	30	365	2.61E-07	4.00E-02	6.53E-05	0.65
1,1,2-Trichloroethane	0.0008	18150	7.40E-03	0.25	360	30	0.001	70	30	365	3.88E-06	1.00E-01	3.88E-05	0.37
1,1,2-Trichloroethane	0.0007	18150	8.00E-02	0.25	360	30	0.001	70	30	365	2.40E-06	2.00E+00	1.74E-05	0.02
1,1,2-Trichloroethane	0.0084	18150	8.20E-03	0.25	360	30	0.001	70	30	365	3.75E-06	6.00E-01	4.89E-05	0.48
1,1,2-Trichloroethane	0.0047	18150	1.50E-03	0.25	360	30	0.001	70	30	365	4.38E-07	2.00E-04	1.48E-03	14.83
1,1,2-Trichloroethane	0.1288	18150	1.50E-03	0.25	360	30	0.001	70	30	365	1.39E-05	7.00E-02	1.82E-04	1.81
1,1,2-Trichloroethane	0.0006	18150	1.50E-03	0.25	360	30	0.001	70	30	365	6.99E-08	6.00E-02	1.12E-05	0.11
1,1,2-Trichloroethane	0.0487	18150	2.00E-03	0.25	360	30	0.001	70	30	365	8.81E-06	6.00E-02	1.16E-03	11.55
1,1,2-Trichloroethane	0.0453	18150	1.50E-03	0.25	360	30	0.001	70	30	365	4.22E-06	6.00E-02	8.45E-04	8.41
1,1,2-Trichloroethane	0.0001	18150	1.50E-03	0.25	360	30	0.001	70	30	365	9.32E-09	3.00E-04	3.11E-05	0.31
1,1,2-Trichloroethane	0.0104	18150	1.50E-03	0.25	360	30	0.001	70	30	365	9.70E-07	2.00E-02	4.85E-05	0.48
1,1,2-Trichloroethane	0.0807	18150	1.50E-03	0.25	360	30	0.001	70	30	365	5.66E-05	7.00E-02	8.08E-04	8.04
1,1,2-Trichloroethane	0.0471	18150	1.50E-03	0.25	360	30	0.001	70	30	365	4.38E-06	2.00E-01	1.48E-05	0.15
TOTAL													1.00E-02	100.00

CLEJ-01272-3.13-08/20/93

GROUNDWATER DERMAL CONTACT ASSESSMENT
 SITE 8 AND 9 WORKER
 REMEDIAL INVESTIGATION C TO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Dermal Contact from groundwater is evaluated as follows:

$$Intake (mg/kg-day) = CW * SA * PC * ET * EF * ED * CF/BW * ATc \text{ or } ATn * DT$$

Risk = Intake * CSF or PTD

Where:	INPUTS
CW = contaminant concentration in water (mg/l)	18150
SA = worker skin surface available for contact (cm ²)	See table
PC = contaminant specific dermal permeability (cm/hr)	See table
ET = worker exposure time (hours/day)	0.25
EF = worker exposure frequency (days/yr)	365
ED = worker exposure duration (years)	35
CF = volumetric conversion factor for water (liters/1000 cm ³)	0.001
BW = worker body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATn = averaging time for noncarcinogen (yr)	35
DT = days per year (days)	365

Note: Inputs are site and scenario specific

Contaminant	Concentration Carcinogen (mg/l)	Surface Area (cm ²) Adult	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adult	Exposure Frequency (days/yr) Adult	Exposure Duration (years) Adult	Volumetric Conversion (L/m ³)	Body Weight (kg) Adult	Averaging Core Time (years)	Days per Year (days)	Dose (mg/kg-day) Adult	Reference Dose (mg/kg-day)-1	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
1,1-Dichloroethene	0.0006	18150	8.90E-03	0.25	365	25	0.001	70	70	365	5.82E-08	6.20E-02	2.42E-09	0.15
1,2-Dichloroethene	0.0006	18150	8.30E-03	0.25	365	25	0.001	70	70	365	5.04E-08	9.10E-02	4.53E-09	0.20
1,1-Dichloroethane	0.0006	18150	1.40E-02	0.25	365	25	0.001	70	70	365	1.52E-07	6.00E-01	9.13E-08	3.84
1,1,2,2-Tetrachloroethane	0.0017	18150	9.00E-03	0.25	365	25	0.001	70	70	365	2.42E-07	2.00E-01	4.86E-08	2.09
1,2-Trichloroethane	0.0006	18150	8.40E-03	0.25	365	25	0.001	70	70	365	6.84E-08	6.70E-02	3.90E-09	0.16
Trichloroethene	0.014	18150	2.00E-01	0.25	365	25	0.001	70	70	365	4.44E-06	1.10E-02	4.98E-07	21.04
Tetrachloroethene	0.0021	18150	4.00E-01	0.25	365	25	0.001	70	70	365	1.33E-05	5.20E-02	6.93E-07	29.87
Vinyl Chloride	0.0018	18150	7.30E-03	0.25	365	25	0.001	70	70	365	1.85E-07	1.90E+00	3.52E-07	15.18
Xylenes	0.00487	18150	1.50E-03	0.25	365	25	0.001	70	70	365	1.11E-07	1.75E+00	1.84E-07	8.38
Benzylum	0.0043	18150	1.50E-03	0.25	365	25	0.001	70	70	365	1.02E-07	4.30E+00	4.40E-07	18.97
TOTAL													2.77E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Surface Area (cm ²) Adult	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adult	Exposure Frequency (days/yr) Adult	Exposure Duration (years) Adult	Volumetric Conversion (L/m ³)	Body Weight (kg) Adult	Average Noncancer Time (years)	Days per Year (days)	Noncancer Dose (mg/kg-day) Adult	Reference Dose (mg/kg-day)	Noncancer Risk Adult	Percent Noncarcinogenic Risk Adult
1,1-Dichloroethene	0.0006	18150	8.90E-03	0.25	365	25	0.001	70	25	365	1.55E-07	3.00E-02	7.73E-06	0.11
1,2-Dichloroethene	0.0021	18150	4.10E-02	0.25	365	25	0.001	70	25	365	3.82E-06	3.00E-02	1.81E-04	2.88
1,1-Dichloroethane	0.0006	18150	1.40E-02	0.25	365	25	0.001	70	25	365	4.24E-07	9.00E-03	4.74E-05	0.66
1,1,2,2-Tetrachloroethane	0.0051	18150	1.00E-02	0.25	365	25	0.001	70	25	365	2.24E-06	3.00E-02	1.13E-04	1.58
1,2-Trichloroethane	0.0017	18150	9.00E-03	0.25	365	25	0.001	70	25	365	6.78E-07	2.00E-01	3.40E-06	0.05
Trichloroethene	0.0021	18150	3.70E-01	0.25	365	25	0.001	70	25	365	3.45E-05	1.00E-02	3.45E-03	48.06
1,2-Trichloroethane	0.0005	18150	8.40E-03	0.25	365	25	0.001	70	25	365	1.86E-07	4.00E-03	4.66E-05	0.65
1,1,2,2-Tetrachloroethane	0.0008	18150	7.40E-02	0.25	365	25	0.001	70	25	365	2.82E-06	1.00E-01	2.82E-05	0.37
1,1-Dichloroethane	0.0007	18150	8.00E-02	0.25	365	25	0.001	70	25	365	2.49E-06	2.00E+00	1.24E-06	0.02
1,1-Dichloroethane	0.0054	18150	8.30E-02	0.25	365	25	0.001	70	25	365	1.97E-05	6.00E-01	3.28E-05	0.46
1,1-Dichloroethane	0.0047	18150	1.50E-03	0.25	365	25	0.001	70	25	365	3.13E-07	3.00E-04	1.04E-03	14.53
1,1-Dichloroethane	0.1768	18150	1.50E-03	0.25	365	25	0.001	70	25	365	8.11E-06	7.00E-02	1.30E-04	1.81
1,1-Dichloroethane	0.0008	18150	1.50E-03	0.25	365	25	0.001	70	25	365	4.00E-08	5.00E-03	7.99E-06	0.11
1,1-Dichloroethane	0.0487	18150	2.00E-03	0.25	365	25	0.001	70	25	365	4.18E-06	6.00E-03	6.93E-04	11.56
1,1-Dichloroethane	0.0483	18150	1.50E-03	0.25	365	25	0.001	70	25	365	3.02E-06	6.00E-03	5.03E-04	8.41
1,1-Dichloroethane	0.0001	18150	1.50E-03	0.25	365	25	0.001	70	25	365	6.88E-09	3.00E-04	2.22E-05	0.21
1,1-Dichloroethane	0.0104	18150	1.50E-03	0.25	365	25	0.001	70	25	365	6.83E-07	3.00E-02	3.45E-05	6.48
1,1-Dichloroethane	0.0607	18150	1.50E-03	0.25	365	25	0.001	70	25	365	4.04E-06	7.00E-03	5.77E-04	8.04
1,1-Dichloroethane	0.0471	18150	1.50E-03	0.25	365	25	0.001	70	25	365	3.14E-06	3.00E-01	1.06E-05	0.15
TOTAL													7.19E-02	100.00

Purpose: Estimate exposure/risk from ingestion of surface water

$$\text{Intake (mg/Kg-day)} = \frac{C \times IR \times ET \times EF \times ED}{BW \times AT_c \text{ or } AT_{nc}}$$

Where:

C = contaminant concentration in surface water (mg/l)

IR = ingestion rate (l/hour)

ET = exposure time (hour/event)

EF = exposure frequency (event/yr)

ED = exposure duration (yr)

BW = body weight (kg)

AT_c = averaging time carcinogen (yr)

AT_{nc} = averaging time noncarcinogen (yr)

Risk =

Carcinogen = Intake (mg/Kg-day) × CSF (mg/Kg-day)⁻¹

Noncarcinogen = Intake (mg/Kg-day) / RFD (mg/Kg-day)

Example Carcinogen: Vinyl Chloride

$$\begin{aligned} \text{Intake (mg/Kg-day)} &= \frac{0.006 \frac{\text{mg}}{\text{l}} \times 0.05 \frac{\text{l}}{\text{hr}} \times 2.6 \frac{\text{hr}}{\text{event}} \times 7 \frac{\text{event}}{\text{yr}} \times 30 \text{ yr}}{70 \text{ kg} \times 25,550 \text{ day}} \\ &= 9.16 \text{ E-08} \end{aligned}$$

S.O. No. CTO-0133 Camp Lejeune

CLEJ-01272-3.13-08/20/93

Subject: Surface Water Ingestion

Sheet No. 2 of 2

Drawing No. _____

Computed by MDB Checked By DES Date 3/20/93

$$\text{Risk} = 9.14 \text{ E-}08 \frac{\text{mg}}{\text{kg-day}} \times 1.9 \text{ E}0 \frac{\text{mg}}{\text{kg-day}} = 1.74 \text{ E-}07$$

Example Noncarcinogen: Tetrachloroethene

$$\text{Intake (mg/kg-day)} = \frac{0.004 \frac{\text{mg}}{\cancel{\text{L}}} \times 0.05 \frac{\cancel{\text{hr}}}{\text{hr}} \times 2.6 \frac{\cancel{\text{hr}}}{\cancel{\text{hr}}} \times 7 \frac{\cancel{\text{hr}}}{\cancel{\text{hr}}} \times 30 \frac{\cancel{\text{hr}}}{\cancel{\text{hr}}}}{70 \text{ kg} \times 10,950 \text{ days}}$$
$$= 1.42 \text{ E-}07$$

$$\text{Risk} = \frac{1.42 \text{ E-}07 \frac{\text{mg}}{\text{kg-day}}}{1.0 \text{ E-}02 \frac{\text{mg}}{\text{kg-day}}} = 1.42 \text{ E-}05$$

SURFACE WATER INGESTION EXPOSURE ASSESSMENT
SITE 8 ADOLESCENT WALLACE CREEK
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from the ingestion of surface water is calculated as follows:

$$\text{Intake (mg/kg-day)} = C_w \cdot CR \cdot ET \cdot EF \cdot ED / BW \cdot AT_c \text{ or } AT_{nc} \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUT
C _w = contaminant concentration in surface water (mg/l)	
CR = contact rate (L/hr/hour)	0.05
ET = adolescent exposure time (hours/event)	2.8
EF = adolescent exposure frequency (events/yr)	7
ED = adolescent exposure duration (yrs)	9
BW = adolescent body weight (kg)	45
AT _c = averaging time for carcinogen (yr)	70
AT _{nc} = averaging time for noncarcinogen (yr)	9
DY = days per year (days)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/l)	Contact Rate (l/hour)	Exposure Time (hrs/event)	Exposure Frequency (events/yr)	Exposure Duration (years)	Body Weight (kg)	Average Contact Time (years)	Days per Year (days)	Carcinogen Dose (mg/kg-day)	Cancer Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adolescent
Vinyl Chloride	0.008	0.05	2.8	7	9	45	70	365	4.27E-08	1.90E+00	8.12E-08	81.90
Arsenic	0.00144	0.05	2.8	7	9	45	70	365	1.03E-08	1.75E+00	1.80E-08	18.10
TOTAL											9.92E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Contact Rate (l/hour)	Exposure Time (hrs/event)	Exposure Frequency (events/yr)	Exposure Duration (years)	Body Weight (kg)	Average Contact Time (years)	Days per Year (days)	Noncarc Dose (mg/kg-day)	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
1,2-Dichloroethene	0.0111	0.05	2.8	7	9	45	9	365	6.15E-07	2.00E-02	3.07E-05	2.81
Tetrachloroethene	0.004	0.05	2.8	7	9	45	9	365	2.22E-07	1.00E-02	2.22E-06	2.02
Toluene	0.003	0.05	2.8	7	9	45	9	365	1.98E-07	2.00E-01	8.31E-07	0.08
Arsenic	0.00144	0.05	2.8	7	9	45	9	365	7.98E-08	3.00E-04	2.66E-04	24.27
Barium	0.01251	0.05	2.8	7	9	45	9	365	6.83E-07	7.00E-02	9.90E-08	0.90
Cadmium	0.00182	0.05	2.8	7	9	45	9	365	1.01E-07	9.00E-04	2.02E-04	18.40
Chromium	0.00239	0.05	2.8	7	9	45	9	365	1.32E-07	5.00E-03	2.65E-05	2.42
Manganese	0.01501	0.05	2.8	7	9	45	9	365	8.32E-07	5.00E-03	1.66E-04	15.18
Mercury	0.00014	0.05	2.8	7	9	45	9	365	7.78E-08	3.00E-04	2.59E-05	2.36
Nickel	0.04313	0.05	2.8	7	9	45	9	365	2.50E-04	2.00E-02	1.25E-04	11.41
Vanadium	0.0244	0.05	2.8	7	9	45	9	365	1.36E-04	7.00E-03	1.93E-04	17.82
Zinc	0.1499	0.05	2.8	7	9	45	9	365	8.30E-04	3.00E-01	2.77E-03	2.53
TOTAL											1.10E-03	100.00

FILE NAME: SWI.WQ2

CLEJ-01272-3.13-08/20/93

SURFACE WATER INGESTION EXPOSURE ASSESSMENT
 SITE 6 ADULT WALLACE CREEK
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from the ingestion of surface water is calculated as follows:

$$\text{Intake (mg/kg-day)} = C_w \cdot CR \cdot ET \cdot EF \cdot ED / BW \cdot AT_c \text{ or } AT_{nc} \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUT
C _w = contaminant concentration in surface water (mg/l)	
CR = contact rate (L/hr/hour)	0.05
ET = adult exposure time (hours/event)	2.6
EF = adult exposure frequency (events/yr)	7
ED = adult exposure duration (yr)	30
BW = adult body weight (kg)	70
AT _c = averaging time for carcinogen (yr)	70
AT _{nc} = averaging time for noncarcinogen (yr)	30
DY = days per year (days)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific.

Contaminant	Concentration Carcinogen (mg/l)	Contact Rate (l/hour)	Exposure Time (hrs/event) Adult	Exposure Frequency (events/yr) Adult	Exposure Duration (years) Adult	Body Weight (kg) Adult	Average Care Time (years)	Days per Year (days)	Care Dose (mg/kg-day) Adult	Cancer Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Vinyl Chloride	0.008	0.05	2.6	7	30	70	70	365	9.10E-08	1.90E+00	1.74E-07	81.80
Arsenic	0.00144	0.05	2.6	7	30	70	70	365	2.20E-08	1.73E+00	3.85E-08	18.10
TOTAL											2.12E-07	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Contact Rate (l/hour)	Exposure Time (hrs/event) Adult	Exposure Frequency (events/yr) Adult	Exposure Duration (years) Adult	Body Weight (kg) Adult	Average Noncare (years)	Days per Year (days)	Noncare Dose (mg/kg-day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
1,1,2-Trichloroethene	0.0111	0.05	2.6	7	30	70	30	365	3.95E-07	2.00E-02	1.98E-05	3.43
Tetrachloroethene	0.004	0.05	2.6	7	30	70	30	365	1.42E-07	1.00E-02	1.42E-05	2.47
Toluene	0.003	0.05	2.6	7	30	70	30	365	1.07E-07	2.00E-01	5.34E-07	0.09
Arsenic	0.00144	0.05	2.6	7	30	70	30	365	5.13E-08	3.00E-04	1.71E-04	29.65
Berium	0.01291	0.05	2.6	7	30	70	30	365	4.48E-07	7.00E-02	6.37E-06	1.10
Cadmium	0.00182	0.05	2.6	7	30	70	30	365	6.49E-08	5.00E-04	1.30E-04	22.48
Chromium	0.00298	0.05	2.6	7	30	70	30	365	8.81E-08	5.00E-03	1.70E-05	2.95
Manganese	0.01501	0.05	2.6	7	30	70	30	365	5.35E-07	5.00E-03	1.07E-04	18.54
Mercury	0.00014	0.05	2.6	7	30	70	30	365	4.99E-08	3.00E-04	1.49E-05	2.88
Nickel	0.04513	0.05	2.6	7	30	70	30	365	1.61E-06	2.00E-02	8.04E-05	13.84
Selenium	0.00244	0.05	2.6	7	30	70	30	365	8.89E-08	7.00E-03	1.24E-05	2.13
Zinc	0.01499	0.05	2.6	7	30	70	30	365	5.34E-07	3.00E-01	1.78E-04	0.31
TOTAL											5.77E-04	100.00

FILE NAME: SW1.WQ1

CLEJ-01272-3.13-08/20/93

SURFACE WATER INGESTION EVALUATION ASSESSMENT
SITE 6 ADOLESCENT BEAR HEAD CHECK
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from the ingestion of surface water is calculated as follows:

$$\text{Intake (mg/kg-day)} = C_w \cdot CR \cdot ET \cdot EF \cdot ED / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:

	INPUT
C_w = contaminant concentration in surface water (mg/l)	
CR = contact rate (L/hr/hour)	0.05
ET = adolescent exposure time (hours/event)	2.6
EF = adolescent exposure frequency (events/yr)	7
ED = adolescent exposure duration (yrs)	8
BW = adolescent body weight (kg)	45
ATc = averaging time for carcinogen (yr)	70
$ATnc$ = averaging time for noncarcinogen (yr)	8
DY = days per year (days)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RfD = reference dose (mg/kg-day)	specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/l)	Contact Rate (l/hour)	Exposure Time (hrs/event) Adolescent	Exposure Frequency (events/yr) Adolescent	Exposure Duration (years) Adolescent	Body Weight (kg) Adolescent	Average Carc Time (years)	Days per Year (days)	Carc Dose (mg/kg-day) Adolescent	Cancer Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adolescent
	0	0.05	2.6	7	8	45	70	365	0.00E+00	1.00E-05	0.00E+00	ERR
	0	0.05	2.6	7	8	45	70	365	0.00E+00	0.00E+00	0.00E+00	ERR
	0	0.05	2.6	7	8	45	70	365	0.00E+00	1.00E-05	0.00E+00	ERR
TOTAL											0.00E+00	ERR

Contaminant	Concentration Noncarcinogen (mg/l)	Contact Rate (l/hour)	Exposure Time (hrs/event) Adolescent	Exposure Frequency (events/yr) Adolescent	Exposure Duration (years) Adolescent	Body Weight (kg) Adolescent	Average Noncarc (years)	Days per Year (days)	Noncarc Dose (mg/kg-day) Adolescent	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
Barium	0.02608	0.05	2.6	7	8	45	8	365	1.45E-06	7.00E-02	2.06E-05	3.15
Chromium	0.00381	0.05	2.6	7	8	45	8	365	2.11E-07	5.00E-03	4.22E-05	10.52
Manganese	0.02314	0.05	2.6	7	8	45	8	365	1.28E-06	5.00E-03	2.56E-04	42.80
Mercury	0.00005	0.05	2.6	7	8	45	8	365	2.77E-06	3.00E-04	9.23E-06	2.30
Nickel	0.01804	0.05	2.6	7	8	45	8	365	1.02E-06	3.00E-02	3.06E-05	12.86
Vanadium	0.00255	0.05	2.6	7	8	45	8	365	1.41E-07	7.00E-03	1.02E-06	6.03
Zinc	0.00958	0.05	2.6	7	8	45	8	365	5.31E-07	3.00E-01	1.77E-06	0.44
TOTAL											4.01E-04	100.00

*FILE NAME: BWLW04

CLEJ-01272-3.13-08/20/93

SURFACE WATER INGESTION ASSESSMENT
SITE # ADULT BEAR HEAD CREEK
REMEDIAL INVESTIGATION CTO-0133
MOB CAMP LEJEUNE, NORTH CAROLINA

The intake from the ingestion of surface water is calculated as follows:

$$\text{Intake (mg/kg-day)} = Cw \cdot CR \cdot ET \cdot EF \cdot ED / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RID$$

Where:

Cw = contaminant concentration in surface water (mg/l)	INPUT
CR = contact rate (L/hr)	0.05
ET = adult exposure time (hours/event)	2.6
EF = adult exposure frequency (events/yr)	7
ED = adult exposure duration (yrs)	30
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
$ATnc$ = averaging time for noncarcinogen (yr)	30
DY = days per year (days)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	specific
RID = reference dose (mg/kg-day)	specific

Note: inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/l)	Contact Rate (l/hr)	Exposure Time (hrs/event) Adult	Exposure Frequency (events/yr) Adult	Exposure Duration (years) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per Year (days)	Carc Dose (mg/kg-day) Adult	Cancer Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
	0	0.05	2.6	7	30	70	70	365	0.00E+00	1.00E-05	0.00E+00	ERR
	0	0.05	2.6	7	30	70	70	365	0.00E+00	0.00E+00	0.00E+00	ERR
	0	0.05	2.6	7	30	70	70	365	0.00E+00	1.00E-05	0.00E+00	ERR
TOTAL											0.00E+00	ERR

Contaminant	Concentration Noncarcinogen (mg/l)	Contact Rate (l/hr)	Exposure Time (hrs/event) Adult	Exposure Frequency (events/yr) Adult	Exposure Duration (years) Adult	Body Weight (kg) Adult	Average Noncarc (years)	Days per Year (days)	Noncarc Dose (mg/kg-day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Barium	0.02608	0.05	2.6	7	30	70	30	365	6.29E-07	7.00E-02	1.33E-05	5.15
Chromium	0.00361	0.05	2.6	7	30	70	30	365	1.36E-07	5.00E-03	2.71E-05	10.32
Manganese	0.02314	0.05	2.6	7	30	70	30	365	9.24E-07	5.00E-03	1.85E-04	63.90
Mercury	0.00005	0.05	2.6	7	30	70	30	365	1.78E-08	3.00E-04	5.94E-06	2.30
Nickel	0.01834	0.05	2.6	7	30	70	30	365	6.33E-07	2.00E-02	3.27E-05	12.86
Vanadium	0.00255	0.05	2.6	7	30	70	30	365	9.08E-08	7.00E-03	1.30E-05	5.03
Zinc	0.00926	0.05	2.6	7	30	70	30	365	3.41E-07	3.00E-01	1.14E-06	0.44
TOTAL											2.58E-04	100.00

FILE NAME: SWLWQ3

CLEJ-01272-3.13-08/20/93

Purpose: Estimate exposure/risk from dermal contact with surface water

$$\text{Intake} \quad = \frac{C \times SA \times PC \times ET \times EF \times ED \times CF}{(\text{mg/kg-day}) \quad BW \times AT_c \text{ or } AT_{nc}}$$

Where:

C = contaminant concentration in surface water (mg/l)

SA = exposed surface area for contact (cm²).

PC = permeability constant (cm/hr)

ET = exposure time (hr/day)

EF = exposure frequency (day/yr)

ED = exposure duration (yr)

CF = conversion factor (l/cm³)

BW = body weight (kg)

AT_c = averaging time carcinogen (days)

AT_{nc} = averaging time noncarcinogen (days)

Risk =

$$\text{Carcinogen} = \text{Intake (mg/kg-day)} \times \text{CSF (mg/kg-day)}^{-1}$$

$$\text{Noncarcinogen} = \text{Intake (mg/kg-day)} / \text{RfD (mg/kg-day)}$$

Example Carcinogen: Vinyl Chloride

$$\text{Intake} \quad = \frac{0.006 \frac{\text{mg}}{\text{l}} \times 17500 \frac{\text{cm}^2}{\text{cm}^2} \times 7.3\text{E-}03 \frac{\text{cm}}{\text{hr}} \times 2.6 \frac{\text{hr}}{\text{day}} \times 7 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr} \times \frac{1 \text{ l}}{1000 \text{ cm}^3}}{70 \text{ kg} \times 25,550 \text{ days}}$$

$$= 2.24\text{E-}07$$

S.O. No. CTO-0133 Camp Lejeune

CLEJ-01272-3.13-08/20/93

Subject: Surface Water Dermal Contact



Sheet No. 2 of 2

Drawing No. _____

Computed by MDB

Checked By DCS

Date 3/20/93

$$\text{Risk} = 2.34 \text{E-}07 \frac{\text{mg}}{\text{Kg-day}} \times 1.9 \text{E}0 \frac{\text{mg}}{\text{Kg-day}}^{-1} = 4.5 \text{E-}07$$

Example Noncarcinogen: Tetrachloroethene

$$\begin{aligned} \text{Intake (mg/Kg-day)} &= \frac{0.004 \frac{\text{mg}}{\text{L}} \times 17,500 \text{ cm}^2 \times 3.7 \text{E-}01 \frac{\text{cm}}{\text{hr}} \times 2.6 \frac{\text{hr}}{\text{day}} \times 7 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr} \times \frac{1 \text{ L}}{1000}}{70 \text{ Kg} \times 10,950 \text{ days}} \\ &= 1.84 \text{E-}05 \frac{\text{mg}}{\text{Kg-day}} \end{aligned}$$

$$\begin{aligned} \text{Risk} &= \frac{1.84 \text{E-}05 \frac{\text{mg}}{\text{Kg-day}}}{1.0 \text{E-}02 \frac{\text{mg}}{\text{Kg-day}}} = 1.84 \text{E-}03 \end{aligned}$$

SURFACE WATER DERMAL CONTACT RISK ASSESSMENT
SITE 6 WALLACE CREEK - ADOLESCENT
MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from dermal contact with surface water is calculated as follows:

$$\text{Intake (mg/kg-day)} = Cw \cdot SA \cdot PC \cdot ET \cdot EF \cdot ED \cdot CF/BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUTS
CW = contaminant concentration in water (mg/l)	13800
SA = adolescent skin surface available for contact (cm ²)	Specific
PC = contaminant specific dermal permeability (cm/hr)	Specific
ET = adolescent exposure time (hours/day)	2.8
EF = adolescent exposure frequency (days/yr)	7
ED = adolescent exposure duration (years)	9
CF = volumetric conversion factor for water (1 liter/1000 cm ³)	0.001
BW = adolescent body weight (kg)	45
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	9
DY = days per year (days)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RfD = reference dose (mg/kg-day)	Specific

Note: Inputs are site and scenario specific

Contaminant	Concentration Carcinogen (mg/l)	Surface Area (cm ²) Adolescent	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adolescent	Exposure Frequency (days/yr) Adolescent	Exposure Duration (years) Adolescent	Volumetric Conversion (L/m ³)	Body Weight (kg) Adolescent	Averaging Care Time (years)	Days per Year (days)	Care Dose (mg/kg-day) Adolescent	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adolescent
Methyl Chloride	0.008	13800	7.3E-03	2.8	7	9	0.001	45	70	365	8.81E-08	1.30E+00	1.84E-07	95.98
Arsenic	0.00144	13800	1.8E-03	2.8	7	9	0.001	45	70	365	4.25E-09	1.75E+00	7.43E-08	4.34
TOTAL													1.71E-07	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Surface Area (cm ²) Adolescent	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adolescent	Exposure Frequency (days/yr) Adolescent	Exposure Duration (years) Adolescent	Volumetric Conversion (L/m ³)	Body Weight (kg) Adolescent	Average Noncare Time (years)	Days per Year (days)	Noncare Dose (mg/kg-day) Adolescent	Reference Dose (mg/kg-day)	Noncare Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
1,2-Dichloroethane	0.0111	13800	1.0E-02	2.8	7	9	0.001	45	9	365	1.70E-09	2.00E-02	8.49E-05	2.89
Tetrachloroethane	0.004	13800	3.7E-01	2.8	7	9	0.001	45	9	365	2.28E-05	1.00E-02	2.28E-03	79.42
Folene	0.003	13800	1.0E+00	2.8	7	9	0.001	45	9	365	4.59E-05	2.00E-01	2.29E-04	8.05
Arsenic	0.00144	13800	1.8E-03	2.8	7	9	0.001	45	9	365	3.30E-08	3.00E-04	1.10E-04	3.86
Barium	0.01251	13800	1.5E-03	2.8	7	9	0.001	45	9	365	2.87E-07	7.00E-02	4.10E-06	0.14
Cadmium	0.00182	13800	1.0E-03	2.8	7	9	0.001	45	9	365	2.78E-08	5.00E-04	5.57E-05	1.95
Chromium	0.00239	13800	2.0E-03	2.8	7	9	0.001	45	9	365	7.31E-08	5.00E-03	1.46E-05	0.51
Manganese	0.01501	13800	1.5E-03	2.8	7	9	0.001	45	9	365	3.44E-07	5.00E-03	6.88E-05	2.42
Mercury	0.00914	13800	1.0E-03	2.8	7	9	0.001	45	9	365	2.14E-09	3.00E-04	7.14E-06	0.25
Nickel	0.04513	13800	1.0E-04	2.8	7	9	0.001	45	9	365	6.80E-08	2.00E-02	3.45E-06	0.12
Selenium	0.00244	13800	1.5E-03	2.8	7	9	0.001	45	9	365	5.80E-08	7.00E-03	8.00E-06	0.28
Thi	0.01499	13800	6.0E-04	2.8	7	9	0.001	45	9	365	1.38E-07	3.00E-01	4.58E-07	0.02
TOTAL													2.95E-03	100.00

FILE NAME: SWOC.WQ2

CLEJ-01272-3.13-08/20/93

SURFACE WATER DERMAL CONTACT EXPOSURE ASSESSMENT
SITE # WALLACE CREEK - ADULT
MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from dermal contact with surface water is calculated as follows:

$$\text{Intake (mg/kg-day)} = Cw \cdot SA \cdot PC \cdot ET \cdot EF \cdot ED \cdot CF/BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RID$$

Where:	INPUTS
CW = contaminant concentration in water (mg/l)	17500
SA = adult skin surface available for contact (cm ²)	Specific
PC = contaminant specific dermal permeability (cm/hr)	Specific
ET = adult exposure time (hours/day)	2.6
EF = adult exposure frequency (days/yr)	7
ED = adult exposure duration (years)	30
CF = volumetric conversion factor for water (1ltr/1000 cm ³)	0.001
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = days per year (days)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RID = reference dose (mg/kg-day)	Specific

Note: Inputs are site and scenario specific

Contaminant	Concentration Carcinogen (mg/l)	Surface Area (cm ²) Adult	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adult	Exposure Frequency (days/yr) Adult	Exposure Duration (years) Adult	Volumetric Conversion (L/m ³)	Body Weight (kg) Adult	Averaging Care Time (years)	Days per Year (days)	Carc Dose (mg/kg-day) Adult	Slope Factor (mg/kg-day) ⁻¹	Carcinogens Risk Adult	Percent Carcinogenic Risk Adult
Vinyl Chloride	0.006	17500	7.3E-03	2.6	7	30	0.001	70	70	365	2.34E-07	1.90E+00	4.45E-07	95.66
Arsenic	0.00144	17500	1.5E-03	2.6	7	30	0.001	70	70	365	1.15E-08	1.75E+00	2.02E-08	4.34
TOTAL													4.65E-07	100.00

Contaminant	Concentration Noncarcinogen (mg/l)	Surface Area (cm ²) Adult	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adult	Exposure Frequency (days/yr) Adult	Exposure Duration (years) Adult	Volumetric Conversion (L/m ³)	Body Weight (kg) Adult	Average Noncare Time (years)	Days per Year (days)	Noncarc Dose (mg/kg-day) Adult	Reference Dose (mg/kg-day)	Noncarc Risk Adult	Percent Noncarcinogenic Risk Adult
1,2-Dichloroethene	0.0111	17500	1.0E-02	2.6	7	30	0.001	70	30	365	1.36E-08	2.00E-02	6.82E-05	2.88
Tetrachloroethene	0.004	17500	2.7E-01	2.6	7	30	0.001	70	30	365	1.84E-05	1.00E-02	1.84E-03	78.42
Toluene	0.003	17500	1.0E+00	2.6	7	30	0.001	70	30	365	3.74E-05	2.00E-01	1.87E-04	8.05
Arsenic	0.00144	17500	1.5E-03	2.6	7	30	0.001	70	30	365	2.69E-08	2.00E-04	6.89E-05	3.88
Berium	0.01251	17500	1.5E-03	2.6	7	30	0.001	70	30	365	2.34E-07	7.00E-02	3.34E-06	0.14
Cadmium	0.00182	17500	1.0E-03	2.6	7	30	0.001	70	30	365	2.27E-06	5.00E-04	4.54E-05	1.83
Chromium	0.00238	17500	2.0E-03	2.6	7	30	0.001	70	30	365	5.96E-06	5.00E-03	1.19E-05	0.51
Manganese	0.01301	17500	1.5E-03	2.6	7	30	0.001	70	30	365	2.81E-07	5.00E-03	5.61E-05	2.42
Mercury	0.00014	17500	1.0E-03	2.6	7	30	0.001	70	30	365	1.75E-08	3.00E-04	5.82E-06	0.25
Nickel	0.04513	17500	1.0E-04	2.6	7	30	0.001	70	30	365	5.63E-06	2.00E-02	2.81E-06	0.12
Vanadium	0.00244	17500	1.5E-03	2.6	7	30	0.001	70	30	365	4.56E-06	7.00E-03	6.52E-06	0.28
Zinc	0.01489	17500	8.0E-04	2.6	7	30	0.001	70	30	365	1.12E-07	3.00E-01	3.74E-07	0.02
TOTAL													2.32E-03	100.00

FILE NAME: SWDC.WQ1

CLEJ-01272-3.13-08/20/93

SURFACE WATER DERMAL CONTACT E
 SITE # BEARHEAD CREEK - ADOLESCENT
 MCB CAMP LEJUNE, NORTH CAROLINA

ASSESSMENT

The intake from dermal contact with surface water is calculated as follows:

$$\text{Intake (mg/kg-day)} = C_A \cdot S_A \cdot PC \cdot ET \cdot EF \cdot ED \cdot CF/BW \cdot ATo \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:

INPUTS	
C _A = contaminant concentration in water (mg/l)	
S _A = adolescent skin surface available for contact (cm ²)	12800
PC = contaminant specific dermal permeability (cm/hr)	Specific
ET = adolescent exposure time (hours/day)	2.6
EF = adolescent exposure frequency (days/yr)	7
ED = adolescent exposure duration (years)	9
CF = volumetric conversion factor for water (liter/1000 cm ³)	0.001
BW = adolescent body weight (kg)	45
AT _o = averaging time for carcinogen (yr)	70
AT _{nc} = averaging time for noncarcinogen (yr)	9
DY = days per year (days)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RfD = reference dose (mg/kg-day)	Specific

Note: Inputs are site and scenario specific

Contaminant	Concentration Carcinogen (mg/l)	Surface Area (cm ²) Adolescent	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adolescent	Exposure Frequency (days/yr) Adolescent	Exposure Duration (years) Adolescent	Volumetric Conversion (L/m ³)	Body Weight (kg) Adolescent	Averaging Care Time (years)	Days per Year (days)	Carcinogen Dose (mg/kg-day) Adolescent	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adolescent
	0	12800	0.0E+00	2.6	7	9	0.001	45	70	365	0.00E+00	0.00E+00	0.00E+00	ERR
	0	12800	0.0E+00	2.6	7	9	0.001	45	70	365	0.00E+00	0.00E+00	0.00E+00	ERR
TOTAL													0.00E+00	ERR

Contaminant	Concentration Noncarcinogen (mg/l)	Surface Area (cm ²) Adolescent	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adolescent	Exposure Frequency (days/yr) Adolescent	Exposure Duration (years) Adolescent	Volumetric Conversion (L/m ³)	Body Weight (kg) Adolescent	Average Noncancer Time (years)	Days per Year (days)	Noncancer Dose (mg/kg-day) Adolescent	Reference Dose (mg/kg-day)	Noncancer Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
Aluminum	0.02608	12800	1.5E-03	2.6	7	9	0.001	45	9	365	5.98E-07	7.00E-02	8.55E-06	5.48
Iron	0.00381	12800	2.0E-03	2.6	7	9	0.001	45	9	365	1.17E-07	6.00E-03	2.33E-06	15.47
Manganese	0.02314	12800	1.5E-03	2.6	7	9	0.001	45	9	365	5.31E-07	6.00E-03	1.08E-06	70.48
Mercury	5E-05	12800	1.0E-03	2.6	7	9	0.001	45	9	365	7.66E-10	3.00E-04	2.55E-06	1.69
Lead	0.01834	12800	1.0E-04	2.6	7	9	0.001	45	9	365	3.80E-08	2.00E-02	1.40E-06	0.93
Vanadium	0.00252	12800	1.5E-03	2.6	7	9	0.001	45	9	365	5.85E-08	7.00E-03	8.36E-06	5.55
Yttrium	0.00658	12800	2.0E-04	2.6	7	9	0.001	45	9	365	8.79E-08	2.00E-01	2.97E-07	0.19
TOTAL													1.51E-04	100.00

CLEJ-01272-3.13-08/20/93

SURFACE WATER DERMAL CONTACT ASSESSMENT
 SITE 6 BEAR HEAD CREEK - ADULT
 MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from dermal contact with surface water is calculated as follows:

$$Intake (mg/kg-day) = C_w \cdot SA \cdot PC \cdot ET \cdot EF \cdot ED \cdot CF/BW \cdot ATo \text{ or } ATnc \cdot DY$$

$$Risk = Intake \cdot CSF \text{ or } RfD$$

Where:	INPUTS
CW = contaminant concentration in water (mg/l)	
SA = adult skin surface available for contact (cm ²)	17500
PC = contaminant specific dermal permeability (cm/hr)	Specific
ET = adult exposure time (hours/day)	2.6
EF = adult exposure frequency (days/yr)	7
ED = adult exposure duration (years)	30
CF = volumetric conversion factor for water (1 liter/1000 cm ³)	0.001
BW = adult body weight (kg)	70
ATo = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = days per year (days)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RfD = reference dose (mg/kg-day)	Specific

Note: Inputs are site and scenario specific

Contaminant	Concentration Carcinogen (mg/l)	Surface Area (cm ²) Adolescent	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adolescent	Exposure Frequency (days/yr) Adolescent	Exposure Duration (years) Adolescent	Volumetric Conversion (L/m ³)	Body Weight (kg) Adolescent	Averaging Time (years)	Days per Year (days)	Carcinogenic Dose (mg/kg-day) Adolescent	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adolescent
	0	17500	0.0E+00	2.6	7	30	0.001	70	70	365	0.00E+00	0.00E+00	0.00E+00	0%
	0	17500	0.0E+00	2.6	7	30	0.001	70	70	365	0.00E+00	0.00E+00	0.00E+00	0%
TOTAL													0.00E+00	0%

Contaminant	Concentration Noncarcinogen (mg/l)	Surface Area (cm ²) Adolescent	Dermal Permeability (cm/hr)	Exposure Time (hours/day) Adolescent	Exposure Frequency (days/yr) Adolescent	Exposure Duration (years) Adolescent	Volumetric Conversion (L/m ³)	Body Weight (kg) Adolescent	Average Noncarc Time (years)	Days per Year (days)	Noncarc Dose (mg/kg-day) Adolescent	Reference Dose (mg/kg-day)	Noncarc Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
Barium	0.02406	17500	1.5E-03	2.6	7	30	0.001	70	30	365	4.88E-07	7.50E-02	6.51E-06	8.68
Bromine	0.00381	17500	3.0E-03	2.6	7	30	0.001	70	30	365	8.60E-08	6.00E-03	1.40E-06	16.47
Chromium	0.02314	17500	1.5E-03	2.6	7	30	0.001	70	30	365	4.33E-07	6.00E-03	8.85E-06	70.48
Mercury	6E-06	17500	1.0E-03	2.6	7	30	0.001	70	30	365	6.23E-10	3.00E-04	2.08E-06	1.69
Acetel	0.01834	17500	1.0E-04	2.6	7	30	0.001	70	30	365	2.28E-08	2.00E-03	1.14E-06	0.83
Vanadium	0.00265	17500	1.5E-03	2.6	7	30	0.001	70	30	365	4.77E-08	7.00E-03	6.81E-06	6.55
Iron	0.00958	17500	6.0E-04	2.6	7	30	0.001	70	30	365	7.17E-08	3.00E-01	2.39E-07	0.18
TOTAL													1.23E-04	100.00

Purpose: Estimate exposure/risk from ingestion of sediment

$$\text{Intake} = \frac{C \times IR \times CF \times EF \times ED}{Bw \times AT_c \text{ or } AT_{nc}}$$

(mg/Kg-day)

Where:

C = contaminant concentration in sediment (mg/Kg)

IR = sediment ingestion rate (mg/day)

CF = conversion factor (Kg/mg)

EF = exposure frequency (day/yr)

ED = exposure duration (yr)

Bw = body weight (Kg)

AT_c = averaging time for carcinogens (days)

AT_{nc} = averaging time for noncarcinogens (days)

Risk =

Carcinogen = Intake (mg/Kg-day) × CSF (mg/Kg-day)⁻¹

Noncarcinogen = Intake (mg/Kg-day) / RfD (mg/Kg-day)

Example Carcinogen: 4,4'-DDE

$$\text{Intake (mg/Kg-day)} = \frac{0.0195 \frac{\text{mg}}{\text{kg}} \times 50 \frac{\text{mg}}{\text{day}} \times 1.0 \times 10^{-6} \frac{\text{kg}}{\text{mg}} \times 7 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr}}{70 \text{ kg} \times 25,550 \text{ days}}$$

$$= 1.14 \text{ E-10}$$

S.O. No. CTO-φ 133 Camp Lejeune

Subject: Sediment Ingestion



Sheet No. 2 of 2

Drawing No. _____

Computed by MOB Checked By JCS

Date 3/20/93

$$\text{Risk} = 1.14 \text{ E-}10 \frac{\text{mg}}{\text{kg-day}} \times 3.4 \text{ E-}01 \frac{\text{mg}}{\text{kg-day}}^{-1} = 3.9 \text{ E-}11$$

Example Noncarcinogen: 4.4'-DDT

$$\begin{aligned} \text{Intake (mg/kg-day)} &= \frac{0.0229 \frac{\text{mg}}{\text{kg}} \times 50 \frac{\text{mg}}{\text{day}} \times 1.0 \text{ E-}6 \frac{\text{kg}}{\text{mg}} \times 7 \frac{\text{day}}{\text{yr}} \times 30 \text{ yr}}{70 \text{ kg} \times 10,950 \text{ days}} \\ &= 3.14 \text{ E-}10 \end{aligned}$$

$$\text{Risk} = \frac{3.14 \text{ E-}10 \frac{\text{mg}}{\text{kg-day}}}{5.0 \text{ E-}04 \frac{\text{mg}}{\text{kg-day}}} = 6.3 \text{ E-}07$$

SEDIMENT INGESTION EXPOSURE ASSESSMENT
 SITE 6 WALLACE CREEK - ADOLESCENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of sediment is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot IR \cdot CF \cdot EF \cdot ED / BW \cdot ATC \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for adolescent (days/yr)	7
ED = exposure duration for adolescent (yr)	9
IR = soil ingestion rate for adolescent (mg/day)	50
BW = body weight for adolescent (kg)	45
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	9
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RfD = reference dose (mg/kg-day)	Specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Adolescent	Exposure Duration (yr) Adolescent	Ingestion Rate (mg/day) Adolescent	Conversion Factor (kg/mg)	Body Weight (kg) Adolescent	Average Care Time (years)	Days per year (days/yr)	Care Dose (mg/kg/day) Adolescent	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk	
											Risk Adolescent	Percent Risk Adolescent
Children	0.0048	7	9	50	1E-06	45	70	365	1.22E-11	1.80E+01	2.10E-10	0.41
1,4'-DDO	0.0300	7	9	50	1E-06	45	70	365	6.47E-11	2.40E-01	2.03E-11	0.04
1,4'-DDE	0.0195	7	9	50	1E-06	45	70	365	5.34E-11	3.40E-01	1.82E-11	0.04
1,4'-DDT	0.0229	7	9	50	1E-06	45	70	365	6.27E-11	3.40E-01	2.13E-11	0.04
Aroclor 1260	0.3037	7	9	50	1E-06	45	70	365	6.32E-10	7.70E+00	6.41E-09	12.47
Benzo(a)anthracene	0.21	7	9	50	1E-06	45	70	365	5.75E-10	7.30E+00	4.20E-09	8.18
Chrysene	0.23	7	9	50	1E-06	45	70	365	6.30E-10	7.30E+00	4.60E-09	8.94
Benzo(b)fluoranthene	0.42	7	9	50	1E-06	45	70	365	1.15E-09	7.30E+00	8.40E-09	16.35
Benzo(a)pyrene	0.606	7	9	50	1E-06	45	70	365	1.67E-09	7.30E+00	1.22E-08	23.67
Arsenic	2.46	7	9	50	1E-06	45	70	365	6.74E-09	1.75E+00	1.18E-08	22.98
Beryllium	0.3	7	9	50	1E-06	45	70	365	9.22E-10	4.30E+00	3.52E-09	6.88
TOTAL											5.14E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Adolescent	Exposure Duration (yr) Adolescent	Ingestion Rate (mg/day) Adolescent	Conversion Factor (kg/mg)	Body Weight (kg) Adolescent	Average Noncare Time (years)	Days per year (days/yr)	Noncare Dose (mg/kg/day) Adolescent	Reference Dose (mg/kg/day)	Noncarcinogenic Risk	
											Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
Children	0.0048	7	9	50	1E-06	45	9	365	1.02E-10	5.00E-03	2.05E-08	0.48
1,4'-DDT	0.0229	7	9	50	1E-06	45	9	365	4.98E-10	5.00E-04	9.79E-07	0.23
1,1,2-Dichloroethene	0.001	7	9	50	1E-06	45	9	365	6.81E-10	2.00E-02	3.30E-08	0.01
Toluene	0.005	7	9	50	1E-06	45	9	365	1.07E-10	2.00E-01	5.33E-10	0.00
Total Xylenes	0.0816	7	9	50	1E-06	45	9	365	1.74E-09	2.00E+00	8.69E-10	0.00
Fluoranthene	0.461	7	9	50	1E-06	45	9	365	9.82E-09	4.00E-02	2.46E-07	0.06
Pyrene	0.4368	7	9	50	1E-06	45	9	365	9.73E-09	3.00E-02	3.24E-07	0.08
TOTAL PCBs	0.3037	7	9	50	1E-06	45	9	365	6.47E-09	7E-05	9.25E-06	21.54
Arsenic	2.46	7	9	50	1E-06	45	9	365	5.24E-09	3.00E-04	1.75E-04	40.71
Barium	17.63	7	9	50	1E-06	45	9	365	3.76E-07	7.00E-02	5.37E-06	1.23
Beryllium	0.3	7	9	50	1E-06	45	9	365	6.39E-09	5.00E-03	1.28E-06	0.30
Chromium	0.97	7	9	50	1E-06	45	9	365	1.49E-07	5.00E-03	2.97E-05	6.82
Manganese	17.66	7	9	50	1E-06	45	9	365	3.76E-07	5.00E-03	7.53E-05	17.54
Nickel	3.34	7	9	50	1E-06	45	9	365	7.12E-09	2.00E-02	3.94E-06	0.83
Vanadium	12.82	7	9	50	1E-06	45	9	365	2.73E-07	7.00E-03	3.90E-05	9.09
Zinc	58.93	7	9	50	1E-06	45	9	365	1.28E-06	3.00E-01	4.19E-06	0.99
TOTAL											4.25E-04	100.00

CLEJ-01272-3.13-08/20/93

SEDIMENT INGESTION EXPOSURE ASSESSMENT
 SITE 8 WALLACE CREEK - ADULT
 REMEDIAL INVESTIGATION CTO-0130
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of sediment is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot IR \cdot CF \cdot EF \cdot ED / BW \cdot ATC \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:

- C = contaminant concentration in soil (mg/kg)
- CF = conversion for kg to mg
- EF = exposure frequency for adults (days/yr)
- ED = exposure duration for adults (yr)
- IR = soil ingestion rate for adults (mg/day)
- BW = body weight for adult (kg)
- ATc = averaging time for carcinogen (yr)
- ATnc = averaging time for noncarcinogen (yr)
- DY = days per year (days/year)
- CSF = cancer slope factor (mg/kg-day)⁻¹
- RfD = reference dose (mg/kg-day)

INPUTS

- 1E-06
- 7
- 30
- 50
- 70
- 70
- 30
- 365
- Specific
- Specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Ingestion Rate (mg/day) Adult	Conversion Factor (kg/mg)	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Benzene	0.0048	7	30	50	1E-06	70	70	365	2.82E-11	1.60E+01	4.51E-10	0.41
1,4'-DDO	0.0308	7	30	50	1E-06	70	70	365	1.81E-10	3.40E-01	4.35E-11	0.04
1,4'-DDE	0.0180	7	30	50	1E-06	70	70	365	1.14E-10	3.40E-01	3.88E-11	0.04
1,4'-DDT	0.0228	7	30	50	1E-06	70	70	365	1.34E-10	3.40E-01	4.57E-11	0.04
Acroclor 1280	0.3037	7	30	50	1E-06	70	70	365	1.78E-09	7.70E+00	1.37E-08	12.47
benzo(a)anthracene	0.21	7	30	50	1E-06	70	70	365	1.23E-09	7.30E+00	9.00E-09	8.18
Benzene	0.23	7	30	50	1E-06	70	70	365	1.35E-09	7.30E+00	9.86E-09	8.98
benzo(b)fluoranthene	0.42	7	30	50	1E-06	70	70	365	2.47E-09	7.30E+00	1.80E-08	16.25
benzo(e)pyrene	0.808	7	30	50	1E-06	70	70	365	3.57E-09	7.30E+00	2.61E-08	23.67
Benzo(k)fluoranthene	2.48	7	30	50	1E-06	70	70	365	1.44E-08	1.75E+00	2.53E-08	22.86
Beryllium	0.3	7	30	50	1E-06	70	70	365	1.78E-09	4.30E+00	7.57E-09	6.88
TOTAL											1.10E-07	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Ingestion Rate (mg/day) Adult	Conversion Factor (kg/mg)	Body Weight (kg) Adult	Average Noncarc Time (years)	Days per year (days/yr)	Noncarc Dose (mg/kg/day) Adult	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Benzene	0.0048	7	30	50	1E-06	70	30	365	8.58E-11	5.00E-05	1.72E-08	0.48
1,4'-DDT	0.0228	7	30	50	1E-06	70	30	365	3.14E-10	5.00E-04	6.27E-07	0.23
1,2-Dichloroethane	0.031	7	30	50	1E-06	70	30	365	4.25E-10	2.00E-02	2.12E-08	0.01
toluene	0.005	7	30	50	1E-06	70	30	365	8.85E-11	2.00E-01	3.42E-10	0.00
o-tol Xylenes	0.0818	7	30	50	1E-06	70	30	365	1.12E-09	2.00E+00	5.58E-10	0.00
fluoranthene	0.461	7	30	50	1E-06	70	30	365	6.32E-09	4.00E-02	1.58E-07	0.06
styrene	0.4588	7	30	50	1E-06	70	30	365	6.28E-09	3.00E-02	2.08E-07	0.08
OTAL PCBS	0.3037	7	30	50	1E-06	70	30	365	4.18E-09	7E-05	5.84E-05	21.54
benzene	2.48	7	30	50	1E-06	70	30	365	3.37E-08	3.00E-04	1.12E-04	40.71
barium	17.85	7	30	50	1E-06	70	30	365	2.42E-07	7.00E-02	3.45E-06	1.23
beryllium	0.3	7	30	50	1E-06	70	30	365	4.11E-09	5.00E-03	9.22E-07	0.30
chromium	6.97	7	30	50	1E-06	70	30	365	9.55E-08	5.00E-03	1.91E-05	6.92
cadmium	17.86	7	30	50	1E-06	70	30	365	2.42E-07	5.00E-03	4.84E-05	17.54
copper	3.34	7	30	50	1E-06	70	30	365	4.58E-08	2.00E-02	2.29E-06	0.83
nickel	12.82	7	30	50	1E-06	70	30	365	1.78E-07	7.00E-03	2.51E-05	9.09
zinc	58.93	7	30	50	1E-06	70	30	365	8.07E-07	3.00E-01	2.68E-06	0.98
TOTAL											2.76E-04	100.00

SEDIMENT INGESTION EXPOSURE ASSESSMENT
 SITE # BEAR HEAD CREEK - ADOLESCENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of sediment is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot IR \cdot CF \cdot EF \cdot ED / BW \cdot ATC \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:

- C = contaminant concentration in soil (mg/kg)
- CF = conversion for kg to mg
- EF = exposure frequency for adolescent (days/yr)
- ED = exposure duration for adolescent (yr)
- IR = soil ingestion rate for adolescent (mg/day)
- BW = body weight for adolescent (kg)
- ATc = averaging time for carcinogen (yr)
- ATnc = averaging time for noncarcinogen (yr)
- DY = days per year (days/year)
- CSF = cancer slope factor (mg/kg-day)⁻¹
- RfD = reference dose (mg/kg-day)

INPUTS

- 1E-06
- 7
- 9
- 50
- 45
- 70
- 9
- 365
- Specific
- Specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Adolescent	Exposure Duration (yr) Adolescent	Ingestion Rate (mg/day) Adolescent	Conversion Factor (kg/mg)	Body Weight (kg) Adolescent	Average Core Time (years)	Days per year (days/yr)	Carc Dose (mg/kg/day) Adolescent	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adolescent
1,4'-DDD	0.0294	7	9	50	1E-06	45	70	365	8.02E-11	2.40E-01	1.93E-11	0.07
1,4'-DDE	0.0345	7	9	50	1E-06	45	70	365	9.45E-11	3.40E-01	3.21E-11	0.12
1,4'-DDT	0.0135	7	9	50	1E-06	45	70	365	3.70E-11	3.40E-01	1.26E-11	0.05
Aroclor 1260	0.1506	7	9	50	1E-06	45	70	365	4.13E-10	7.70E+00	3.18E-08	12.12
Benzene	0.005	7	9	50	1E-06	45	70	365	1.37E-11	2.90E-02	3.97E-13	0.00
Benz(a)fluoranthene	0.096	7	9	50	1E-06	45	70	365	2.63E-10	7.30E+00	1.92E-08	7.33
Benz(a)pyrene	0.3285	7	9	50	1E-06	45	70	365	1.45E-08	7.30E+00	1.06E-08	40.34
Chronic	1.3	7	9	50	1E-06	45	70	365	3.54E-08	1.75E+00	6.23E-08	23.78
Beryllium	0.26	7	9	50	1E-06	45	70	365	9.98E-10	4.30E+00	4.24E-08	16.18
TOTAL											2.82E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Adolescent	Exposure Duration (yr) Adolescent	Ingestion Rate (mg/day) Adolescent	Conversion Factor (kg/mg)	Body Weight (kg) Adolescent	Average Noncancer Time (years)	Days per year (days/yr)	Noncancer Dose (mg/kg/day) Adolescent	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
1,4'-DDT	0.0135	7	9	50	1E-06	45	9	365	2.89E-10	5.00E-04	5.75E-07	0.16
Tetrachloroethene	0.0522	7	9	50	1E-06	45	9	365	1.11E-08	1.00E-02	1.11E-07	0.03
Ethylbenzene	0.0544	7	9	50	1E-06	45	9	365	1.16E-08	1.00E-01	1.16E-08	0.00
Tolal Xylenes	0.0711	7	9	50	1E-06	45	9	365	1.52E-08	2.00E+00	7.58E-10	0.00
Pyrene	0.076	7	9	50	1E-06	45	9	365	1.62E-08	3.00E-02	5.40E-08	0.02
TOTAL PCBs	0.1906	7	9	50	1E-06	45	9	365	9.31E-09	7E-05	4.56E-05	12.77
Arsenic	1.3	7	9	50	1E-06	45	9	365	2.77E-08	3.00E-04	9.23E-05	25.72
Barium	23.4	7	9	50	1E-06	45	9	365	4.99E-07	7.00E-02	7.12E-06	1.98
Beryllium	0.26	7	9	50	1E-06	45	9	365	7.47E-08	5.00E-03	1.53E-06	0.43
Cadmium	1.31	7	9	50	1E-06	45	9	365	2.79E-08	5.00E-04	5.58E-05	15.55
Chromium	8.86	7	9	50	1E-06	45	9	365	1.83E-07	5.00E-03	3.69E-05	10.29
Manganese	17.15	7	9	50	1E-06	45	9	365	3.85E-07	5.00E-03	7.31E-05	20.35
Nickelium	14.15	7	9	50	1E-06	45	9	365	3.02E-07	7.00E-03	4.22E-05	12.03
Zinc	34.88	7	9	50	1E-06	45	9	365	7.39E-07	3.00E-01	2.46E-06	0.69
TOTAL											3.58E-04	100.00

FILE NAME: SDI.W04

CLEJ-01272-3.13-08/20/93

SEDIMENT INGESTION EXPOSURE ASSESSMENT
 SITE # BEAR HEAD CREEK - ADULT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake from ingestion of sediment is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot IR \cdot CF \cdot EF \cdot ED / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion for kg to mg	1E-06
EF = exposure frequency for adult (days/yr)	7
ED = exposure duration for adult (yr)	30
IR = soil ingestion rate for adult (mg/day)	50
BW = body weight for adult (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = days per year (days/year)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RID = reference dose (mg/kg-day)	Specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Ingestion Rate (mg/day) Adult	Conversion Factor (kg/mg)	Body Weight (kg) Adult	Average Care Time (years)	Days per year (days/yr)	Care Dose (mg/kg/day) Adult	Slope Factor (mg/kg/day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adult
1,4'-DDD	0.0294	7	30	50	1E-06	70	70	365	1.73E-10	2.40E-01	4.14E-11	0.07
1,4'-DDE	0.0345	7	30	50	1E-06	70	70	365	2.03E-10	3.40E-01	6.89E-11	0.12
1,4'-DDT	0.0125	7	30	50	1E-06	70	70	365	7.93E-11	3.40E-01	2.69E-11	0.05
Aroclor 1260	0.1506	7	30	50	1E-06	70	70	365	9.84E-10	7.70E+00	6.91E-09	12.12
benzene	0.003	7	30	50	1E-06	70	70	365	2.84E-11	2.90E-02	8.51E-13	0.00
benzo(b)fluoranthene	0.096	7	30	50	1E-06	70	70	365	5.64E-10	7.30E+00	4.11E-09	7.33
benzo(e)pyrene	0.9285	7	30	50	1E-06	70	70	365	3.10E-09	7.30E+00	2.27E-08	40.34
arsenic	1.3	7	30	50	1E-06	70	70	365	7.63E-09	1.75E+00	1.34E-08	23.78
barium	0.38	7	30	50	1E-06	70	70	365	2.11E-08	4.30E+00	9.09E-09	16.18
TOTAL											3.62E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Exposure Frequency (days/yr) Adult	Exposure Duration (yr) Adult	Ingestion Rate (mg/day) Adult	Conversion Factor (kg/mg)	Body Weight (kg) Adult	Average Noncare Time (years)	Days per year (days/yr)	Noncare Dose (mg/kg/day) Adult	Reference Dose (mg/kg/day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
1,4'-DDT	0.0125	7	30	50	1E-06	70	30	365	1.83E-10	3.00E-04	3.70E-07	0.18
1,1-dichloroethene	0.0522	7	30	50	1E-06	70	30	365	7.19E-10	1.00E-02	7.19E-08	0.03
1,2-dichlorobenzene	0.0544	7	30	50	1E-06	70	30	365	7.45E-10	1.00E-01	7.45E-09	0.00
total Xylenes	0.0711	7	30	50	1E-06	70	30	365	9.74E-10	2.00E+00	4.87E-10	0.00
toluene	0.076	7	30	50	1E-06	70	30	365	1.04E-09	3.00E-02	3.47E-09	0.02
TOTAL PCBs	0.1506	7	30	50	1E-06	70	30	365	2.66E-09	7E-03	2.85E-09	12.77
arsenic	1.3	7	30	50	1E-06	70	30	365	1.78E-08	3.00E-04	5.94E-05	25.72
barium	23.4	7	30	50	1E-06	70	30	365	3.21E-07	7.00E-02	4.56E-06	1.98
barium	0.38	7	30	50	1E-06	70	30	365	4.93E-08	3.00E-03	9.86E-07	0.43
barium	1.31	7	30	50	1E-06	70	30	365	1.78E-08	3.00E-04	3.59E-05	15.55
chromium	9.88	7	30	50	1E-06	70	30	365	1.19E-07	5.00E-03	2.37E-05	10.28
chromium	17.13	7	30	50	1E-06	70	30	365	2.35E-07	3.00E-03	4.70E-05	20.33
chromium	14.18	7	30	50	1E-06	70	30	365	1.94E-07	7.00E-03	2.78E-05	12.03
chromium	34.66	7	30	50	1E-06	70	30	365	4.75E-07	3.00E-01	1.58E-04	0.89
TOTAL											2.31E-04	100.00

FILE NAME: BDIWQ3

CLEJ-01272-3.13-08/20/93

S.O. No. CTO-0133 Camp LejeuneSubject: Sediment Dermal Contact

Baker

Sheet No. 1 of 2

Drawing No. _____

Computed by MDB Checked By _____ Date 3/20/93

Purpose: Estimate exposure/risk from dermal contact with sediment.

$$\text{Intake (mg/kg-day)} = \frac{C \times CF \times SA \times AF \times Abs \times EF \times ED}{BW \times AT_c \times AT_{nc}}$$

Where:

C = contaminant concentration in sediment (mg/kg)

CF = conversion factor (kg/mg)

SA = surface available for contact (cm²/event)AF = sediment to skin adherence factor (mg/cm²)

Abs = fraction absorbed (no units)

EF = exposure frequency (event/yr)

ED = exposure duration (yr)

BW = body weight (kg)

AT_c = averaging time carcinogen (days)AT_{nc} = averaging time noncarcinogen (days)

Risk:

$$\text{Carcinogen} = \text{Intake (mg/kg-day)} \times \text{CSF (mg/kg-day)}^{-1}$$

$$\text{Noncarcinogen} = \text{Intake (mg/kg-day)} / \text{RfD (mg/kg-day)}$$

Example Carcinogen: 4,4'-DDE

$$\text{Intake (mg/kg-day)} = \frac{0.0195 \frac{\text{mg}}{\text{kg}} \times 1.0 \times 10^{-6} \frac{\text{kg}}{\text{mg}} \times 3700 \frac{\text{cm}^2}{\text{ft}^2} \times 1 \times 1 \frac{\text{mg}}{\text{cm}^2} \times 7 \frac{\text{event}}{\text{yr}} \times 30 \text{ yr}}{70 \text{ kg} \times 25,550 \text{ day}}$$

S.O. No. CTO-0133 Camp Lejeune
Subject: Sediment Dermal Contact

CLEJ-01272-3.13-08/20/93

Sheet No. 2 of 2

Drawing No. _____

Computed by MDB Checked By _____ Date 3/20/93

$$= 8.5 E-09$$

$$\text{Risk} = 8.5 E-09 \frac{\text{mg}}{\text{Kg-day}} \times 3.4 E-01 \frac{\text{mg}}{\text{Kg-day}}^{-1} = 2.9 E-09$$

Example Noncarcinogen: 4,4'-DDT

$$\text{Intake (mg/Kg-day)} = \frac{0.0229 \frac{\text{mg}}{\text{kg}} \times 1.0 E-6 \frac{\text{kg}}{\text{mg}} \times 3700 \frac{\text{cm}^2}{\text{cm}^2} \times 1 \times 1 \frac{\text{mg}}{\text{cm}^2} \times 7 \frac{\text{cm}^2}{\text{yr}} \times 30 \text{ yr}}{70 \text{ Kg} \times 10,950 \text{ days}}$$

$$= 2.3 E-08$$

$$\text{Risk} = \frac{2.3 E-08 \frac{\text{mg}}{\text{Kg-day}}}{5.0 E-04 \frac{\text{mg}}{\text{Kg-day}}} = 4.6 E-05$$

SEDIMENT DERMAL CONTACT ASSESSMENT
 SITE # WALLACE CREEK - ADDITIONAL
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from dermal contact to sediment is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot SA \cdot AF \cdot Abs \cdot EF \cdot ED / BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RfD$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1.00E-06
SA = adolescent exposed skin surface area (cm ²)	3700
AF = sediment to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unitless) (contaminant specific)	100
EF = adolescent exposure frequency (events/yr)	7
ED = adolescent exposure duration (years)	9
BW = adolescent body weight (kg)	45
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	9
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RfD = reference dose (mg/kg-day)	Specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adolescent	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adolescent	Exposure Duration (yrs) Adolescent	Body Weight (kg) Adolescent	Average Care Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Adolescent	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adolescent
Children	0.0048	1E-06	3700	1	1	7	9	45	70	365	9.73E-10	1.80E+01	1.76E-08	0.41
1,4'-DDO	0.0308	1E-06	3700	1	1	7	9	45	70	365	8.28E-09	2.40E-01	1.50E-09	0.04
1,4'-DDE	0.0196	1E-06	3700	1	1	7	9	45	70	365	3.95E-09	3.40E-01	1.34E-09	0.04
1,4'-DDT	0.0229	1E-06	3700	1	1	7	9	45	70	365	4.84E-09	3.40E-01	1.58E-09	0.04
Aroclor 1280	0.3037	1E-06	3700	1	1	7	9	45	70	365	6.16E-08	7.70E+00	4.74E-07	12.47
Benzo(a)anthracene	0.21	1E-06	3700	1	1	7	9	45	70	365	4.28E-08	7.30E+00	3.11E-07	8.17
Chrysene	0.23	1E-06	3700	1	1	7	9	45	70	365	4.66E-08	7.30E+00	3.40E-07	8.85
Benzo(b)fluoranthene	0.42	1E-06	3700	1	1	7	9	45	70	365	8.32E-08	7.30E+00	6.22E-07	16.35
Benzo(a)pyrene	0.8088	1E-06	3700	1	1	7	9	45	70	365	1.23E-07	7.30E+00	9.01E-07	23.70
Arsenic	2.46	1E-06	3700	1	1	7	9	45	70	365	4.99E-07	1.73E+00	8.73E-07	22.83
Beryllium	0.3	1E-06	3700	1	1	7	9	45	70	365	8.08E-08	4.30E+00	2.82E-07	6.88
TOTAL													3.90E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adolescent	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adolescent	Exposure Duration (yrs) Adolescent	Body Weight (kg) Adolescent	Average Noncare Time (years)	Days per year (day/year)	Noncare Dose (mg/kg/day) Adolescent	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
Children	0.0048	1E-06	3700	1	1	7	9	45	9	365	7.57E-09	5.00E-05	1.51E-04	0.48
1,4'-DDT	0.0229	1E-06	3700	1	1	7	9	45	9	365	3.61E-09	5.00E-04	7.22E-05	0.23
1,1,2-Dichloroethane	0.031	1E-06	3700	1	1	7	9	45	9	365	4.89E-09	2.00E-02	2.44E-06	0.01
Falucene	0.005	1E-06	3700	1	1	7	9	45	9	365	7.88E-09	2.00E-01	3.94E-08	0.00
Total Xylenes	0.0818	1E-06	3700	1	1	7	9	45	9	365	1.29E-07	2.00E+00	6.43E-08	0.00
Fluoranthene	0.4617	1E-06	3700	1	1	7	9	45	9	365	7.26E-07	4.00E-02	1.82E-05	0.06
Pyrene	0.4568	1E-06	3700	1	1	7	9	45	9	365	7.20E-07	3.00E-02	2.40E-05	0.06
TOTAL PCB	0.3037	1E-06	3700	1	1	7	9	45	9	365	4.79E-07	7E-03	6.84E-03	21.54
Arsenic	2.46	1E-06	3700	1	1	7	9	45	9	365	3.88E-06	3.00E-04	1.29E-02	40.71
Barium	17.65	1E-06	3700	1	1	7	9	45	9	365	2.78E-05	7.00E-02	3.98E-04	1.25
Beryllium	0.3	1E-06	3700	1	1	7	9	45	9	365	4.73E-07	5.00E-03	9.46E-05	0.30
Chromium	6.97	1E-06	3700	1	1	7	9	45	9	365	1.10E-05	5.00E-03	2.20E-03	6.92
Cadmium	17.66	1E-06	3700	1	1	7	9	45	9	365	2.78E-05	5.00E-03	5.57E-03	17.34
Nickel	3.34	1E-06	3700	1	1	7	9	45	9	365	5.27E-06	2.00E-02	2.83E-04	0.83
Vanadium	12.62	1E-06	3700	1	1	7	9	45	9	365	2.02E-05	7.00E-03	2.89E-03	9.08
Zinc	58.93	1E-06	3700	1	1	7	9	45	9	365	9.29E-05	3.00E-01	3.10E-04	0.86
TOTAL													3.18E-02	100.00

FILE NAME: 8DDC.WQ2

CLEJ-01272-3.13-08/20/93

SEDIMENT DERMAL CONTACT ASSESSMENT
 SITE # WALLACE CREEK - ADULT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from dermal contact to sediment is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * SA * AF * Abs * EF * ED/BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RMD$$

Where:

	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1.00E-06
SA = adult exposed skin surface area (cm ²)	3700
AF = sediment to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unless (contaminant specific))	100
EF = adult exposure frequency (events/yr)	7
ED = adult exposure duration (years)	30
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RMD = reference dose (mg/kg-day)	Specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
Children	0.0048	1E-06	3700	1	1	7	30	70	70	365	2.09E-09	1.80E+01	3.34E-08	0.91
4,4'-DDD	0.0209	1E-06	3700	1	1	7	30	70	70	365	1.34E-08	2.40E-01	3.22E-08	0.04
4,4'-DDE	0.0195	1E-06	3700	1	1	7	30	70	70	365	6.47E-08	3.40E-01	2.88E-08	0.04
4,4'-DDT	0.0229	1E-06	3700	1	1	7	30	70	70	365	8.95E-08	3.40E-01	3.38E-08	0.04
Aroclor 1280	0.3037	1E-06	3700	1	1	7	30	70	70	365	1.32E-07	7.70E+00	1.02E-06	12.47
Benzo(a)anthracene	0.21	1E-06	3700	1	1	7	30	70	70	365	9.12E-08	7.30E+00	6.68E-07	8.17
Chrysene	0.23	1E-06	3700	1	1	7	30	70	70	365	9.96E-08	7.30E+00	7.29E-07	8.95
Benzo(b)fluoranthene	0.42	1E-06	3700	1	1	7	30	70	70	365	1.82E-07	7.30E+00	1.33E-06	16.35
Benzo(a)pyrene	0.6088	1E-06	3700	1	1	7	30	70	70	365	2.84E-07	7.30E+00	1.83E-06	23.70
Arsenic	2.46	1E-06	3700	1	1	7	30	70	70	365	1.07E-06	1.75E+00	1.87E-06	23.93
Beryllium	0.3	1E-06	3700	1	1	7	30	70	70	365	1.30E-07	4.30E+00	5.60E-07	6.98
TOTAL													8.15E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Children	0.0048	1E-06	3700	1	1	7	30	70	30	365	4.87E-08	5.00E-05	9.73E-05	0.48
4,4'-DDT	0.0229	1E-06	3700	1	1	7	30	70	30	365	2.32E-08	5.00E-04	4.64E-05	0.23
1,1,2-Dichloroethane	0.031	1E-06	3700	1	1	7	30	70	30	365	3.14E-08	2.00E-02	1.57E-06	0.01
Toluene	0.005	1E-06	3700	1	1	7	30	70	30	365	5.07E-08	2.00E-01	2.53E-08	0.00
Total Xylenes	0.0816	1E-06	3700	1	1	7	30	70	30	365	8.27E-08	2.00E+00	4.14E-08	0.00
Fluoranthene	0.4617	1E-06	3700	1	1	7	30	70	30	365	4.89E-07	4.00E-02	1.17E-05	0.06
Pyrene	0.4568	1E-06	3700	1	1	7	30	70	30	365	4.63E-07	3.00E-02	1.54E-05	0.08
TOTAL PCBs	0.3037	1E-06	3700	1	1	7	30	70	30	365	3.08E-07	7E-05	4.40E-03	21.54
Arsenic	2.46	1E-06	3700	1	1	7	30	70	30	365	2.49E-06	3.00E-04	8.31E-03	40.71
Barium	17.65	1E-06	3700	1	1	7	30	70	30	365	1.79E-05	7.00E-02	2.58E-04	1.25
Beryllium	0.3	1E-06	3700	1	1	7	30	70	30	365	3.04E-07	5.00E-03	6.08E-05	0.30
Chromium	6.97	1E-06	3700	1	1	7	30	70	30	365	7.07E-06	5.00E-03	1.41E-03	6.92
Manganese	17.66	1E-06	3700	1	1	7	30	70	30	365	1.79E-05	5.00E-03	3.58E-03	17.54
Nickel	3.34	1E-06	3700	1	1	7	30	70	30	365	3.38E-06	2.00E-02	1.69E-04	0.83
Vanadium	12.82	1E-06	3700	1	1	7	30	70	30	365	1.30E-05	7.00E-03	1.98E-03	9.09
Zinc	58.93	1E-06	3700	1	1	7	30	70	30	365	5.97E-05	3.00E-01	1.99E-04	0.99
TOTAL													2.04E-02	100.00

FILE NAME: SDOC.WQ1

CLEJ-01272-3.13-08/20/93

SEDIMENT DERMAL CONTACT RISK ASSESSMENT
 SITE # BEAR HEAD CREEK - ADOLESCENT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from dermal contact to sediment is calculated as follows:

$$\text{Intake (mg/kg-day)} = C \cdot CF \cdot SA \cdot AF \cdot Abs \cdot EF \cdot ED/BW \cdot ATc \text{ or } ATnc \cdot DY$$

$$\text{Risk} = \text{Intake} \cdot CSF \text{ or } RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1.00E-08
SA = adolescent exposed skin surface area (cm ²)	3700
AF = sediment to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unitless) (contaminant specific)	100
EF = adolescent exposure frequency (events/yr)	7
ED = adolescent exposure duration (years)	9
BW = adolescent body weight (kg)	45
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	9
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RID = reference dose (mg/kg-day)	Specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adolescent	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adolescent	Exposure Duration (yrs) Adolescent	Body Weight (kg) Adolescent	Average Care Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Adolescent	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adolescent	Percent Carcinogenic Risk Adolescent
1,4-DDU	0.0294	1E-08	3700	1	1	7	9	45	70	365	5.98E-09	2.40E-01	1.43E-09	0.07
1,4-DDE	0.0345	1E-08	3700	1	1	7	9	45	70	365	6.89E-09	3.40E-01	2.38E-09	0.12
1,4-DDT	0.0130	1E-08	3700	1	1	7	9	45	70	365	2.74E-09	3.40E-01	9.31E-10	0.05
Aroclor 1260	0.1508	1E-08	3700	1	1	7	9	45	70	365	3.05E-09	7.70E+00	2.35E-07	12.13
Benzene	0.005	1E-08	3700	1	1	7	9	45	70	365	1.01E-09	2.90E+02	2.94E-11	0.00
Benz(e)fluoranthene	0.098	1E-08	3700	1	1	7	9	45	70	365	1.95E-09	7.30E+00	1.42E-07	7.33
Benz(a)pyrene	0.528	1E-08	3700	1	1	7	9	45	70	365	1.07E-07	7.30E+00	7.81E-07	40.31
Arsenic	1.3	1E-08	3700	1	1	7	9	45	70	365	2.84E-07	1.75E+00	4.81E-07	23.79
Beryllium	0.38	1E-08	3700	1	1	7	9	45	70	365	7.30E-08	4.30E+00	3.14E-07	16.19
TOTAL													1.34E-08	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adolescent	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adolescent	Exposure Duration (yrs) Adolescent	Body Weight (kg) Adolescent	Average Noncare Time (years)	Days per year (day/year)	Noncare Dose (mg/kg/day) Adolescent	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adolescent	Percent Noncarcinogenic Risk Adolescent
1,4-DDT	0.0135	1E-08	3700	1	1	7	9	45	9	365	2.13E-08	5.00E-04	4.25E-05	0.16
Tetrachloroethene	0.003	1E-08	3700	1	1	7	9	45	9	365	4.73E-09	1.00E-02	4.73E-07	0.00
Ethylbenzene	0.0544	1E-08	3700	1	1	7	9	45	9	365	8.98E-09	1.00E-01	8.98E-07	0.00
Total Xylenes	0.0711	1E-08	3700	1	1	7	9	45	9	365	1.12E-07	2.00E+00	5.61E-09	0.00
Pyrene	0.078	1E-08	3700	1	1	7	9	45	9	365	1.20E-07	3.00E-02	3.99E-08	0.02
TOTAL PCBs	0.1508	1E-08	3700	1	1	7	9	45	9	365	2.37E-07	7E-05	3.39E-03	12.77
Arsenic	1.3	1E-08	3700	1	1	7	9	45	9	365	2.85E-08	3.00E-04	8.93E-03	29.72
Barium	23.4	1E-08	3700	1	1	7	9	45	9	365	3.89E-09	7.00E-02	5.27E-04	1.98
Beryllium	0.38	1E-08	3700	1	1	7	9	45	9	365	8.98E-07	3.00E-03	1.14E-04	0.43
Cadmium	1.31	1E-08	3700	1	1	7	9	45	9	365	3.07E-08	6.00E-04	4.13E-03	15.55
Chromium	8.68	1E-08	3700	1	1	7	9	45	9	365	1.37E-05	5.00E-03	2.73E-03	10.28
Manganese	17.10	1E-08	3700	1	1	7	9	45	9	365	2.70E-05	9.00E-03	5.41E-03	20.36
Vanadium	14.19	1E-08	3700	1	1	7	9	45	9	365	2.24E-05	7.00E-03	3.20E-03	12.03
Zinc	24.88	1E-08	3700	1	1	7	9	45	9	365	5.47E-05	3.00E-01	1.62E-04	0.69
TOTAL													2.66E-02	100.00

FILE NAME: SDDC.WG4

CLEJ-01272-3.13-08/20/93

SEDIMENT DERMAL CONTACT ASSESSMENT
 SITE # BEAR HEAD CREEK - ADULT
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

The intake from dermal contact to sediment is calculated as follows:

$$\text{Intake (mg/kg-day)} = C * CF * SA * AF * Abs * EF * ED / BW * ATc \text{ or } ATnc * DY$$

$$\text{Risk} = \text{Intake} * CSF \text{ or } RID$$

Where:	INPUTS
C = contaminant concentration in soil (mg/kg)	
CF = conversion factor (kg/mg)	1.00E-08
SA = adult exposed skin surface area (cm ²)	3700
AF = sediment to skin adherence factor (mg/cm ²)	1
Abs = fraction absorbed (unitless) (contaminant specific)	100
EF = adult exposure frequency (events/yr)	7
ED = adult exposure duration (years)	30
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (yr)	70
ATnc = averaging time for noncarcinogen (yr)	30
DY = day per year (day/yr)	365
CSF = cancer slope factor (mg/kg-day) ⁻¹	Specific
RID = reference dose (mg/kg-day)	Specific

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (day/year)	Carc Dose (mg/kg/day) Adult	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
1,4-DDO	0.0264	1E-08	3700	1	1	7	30	70	70	365	1.29E-08	2.40E-01	3.07E-09	0.07
1,4'-DDE	0.0345	1E-08	3700	1	1	7	30	70	70	365	1.50E-08	3.40E-01	5.10E-09	0.12
1,4'-DDT	0.0135	1E-08	3700	1	1	7	30	70	70	365	5.88E-09	3.40E-01	1.99E-09	0.05
Aroclor 1280	0.1506	1E-08	3700	1	1	7	30	70	70	365	8.54E-08	7.70E+00	5.04E-07	12.13
Benzene	0.005	1E-08	3700	1	1	7	30	70	70	365	2.17E-09	2.80E-02	6.30E-11	0.00
Benzo(b)fluoranthene	0.098	1E-08	3700	1	1	7	30	70	70	365	4.17E-08	7.30E+00	3.04E-07	7.33
Benzo(a)pyrene	0.528	1E-08	3700	1	1	7	30	70	70	365	2.29E-07	7.30E+00	1.67E-06	40.31
Arsenic	1.3	1E-08	3700	1	1	7	30	70	70	365	5.85E-07	1.75E+00	9.88E-07	23.79
Beryllium	0.36	1E-08	3700	1	1	7	30	70	70	365	1.58E-07	4.50E+00	6.70E-07	16.19
TOTAL													4.13E-06	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Conversion Factor (kg/mg)	Surface Area (cm ²) Adult	Adherence Factor (mg/cm ²)	Fraction Absorbed (%)	Exposure Frequency (events/yr) Adult	Exposure Duration (yrs) Adult	Body Weight (kg) Adult	Average Noncarc Time (years)	Days per year (day/year)	Noncarc Dose (mg/kg/day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
1,4'-DDT	0.0135	1E-08	3700	1	1	7	30	70	30	365	1.37E-08	5.00E-04	2.74E-05	0.16
Tetrachloroethene	0.003	1E-08	3700	1	1	7	30	70	30	365	3.04E-08	1.00E-02	3.04E-07	0.00
Ethylbenzene	0.0544	1E-08	3700	1	1	7	30	70	30	365	5.51E-08	1.00E-01	5.51E-07	0.00
o,tol Xylenes	0.0711	1E-08	3700	1	1	7	30	70	30	365	7.21E-08	2.00E+00	3.80E-08	0.00
Styrene	0.076	1E-08	3700	1	1	7	30	70	30	365	7.70E-08	3.00E-02	2.57E-08	0.02
TOTAL PCBs	0.1506	1E-08	3700	1	1	7	30	70	30	365	1.53E-07	7E-05	2.18E-03	12.77
Arsenic	1.3	1E-08	3700	1	1	7	30	70	30	365	1.32E-06	3.00E-04	4.38E-03	23.72
Berium	23.4	1E-08	3700	1	1	7	30	70	30	365	2.37E-05	7.00E-02	3.38E-04	1.98
Beryllium	0.36	1E-08	3700	1	1	7	30	70	30	365	3.65E-07	5.00E-03	7.30E-05	0.43
Cadmium	1.31	1E-08	3700	1	1	7	30	70	30	365	1.33E-06	5.00E-04	2.66E-03	15.55
Chromium	8.68	1E-08	3700	1	1	7	30	70	30	365	8.78E-06	5.00E-03	1.76E-03	10.28
Manganese	17.15	1E-08	3700	1	1	7	30	70	30	365	1.74E-05	5.00E-03	3.48E-03	20.36
Tantalum	14.19	1E-08	3700	1	1	7	30	70	30	365	1.44E-05	7.00E-03	2.05E-03	12.03
Van	34.88	1E-08	3700	1	1	7	30	70	30	365	3.51E-05	3.00E-01	1.17E-04	0.88
TOTAL													1.71E-02	100.00

CLEJ-01272-3.13-08/20/93

Purpose: Estimate exposure/risk from ingestion of fish

$$\text{Intake (mg/Kg-day)} = \frac{C \times IR \times Fi \times EF \times ED \times CF}{BW \times AT_c \text{ or } AT_{nc}}$$

Where:

C = contaminant concentration in fish (mg/Kg)

IR = ingestion rate (Kg/meal)

Fi = fraction ingested from contaminated source (unitless)^{10%}

EF = Exposure frequency (meals/yr)

ED = exposure duration (years)

BW = body weight (Kg)

AT_c = averaging time carcinogen (day)

AT_{nc} = averaging time noncarcinogen (day)

CF = conversion factor (L/1000cm³)

Risk

$$\text{Carcinogen} = \text{Intake (mg/Kg-day)} \times \text{CSF (mg/Kg-day)}^{-1}$$

$$\text{Noncarcinogen} = \text{Intake (mg/Kg-day)} / \text{RfD (mg/Kg-day)}$$

Example Carcinogen: PCB-1260

$$\text{Intake (mg/Kg-day)} = \frac{1.0 \text{ mg/kg} \times 0.284 \frac{\text{kg}}{\text{meal}} \times 1.0 \times 48 \frac{\text{meal}}{\text{yr}} \times 30 \text{ yr}}{70 \text{ kg} \times 25,550 \text{ days}}$$

S.O. No. CTO-φ133

CLEJ-01272-3.13-08/20/93

Subject: Fish Ingestion

Sheet No. 2 of 2

Drawing No. _____

Computed by MDB Checked By _____

Date 4/6/93

$$= 2.29E-04 \checkmark$$

$$\text{Risk} = 2.29E-04 \text{ mg/Kg-day} \times 7.7E+00 (\text{mg/Kg-day})^{-1} = 1.76E-03$$

Example Noncarcinogen: Endrin

$$\text{Intake (mg/Kg-day)} = \frac{0.0138 \frac{\text{mg}}{\text{kg}} \times 0.284 \frac{\text{kg}}{\text{meat}} \times 1.0 \times 48 \frac{\text{meat}}{\text{yr}} \times 30 \text{yr}}{70 \text{ kg} \times 10,950 \text{ days}}$$

$$70 \text{ kg} \times 10,950 \text{ days}$$

$$= 7.36E-06$$

$$\text{Risk (HI)} = \frac{7.36E-06 \text{ mg/Kg-day}}{3.00E-04 \text{ mg/Kg-day}} = 2.45E-02$$

FISH INGESTION EXPOSURE ASSESSMENT
 SITE # WALLACE AND BEAR HEAD CREEKS
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA

Intake (mg/kg-day) = CF * IR * FI * EF * ED / BW * ATc or ATnc * DY

Risk = Intake * CSF or /RID

Where:	INPUTS
CF = contaminant concentration in fish (mg/kg)	
IR = adult ingestion rate (kg/meal)	0.284
FI = fraction ingested from contaminated source (unitless)	100
EF = adult exposure frequency (meals/yr)	48
ED = adult exposure duration (years)	30
BW = adult body weight (kg)	70
ATc = averaging time for carcinogen (years)	70
ATnc = averaging time for noncarcinogen (years)	30
DY = days per year (days/yr)	365

Note: Inputs are scenario and site specific

Contaminant	Concentration Carcinogen (mg/kg)	Ingestion Rate (kg/meal) Adult	Fraction Ingestion (%)	Exposure Frequency (meals/yr) Adult	Exposure Duration (years) Adult	Body Weight (kg) Adult	Average Carc Time (years)	Days per year (days/yr)	Carc Dose (mg/kg-day) Adult	Slope Factor (mg/kg-day) ⁻¹	Carcinogenic Risk Adult	Percent Carcinogenic Risk Adult
4'-DDE	0.274	0.284	1	48	30	70	70	365	8.27E-05	3.40E-01	2.13E-05	1.18
4'-DDD	0.0431	0.284	1	48	30	70	70	365	9.86E-06	2.40E-01	2.37E-06	0.13
4'-DDT	0.0097	0.284	1	48	30	70	70	365	2.22E-06	3.40E-01	7.54E-07	0.04
PCB 1260	1	0.284	1	48	30	70	70	365	2.22E-04	7.70E+00	1.76E-03	98.47
Beryllium	0.003	0.284	1	48	30	70	70	365	6.86E-07	4.30E+00	2.85E-06	0.16
TOTAL											1.79E-03	100.00

Contaminant	Concentration Noncarcinogen (mg/kg)	Ingestion Rate (kg/meal) Adult	Fraction Ingestion (%)	Exposure Frequency (meals/yr) Adult	Exposure Duration (years) Adult	Body Weight (kg) Adult	Average Noncanc Time (years)	Days per year (days/yr)	Noncanc Dose (mg/kg-day) Adult	Reference Dose (mg/kg-day)	Noncarcinogenic Risk Adult	Percent Noncarcinogenic Risk Adult
Endrin	0.0138	0.284	1	48	30	70	30	365	7.36E-06	3.00E-04	2.45E-02	0.32
4'-DDT	0.0097	0.284	1	48	30	70	30	365	5.18E-06	5.00E-04	1.04E-02	0.13
TOTAL PCBs	1	0.284	1	48	30	70	30	365	5.34E-04	7E-05	7.62E+00	98.52
Beryllium	0.003	0.284	1	48	30	70	30	365	1.60E-06	5.00E-03	3.20E-04	0.00
Cadmium	0.028	0.284	1	48	30	70	30	365	1.49E-05	5.00E-04	2.99E-02	0.38
Zinc	27.88	0.284	1	48	30	70	30	365	1.49E-02	3.00E-01	4.96E-02	0.64
TOTAL											7.74E+00	100.00

CLEJ-01272-3.13-08/20/93

Appendix L
Data and Frequency Summary

L.1

Site 6, Lot 201 - Surface Soil, Organic and Inorganic

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO--0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB1-00	6-201A-SB10-00	6-201A-SB11-00	6-201A-SB12-00	6-201A-SB13-00	6-201A-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/27/92	8/28/92	8/28/92	8/26/92	8/26/92
Lab Id:	00452-01	00452-10	00452-12	00452-14	00446-01	00447-01

Parameter	Units	6-201A-SB1-00	6-201A-SB10-00	6-201A-SB11-00	6-201A-SB12-00	6-201A-SB13-00	6-201A-SB14-00
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
BETA-BHC	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
DELTA-BHC	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
GAMMA-BHC(LINDANE)	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
HEPTACHLOR	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
ALDRIN	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
HEPTACHLOR EPOXIDE	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
ENDOSULFAN I	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
DELDRIN	UG/KG	35 U	3.9 U	3.5 U	6.4 J	17 U	19 U
,4'-DDE	UG/KG	420 J	3.9 U	19	7.7	110 J	61
ENDRIN	UG/KG	35 U	3.9 U	3.5 U	3.4 U	17 U	19 U
ENDOSULFAN II	UG/KG	35 U	3.9 U	3.5 U	3.4 U	17 U	19 U
,4'-DDD	UG/KG	35 U	3.9 U	3.5 U	3.4 U	31	19 U
ENDOSULFAN SULFATE	UG/KG	35 U	3.9 U	3.5 U	3.4 U	17 U	19 U
,4'-DDT	UG/KG	330 J	3.9 UJ	25 J	22 J	240 J	62
METHOXYCHLOR	UG/KG	180 U	20 U	18 U	18 U	89 UJ	96 U
ENDRIN KETONE	UG/KG	35 U	3.9 U	3.5 U	3.4 U	17 U	19 U
ENDRIN ALDEHYDE	UG/KG	35 U	3.9 U	3.5 U	3.4 U	17 U	19 U
ALPHA CHLORDANE	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
GAMMA CHLORDANE	UG/KG	18 U	2 U	1.8 U	1.8 U	8.9 U	9.6 U
TOXAPHENE	UG/KG	1800 U	200 U	180 U	180 U	890 U	960 U
CB-1016	UG/KG					170 U	190 U
CB-1221	UG/KG					350 U	380 U
CB-1232	UG/KG					170 U	190 U
CB-1242	UG/KG					170 U	190 U
CB-1248	UG/KG					170 U	190 U
PCB-1254	UG/KG					170 U	190 U
PCB-1260	UG/KG					36 J	190 U

VOLATILES							
CHLOROMETHANE	UG/KG					10 U	
BROMOMETHANE	UG/KG					10 U	
VINYL CHLORIDE	UG/KG					10 U	
CHLOROETHANE	UG/KG					10 U	
METHYLENE CHLORIDE	UG/KG					10 U	
ACETONE	UG/KG					10 U	
CARBON DISULFIDE	UG/KG					10 U	
1,1-DICHLOROETHENE	UG/KG					10 U	
1,1-DICHLOROETHANE	UG/KG					10 U	
1,2-DICHLOROETHENE	UG/KG					10 U	
CHLOROFORM	UG/KG					10 U	
1,2-DICHLOROETHANE	UG/KG					10 U	
2-BUTANONE	UG/KG					10 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB1-00	6-201A-SB10-00	6-201A-SB11-00	6-201A-SB12-00	6-201A-SB13-00	6-201A-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/27/92	8/28/92	8/28/92	8/26/92	8/26/92
Lab Id:	00452-01	00452-10	00452-12	00452-14	00446-01	00447-01

Parameter	Units	
<u>VOLATILES Cont.</u>		
1,1-TRICHLOROETHANE	UG/KG	10 U
CARBON TETRACHLORIDE	UG/KG	10 UJ
BROMODICHLOROMETHANE	UG/KG	10 U
1,2-DICHLOROPROPANE	UG/KG	10 U
CIS-1,3-DICHLOROPROPENE	UG/KG	10 U
TRICHLOROETHENE	UG/KG	10 U
DIBROMOCHLOROMETHANE	UG/KG	10 U
1,1,2-TRICHLOROETHANE	UG/KG	10 U
BENZENE	UG/KG	10 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U
BROMOFORM	UG/KG	10 U
2-METHYL-2-PENTANONE	UG/KG	10 U
2-HEXANONE	UG/KG	10 U
TETRACHLOROETHENE	UG/KG	10 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U
TOLUENE	UG/KG	10 U
CHLOROBENZENE	UG/KG	10 U
ETHYLBENZENE	UG/KG	10 U
STYRENE	UG/KG	10 U
TOTAL XYLENES	UG/KG	10 U
<u>SEMIVOLATILES</u>		
PHENOL	UG/KG	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U
1-CHLOROPHENOL	UG/KG	350 U
1,3-DICHLOROBENZENE	UG/KG	350 U
1,4-DICHLOROBENZENE	UG/KG	38 J
1,2-DICHLOROBENZENE	UG/KG	350 U
2-METHYLPHENOL	UG/KG	350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U
4-METHYLPHENOL	UG/KG	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U
HEXACHLOROETHANE	UG/KG	350 U
NITROBENZENE	UG/KG	350 U
ISOPHORONE	UG/KG	350 U
2-NITROPHENOL	UG/KG	350 U
2,4-DIMETHYLPHENOL	UG/KG	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U
2,4-DICHLOROPHENOL	UG/KG	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U
NAPHTHALENE	UG/KG	350 U
4-CHLORANILINE	UG/KG	350 U
HEXACHLOROBUTADIENE	UG/KG	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB1-00	6-201A-SB10-00	6-201A-SB11-00	6-201A-SB12-00	6-201A-SB13-00	6-201A-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/27/92	8/28/92	8/28/92	8/26/92	8/26/92
Lab Id:	00452-01	00452-10	00452-12	00452-14	00446-01	00447-01

Parameter	Units	6-201A-SB1-00	6-201A-SB10-00	6-201A-SB11-00	6-201A-SB12-00	6-201A-SB13-00	6-201A-SB14-00
SEMIVOLATILES Cont.							
1-CHLORO-3-METHYLPHENOL						350 U	
1-METHYLNAPHTHALENE	UG/KG					350 U	
1,2,4,5,6-HEXACHLOROCYCLOPENTADIENE	UG/KG					350 U	
1,2,4,6-TRICHLOROPHENOL	UG/KG					350 U	
1,2,4,5-TRICHLOROPHENOL	UG/KG					850 U	
1-CHLORONAPHTHALENE	UG/KG					350 U	
1-NITROANILINE	UG/KG					850 U	
1,2-DIMETHYL PHTHALATE	UG/KG					350 U	
1,2,3-ACENAPHTHYLENE	UG/KG					350 U	
1,2,4,6-DINITROTOLUENE	UG/KG					350 U	
1-NITROANILINE	UG/KG					850 U	
1,2,3-ACENAPHTHENE	UG/KG					350 U	
1,4-DINITROPHENOL	UG/KG					850 U	
1-NITROPHENOL	UG/KG					850 U	
1,2,3-DIBENZOFURAN	UG/KG					350 U	
1,2,4-DINITROTOLUENE	UG/KG					350 U	
1,2-DIETHYL PHTHALATE	UG/KG					350 U	
1-CHLOROPHENYL PHENYL ETHER	UG/KG					350 U	
1-FLUORENE	UG/KG					350 U	
1-NITROANILINE	UG/KG					850 U	
1,6-DINITRO-2-METHYLPHENOL	UG/KG					850 U	
1,4-NITRISODIPHENYLAMINE	UG/KG					350 U	
1-BROMOPHENYL PHENYL ETHER	UG/KG					350 U	
1,2,4,5,6-HEXACHLOROBENZENE	UG/KG					350 U	
1,2,3,4-TETRACHLOROPHENOL	UG/KG					850 U	
1,2,3,4-THENANTHRENE	UG/KG					350 U	
1,2,3,4-ANTHRACENE	UG/KG					350 U	
1,2-DI-N-BUTYL PHTHALATE	UG/KG					350 U	
1-FLUORANTHENE	UG/KG					350 U	
1-CARBAZOLE	UG/KG					350 U	
1-PYRENE	UG/KG					350 U	
1-BUTYL BENZYL PHTHALATE	UG/KG					350 U	
1,3,3-DICHLOROBENZIDINE	UG/KG					350 U	
1-BENZO(A)ANTHRACENE	UG/KG					350 U	
1-CHRYSENE	UG/KG					350 U	
1-BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					350 U	
1,2-DI-N-OCTYL PHTHALATE	UG/KG					350 UJ	
1-BENZO(B)FLUORANTHENE	UG/KG					350 UJ	
1-BENZO(K)FLUORANTHENE	UG/KG					350 UJ	
1-BENZO(A)PYRENE	UG/KG					350 UJ	
1-INDENO(1,2,3-CD) PYRENE	UG/KG					350 UJ	
1-DIBENZ(A,H)ANTHRACENE	UG/KG					350 UJ	
1-BENZO(G,H,I)PERYLENE	UG/KG					350 UJ	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB15-00	6-201A-SB16-00	6-201A-SB17-00	6-201A-SB18-00	6-201A-SB19-00	6-201A-SB2-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/28/92
Lab Id:	00447-03	00447-03	00446-03	00447-07	00447-09	00452-03

Parameter	Units	6-201A-SB15-00	6-201A-SB16-00	6-201A-SB17-00	6-201A-SB18-00	6-201A-SB19-00	6-201A-SB2-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
BETA-BHC	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
DELTA-BHC	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
GAMMA-BHC(LINDANE)	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
HEPTACHLOR	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
ALDRIN	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
HEPTACHLOR EPOXIDE	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
ENDOSULFAN I	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
DIELDRIN	UG/KG	11 U	67 UJ	17000 U	34 U	34 U	40 U
4'-DDE	UG/KG	210	1400 J	17000 J	50	34 U	210
DRIN	UG/KG	11 U	67 UJ	17000 U	34 U	34 U	40 U
ENDOSULFAN II	UG/KG	11 U	67 UJ	17000 U	34 U	34 U	40 U
4'-DDD	UG/KG	11 U	2500 J	180000 J	34 U	34 U	40 U
ENDOSULFAN SULFATE	UG/KG	11 U	67 UJ	17000 U	34 U	34 U	40 U
4'-DDT	UG/KG	280	8100 J	1200000	180	120	99
METHOXYCHLOR	UG/KG	59 U	350 UJ	86000 U	170 U	170 U	200 U
DRIN KETONE	UG/KG	11 U	67 UJ	17000 U	34 U	34 U	40 U
DRIN ALDEHYDE	UG/KG	11 U	67 UJ	17000 U	34 U	34 U	40 U
ALPHA CHLORDANE	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
GAMMA CHLORDANE	UG/KG	5.9 U	35 UJ	8600 U	17 U	17 U	20 U
TOXAPHENE	UG/KG	590 U	3500 UJ	860000 U	1700 U	1700 U	2000 U
PCB-1016	UG/KG	110 U	670 UJ	170000 U	340 U	340 U	
PCB-1221	UG/KG	230 U	1400 UJ	340000 U	690 U	690 U	
PCB-1232	UG/KG	110 U	670 UJ	170000 U	340 U	340 U	
PCB-1242	UG/KG	110 U	670 UJ	170000 U	340 U	340 U	
PCB-1248	UG/KG	110 U	670 UJ	170000 U	340 U	340 U	
PCB-1254	UG/KG	110 U	670 UJ	170000 U	340 U	340 U	
PCB-1260	UG/KG	110 U	670 UJ	170000 U	340 U	340 U	

<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG			11 U			
BROMOMETHANE	UG/KG			11 U			
VINYL CHLORIDE	UG/KG			11 U			
CHLOROETHANE	UG/KG			11 U			
METHYLENE CHLORIDE	UG/KG			11 U			
ACETONE	UG/KG			11 U			
CARBON DISULFIDE	UG/KG			11 U			
1,1-DICHLOROETHENE	UG/KG			11 U			
1,1-DICHLOROETHANE	UG/KG			11 U			
1,2-DICHLOROETHENE	UG/KG			11 U			
CHLOROFORM	UG/KG			11 U			
1,2-DICHLOROETHANE	UG/KG			11 U			
2-BUTANONE	UG/KG			11 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB15-00	6-201A-SB16-00	6-201A-SB17-00	6-201A-SB18-00	6-201A-SB19-00	6-201A-SB2-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/28/92
Lab Id:	00447-03	00447-03	00446-03	00447-07	00447-09	00452-03

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-TRICHLOROETHANE	UG/KG			11 U		
CARBON TETRACHLORIDE	UG/KG			11 UJ		
BROMODICHLOROMETHANE	UG/KG			11 U		
1,2-DICHLOROPROPANE	UG/KG			11 U		
CIS-1,3-DICHLOROPROPENE	UG/KG			11 U		
TRICHLOROETHENE	UG/KG			11 U		
DIBROMOCHLOROMETHANE	UG/KG			11 U		
1,1,2-TRICHLOROETHANE	UG/KG			11 U		
BENZENE	UG/KG			11 U		
TRANS-1,3-DICHLOROPROPENE	UG/KG			11 U		
BROMOFORM	UG/KG			11 U		
2-METHYL-2-PENTANONE	UG/KG			11 U		
2-HEXANONE	UG/KG			11 U		
TETRACHLOROETHENE	UG/KG			11 U		
1,1,2,2-TETRACHLOROETHANE	UG/KG			11 U		
TOLUENE	UG/KG			11 U		
CHLOROBENZENE	UG/KG			11 U		
ETHYLBENZENE	UG/KG			11 U		
STYRENE	UG/KG			11 U		
TOTAL XYLENES	UG/KG			11 U		
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG			340 U		
BIS(2-CHLOROETHYL) ETHER	UG/KG			340 U		
1-CHLOROPHENOL	UG/KG			340 U		
1,3-DICHLOROBENZENE	UG/KG			340 U		
1,4-DICHLOROBENZENE	UG/KG			38 J		
1,2-DICHLOROBENZENE	UG/KG			340 U		
2-METHYLPHENOL	UG/KG			340 U		
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG			340 U		
4-METHYLPHENOL	UG/KG			340 U		
N-NITROSODI-N-PROPYLAMINE	UG/KG			340 U		
HEXACHLOROETHANE	UG/KG			340 U		
NITROBENZENE	UG/KG			340 U		
ISOPHORONE	UG/KG			340 U		
2-NITROPHENOL	UG/KG			340 U		
2,4-DIMETHYLPHENOL	UG/KG			340 U		
BIS(2-CHLOROETHOXY) METHANE	UG/KG			340 U		
2,4-DICHLOROPHENOL	UG/KG			340 U		
1,2,4-TRICHLOROBENZENE	UG/KG			340 U		
NAPHTHALENE	UG/KG			340 U		
4-CHLORANILINE	UG/KG			340 U		
HEXACHLOROBUTADIENE	UG/KG			340 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB15-00	6-201A-SB16-00	6-201A-SB17-00	6-201A-SB18-00	6-201A-SB19-00	6-201A-SB2-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/28/92
Lab Id:	00447-03	00447-05	00446-03	00447-07	00447-09	00452-03

Parameter	Units	
SEMIVOLATILES Cont.		
1-CHLORO-3-METHYLPHENOL		340 U
1-METHYLNAPHTHALENE	UG/KG	340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U
2,4,6-TRICHLOROPHENOL	UG/KG	340 U
2,4,5-TRICHLOROPHENOL	UG/KG	810 U
1-CHLORONAPHTHALENE	UG/KG	340 U
1-NITROANILINE	UG/KG	810 U
DIMETHYL PHTHALATE	UG/KG	340 U
ACENAPHTHYLENE	UG/KG	340 U
2,6-DINITROTOLUENE	UG/KG	340 U
1-NITROANILINE	UG/KG	810 U
ACENAPHTHENE	UG/KG	340 U
2,4-DINITROPHENOL	UG/KG	810 U
1-NITROPHENOL	UG/KG	810 U
DIBENZOFURAN	UG/KG	340 U
2,4-DINITROTOLUENE	UG/KG	340 U
DIETHYL PHTHALATE	UG/KG	340 U
1-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U
FLUORENE	UG/KG	340 U
1-NITROANILINE	UG/KG	810 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG	810 U
N-NITRISODIPHENYLAMINE	UG/KG	340 U
1-BROMOPHENYL PHENYL ETHER	UG/KG	340 U
HEXACHLOROBENZENE	UG/KG	340 U
2,3,4,5-TETRACHLOROPHENOL	UG/KG	810 U
1-PHENANTHRENE	UG/KG	340 U
ANTHRACENE	UG/KG	340 U
DI-N-BUTYL PHTHALATE	UG/KG	89 J
FLUORANTHENE	UG/KG	340 U
CARBAZOLE	UG/KG	340 U
PYRENE	UG/KG	340 UJ
BUTYL BENZYL PHTHALATE	UG/KG	340 UJ
3,3-DICHLOROBENZIDINE	UG/KG	340 UJ
BENZO(A)ANTHRACENE	UG/KG	340 UJ
CHRYSENE	UG/KG	340 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	340 UJ
DI-N-OCTYL PHTHALATE	UG/KG	340 UJ
BENZO(B)FLUORANTHENE	UG/KG	340 UJ
BENZO(K)FLUORANTHENE	UG/KG	340 UJ
BENZO(A)PYRENE	UG/KG	340 UJ
INDENO(1,2,3-CD) PYRENE	UG/KG	340 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	340 UJ
BENZO(G,H,I)PERYLENE	UG/KG	340 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB20-00	6-201A-SB21-00	6-201A-SB22-00	6-201A-SB23-00	6-201A-SB24-00	6-201A-SB25-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00447-12	00447-14	00447-16	00447-18	00447-20	00446-05

Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
BETA-BHC	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
DELTA-BHC	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
GAMMA-BHC(LINDANE)	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
HEPTACHLOR	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
ALDRIN	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
HEPTACHLOR EPOXIDE	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
ENDOSULFAN I	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
DIELDRIN	UG/KG	46	34 U	34 U	35 U	14 U	34 U
,4'-DDE	UG/KG	450	79	54	35 U	81 J	41
ENDRIN	UG/KG	18 U	34 U	34 U	35 U	14 U	34 U
ENDOSULFAN II	UG/KG	18 U	34 U	34 U	35 U	14 U	34 U
,4'-DDD	UG/KG	96 J	34 U	34 U	35 U	33 J	89 J
ENDOSULFAN SULFATE	UG/KG	18 U	34 U	34 U	35 U	14 U	34 U
,4'-DDT	UG/KG	770	94	66	34 J	350	300 J
METHOXYCHLOR	UG/KG	90 U	170 U	170 U	180 U	71 U	170 U
ENDRIN KETONE	UG/KG	18 U	34 U	34 U	35 U	14 U	34 U
ENDRIN ALDEHYDE	UG/KG	18 U	34 U	34 U	35 U	14 U	34 U
ALPHA CHLORDANE	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
GAMMA CHLORDANE	UG/KG	9 U	17 U	17 U	18 U	7.1 U	17 U
TOXAPHENE	UG/KG	900 U	1700 U	1700 U	1800 U	710 U	1700 U
PCB-1016	UG/KG	180 U	340 U	340 U	350 U	140 U	340 U
PCB-1221	UG/KG	360 U	680 U	690 U	720 U	280 U	690 U
PCB-1232	UG/KG	180 U	340 U	340 U	350 U	140 U	340 U
PCB-1242	UG/KG	180 U	340 U	340 U	350 U	140 U	340 U
PCB-1248	UG/KG	180 U	340 U	340 U	350 U	1800	340 U
PCB-1254	UG/KG	180 U	340 U	340 U	350 U	140 U	340 U
PCB-1260	UG/KG	180 U	340 U	340 U	350 U	140 U	340 U

VOLATILES

CHLOROMETHANE	UG/KG						11 U
BROMOMETHANE	UG/KG						11 U
VINYL CHLORIDE	UG/KG						11 U
CHLOROETHANE	UG/KG						11 U
METHYLENE CHLORIDE	UG/KG						11 U
ACETONE	UG/KG						11 U
CARBON DISULFIDE	UG/KG						11 U
1,1-DICHLOROETHENE	UG/KG						11 U
1,1-DICHLOROETHANE	UG/KG						11 U
1,2-DICHLOROETHENE	UG/KG						11 U
CHLOROFORM	UG/KG						11 U
1,2-DICHLOROETHANE	UG/KG						11 U
2-BUTANONE	UG/KG						11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB20-00	6-201A-SB21-00	6-201A-SB22-00	6-201A-SB23-00	6-201A-SB24-00	6-201A-SB25-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00447-12	00447-14	00447-16	00447-18	00447-20	00446-05

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-TRICHLOROETHANE	UG/KG					11 U
CARBON TETRACHLORIDE	UG/KG					11 UJ
BROMODICHLOROMETHANE	UG/KG					11 U
1,2-DICHLOROPROPANE	UG/KG					11 U
CIS-1,3-DICHLOROPROPENE	UG/KG					11 U
TRICHLOROETHENE	UG/KG					11 U
DIBROMOCHLOROMETHANE	UG/KG					11 U
1,1,2-TRICHLOROETHANE	UG/KG					11 U
BENZENE	UG/KG					11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG					11 U
BROMOFORM	UG/KG					11 U
-METHYL-2-PENTANONE	UG/KG					11 U
-HEXANONE	UG/KG					11 U
TETRACHLOROETHENE	UG/KG					11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG					11 U
TOLUENE	UG/KG					11 U
CHLOROBENZENE	UG/KG					11 U
ETHYLBENZENE	UG/KG					11 U
STYRENE	UG/KG					11 U
TOTAL XYLENES	UG/KG					11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG					340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG					340 U
-CHLOROPHENOL	UG/KG					340 U
1,3-DICHLOROBENZENE	UG/KG					340 U
1,4-DICHLOROBENZENE	UG/KG					38 J
1,2-DICHLOROBENZENE	UG/KG					340 U
2-METHYLPHENOL	UG/KG					340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG					340 U
4-METHYLPHENOL	UG/KG					340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG					340 U
HEXACHLOROETHANE	UG/KG					340 U
NITROBENZENE	UG/KG					340 U
ISOPHORONE	UG/KG					340 U
2-NITROPHENOL	UG/KG					340 U
2,4-DIMETHYLPHENOL	UG/KG					340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG					340 U
2,4-DICHLOROPHENOL	UG/KG					340 U
1,2,4-TRICHLOROBENZENE	UG/KG					340 U
NAPHTHALENE	UG/KG					340 U
4-CHLORANILINE	UG/KG					340 U
HEXACHLOROBUTADIENE	UG/KG					340 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB20-00	6-201A-SB21-00	6-201A-SB22-00	6-201A-SB23-00	6-201A-SB24-00	6-201A-SB25-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00447-12	00447-14	00447-16	00447-18	00447-20	00446-05

Parameter	Units	6-201A-SB20-00	6-201A-SB21-00	6-201A-SB22-00	6-201A-SB23-00	6-201A-SB24-00	6-201A-SB25-00
<u>SEMIVOLATILES Cont.</u>							
-CHLORO-3-METHYLPHENOL							340 U
-METHYLNAPHTHALENE	UG/KG						340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG						340 U
1,4,6-TRICHLOROPHENOL	UG/KG						340 U
1,4,5-TRICHLOROPHENOL	UG/KG						820 U
1-CHLORONAPHTHALENE	UG/KG						340 U
1-NITROANILINE	UG/KG						820 U
1,2-DIMETHYL PHTHALATE	UG/KG						340 U
1,2,3-ACENAPHTHYLENE	UG/KG						340 U
1,6-DINITROTOLUENE	UG/KG						340 U
1-NITROANILINE	UG/KG						820 U
1,2,3-ACENAPHTHENE	UG/KG						340 U
1,4-DINITROPHENOL	UG/KG						820 U
1-NITROPHENOL	UG/KG						820 U
1,2,3-DIBENZOFURAN	UG/KG						340 U
1,4-DINITROTOLUENE	UG/KG						340 U
1,2-DIETHYL PHTHALATE	UG/KG						340 U
1-CHLOROPHENYL PHENYL ETHER	UG/KG						340 U
1,2,3-FLUORENE	UG/KG						340 U
1-NITROANILINE	UG/KG						820 U
1,6-DINITRO-2-METHYLPHENOL	UG/KG						820 U
1,4-DINITRO-2-NITRISODIPHENYLAMINE	UG/KG						340 U
1-NITRISODIPHENYLAMINE	UG/KG						340 U
1-BROMOPHENYL PHENYL ETHER	UG/KG						340 U
1,2,3,4-TETRAHALOGENOBENZENE	UG/KG						340 U
1,2,3,4-TETRACHLOROPHENOL	UG/KG						820 U
1,2,3-INDENANTHRENE	UG/KG						340 U
1,2,3-ANTHRACENE	UG/KG						340 U
DI-N-BUTYL PHTHALATE	UG/KG						340 U
1,2,3,4-FLUORANTHENE	UG/KG						340 U
1,2,3-CARBAZOLE	UG/KG						340 U
1,2,3-PYRENE	UG/KG						340 U
BUTYL BENZYL PHTHALATE	UG/KG						340 U
1,3,3-DICHLOROBENZIDINE	UG/KG						340 U
BENZO(A)ANTHRACENE	UG/KG						340 U
CHRYSENE	UG/KG						340 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG						340 U
DI-N-OCTYL PHTHALATE	UG/KG						340 U
BENZO(B)FLUORANTHENE	UG/KG						340 U
BENZO(K)FLUORANTHENE	UG/KG						340 U
BENZO(A)PYRENE	UG/KG						340 U
INDENO(1,2,3-CD)PYRENE	UG/KG						340 U
DIBENZ(A,H)ANTHRACENE	UG/KG						340 U
BENZO(G,H,I)PERYLENE	UG/KG						340 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB26-00	6-201A-SB27-00	6-201A-SB28-00	6-201A-SB29-00	6-201A-SB3-00	6-201A-SB30-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/28/92	8/27/92
Lab Id:	00447-23	00447-25	00447-27	00447-29	00452-05	00447-32

Parameter	Units	6-201A-SB26-00	6-201A-SB27-00	6-201A-SB28-00	6-201A-SB29-00	6-201A-SB3-00	6-201A-SB30-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	5.2 U	1.7 U	1.7 UJ	1.8 U	21 U	17 U
BETA-BHC	UG/KG	5.2 U	1.7 U	1.7 UJ	1.8 U	21 U	17 U
DELTA-BHC	UG/KG	5.2 U	1.7 U	1.7 UJ	1.8 U	21 U	17 U
GAMMA-BHC(LINDANE)	UG/KG	5.2 U	1.7 U	1.7 UJ	1.8 U	21 U	17 U
HEPTACHLOR	UG/KG	5.2 U	1.7 U	1.7 UJ	1.8 U	21 U	17 U
ALDRIN	UG/KG	5.2 U	1.7 U	1.7 UJ	1.8 U	21 U	17 U
HEPTACHLOR EPOXIDE	UG/KG	5.2 U	1.7 U	1.7 UJ	1.8 U	21 U	17 U
ENDOSULFAN I	UG/KG	5.2 U	1.7 U	1.7 UJ	1.8 U	21 U	17 U
DELDRIN	UG/KG	11 J	3.3 U	3.3 UJ	3.5 U	41 U	34 U
4'-DDE	UG/KG	53	3.3 U	4 J	3.5 U	500 J	34 U
ENDRIN	UG/KG	10 U	3.3 U	3.3 UJ	3.5 U	41 U	34 U
ENDOSULFAN II	UG/KG	10 U	3.3 U	3.3 UJ	3.5 U	41 U	34 U
4'-DDD	UG/KG	31 J	3.3 U	3.3 UJ	3.5 U	48 J	34 U
ENDOSULFAN SULFATE	UG/KG	10 U	3.3 U	3.3 UJ	3.5 U	41 U	34 U
4'-DDT	UG/KG	340	17	11 J	4	350	64
METHOXYCHLOR	UG/KG	52 U	17 U	17 UJ	18 U	210 U	170 U
ENDRIN KETONE	UG/KG	10 U	3.3 U	3.3 UJ	3.5 U	41 U	34 U
ENDRIN ALDEHYDE	UG/KG	10 U	3.3 U	3.3 UJ	3.5 U	41 U	34 U
ALPHA CHLORDANE	UG/KG	8.9	1.7 U	1.7 UJ	1.8 U	21 U	17 U
GAMMA CHLORDANE	UG/KG	8 J	1.7 U	1.7 UJ	1.8 U	21 U	17 U
NOXAPHENE	UG/KG	520 U	170 U	170 UJ	180 U	2100 U	1700 U
CB-1016	UG/KG	100 U	33 U	33 UJ	35 U		340 U
CB-1221	UG/KG	200 U	67 U	67 UJ	72 U		680 U
CB-1232	UG/KG	100 U	33 U	33 UJ	35 U		340 U
CB-1242	UG/KG	100 U	33 U	33 UJ	35 U		340 U
CB-1248	UG/KG	100 U	33 U	33 UJ	35 U		340 U
PCB-1254	UG/KG	100 U	33 U	33 UJ	35 U		340 U
PCB-1260	UG/KG	100 U	33 U	33 UJ	35 U		340 U

VOLATILES

CHLOROMETHANE	UG/KG
BROMOMETHANE	UG/KG
VINYL CHLORIDE	UG/KG
CHLOROETHANE	UG/KG
METHYLENE CHLORIDE	UG/KG
ACETONE	UG/KG
CARBON DISULFIDE	UG/KG
1,1-DICHLOROETHENE	UG/KG
1,1-DICHLOROETHANE	UG/KG
1,2-DICHLOROETHENE	UG/KG
CHLOROFORM	UG/KG
1,2-DICHLOROETHANE	UG/KG
2-BUTANONE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB26-00	6-201A-SB27-00	6-201A-SB28-00	6-201A-SB29-00	6-201A-SB3-00	6-201A-SB30-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/28/92	8/27/92
Lab Id:	00447-23	00447-25	00447-27	00447-29	00452-05	00447-32

Parameter	Units
<u>VOLATILES Cont.</u>	
1,1-TRICHLOROETHANE	UG/KG
CARBON TETRACHLORIDE	UG/KG
BROMODICHLOROMETHANE	UG/KG
1,2-DICHLOROPROPANE	UG/KG
IS-1,3-DICHLOROPROPENE	UG/KG
TRICHLOROETHENE	UG/KG
DIBROMOCHLOROMETHANE	UG/KG
1,1,2-TRICHLOROETHANE	UG/KG
BENZENE	UG/KG
TRANS-1,3-DICHLOROPROPENE	UG/KG
FORMALDEHYDE	UG/KG
2-METHYL-2-PENTANONE	UG/KG
2-HEXANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROBENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG
<u>SEMIVOLATILES</u>	
BENZYL ALCOHOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
2-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB26-00	6-201A-SB27-00	6-201A-SB28-00	6-201A-SB29-00	6-201A-SB3-00	6-201A-SB30-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/28/92	8/27/92
Lab Id:	00447-23	00447-25	00447-27	00447-29	00452-05	00447-32

Parameter Units

SEMIVOLATILES Cont.

-CHLORO-3-METHYLPHENOL	UG/KG
-METHYLNAPHTHALENE	UG/KG
HEXACHLOROCYCLOPENTADIENE	UG/KG
4,6-TRICHLOROPHENOL	UG/KG
4,5-TRICHLOROPHENOL	UG/KG
-CHLORONAPHTHALENE	UG/KG
-NITROANILINE	UG/KG
1-METHYL PHTHALATE	UG/KG
CENAPHTHYLENE	UG/KG
6-DINITROTOLUENE	UG/KG
-NITROANILINE	UG/KG
CENAPHTHENE	UG/KG
4-DINITROPHENOL	UG/KG
-NITROPHENOL	UG/KG
1-BENZOFURAN	UG/KG
4-DINITROTOLUENE	UG/KG
1-METHYL PHTHALATE	UG/KG
-CHLOROPHENYL PHENYL ETHER	UG/KG
1,2-DIBENZOFURENE	UG/KG
-NITROANILINE	UG/KG
6-DINITRO-2-METHYLPHENOL	UG/KG
-NITRISODIPHENYLAMINE	UG/KG
-BROMOPHENYL PHENYL ETHER	UG/KG
HEXACHLOROBENZENE	UG/KG
PENTACHLOROPHENOL	UG/KG
1-FLUORANTHRENE	UG/KG
ANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(A,H)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB31-00	6-201A-SB32-00	6-201A-SB33-00	6-201A-SB34-00	6-201A-SB35-00	6-201A-SB36-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00453-01	00453-03	00452-17	00453-05	00453-07	00453-10

Parameter	Units	6-201A-SB31-00	6-201A-SB32-00	6-201A-SB33-00	6-201A-SB34-00	6-201A-SB35-00	6-201A-SB36-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
BETA-BHC	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
DELTA-BHC	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
GAMMA-BHC(LINDANE)	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
HEPTACHLOR	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
ALDRIN	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
HEPTACHLOR EPOXIDE	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
ENDOSULFAN I	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
DELDRIN	UG/KG	3.4 U	3.5 U	3.3 U	35 U	3.4 UJ	3.4 UR
4'-DDE	UG/KG	8.4	7.4	3.3 U	160	8.1 J	3.4 UR
NDRIN	UG/KG	3.4 U	3.5 U	3.3 U	35 U	3.4 UJ	3.4 UR
ENDOSULFAN II	UG/KG	3.4 U	3.5 U	3.3 U	35 U	3.4 UJ	3.4 UR
4'-DDD	UG/KG	3.5 J	3.5 U	3.3 U	20 J	3.4 UJ	3.4 UR
ENDOSULFAN SULFATE	UG/KG	3.4 U	3.5 U	3.3 U	35 U	3.4 UJ	3.4 UR
4'-DDT	UG/KG	34	14	3.3 UJ	320	32 J	4.6 J
METHOXYCHLOR	UG/KG	17 U	18 U	17 U	180 U	17 UJ	17 UR
ENDRIN KETONE	UG/KG	3.4 U	3.5 U	3.3 U	35 U	3.4 UJ	3.4 UR
ENDRIN ALDEHYDE	UG/KG	3.4 U	3.5 U	3.3 U	35 U	3.4 UJ	3.4 UR
ALPHA CHLORDANE	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
GAMMA CHLORDANE	UG/KG	1.7 U	1.8 U	1.7 U	18 U	1.7 UJ	1.7 UR
TOXAPHENE	UG/KG	170 U	180 U	170 U	1800 U	170 UJ	170 UR
CB-1016	UG/KG	34 U	35 U	33 U	350 U	34 UJ	34 UR
CB-1221	UG/KG	69 U	70 U	67 U	700 U	69 UJ	68 UR
CB-1232	UG/KG	34 U	35 U	33 U	350 U	34 UJ	34 UR
CB-1242	UG/KG	34 U	35 U	33 U	350 U	34 UJ	34 UR
CB-1248	UG/KG	34 U	35 U	33 U	350 U	34 UJ	34 UR
PCB-1254	UG/KG	34 U	35 U	33 U	350 U	34 UJ	34 UR
PCB-1260	UG/KG	34 U	35 U	33 U	350 U	34 UJ	34 UR

<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG			10 U			
BROMOMETHANE	UG/KG			10 U			
VINYL CHLORIDE	UG/KG			10 UJ			
CHLOROETHANE	UG/KG			10 U			
METHYLENE CHLORIDE	UG/KG			10 U			
ACETONE	UG/KG			10 UJ			
CARBON DISULFIDE	UG/KG			10 U			
1,1-DICHLOROETHENE	UG/KG			10 U			
1,1-DICHLOROETHANE	UG/KG			10 U			
1,2-DICHLOROETHENE	UG/KG			10 U			
CHLOROFORM	UG/KG			10 U			
1,2-DICHLOROETHANE	UG/KG			10 U			
2-BUTANONE	UG/KG			10 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB31-00	6-201A-SB32-00	6-201A-SB33-00	6-201A-SB34-00	6-201A-SB35-00	6-201A-SB36-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00453-01	00453-03	00452-17	00453-05	00453-07	00453-10

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-TRICHLOROETHANE	UG/KG			10	U	
ARBON TETRACHLORIDE	UG/KG			10	UJ	
ROMODICHLOROMETHANE	UG/KG			10	U	
2-DICHLOROPROPANE	UG/KG			10	U	
IS-1,3-DICHLOROPROPENE	UG/KG			10	U	
RICHLOROETHENE	UG/KG			10	U	
BROMOCHLOROMETHANE	UG/KG			10	U	
1,2-TRICHLOROETHANE	UG/KG			10	U	
ENZENE	UG/KG			10	U	
RANS-1,3-DICHLOROPROPENE	UG/KG			10	U	
ROMOFORM	UG/KG			10	U	
-METHYL-2-PENTANONE	UG/KG			10	U	
-HEXANONE	UG/KG			10	U	
ETRACHLOROETHENE	UG/KG			10	U	
1,2,2-TETRACHLOROETHANE	UG/KG			10	U	
OLUENE	UG/KG			10	U	
HLOOROBENZENE	UG/KG			10	U	
THYLBENZENE	UG/KG			10	U	
TYRENE	UG/KG			10	U	
OTAL XYLENES	UG/KG			10	U	
<u>SEMIVOLATILES</u>						
HENOL	UG/KG			330	U	
IS(2-CHLOROETHYL) ETHER	UG/KG			330	U	
-CHLOROPHENOL	UG/KG			330	U	
1,3-DICHLOROBENZENE	UG/KG			330	U	
1,4-DICHLOROBENZENE	UG/KG			330	U	
1,2-DICHLOROBENZENE	UG/KG			330	U	
2-METHYLPHENOL	UG/KG			330	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG			330	U	
4-METHYLPHENOL	UG/KG			330	U	
N-NITROSODI-N-PROPYLAMINE	UG/KG			330	U	
HEXACHLOROETHANE	UG/KG			330	U	
NITROBENZENE	UG/KG			330	U	
ISOPHORONE	UG/KG			330	U	
2-NITROPHENOL	UG/KG			330	U	
2,4-DIMETHYLPHENOL	UG/KG			330	U	
BIS(2-CHLOROETHOXY) METHANE	UG/KG			330	U	
2,4-DICHLOROPHENOL	UG/KG			330	U	
1,2,4-TRICHLOROBENZENE	UG/KG			330	U	
NAPHTHALENE	UG/KG			330	U	
4-CHLORANILINE	UG/KG			330	U	
HEXACHLOROBUTADIENE	UG/KG			330	U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB31-00	6-201A-SB32-00	6-201A-SB33-00	6-201A-SB34-00	6-201A-SB35-00	6-201A-SB36-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00453-01	00453-03	00452-17	00453-05	00453-07	00453-10

Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
1-CHLORO-3-METHYLPHENOL				330	U	
1-METHYLNAPHTHALENE	UG/KG			330	U	
HEXACHLOROCYCLOPENTADIENE	UG/KG			330	U	
2,4,6-TRICHLOROPHENOL	UG/KG			330	U	
2,4,5-TRICHLOROPHENOL	UG/KG			790	U	
1-CHLORONAPHTHALENE	UG/KG			330	U	
1-NITROANILINE	UG/KG			790	U	
1,2-DIMETHYL PHTHALATE	UG/KG			330	U	
1,2-DICHLORONAPHTHALENE	UG/KG			330	U	
2,6-DINITROTOLUENE	UG/KG			330	U	
2-NITROANILINE	UG/KG			790	U	
1,2-DICHLORONAPHTHALENE	UG/KG			330	U	
2,4-DINITROPHENOL	UG/KG			790	U	
1-NITROPHENOL	UG/KG			790	U	
1,2-DIBENZOFURAN	UG/KG			330	U	
2,4-DINITROTOLUENE	UG/KG			330	U	
1,2-DIETHYL PHTHALATE	UG/KG			330	U	
1-CHLOROPHENYL PHENYL ETHER	UG/KG			330	U	
FLUORENE	UG/KG			330	U	
1-NITROANILINE	UG/KG			790	U	
2,6-DINITRO-2-METHYLPHENOL	UG/KG			790	U	
1-NITRISODIPHENYLAMINE	UG/KG			330	U	
1-BROMOPHENYL PHENYL ETHER	UG/KG			330	UJ	
HEXACHLOROBENZENE	UG/KG			330	UJ	
1,2,3,4-TETRACHLOROPHENOL	UG/KG			790	U	
1,2,3,4-TETRACHLOROPHENOL	UG/KG			330	U	
ANTHRACENE	UG/KG			330	U	
DI-N-BUTYL PHTHALATE	UG/KG			330	U	
FLUORANTHENE	UG/KG			330	U	
CARBAZOLE	UG/KG			330	U	
PYRENE	UG/KG			330	U	
BUTYL BENZYL PHTHALATE	UG/KG			330	U	
3,3-DICHLOROBENZIDINE	UG/KG			330	U	
BENZO(A)ANTHRACENE	UG/KG			330	U	
CHRYSENE	UG/KG			330	U	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG			330	U	
DI-N-OCTYL PHTHALATE	UG/KG			330	U	
BENZO(B)FLUORANTHENE	UG/KG			330	U	
BENZO(K)FLUORANTHENE	UG/KG			330	U	
BENZO(A)PYRENE	UG/KG			330	U	
INDENO(1,2,3-CD) PYRENE	UG/KG			330	U	
DIBENZ(A,H)ANTHRACENE	UG/KG			330	U	
BENZO(G,H,I)PERYLENE	UG/KG			330	U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB37-00	6-201A-SB4-00	6-201A-SB5-00	6-201A-SB7-00	6-201A-SB8-00	6-201A-SB9-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00452-19	00452-08	00438-01	00438-05	00438-08	00438-10

Parameter	Units	6-201A-SB37-00	6-201A-SB4-00	6-201A-SB5-00	6-201A-SB7-00	6-201A-SB8-00	6-201A-SB9-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
ETA-BHC	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
DELTA-BHC	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
GAMMA-BHC(LINDANE)	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
HEPTACHLOR	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
LDRIN	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
HEPTACHLOR EPOXIDE	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
NDOSULFAN I	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
DELDRIN	UG/KG	3.3 U	3.7 U	5.8 J	3.6 U	5.6 J	3.3 U
4'-DDE	UG/KG	3.3 U	3.7 U	380	5.7 J	25 J	18
NDRIN	UG/KG	3.3 U	3.7 U	3.4 U	3.6 U	3.3 U	3.3 U
NDOSULFAN II	UG/KG	3.3 U	3.7 U	3.4 U	3.6 U	3.3 U	3.3 U
4'-DDD	UG/KG	4.4 J	8.9 J	11 J	3.6 U	3.3 U	3.3 U
NDOSULFAN SULFATE	UG/KG	3.3 U	3.7 U	3.4 U	3.6 U	3.3 U	3.3 U
4'-DDT	UG/KG	16	44 J	570	14 J	27 J	55 J
METHOXYCHLOR	UG/KG	17 U	19 U	17 U	18 U	17 U	17 U
ENDRIN KETONE	UG/KG	3.3 U	3.7 U	3.4 U	3.6 U	3.3 U	3.3 U
ENDRIN ALDEHYDE	UG/KG	3.3 U	3.7 U	3.4 U	3.6 U	3.3 U	3.3 U
ALPHA CHLORDANE	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
GAMMA CHLORDANE	UG/KG	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U	1.7 U
OXAPHENE	UG/KG	170 U	190 U	170 U	180 U	170 U	170 U
CB-1016	UG/KG	33 U					
CB-1221	UG/KG	68 U					
CB-1232	UG/KG	33 U					
CB-1242	UG/KG	33 U					
PCB-1248	UG/KG	33 U					
PCB-1254	UG/KG	33 U					
PCB-1260	UG/KG	33 U					

<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U					
BROMOMETHANE	UG/KG	11 U					
VINYL CHLORIDE	UG/KG	11 U					
CHLOROETHANE	UG/KG	11 U					
METHYLENE CHLORIDE	UG/KG	11 U					
ACETONE	UG/KG	26 J					
CARBON DISULFIDE	UG/KG	11 U					
1,1-DICHLOROETHENE	UG/KG	11 U					
1,1-DICHLOROETHANE	UG/KG	11 U					
1,2-DICHLOROETHENE	UG/KG	11 U					
CHLOROFORM	UG/KG	11 U					
1,2-DICHLOROETHANE	UG/KG	11 U					
2-BUTANONE	UG/KG	11 U					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB37-00	6-201A-SB4-00	6-201A-SB5-00	6-201A-SB7-00	6-201A-SB8-00	6-201A-SB9-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00452-19	00452-08	00438-01	00438-05	00438-08	00438-10

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-TRICHLOROETHANE	UG/KG	11	U			
CARBON TETRACHLORIDE	UG/KG	11	UJ			
BROMODICHLOROMETHANE	UG/KG	11	U			
1,2-DICHLOROPROPANE	UG/KG	11	U			
CIS-1,3-DICHLOROPROPENE	UG/KG	11	U			
TRICHLOROETHENE	UG/KG	11	U			
DIBROMOCHLOROMETHANE	UG/KG	11	U			
1,1,2-TRICHLOROETHANE	UG/KG	11	U			
BENZENE	UG/KG	11	U			
TRANS-1,3-DICHLOROPROPENE	UG/KG	11	U			
BROMOFORM	UG/KG	11	U			
2-METHYL-2-PENTANONE	UG/KG	11	U			
HEXANONE	UG/KG	11	U			
TETRACHLOROETHENE	UG/KG	11	U			
1,1,2,2-TETRACHLOROETHANE	UG/KG	11	U			
TOLUENE	UG/KG	11	U			
CHLOROBENZENE	UG/KG	11	U			
ETHYLBENZENE	UG/KG	11	U			
STYRENE	UG/KG	11	U			
TOTAL XYLENES	UG/KG	11	U			
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	340	U			
BIS(2-CHLOROETHYL) ETHER	UG/KG	340	U			
2-CHLOROPHENOL	UG/KG	340	U			
1,3-DICHLOROBENZENE	UG/KG	340	U			
1,4-DICHLOROBENZENE	UG/KG	340	U			
1,2-DICHLOROBENZENE	UG/KG	340	U			
2-METHYLPHENOL	UG/KG	340	U			
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	340	U			
4-METHYLPHENOL	UG/KG	340	U			
N-NITROSODI-N-PROPYLAMINE	UG/KG	340	U			
HEXACHLOROETHANE	UG/KG	340	U			
NITROBENZENE	UG/KG	340	U			
ISOPHORONE	UG/KG	340	U			
2-NITROPHENOL	UG/KG	340	U			
2,4-DIMETHYLPHENOL	UG/KG	340	U			
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340	U			
2,4-DICHLOROPHENOL	UG/KG	340	U			
1,2,4-TRICHLOROBENZENE	UG/KG	340	U			
NAPHTHALENE	UG/KG	340	U			
4-CHLORANILINE	UG/KG	340	U			
HEXACHLOROBUTADIENE	UG/KG	340	U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB37-00	6-201A-SB4-00	6-201A-SB5-00	6-201A-SB7-00	6-201A-SB8-00	6-201A-SB9-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00432-19	00432-08	00438-01	00438-05	00438-08	00438-10

Parameter	Units	
<u>SEMIVOLATILES Cont.</u>		
1-CHLORO-3-METHYLPHENOL		340 U
1-METHYLNAPHTHALENE	UG/KG	340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U
1,4,6-TRICHLOROPHENOL	UG/KG	340 U
1,4,5-TRICHLOROPHENOL	UG/KG	820 U
1-CHLORONAPHTHALENE	UG/KG	340 U
1-NITROANILINE	UG/KG	820 U
1,1-DIMETHYL PHTHALATE	UG/KG	340 U
1-CENAPHTHYLENE	UG/KG	340 U
1,6-DINITROTOLUENE	UG/KG	340 U
1-NITROANILINE	UG/KG	820 U
1-CENAPHTHENE	UG/KG	340 U
1,4-DINITROPHENOL	UG/KG	820 U
1-NITROPHENOL	UG/KG	820 U
1,1-DIBENZOFURAN	UG/KG	340 U
1,4-DINITROTOLUENE	UG/KG	340 U
1,1-DIETHYL PHTHALATE	UG/KG	340 U
1-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U
1-FLUORENE	UG/KG	340 U
1-NITROANILINE	UG/KG	820 U
1,6-DINITRO-2-METHYLPHENOL	UG/KG	820 U
1-NITRISODIPHENYLAMINE	UG/KG	340 U
1-BROMOPHENYL PHENYL ETHER	UG/KG	340 U
1,1-HEXACHLOROBENZENE	UG/KG	340 U
1,1-DIANTACHLOROPHENOL	UG/KG	820 U
1-PHENANTHRENE	UG/KG	340 U
1-ANTHRACENE	UG/KG	340 U
1,1-DI-N-BUTYL PHTHALATE	UG/KG	340 U
1-FLUORANTHENE	UG/KG	340 U
1-CARBAZOLE	UG/KG	340 U
1-PYRENE	UG/KG	340 U
1-BUTYL BENZYL PHTHALATE	UG/KG	340 U
1,3,3-DICHLOROBENZIDINE	UG/KG	340 U
1-BENZO(A)ANTHRACENE	UG/KG	340 U
1-CHRYSENE	UG/KG	340 U
1-BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	88 J
1,1-DI-N-OCTYL PHTHALATE	UG/KG	340 U
1-BENZO(B)FLUORANTHENE	UG/KG	340 U
1-BENZO(K)FLUORANTHENE	UG/KG	340 U
1-BENZO(A)PYRENE	UG/KG	340 U
1-INDENO(1,2,3-CD) PYRENE	UG/KG	340 U
1-DIBENZ(A,H)ANTHRACENE	UG/KG	340 U
1-BENZO(G,H,I)PERYLENE	UG/KG	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB1-00	6-201B-SB10-00	6-201B-SB11-00	6-201B-SB12-00	6-201B-SB13-00	6-201B-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/28/92	8/31/92	8/31/92	8/26/92	8/26/92
Lab Id:	00438-12	00452-29	00463-04	00463-06	00438-16	00448-01

Parameter	Units	6-201B-SB1-00	6-201B-SB10-00	6-201B-SB11-00	6-201B-SB12-00	6-201B-SB13-00	6-201B-SB14-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
BETA-BHC	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
DELTA-BHC	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
HEPTACHLOR	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
ALDRIN	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
ENDOSULFAN I	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
DELDRIN	UG/KG	3.5 U	3.6 U	3.4 UJ	3.4 UJ	3.4 U	3.4 U
4'-DDE	UG/KG	3.5 U	3.6 U	3.4 UJ	3.4 UJ	3.4 U	3.4 U
ENDRIN	UG/KG	3.5 U	3.6 U	3.4 UJ	3.4 UJ	3.4 U	3.4 U
ENDOSULFAN II	UG/KG	3.5 U	3.6 U	3.4 UJ	3.4 UJ	3.4 U	3.4 U
4'-DDD	UG/KG	3.5 U	3.6 U	3.4 UJ	3.4 UJ	7.5 J	3.4 U
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.6 U	3.4 UJ	3.4 UJ	3.4 U	3.4 U
4'-DDT	UG/KG	3.5 U	4 J	4.8 J	3.4 UJ	94	3.4 U
METHOXYCHLOR	UG/KG	18 U	19 U	18 UJ	18 UJ	18 U	18 U
ENDRIN KETONE	UG/KG	3.5 U	3.6 U	3.4 UJ	3.4 UJ	3.4 U	3.4 U
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.6 U	3.4 UJ	3.4 UJ	3.4 U	3.4 U
ALPHA CHLORDANE	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.8 U	1.9 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U
TOXAPHENE	UG/KG	180 U	190 U	180 UJ	180 UJ	180 U	180 U
PCB-1016	UG/KG		36 U	34 UJ	34 UJ	34 U	
PCB-1221	UG/KG		74 U	70 UJ	69 UJ	70 U	
PCB-1232	UG/KG		36 U	34 UJ	34 UJ	34 U	
PCB-1242	UG/KG		36 U	34 UJ	34 UJ	34 U	
PCB-1248	UG/KG		36 U	34 UJ	34 UJ	34 U	
PCB-1254	UG/KG		36 U	34 UJ	34 UJ	34 U	
PCB-1260	UG/KG		36 U	34 UJ	34 UJ	34 U	

VOLATILES

CHLOROMETHANE	UG/KG					11 U	
BROMOMETHANE	UG/KG					11 U	
VINYL CHLORIDE	UG/KG					11 U	
CHLOROETHANE	UG/KG					11 U	
METHYLENE CHLORIDE	UG/KG					11 U	
ACETONE	UG/KG					11 U	
CARBON DISULFIDE	UG/KG					11 U	
1,1-DICHLOROETHENE	UG/KG					11 U	
1,1-DICHLOROETHANE	UG/KG					11 U	
1,2-DICHLOROETHENE	UG/KG					11 U	
CHLOROFORM	UG/KG					11 U	
1,2-DICHLOROETHANE	UG/KG					11 U	
2-BUTANONE	UG/KG					11 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB1-00	6-201B-SB10-00	6-201B-SB11-00	6-201B-SB12-00	6-201B-SB13-00	6-201B-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/28/92	8/31/92	8/31/92	8/26/92	8/26/92
Lab Id:	00438-12	00452-29	00463-04	00463-06	00438-16	00448-01

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG				11 U	
CARBON TETRACHLORIDE	UG/KG				11 U	
BROMODICHLOROMETHANE	UG/KG				11 U	
1,2-DICHLOROPROPANE	UG/KG				11 U	
CIS-1,3-DICHLOROPROPENE	UG/KG				11 U	
TRICHLOROETHENE	UG/KG				11 U	
DIBROMOCHLOROMETHANE	UG/KG				11 U	
1,1,2-TRICHLOROETHANE	UG/KG				11 U	
BENZENE	UG/KG				11 U	
TRANS-1,3-DICHLOROPROPENE	UG/KG				11 U	
BROMOFORM	UG/KG				11 U	
2-METHYL-2-PENTANONE	UG/KG				11 U	
2-HEXANONE	UG/KG				11 U	
TETRACHLOROETHENE	UG/KG				11 U	
1,1,2,2-TETRACHLOROETHANE	UG/KG				11 U	
TOLUENE	UG/KG				11 U	
CHLOROBENZENE	UG/KG				11 U	
ETHYLBENZENE	UG/KG				11 U	
STYRENE	UG/KG				11 U	
TOTAL XYLENES	UG/KG				11 U	
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG				350 U	
BIS(2-CHLOROETHYL) ETHER	UG/KG				350 U	
1-CHLOROPHENOL	UG/KG				350 U	
1,3-DICHLOROBENZENE	UG/KG				350 U	
1,4-DICHLOROBENZENE	UG/KG				350 U	
1,2-DICHLOROBENZENE	UG/KG				350 U	
2-METHYLPHENOL	UG/KG				350 U	
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG				350 U	
4-METHYLPHENOL	UG/KG				350 U	
N-NITROSODI-N-PROPYLAMINE	UG/KG				350 U	
HEXACHLOROETHANE	UG/KG				350 U	
NITROBENZENE	UG/KG				350 U	
ISOPHORONE	UG/KG				350 U	
2-NITROPHENOL	UG/KG				350 U	
2,4-DIMETHYLPHENOL	UG/KG				350 U	
BIS(2-CHLOROETHOXY) METHANE	UG/KG				350 U	
2,4-DICHLOROPHENOL	UG/KG				350 U	
1,2,4-TRICHLOROBENZENE	UG/KG				350 U	
NAPHTHALENE	UG/KG				350 U	
4-CHLORANILINE	UG/KG				350 U	
HEXACHLOROBUTADIENE	UG/KG				350 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB1-00	6-201B-SB10-00	6-201B-SB11-00	6-201B-SB12-00	6-201B-SB13-00	6-201B-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/28/92	8/31/92	8/31/92	8/26/92	8/26/92
Lab Id:	00438-12	00452-29	00463-04	00463-06	00438-16	00448-01

Parameter	Units	6-201B-SB1-00	6-201B-SB10-00	6-201B-SB11-00	6-201B-SB12-00	6-201B-SB13-00	6-201B-SB14-00
<u>SEMIVOLATILES Cont.</u>							
-CHLORO-3-METHYLPHENOL						350 U	
-METHYLNAPHTHALENE	UG/KG					350 U	
HEXACHLOROCYCLOPENTADIENE	UG/KG					350 U	
1,4,6-TRICHLOROPHENOL	UG/KG					350 U	
1,4,5-TRICHLOROPHENOL	UG/KG					840 U	
-CHLORONAPHTHALENE	UG/KG					350 U	
-NITROANILINE	UG/KG					840 U	
DIMETHYL PHTHALATE	UG/KG					350 U	
1-CENAPHTHYLENE	UG/KG					350 U	
1,6-DINITROTOLUENE	UG/KG					350 U	
-NITROANILINE	UG/KG					840 U	
1-CENAPHTHENE	UG/KG					350 U	
1,4-DINITROPHENOL	UG/KG					840 U	
-NITROPHENOL	UG/KG					840 U	
1,2-DIBENZOFURAN	UG/KG					350 U	
1,4-DINITROTOLUENE	UG/KG					350 U	
1,2-DIETHYL PHTHALATE	UG/KG					350 U	
1-CHLOROPHENYL PHENYL ETHER	UG/KG					350 U	
FLUORENE	UG/KG					350 U	
1-NITROANILINE	UG/KG					840 U	
1,6-DINITRO-2-METHYLPHENOL	UG/KG					840 U	
1-NITRISODIPHENYLAMINE	UG/KG					350 U	
1-BROMOPHENYL PHENYL ETHER	UG/KG					350 U	
HEXACHLOROBENZENE	UG/KG					350 U	
1-PENTACHLOROPHENOL	UG/KG					840 U	
1-PHENANTHRENE	UG/KG					350 U	
ANTHRACENE	UG/KG					350 U	
DI-N-BUTYL PHTHALATE	UG/KG					350 U	
FLUORANTHENE	UG/KG					350 U	
CARBAZOLE	UG/KG					350 U	
PYRENE	UG/KG					350 U	
BUTYL BENZYL PHTHALATE	UG/KG					350 U	
3,3-DICHLOROBENZIDINE	UG/KG					350 U	
BENZO(A)ANTHRACENE	UG/KG					350 U	
CHRYSENE	UG/KG					350 U	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					68 J	
DI-N-OCTYL PHTHALATE	UG/KG					350 U	
BENZO(B)FLUORANTHENE	UG/KG					350 U	
BENZO(K)FLUORANTHENE	UG/KG					350 U	
BENZO(A)PYRENE	UG/KG					350 U	
INDENO(1,2,3-CD)PYRENE	UG/KG					350 U	
DIBENZ(A,H)ANTHRACENE	UG/KG					350 UJ	
BENZO(G,H,I)PERYLENE	UG/KG					350 UJ	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB15-00	6-201B-SB16-00	6-201B-SB17-00	6-201B-SB18-00	6-201B-SB19-00	6-201B-SB2-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/26/92
Lab Id:	00448-03	00448-06	00446-15	00448-08	00448-11	00438-14

Parameter	Units	6-201B-SB15-00	6-201B-SB16-00	6-201B-SB17-00	6-201B-SB18-00	6-201B-SB19-00	6-201B-SB2-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
BETA-BHC	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
DELTA-BHC	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
GAMMA-BHC(LINDANE)	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
HEPTACHLOR	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
ALDRIN	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
HEPTACHLOR EPOXIDE	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
ENDOSULFAN I	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
DIELDRIN	UG/KG	35 UJ	3.7 U	17 U	3.5 U	3.5 UJ	3.3 U
4'-DDE	UG/KG	35 UJ	3.7 U	20 J	3.5 U	3.5 UJ	3.3 U
ENDRIN	UG/KG	35 UJ	3.7 U	17 U	3.5 U	3.5 UJ	3.3 U
ENDOSULFAN II	UG/KG	35 UJ	3.7 U	17 U	3.5 U	3.5 UJ	3.3 U
4'-DDD	UG/KG	42 J	9.5	16 J	3.5 U	3.5 UJ	3.3 U
ENDOSULFAN SULFATE	UG/KG	35 UJ	3.7 U	17 U	3.5 U	3.5 UJ	3.3 U
4'-DDT	UG/KG	310 J	34	200 J	3.5 U	3.4 UJ	3.3 U
METHOXYCHLOR	UG/KG	180 UJ	19 U	89 U	18 U	18 UJ	17 U
ENDRIN KETONE	UG/KG	35 UJ	3.7 U	17 U	3.5 U	3.5 UJ	3.3 U
ENDRIN ALDEHYDE	UG/KG	35 UJ	3.7 U	17 U	3.5 U	3.5 UJ	3.3 U
ALPHA CHLORDANE	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
GAMMA CHLORDANE	UG/KG	18 UJ	1.9 U	8.9 U	1.8 U	1.8 UJ	1.7 U
TOXAPHENE	UG/KG	1800 UJ	190 U	890 U	180 U	180 UJ	170 U
PCB-1016	UG/KG	350 UJ		170 U			
PCB-1221	UG/KG	710 UJ		350 U			
PCB-1232	UG/KG	350 UJ		170 U			
PCB-1242	UG/KG	350 UJ		170 U			
PCB-1248	UG/KG	350 UJ		170 U			
PCB-1254	UG/KG	350 UJ		170 U			
PCB-1260	UG/KG	350 UJ		170 U			

VOLATILES

CHLOROMETHANE	UG/KG			11 U			
BROMOMETHANE	UG/KG			11 U			
VINYL CHLORIDE	UG/KG			11 U			
CHLOROETHANE	UG/KG			11 U			
METHYLENE CHLORIDE	UG/KG			11 U			
ACETONE	UG/KG			11 U			
CARBON DISULFIDE	UG/KG			11 U			
1,1-DICHLOROETHENE	UG/KG			11 U			
1,1-DICHLOROETHANE	UG/KG			11 U			
1,2-DICHLOROETHENE	UG/KG			11 U			
CHLOROFORM	UG/KG			11 U			
1,2-DICHLOROETHANE	UG/KG			11 U			
2-BUTANONE	UG/KG			11 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB15-00	6-201B-SB16-00	6-201B-SB17-00	6-201B-SB18-00	6-201B-SB19-00	6-201B-SB2-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/26/92
Lab Id:	00448-03	00448-06	00446-15	00448-08	00448-11	00438-14

Parameter	Units	
<u>VOLATILES Cont.</u>		
1,1-TRICHLOROETHANE	UG/KG	11 U
CARBON TETRACHLORIDE	UG/KG	11 UJ
BROMODICHLOROMETHANE	UG/KG	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U
TRICHLOROETHENE	UG/KG	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U
BENZENE	UG/KG	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U
BROMOFORM	UG/KG	11 U
2-METHYL-2-PENTANONE	UG/KG	11 U
2-HEXANONE	UG/KG	11 U
TETRACHLOROETHENE	UG/KG	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U
TOLUENE	UG/KG	11 U
CHLOROBENZENE	UG/KG	11 U
ETHYLBENZENE	UG/KG	11 U
STYRENE	UG/KG	11 U
TOTAL XYLENES	UG/KG	11 U
<u>SEMIVOLATILES</u>		
PHENOL	UG/KG	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U
2-CHLOROPHENOL	UG/KG	350 U
1,3-DICHLOROBENZENE	UG/KG	350 U
1,4-DICHLOROBENZENE	UG/KG	37 J
1,2-DICHLOROBENZENE	UG/KG	350 U
2-METHYLPHENOL	UG/KG	350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U
4-METHYLPHENOL	UG/KG	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U
HEXACHLOROETHANE	UG/KG	350 U
NITROBENZENE	UG/KG	350 U
ISOPHORONE	UG/KG	350 U
2-NITROPHENOL	UG/KG	350 U
2,4-DIMETHYLPHENOL	UG/KG	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U
2,4-DICHLOROPHENOL	UG/KG	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U
NAPHTHALENE	UG/KG	350 U
4-CHLORANILINE	UG/KG	350 U
HEXACHLOROBUTADIENE	UG/KG	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB15-00	6-201B-SB16-00	6-201B-SB17-00	6-201B-SB18-00	6-201B-SB19-00	6-201B-SB2-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/26/92
Lab Id:	00448-03	00448-06	00446-15	00448-08	00448-11	00438-14

Parameter	Units	
SEMIVOLATILES Cont.		
-CHLORO-3-METHYLPHENOL		350 U
-METHYLNAPHTHALENE	UG/KG	350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U
4,6-TRICHLOROPHENOL	UG/KG	350 U
4,5-TRICHLOROPHENOL	UG/KG	840 U
-CHLORONAPHTHALENE	UG/KG	350 U
-NITROANILINE	UG/KG	840 U
1-METHYL PHTHALATE	UG/KG	350 U
1-CENAPHTHYLENE	UG/KG	350 U
6-DINITROTOLUENE	UG/KG	350 U
-NITROANILINE	UG/KG	840 U
1-CENAPHTHENE	UG/KG	350 U
4-DINITROPHENOL	UG/KG	840 U
-NITROPHENOL	UG/KG	840 U
1-BENZOFURAN	UG/KG	350 U
4-DINITROTOLUENE	UG/KG	350 U
1-METHYL PHTHALATE	UG/KG	350 U
-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U
1-FLUORENE	UG/KG	350 U
-NITROANILINE	UG/KG	840 U
6-DINITRO-2-METHYLPHENOL	UG/KG	840 U
1-NITRISODIPHENYLAMINE	UG/KG	350 U
-BROMOPHENYL PHENYL ETHER	UG/KG	350 U
1-HEXACHLOROBENZENE	UG/KG	350 U
1-2,4,6-TRICHLOROPHENOL	UG/KG	840 U
1-PHENANTHRENE	UG/KG	350 U
1-ANTHRACENE	UG/KG	350 U
DI-N-BUTYL PHTHALATE	UG/KG	350 U
1-FLUORANTHENE	UG/KG	350 U
1-CARBAZOLE	UG/KG	350 U
1-PYRENE	UG/KG	350 U
1-BUTYL BENZYL PHTHALATE	UG/KG	350 U
1,3-DICHLOROBENZIDINE	UG/KG	350 U
1-BENZO(A)ANTHRACENE	UG/KG	350 U
1-CHRYSENE	UG/KG	350 U
1-BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 U
1-DI-N-OCTYL PHTHALATE	UG/KG	350 U
1-BENZO(B)FLUORANTHENE	UG/KG	350 U
1-BENZO(K)FLUORANTHENE	UG/KG	350 U
1-BENZO(A)PYRENE	UG/KG	350 U
1-INDENO(1,2,3-CD) PYRENE	UG/KG	350 U
1-DIBENZ(A,H)ANTHRACENE	UG/KG	350 U
1-BENZO(G,H,I)PERYLENE	UG/KG	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB20-00	6-201B-SB21-00	6-201B-SB22-00	6-201B-SB23-00	6-201B-SB24-00	6-201B-SB25-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/28/92	8/27/92	8/27/92
Lab Id:	00448-13	00448-15	00448-18	00453-12	00453-14	00452-31

Parameter	Units	6-201B-SB20-00	6-201B-SB21-00	6-201B-SB22-00	6-201B-SB23-00	6-201B-SB24-00	6-201B-SB25-00
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
BETA-BHC	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
DELTA-BHC	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
GAMMA-BHC(LINDANE)	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
HEPTACHLOR	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
ALDRIN	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
HEPTACHLOR EPOXIDE	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
ENDOSULFAN I	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
DIELDRIN	UG/KG	3.4 U	3.6 U	35 UJ	3.3 U	3.4 UR	17 U
4'-DDE	UG/KG	4.3	3.6 U	150 J	3.3 U	3.4 UR	120
ENDRIN	UG/KG	3.4 U	3.6 U	35 UJ	3.3 U	3.4 UR	17 U
ENDOSULFAN II	UG/KG	3.4 U	3.6 U	35 UJ	3.3 U	3.4 UR	17 U
4'-DDD	UG/KG	3.4 U	3.6 U	35 UJ	3.3 U	3.4 UR	17 U
ENDOSULFAN SULFATE	UG/KG	3.4 U	3.6 U	35 UJ	3.3 U	3.4 UR	17 U
4'-DDT	UG/KG	3.9	4.2	330 J	3.3 U	3.4 UR	130 J
METHOXYCHLOR	UG/KG	17 U	18 U	180 UJ	17 U	18 UR	87 U
ENDRIN KETONE	UG/KG	3.4 U	3.6 U	35 UJ	3.3 U	3.4 UR	17 U
ENDRIN ALDEHYDE	UG/KG	3.4 U	3.6 U	35 UJ	3.3 U	3.4 UR	17 U
ALPHA CHLORDANE	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
GAMMA CHLORDANE	UG/KG	1.7 U	1.8 U	18 UJ	1.7 U	1.8 UR	8.7 U
TOXAPHENE	UG/KG	170 U	180 U	1800 UJ	170 U	180 UR	870 U
PCB-1016	UG/KG			350 UJ	33 U	34 UR	170 U
PCB-1221	UG/KG			720 UJ	67 U	70 UR	340 U
PCB-1232	UG/KG			350 UJ	33 U	34 UR	170 U
PCB-1242	UG/KG			350 UJ	33 U	34 UR	170 U
PCB-1248	UG/KG			350 UJ	33 U	34 UR	170 U
PCB-1254	UG/KG			350 UJ	33 U	34 UR	170 U
PCB-1260	UG/KG			350 UJ	33 U	31 J	170 U

VOLATILES							
CHLOROMETHANE	UG/KG						11 U
BROMOMETHANE	UG/KG						11 U
VINYL CHLORIDE	UG/KG						11 UJ
CHLOROETHANE	UG/KG						11 U
METHYLENE CHLORIDE	UG/KG						11 U
ACETONE	UG/KG						11 UJ
CARBON DISULFIDE	UG/KG						11 U
1,1-DICHLOROETHENE	UG/KG						11 U
1,1-DICHLOROETHANE	UG/KG						11 U
1,2-DICHLOROETHENE	UG/KG						11 U
CHLOROFORM	UG/KG						11 U
1,2-DICHLOROETHANE	UG/KG						11 U
2-BUTANONE	UG/KG						11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB20-00	6-201B-SB21-00	6-201B-SB22-00	6-201B-SB23-00	6-201B-SB24-00	6-201B-SB25-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/28/92	8/27/92	8/27/92
Lab Id:	00448-13	00448-15	00448-18	00453-12	00453-14	00452-31

Parameter	Units	
<u>VOLATILES Cont.</u>		
1,1-TRICHLOROETHANE	UG/KG	11 U
CARBON TETRACHLORIDE	UG/KG	11 U
1,1-DICHLOROMETHANE	UG/KG	11 U
2,2-DICHLOROPROPANE	UG/KG	11 U
1,2-DICHLOROPROPENE	UG/KG	11 U
1,1-DICHLOROETHENE	UG/KG	11 U
1,1-DIBROMOCHLOROMETHANE	UG/KG	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U
BENZENE	UG/KG	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U
FORMALDEHYDE	UG/KG	11 U
2-PENTANONE	UG/KG	11 U
HEXANONE	UG/KG	11 U
1,1-DICHLOROETHENE	UG/KG	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U
TOLUENE	UG/KG	11 U
CHLOROBENZENE	UG/KG	11 U
ETHYLBENZENE	UG/KG	11 U
STYRENE	UG/KG	11 U
TOTAL XYLENES	UG/KG	11 U
<u>SEMIVOLATILES</u>		
BENZOL	UG/KG	
1,2-DICHLOROETHYL ETHER	UG/KG	330 U
1,2-DICHLOROPHENOL	UG/KG	330 U
1,3-DICHLOROBENZENE	UG/KG	330 U
1,4-DICHLOROBENZENE	UG/KG	330 U
1,2-DICHLOROBENZENE	UG/KG	330 U
2-METHYLPHENOL	UG/KG	330 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 U
4-METHYLPHENOL	UG/KG	330 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 U
HEXACHLOROETHANE	UG/KG	330 U
NITROBENZENE	UG/KG	330 U
ISOPHORONE	UG/KG	330 U
2-NITROPHENOL	UG/KG	330 U
2,4-DIMETHYLPHENOL	UG/KG	330 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 U
2,4-DICHLOROPHENOL	UG/KG	330 U
1,2,4-TRICHLOROBENZENE	UG/KG	330 U
NAPHTHALENE	UG/KG	330 U
4-CHLORANILINE	UG/KG	330 U
HEXACHLOROBUTADIENE	UG/KG	330 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB20-00	6-201B-SB21-00	6-201B-SB22-00	6-201B-SB23-00	6-201B-SB24-00	6-201B-SB25-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/28/92	8/27/92	8/27/92
Lab Id:	00448-13	00448-15	00448-18	00453-12	00453-14	00452-31

Parameter	Units	
<u>SEMIVOLATILES Cont.</u>		
1-CHLORO-3-METHYLPHENOL		330 U
2-METHYLNAPHTHALENE	UG/KG	330 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	330 U
2,4,6-TRICHLOROPHENOL	UG/KG	330 U
2,4,5-TRICHLOROPHENOL	UG/KG	810 U
2-CHLORONAPHTHALENE	UG/KG	330 U
2-NITROANILINE	UG/KG	810 U
DIMETHYL PHTHALATE	UG/KG	330 U
ACENAPHTHYLENE	UG/KG	330 U
1,6-DINITROTOLUENE	UG/KG	330 U
2-NITROANILINE	UG/KG	810 U
ACENAPHTHENE	UG/KG	330 U
1,4-DINITROPHENOL	UG/KG	810 U
1-NITROPHENOL	UG/KG	810 U
DIBENZOFURAN	UG/KG	330 U
2,4-DINITROTOLUENE	UG/KG	330 U
DIETHYL PHTHALATE	UG/KG	330 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	330 U
FLUORENE	UG/KG	330 U
4-NITROANILINE	UG/KG	810 U
1,6-DINITRO-2-METHYLPHENOL	UG/KG	810 U
N-NITROSODIPHENYLAMINE	UG/KG	330 U
1-BROMOPHENYL PHENYL ETHER	UG/KG	330 U
HEXACHLOROBENZENE	UG/KG	330 U
PENTACHLOROPHENOL	UG/KG	810 U
PHENANTHRENE	UG/KG	330 U
ANTHRACENE	UG/KG	330 U
DI-N-BUTYL PHTHALATE	UG/KG	330 U
FLUORANTHENE	UG/KG	330 U
CARBAZOLE	UG/KG	330 U
PYRENE	UG/KG	330 U
BUTYL BENZYL PHTHALATE	UG/KG	330 U
3,3-DICHLOROBENZIDINE	UG/KG	330 U
BENZO(A)ANTHRACENE	UG/KG	330 U
CHRYSENE	UG/KG	330 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	310 J
DI-N-OCTYL PHTHALATE	UG/KG	330 U
BENZO(B)FLUORANTHENE	UG/KG	330 U
BENZO(K)FLUORANTHENE	UG/KG	330 U
BENZO(A)PYRENE	UG/KG	330 U
INDENO(1,2,3-CD) PYRENE	UG/KG	330 U
DIBENZ(A,H)ANTHRACENE	UG/KG	330 U
BENZO(G,H,I)PERYLENE	UG/KG	330 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB26-00	6-201B-SB27-00	6-201B-SB28-00	6-201B-SB29-00	6-201B-SB3-00	6-201B-SB30-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/28/92	8/27/92	8/26/92	8/27/92
Lab Id:	00453-16	00453-18	00453-20	00453-22	00446-07	00453-25

Parameter	Units	6-201B-SB26-00	6-201B-SB27-00	6-201B-SB28-00	6-201B-SB29-00	6-201B-SB3-00	6-201B-SB30-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
BETA-BHC	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
DELTA-BHC	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
HEPTACHLOR	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
ALDRIN	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
ENDOSULFAN I	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
DIELDRIN	UG/KG	3.6 U	36 U	3.5 U	3.4 UJ	3.3 U	3.7 U
4'-DDE	UG/KG	3.6 U	230	3.5 U	3.4 UJ	3.3 U	3.7 U
ENDRIN	UG/KG	3.6 U	36 U	3.5 U	3.4 UJ	3.3 U	3.7 U
ENDOSULFAN II	UG/KG	3.6 U	36 U	3.5 U	3.4 UJ	3.3 U	3.7 U
4'-DDD	UG/KG	3.6 U	17 J	3.5 U	3.4 UJ	9 J	3.7 U
ENDOSULFAN SULFATE	UG/KG	3.6 U	36 U	3.5 U	3.4 UJ	3.3 U	3.7 U
4'-DDT	UG/KG	3.6 U	210	3.5 U	5.5 UJ	19 J	3.7 U
METHOXYCHLOR	UG/KG	18 U	180 U	18 U	18 UJ	17 UJ	19 U
ENDRIN KETONE	UG/KG	3.6 U	36 U	3.5 U	3.4 UJ	3.3 U	3.7 U
ENDRIN ALDEHYDE	UG/KG	3.6 U	36 U	3.5 U	3.4 UJ	3.3 U	3.7 U
ALPHA CHLORDANE	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
GAMMA CHLORDANE	UG/KG	1.8 U	18 U	1.8 U	1.8 UJ	1.7 U	1.9 U
TOXAPHENE	UG/KG	180 U	1800 U	180 U	180 UJ	170 U	190 U
CB-1016	UG/KG	36 U	360 U	35 U	34 UJ		37 U
CB-1221	UG/KG	73 U	730 U	71 U	70 UJ		75 U
CB-1232	UG/KG	36 U	360 U	35 U	34 UJ		37 U
CB-1242	UG/KG	36 U	360 U	35 U	34 UJ		37 U
CB-1248	UG/KG	36 U	360 U	35 U	34 UJ		37 U
PCB-1254	UG/KG	36 U	360 U	35 U	34 UJ		37 U
PCB-1260	UG/KG	36 U	360 U	35 U	34 UJ		37 U

<u>VOLATILES</u>	
CHLOROMETHANE	UG/KG
BROMOMETHANE	UG/KG
VINYL CHLORIDE	UG/KG
CHLOROETHANE	UG/KG
METHYLENE CHLORIDE	UG/KG
ACETONE	UG/KG
CARBON DISULFIDE	UG/KG
1,1-DICHLOROETHENE	UG/KG
1,1-DICHLOROETHANE	UG/KG
1,2-DICHLOROETHENE	UG/KG
CHLOROFORM	UG/KG
1,2-DICHLOROETHANE	UG/KG
2-BUTANONE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB26-00	6-201B-SB27-00	6-201B-SB28-00	6-201B-SB29-00	6-201B-SB3-00	6-201B-SB30-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/28/92	8/27/92	8/26/92	8/27/92
Lab Id:	00453-16	00453-18	00453-20	00453-22	00446-07	00453-25

Parameter	Units
<u>VOLATILES Cont.</u>	
1,1,1-TRICHLOROETHANE	UG/KG
CARBON TETRACHLORIDE	UG/KG
BROMODICHLOROMETHANE	UG/KG
1,2-DICHLOROPROPANE	UG/KG
CIS-1,3-DICHLOROPROPENE	UG/KG
TRICHLOROETHENE	UG/KG
DIBROMOCHLOROMETHANE	UG/KG
1,1,2-TRICHLOROETHANE	UG/KG
BENZENE	UG/KG
TRANS-1,3-DICHLOROPROPENE	UG/KG
BROMOFORM	UG/KG
2-METHYL-2-PENTANONE	UG/KG
2-HEXANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROBENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG
<u>SEMIVOLATILES</u>	
PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
1-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB26-00	6-201B-SB27-00	6-201B-SB28-00	6-201B-SB29-00	6-201B-SB3-00	6-201B-SB30-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/28/92	8/27/92	8/26/92	8/27/92
Lab Id:	00453-16	00453-18	00453-20	00453-22	00446-07	00453-25

Parameter	Units
<u>SEMIVOLATILES Cont.</u>	
1-CHLORO-3-METHYLPHENOL	UG/KG
1-METHYLNAPHTHALENE	UG/KG
HEXACHLOROCYCLOPENTADIENE	UG/KG
1,4,6-TRICHLOROPHENOL	UG/KG
1,4,5-TRICHLOROPHENOL	UG/KG
1-CHLORONAPHTHALENE	UG/KG
1-NITROANILINE	UG/KG
DIMETHYL PHTHALATE	UG/KG
ACENAPHTHYLENE	UG/KG
1,6-DINITROTOLUENE	UG/KG
1-NITROANILINE	UG/KG
ACENAPHTHENE	UG/KG
1,4-DINITROPHENOL	UG/KG
1-NITROPHENOL	UG/KG
DIBENZOFURAN	UG/KG
1,4-DINITROTOLUENE	UG/KG
DIETHYL PHTHALATE	UG/KG
1-CHLOROPHENYL PHENYL ETHER	UG/KG
FLUORENE	UG/KG
1-NITROANILINE	UG/KG
1,6-DINITRO-2-METHYLPHENOL	UG/KG
N-NITRISODIPHENYLAMINE	UG/KG
1-BROMOPHENYL PHENYL ETHER	UG/KG
HEXACHLOROBENZENE	UG/KG
PENTACHLOROPHENOL	UG/KG
PHENANTHRENE	UG/KG
ANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(A,H)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB31-00	6-201B-SB32-00	6-201B-SB33-00	6-201B-SB34-00	6-201B-SB35-00	6-201B-SB36-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/28/92	8/27/92	8/27/92	8/27/92
Lab Id:	00453-27	00453-29	00452-33	00453-32	00453-34	00453-36

Parameter	Units	6-201B-SB31-00	6-201B-SB32-00	6-201B-SB33-00	6-201B-SB34-00	6-201B-SB35-00	6-201B-SB36-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
BETA-BHC	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
DELTA-BHC	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
HEPTACHLOR	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
ALDRIN	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
ENDOSULFAN I	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
DIELDRIN	UG/KG	3.5 U	3.5 UR	18 UJ	34 U	17 U	34 U
4'-DDE	UG/KG	5.2	4.9 J	110 J	170	370	200
ENDRIN	UG/KG	3.5 U	3.5 UR	18 UJ	34 U	17 U	34 U
ENDOSULFAN II	UG/KG	3.5 U	3.5 UR	18 UJ	34 U	17 U	34 U
4'-DDD	UG/KG	3.5 U	3.5 UR	18 UJ	34 U	21 J	18 J
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.5 UR	18 UJ	34 U	17 U	34 U
4'-DDT	UG/KG	5	6.6 J	130 J	230	800	190
METHOXYCHLOR	UG/KG	18 U	18 UR	91 UJ	180 U	88 U	170 U
ENDRIN KETONE	UG/KG	3.5 U	3.5 UR	18 UJ	34 U	17 U	34 U
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.5 UR	18 UJ	34 U	17 U	34 U
ALPHA CHLORDANE	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
GAMMA CHLORDANE	UG/KG	1.8 U	1.8 UR	9.1 UJ	18 U	8.8 U	17 U
FOXAPHENE	UG/KG	180 U	180 UR	910 UJ	1800 U	880 U	1700 U
PCB-1016	UG/KG	35 U	35 UR	180 UJ	340 U	170 U	340 U
PCB-1221	UG/KG	70 U	71 UR	360 UJ	690 U	350 U	690 U
PCB-1232	UG/KG	35 U	35 UR	180 UJ	340 U	170 U	340 U
PCB-1242	UG/KG	35 U	35 UR	180 UJ	340 U	170 U	340 U
PCB-1248	UG/KG	35 U	35 UR	180 UJ	340 U	170 U	340 U
PCB-1254	UG/KG	35 U	35 UR	180 UJ	340 U	170 U	340 U
PCB-1260	UG/KG	35 U	35 UR	180 UJ	340 U	170 U	340 U

VOLATILES

CHLOROMETHANE	UG/KG			11 U			
BROMOMETHANE	UG/KG			11 U			
VINYL CHLORIDE	UG/KG			11 U			
CHLOROETHANE	UG/KG			11 U			
METHYLENE CHLORIDE	UG/KG			11 U			
ACETONE	UG/KG			37 J			
CARBON DISULFIDE	UG/KG			11 U			
1,1-DICHLOROETHENE	UG/KG			11 U			
1,1-DICHLOROETHANE	UG/KG			11 U			
1,2-DICHLOROETHENE	UG/KG			11 U			
CHLOROFORM	UG/KG			11 U			
1,2-DICHLOROETHANE	UG/KG			11 U			
2-BUTANONE	UG/KG			11 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB31-00	6-201B-SB32-00	6-201B-SB33-00	6-201B-SB34-00	6-201B-SB35-00	6-201B-SB36-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/28/92	8/27/92	8/27/92	8/27/92
Lab Id:	00453-27	00453-29	00452-33	00453-32	00453-34	00453-36

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-TRICHLOROETHANE	UG/KG			11 U		
CARBON TETRACHLORIDE	UG/KG			11 U		
BROMODICHLOROMETHANE	UG/KG			11 U		
1,2-DICHLOROPROPANE	UG/KG			11 U		
CIS-1,3-DICHLOROPROPENE	UG/KG			11 U		
TRICHLOROETHENE	UG/KG			11 U		
DIBROMOCHLOROMETHANE	UG/KG			11 U		
1,1,2-TRICHLOROETHANE	UG/KG			11 U		
BENZENE	UG/KG			11 U		
TRANS-1,3-DICHLOROPROPENE	UG/KG			11 U		
BROMOFORM	UG/KG			11 U		
2-METHYL-2-PENTANONE	UG/KG			11 U		
2-HEXANONE	UG/KG			11 U		
TETRACHLOROETHENE	UG/KG			11 U		
1,1,2,2-TETRACHLOROETHANE	UG/KG			11 U		
TOLUENE	UG/KG			11 U		
CHLOROBENZENE	UG/KG			11 U		
ETHYLBENZENE	UG/KG			11 U		
STYRENE	UG/KG			11 U		
TOTAL XYLENES	UG/KG			11 U		
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG			350 U		
BIS(2-CHLOROETHYL) ETHER	UG/KG			350 U		
2-CHLOROPHENOL	UG/KG			350 U		
1,3-DICHLOROBENZENE	UG/KG			350 U		
1,4-DICHLOROBENZENE	UG/KG			350 U		
1,2-DICHLOROBENZENE	UG/KG			350 U		
2-METHYLPHENOL	UG/KG			350 U		
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG			350 U		
4-METHYLPHENOL	UG/KG			350 U		
N-NITROSODI-N-PROPYLAMINE	UG/KG			350 U		
HEXACHLOROETHANE	UG/KG			350 U		
NITROBENZENE	UG/KG			350 U		
ISOPHORONE	UG/KG			350 U		
2-NITROPHENOL	UG/KG			350 U		
2,4-DIMETHYLPHENOL	UG/KG			350 U		
BIS(2-CHLOROETHOXY) METHANE	UG/KG			350 U		
2,4-DICHLOROPHENOL	UG/KG			350 U		
1,2,4-TRICHLOROBENZENE	UG/KG			350 U		
NAPHTHALENE	UG/KG			350 U		
4-CHLORANILINE	UG/KG			350 U		
HEXACHLOROBUTADIENE	UG/KG			350 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB31-00	6-201B-SB32-00	6-201B-SB33-00	6-201B-SB34-00	6-201B-SB35-00	6-201B-SB36-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/28/92	8/27/92	8/27/92	8/27/92
Lab Id:	00453-27	00453-29	00452-33	00453-32	00453-34	00453-36

Parameter	Units	
<u>SEMIVOLATILES Cont.</u>		
-CHLORO-3-METHYLPHENOL		350 U
-METHYLNAPHTHALENE	UG/KG	350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U
4,6-TRICHLOROPHENOL	UG/KG	350 U
4,5-TRICHLOROPHENOL	UG/KG	850 U
-CHLORONAPHTHALENE	UG/KG	350 U
-NITROANILINE	UG/KG	850 U
1-METHYL PHTHALATE	UG/KG	350 U
1-CENAPHTHYLENE	UG/KG	350 U
2,6-DINITROTOLUENE	UG/KG	350 U
-NITROANILINE	UG/KG	850 U
1-CENAPHTHENE	UG/KG	350 U
4-DINITROPHENOL	UG/KG	850 U
-NITROPHENOL	UG/KG	850 U
1-BENZOFURAN	UG/KG	350 U
4-DINITROTOLUENE	UG/KG	350 U
1-METHYL PHTHALATE	UG/KG	350 U
-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U
FLUORENE	UG/KG	350 U
-NITROANILINE	UG/KG	850 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG	850 U
1-NITRIDIPHENYLAMINE	UG/KG	350 U
-BROMOPHENYL PHENYL ETHER	UG/KG	350 U
HEXACHLOROBENZENE	UG/KG	350 U
1-HEPTACHLOROPHENOL	UG/KG	850 U
PHENANTHRENE	UG/KG	350 U
ANTHRACENE	UG/KG	350 U
DI-N-BUTYL PHTHALATE	UG/KG	350 U
FLUORANTHENE	UG/KG	43 J
CARBAZOLE	UG/KG	350 U
PYRENE	UG/KG	38 J
BUTYL BENZYL PHTHALATE	UG/KG	350 U
3,3-DICHLOROBENZIDINE	UG/KG	350 U
BENZO(A)ANTHRACENE	UG/KG	350 U
CHRYSENE	UG/KG	39 J
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	100 J
DI-N-OCTYL PHTHALATE	UG/KG	350 U
BENZO(B)FLUORANTHENE	UG/KG	61 J
BENZO(K)FLUORANTHENE	UG/KG	350 U
BENZO(A)PYRENE	UG/KG	350 U
INDENO(1,2,3-CD) PYRENE	UG/KG	350 U
DIBENZ(A,H)ANTHRACENE	UG/KG	350 U
BENZO(G,H,I)PERYLENE	UG/KG	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB37-00	6-201B-SB4-00	6-201B-SB5-00	6-201B-SB6-00	6-201B-SB7-00	6-201B-SB7A-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/31/92	8/27/92	8/27/92	8/28/92	8/26/92
Lab Id:	00452-36	00463-01	00446-10	00446-12	00452-22	00547-01

Parameter	Units	6-201B-SB37-00	6-201B-SB4-00	6-201B-SB5-00	6-201B-SB6-00	6-201B-SB7-00	6-201B-SB7A-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
BETA-BHC	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
DELTA-BHC	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
HEPTACHLOR	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
ALDRIN	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
ENDOSULFAN I	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
DIELDRIN	UG/KG	3.6 UJ	3.6 UJ	18 U	3.4 U		36 U
4'-DDE	UG/KG	3.6 UJ	3.6 UJ	18 U	3.4 U		140
ENDRIN	UG/KG	3.6 UJ	3.6 UJ	18 U	3.4 U		36 U
ENDOSULFAN II	UG/KG	3.6 UJ	3.6 UJ	18 U	3.4 U		36 U
4'-DDD	UG/KG	3.6 UJ	3.6 UJ	20 J	0.98 J		36 U
ENDOSULFAN SULFATE	UG/KG	3.6 UJ	3.6 UJ	18 U	3.4 U		36 U
4'-DDT	UG/KG	3.6 UJ	3.6 UJ	98 J	3 J		62 J
METHOXYCHLOR	UG/KG	18 UJ	19 UJ	91 U	17 U		190 U
ENDRIN KETONE	UG/KG	3.6 UJ	3.6 UJ	18 U	3.4 U		36 U
ENDRIN ALDEHYDE	UG/KG	3.6 UJ	3.6 UJ	18 U	3.4 U		36 U
ALPHA CHLORDANE	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
GAMMA CHLORDANE	UG/KG	1.8 UJ	1.9 UJ	9.1 U	1.7 U		19 U
TOXAPHENE	UG/KG	180 UJ	190 UJ	910 U	170 U		1900 U
PCB-1016	UG/KG	36 UJ	36 UJ				
PCB-1221	UG/KG	73 UJ	73 UJ				
PCB-1232	UG/KG	36 UJ	36 UJ				
PCB-1242	UG/KG	36 UJ	36 UJ				
PCB-1248	UG/KG	36 UJ	36 UJ				
PCB-1254	UG/KG	36 UJ	36 UJ				
PCB-1260	UG/KG	36 UJ	36 UJ				

<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U				11 U	
BROMOMETHANE	UG/KG	11 U				11 U	
VINYL CHLORIDE	UG/KG	11 U				11 U	
CHLOROETHANE	UG/KG	11 U				11 U	
METHYLENE CHLORIDE	UG/KG	11 U				11 U	
ACETONE	UG/KG	26 J				7 J	
CARBON DISULFIDE	UG/KG	11 U				11 U	
1,1-DICHLOROETHENE	UG/KG	11 U				11 U	
1,1-DICHLOROETHANE	UG/KG	11 U				11 U	
1,2-DICHLOROETHENE	UG/KG	11 U				11 U	
CHLOROFORM	UG/KG	11 U				11 U	
1,2-DICHLOROETHANE	UG/KG	11 U				11 U	
2-BUTANONE	UG/KG	11 U				11 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB37-00	6-201B-SB4-00	6-201B-SB5-00	6-201B-SB6-00	6-201B-SB7-00	6-201B-SB7A-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/31/92	8/27/92	8/27/92	8/28/92	8/26/92
Lab Id:	00452-36	00463-01	00446-10	00446-12	00452-22	00347-01

Parameter	Units	
<u>VOLATILES Cont.</u>		
1,1-TRICHLOROETHANE	UG/KG	11 U
CARBON TETRACHLORIDE	UG/KG	11 U
BROMODICHLOROMETHANE	UG/KG	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U
1,3-DICHLOROPROPENE	UG/KG	11 U
TRICHLOROETHENE	UG/KG	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U
BENZENE	UG/KG	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U
BROMOFORM	UG/KG	11 U
2-METHYL-2-PENTANONE	UG/KG	11 U
HEXANONE	UG/KG	11 U
TETRACHLOROETHENE	UG/KG	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U
TOLUENE	UG/KG	11 U
CHLOROBENZENE	UG/KG	11 U
ETHYLBENZENE	UG/KG	11 U
STYRENE	UG/KG	11 U
TOTAL XYLENES	UG/KG	11 U
<u>SEMIVOLATILES</u>		
BENOL	UG/KG	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U
1-CHLOROPHENOL	UG/KG	350 U
1,3-DICHLOROBENZENE	UG/KG	350 U
1,4-DICHLOROBENZENE	UG/KG	350 U
1,2-DICHLOROBENZENE	UG/KG	350 U
2-METHYLPHENOL	UG/KG	350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U
4-METHYLPHENOL	UG/KG	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U
HEXACHLOROETHANE	UG/KG	350 U
NITROBENZENE	UG/KG	350 U
ISOPHORONE	UG/KG	350 U
2-NITROPHENOL	UG/KG	350 U
2,4-DIMETHYLPHENOL	UG/KG	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U
2,4-DICHLOROPHENOL	UG/KG	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U
NAPHTHALENE	UG/KG	350 U
4-CHLORANILINE	UG/KG	350 U
HEXACHLOROBUTADIENE	UG/KG	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB37-00	6-201B-SB4-00	6-201B-SB5-00	6-201B-SB6-00	6-201B-SB7-00	6-201B-SB7A-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/31/92	8/27/92	8/27/92	8/28/92	8/26/92
Lab Id:	00432-36	00463-01	00446-10	00446-12	00452-22	00547-01

Parameter	Units	
<u>SEMIVOLATILES Cont.</u>		
-CHLORO-3-METHYLPHENOL		350 U
-METHYLNAPHTHALENE	UG/KG	350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 U
2,4,5-TRICHLOROPHENOL	UG/KG	860 U
-CHLORONAPHTHALENE	UG/KG	350 U
-NITROANILINE	UG/KG	860 U
1-METHYL PHTHALATE	UG/KG	350 U
1-CENAPHTHYLENE	UG/KG	350 U
2,6-DINITROTOLUENE	UG/KG	350 U
-NITROANILINE	UG/KG	860 U
1-CENAPHTHENE	UG/KG	350 U
2,4-DINITROPHENOL	UG/KG	860 U
-NITROPHENOL	UG/KG	860 U
1-BENZOFURAN	UG/KG	350 U
2,4-DINITROTOLUENE	UG/KG	350 U
1,2-DIETHYL PHTHALATE	UG/KG	350 U
-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U
1-FLUORENE	UG/KG	350 U
-NITROANILINE	UG/KG	860 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG	860 U
1-NITRISODIPHENYLAMINE	UG/KG	350 U
-BROMOPHENYL PHENYL ETHER	UG/KG	350 UJ
HEXACHLOROBENZENE	UG/KG	350 UJ
1,2-DICHLOROPHENOL	UG/KG	860 U
1-PHENANTHRENE	UG/KG	350 U
1-ANTHRACENE	UG/KG	350 U
DI-N-BUTYL PHTHALATE	UG/KG	350 U
1-FLUORANTHENE	UG/KG	350 U
1-CARBAZOLE	UG/KG	350 U
1-PYRENE	UG/KG	350 U
1-BUTYL BENZYL PHTHALATE	UG/KG	350 U
3,3-DICHLOROBENZIDINE	UG/KG	350 U
1-BENZO(A)ANTHRACENE	UG/KG	350 U
1-CHRYSENE	UG/KG	350 U
1-BIS(2-ETHYLIHEXYL)PHTHALATE	UG/KG	180 J
1,2-DI-N-OCTYL PHTHALATE	UG/KG	350 U
1-BENZO(B)FLUORANTHENE	UG/KG	350 U
1-BENZO(K)FLUORANTHENE	UG/KG	350 U
1-BENZO(A)PYRENE	UG/KG	350 U
1-INDENO(1,2,3-CD) PYRENE	UG/KG	350 U
1-DIBENZ(A,H)ANTHRACENE	UG/KG	350 U
1-BENZO(G,H,I)PERYLENE	UG/KG	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB8-00	6-201B-SB9-00	6-201C-SB09-00	6-201C-SB1-00	6-201C-SB10-00	6-201C-SB11-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/30/92	8/31/92	8/30/92	8/29/92
Lab Id:	00452-24	00452-27	00465-01	00463-08	00465-03	00457-07

Parameter	Units	6-201B-SB8-00	6-201B-SB9-00	6-201C-SB09-00	6-201C-SB1-00	6-201C-SB10-00	6-201C-SB11-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG		1.9 UJ				
BETA-BHC	UG/KG		1.9 UJ				
DELTA-BHC	UG/KG		1.9 UJ				
GAMMA-BHC(LINDANE)	UG/KG		1.9 UJ				
HEPTACHLOR	UG/KG		1.9 UJ				
ALDRIN	UG/KG		1.9 UJ				
HEPTACHLOR EPOXIDE	UG/KG		1.9 UJ				
ENDOSULFAN I	UG/KG		1.9 UJ				
DIELDRIN	UG/KG		3.7 UJ				
4'-DDE	UG/KG		3.7 UJ				
DENDRIN	UG/KG		3.7 UJ				
ENDOSULFAN II	UG/KG		3.7 UJ				
4'-DDD	UG/KG		3.7 UJ				
ENDOSULFAN SULFATE	UG/KG		3.7 UJ				
4'-DDT	UG/KG		3.7 UJ				
METHOXYCHLOR	UG/KG		19 UJ				
DENDRIN KETONE	UG/KG		3.7 UJ				
DENDRIN ALDEHYDE	UG/KG		3.7 UJ				
ALPHA CHLORDANE	UG/KG		1.9 UJ				
GAMMA CHLORDANE	UG/KG		1.9 UJ				
TOXAPHENE	UG/KG		190 UJ				
CB-1016	UG/KG			36 UJ	36 U	34 U	40 U
CB-1221	UG/KG			73 UJ	74 U	69 U	80 U
CB-1232	UG/KG			36 UJ	36 U	34 U	40 U
CB-1242	UG/KG			36 UJ	36 U	34 U	40 U
CB-1248	UG/KG			36 UJ	36 U	34 U	40 U
PCB-1254	UG/KG			36 UJ	36 U	34 U	40 U
PCB-1260	UG/KG			36 UJ	36 U	34 U	40 U

<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG		11 U				
BROMOMETHANE	UG/KG		11 U				
VINYL CHLORIDE	UG/KG		11 U				
CHLOROETHANE	UG/KG		11 U				
METHYLENE CHLORIDE	UG/KG		4 J				
ACETONE	UG/KG		11 UJ				
CARBON DISULFIDE	UG/KG		11 U				
1,1-DICHLOROETHENE	UG/KG		11 U				
1,1-DICHLOROETHANE	UG/KG		11 U				
1,2-DICHLOROETHENE	UG/KG		11 U				
CHLOROFORM	UG/KG		11 U				
1,2-DICHLOROETHANE	UG/KG		11 U				
2-BUTANONE	UG/KG		11 U				

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No:	6-201B-SB8-00	6-201B-SB9-00	6-201C-SB09-00	6-201C-SB1-00	6-201C-SB10-00	6-201C-SB11-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/28/92	8/28/92	8/30/92	8/31/92	8/30/92	8/29/92
	Lab Id:	00452-24	00452-27	00465-01	00463-08	00465-03	00457-07
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1-TRICHLOROETHANE	UG/KG	11 U					
CARBON TETRACHLORIDE	UG/KG	11 U					
BROMODICHLOROMETHANE	UG/KG	11 U					
1,2-DICHLOROPROPANE	UG/KG	11 U					
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U					
TRICHLOROETHENE	UG/KG	11 U					
DIBROMOCHLOROMETHANE	UG/KG	11 U					
1,1,2-TRICHLOROETHANE	UG/KG	11 U					
BENZENE	UG/KG	11 U					
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U					
BROMOFORM	UG/KG	11 U					
2-METHYL-2-PENTANONE	UG/KG	11 U					
HEXANONE	UG/KG	11 U					
TETRACHLOROETHENE	UG/KG	11 U					
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U					
TOLUENE	UG/KG	11 U					
CHLOROBENZENE	UG/KG	11 U					
ETHYLBENZENE	UG/KG	11 U					
STYRENE	UG/KG	11 U					
TOTAL XYLENES	UG/KG	11 U					
<u>SEMIVOLATILES</u>							
BENZENOL	UG/KG						
BIS(2-CHLOROETHYL) ETHER	UG/KG						
1-CHLOROPHENOL	UG/KG						
1,3-DICHLOROBENZENE	UG/KG						
1,4-DICHLOROBENZENE	UG/KG						
1,2-DICHLOROBENZENE	UG/KG						
2-METHYLPHENOL	UG/KG						
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						
4-METHYLPHENOL	UG/KG						
N-NITROSODI-N-PROPYLAMINE	UG/KG						
HEXACHLOROETHANE	UG/KG						
NITROBENZENE	UG/KG						
ISOPHORONE	UG/KG						
2-NITROPHENOL	UG/KG						
2,4-DIMETHYLPHENOL	UG/KG						
BIS(2-CHLOROETHOXY) METHANE	UG/KG						
2,4-DICHLOROPHENOL	UG/KG						
1,2,4-TRICHLOROBENZENE	UG/KG						
NAPHTHALENE	UG/KG						
4-CHLORANILINE	UG/KG						
HEXACHLOROBUTADIENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB8-00	6-201B-SB9-00	6-201C-SB09-00	6-201C-SB1-00	6-201C-SB10-00	6-201C-SB11-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/30/92	8/31/92	8/30/92	8/29/92
Lab Id:	00452-24	00452-27	00465-01	00463-08	00465-03	00457-07

Parameter	Units
<u>SEMIVOLATILES Cont.</u>	
1-CHLORO-3-METHYLPHENOL	UG/KG
2-METHYLNAPHTHALENE	UG/KG
HEXACHLOROCYCLOPENTADIENE	UG/KG
1,4,6-TRICHLOROPHENOL	UG/KG
1,4,5-TRICHLOROPHENOL	UG/KG
1-CHLORONAPHTHALENE	UG/KG
1-NITROANILINE	UG/KG
DIMETHYL PHTHALATE	UG/KG
ACENAPHTHYLENE	UG/KG
1,6-DINITROTOLUENE	UG/KG
1-NITROANILINE	UG/KG
ACENAPHTHENE	UG/KG
1,4-DINITROPHENOL	UG/KG
1-NITROPHENOL	UG/KG
DIBENZOFURAN	UG/KG
1,4-DINITROTOLUENE	UG/KG
DIETHYL PHTHALATE	UG/KG
1-CHLOROPHENYL PHENYL ETHER	UG/KG
FLUORENE	UG/KG
1-NITROANILINE	UG/KG
1,6-DINITRO-2-METHYLPHENOL	UG/KG
N-NITRISODIPHENYLAMINE	UG/KG
1-BROMOPHENYL PHENYL ETHER	UG/KG
HEXACHLOROBENZENE	UG/KG
PENTACHLOROPHENOL	UG/KG
PHENANTHRENE	UG/KG
ANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(AH)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB12-00	6-201C-SB13-00	6-201C-SB14-00	6-201C-SB15-00	6-201C-SB16-00	6-201C-SB17-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/31/92	8/28/92	8/28/92	8/28/92	8/29/92
Lab Id:	00465-05	00474-01	00456-05	00456-07	00456-10	00457-09

Parameter	Units	6-201C-SB12-00	6-201C-SB13-00	6-201C-SB14-00	6-201C-SB15-00	6-201C-SB16-00	6-201C-SB17-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
BETA-BHC	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
DELTA-BHC	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
HEPTACHLOR	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
ALDRIN	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
ENDOSULFAN I	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
DIELDRIN	UG/KG		3.5 U	3.4 U	3.5 U	3.4 U	3.4 U
4'-DDE	UG/KG		3.5 U	3.4 U	3.5 U	3.4 U	3.4 U
ENDRIN	UG/KG		3.5 U	3.4 U	3.5 U	3.4 U	3.4 U
ENDOSULFAN II	UG/KG		3.5 U	3.4 U	3.5 U	3.4 U	3.4 U
4'-DDD	UG/KG		3.5 U	4.8	3.5 U	3.4 U	3.4 U
ENDOSULFAN SULFATE	UG/KG		3.5 U	3.4 U	3.5 U	3.4 U	3.4 U
4'-DDT	UG/KG		3.5 U	12 J	3.5 U	3.4 U	3.4 U
METHOXYCHLOR	UG/KG		18 U	18 U	18 U	17 U	18 U
ENDRIN KETONE	UG/KG		3.5 U	3.4 U	3.5 U	3.4 U	3.4 U
ENDRIN ALDEHYDE	UG/KG		3.5 U	3.4 U	3.5 U	3.4 U	3.4 U
ALPHA CHLORDANE	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
GAMMA CHLORDANE	UG/KG		1.8 U	1.8 U	1.8 U	1.7 U	1.8 U
TOXAPHENE	UG/KG		180 U	180 U	180 U	170 U	180 U
PCB-1016	UG/KG	34 UJ	35 U	34 U	35 U	34 U	34 U
PCB-1221	UG/KG	68 UJ	70 U	70 U	71 U	68 U	69 U
PCB-1232	UG/KG	34 UJ	35 U	34 U	35 U	34 U	34 U
PCB-1242	UG/KG	34 UJ	35 U	34 U	35 U	34 U	34 U
PCB-1248	UG/KG	34 UJ	35 U	34 U	35 U	34 U	34 U
PCB-1254	UG/KG	34 UJ	35 U	34 U	35 U	34 U	34 U
PCB-1260	UG/KG	34 UJ	35 U	34 U	35 U	34 U	34 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG		11 U				10 U
BROMOMETHANE	UG/KG		11 U				10 U
VINYL CHLORIDE	UG/KG		11 UJ				10 U
CHLOROETHANE	UG/KG		11 U				10 U
METHYLENE CHLORIDE	UG/KG		11 U				10 U
ACETONE	UG/KG		11 U				10 U
CARBON DISULFIDE	UG/KG		11 U				10 U
1,1-DICHLOROETHENE	UG/KG		11 UJ				10 U
1,1-DICHLOROETHANE	UG/KG		11 U				10 U
1,2-DICHLOROETHENE	UG/KG		11 U				10 U
CHLOROFORM	UG/KG		11 U				10 U
1,2-DICHLOROETHANE	UG/KG		11 U				10 U
2-BUTANONE	UG/KG		11 U				10 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB12-00	6-201C-SB13-00	6-201C-SB14-00	6-201C-SB15-00	6-201C-SB16-00	6-201C-SB17-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/31/92	8/28/92	8/28/92	8/28/92	8/29/92
Lab Id:	00465-05	00474-01	00456-05	00456-07	00456-10	00457-09

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG		11 U			10 U
CARBON TETRACHLORIDE	UG/KG		11 U			10 U
BROMODICHLOROMETHANE	UG/KG		11 U			10 U
1,2-DICHLOROPROPANE	UG/KG		11 U			10 U
CIS-1,3-DICHLOROPROPENE	UG/KG		11 U			10 U
TRICHLOROETHENE	UG/KG		11 U			10 U
DIBROMOCHLOROMETHANE	UG/KG		11 U			10 U
1,1,2-TRICHLOROETHANE	UG/KG		11 U			10 U
BENZENE	UG/KG		11 U			10 U
TRANS-1,3-DICHLOROPROPENE	UG/KG		11 U			10 U
BROMOFORM	UG/KG		11 U			10 U
-METHYL-2-PENTANONE	UG/KG		11 U			10 U
-HEXANONE	UG/KG		11 U			10 U
TETRACHLOROETHENE	UG/KG		11 U			10 U
1,1,2,2-TETRACHLOROETHANE	UG/KG		11 U			10 U
TOLUENE	UG/KG		11 U			10 U
CHLOROBENZENE	UG/KG		11 U			10 U
ETHYLBENZENE	UG/KG		11 U			10 U
STYRENE	UG/KG		11 U			10 U
TOTAL XYLENES	UG/KG		11 U			10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG		350 UJ			340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG		350 UJ			340 U
1-CHLOROPHENOL	UG/KG		350 U			340 U
1,3-DICHLOROBENZENE	UG/KG		350 U			340 U
1,4-DICHLOROBENZENE	UG/KG		350 U			340 U
1,2-DICHLOROBENZENE	UG/KG		350 U			340 U
2-METHYLPHENOL	UG/KG		350 U			340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG		350 U			340 U
4-METHYLPHENOL	UG/KG		350 U			340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG		350 UJ			340 U
HEXACHLOROETHANE	UG/KG		350 U			340 U
NITROBENZENE	UG/KG		350 U			340 U
ISOPHORONE	UG/KG		350 U			340 U
2-NITROPHENOL	UG/KG		350 U			340 U
2,4-DIMETHYLPHENOL	UG/KG		350 U			340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG		350 UJ			340 U
2,4-DICHLOROPHENOL	UG/KG		350 U			340 U
1,2,4-TRICHLOROBENZENE	UG/KG		350 U			340 U
NAPHTHALENE	UG/KG		350 U			340 U
4-CHLORANILINE	UG/KG		350 U			340 U
HEXACHLOROBUTADIENE	UG/KG		350 U			340 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB12-00	6-201C-SB13-00	6-201C-SB14-00	6-201C-SB15-00	6-201C-SB16-00	6-201C-SB17-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/31/92	8/28/92	8/28/92	8/28/92	8/29/92
Lab Id:	00465-05	00474-01	00456-05	00456-07	00456-10	00457-09

Parameter	Units					
SEMIVOLATILES Cont.						
-CHLORO-3-METHYLPHENOL			350 U			340 U
-METHYLNAPHTHALENE	UG/KG		350 U			340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG		350 U			340 U
2,4,6-TRICHLOROPHENOL	UG/KG		350 U			340 U
2,4,5-TRICHLOROPHENOL	UG/KG		850 U			830 U
-CHLORONAPHTHALENE	UG/KG		350 U			340 U
-NITROANILINE	UG/KG		850 U			830 U
DI-METHYL PHTHALATE	UG/KG		350 U			340 U
1,2-DICHLOROBENZENE	UG/KG		350 U			340 U
2,6-DINITROTOLUENE	UG/KG		350 U			340 U
-NITROANILINE	UG/KG		850 U			830 U
1,2-DICHLOROBENZENE	UG/KG		350 U			340 U
4-DINITROPHENOL	UG/KG		850 U			830 U
-NITROPHENOL	UG/KG		850 U			830 U
2-BENZOFURAN	UG/KG		350 U			340 U
4-DINITROTOLUENE	UG/KG		350 U			340 U
DIETHYL PHTHALATE	UG/KG		350 U			340 U
-CHLOROPHENYL PHENYL ETHER	UG/KG		350 U			340 U
FLUORENE	UG/KG		350 U			340 U
-NITROANILINE	UG/KG		850 U			830 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG		850 U			830 U
1-NITRODIPHENYLAMINE	UG/KG		350 U			340 U
-BROMOPHENYL PHENYL ETHER	UG/KG		350 U			340 U
HEXACHLOROBENZENE	UG/KG		350 U			340 U
2,4,6-TRICHLOROPHENOL	UG/KG		850 U			830 U
1-PHENANTHRENE	UG/KG		350 U			340 U
ANTHRACENE	UG/KG		350 U			340 U
DI-N-BUTYL PHTHALATE	UG/KG		350 U			340 U
FLUORANTHENE	UG/KG		350 U			340 U
CARBAZOLE	UG/KG		350 U			340 U
PYRENE	UG/KG		350 U			340 U
BUTYL BENZYL PHTHALATE	UG/KG		350 U			340 U
3,3-DICHLOROBENZIDINE	UG/KG		350 U			340 U
BENZO(A)ANTHRACENE	UG/KG		350 U			340 U
CHRYSENE	UG/KG		350 U			340 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG		350 U			340 U
DI-N-OCTYL PHTHALATE	UG/KG		350 U			340 U
BENZO(B)FLUORANTHENE	UG/KG		350 U			340 U
BENZO(K)FLUORANTHENE	UG/KG		350 U			340 U
BENZO(A)PYRENE	UG/KG		350 U			340 U
INDENO(1,2,3-CD) PYRENE	UG/KG		350 U			340 U
DIBENZ(A,H)ANTHRACENE	UG/KG		350 U			340 U
BENZO(G,H,I)PERYLENE	UG/KG		350 U			340 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB18-00	6-201C-SB19-00	6-201C-SB2-00	6-201C-SB20-00	6-201C-SB21-00	6-201C-SB22-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92
Lab Id:	00475-01	00456-12	00457-01	00456-14	00456-16	00456-18

Parameter	Units	6-201C-SB18-00	6-201C-SB19-00	6-201C-SB2-00	6-201C-SB20-00	6-201C-SB21-00	6-201C-SB22-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
BETA-BHC	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
DELTA-BHC	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
GAMMA-BHC(LINDANE)	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
HEPTACHLOR	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
ALDRIN	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
HEPTACHLOR EPOXIDE	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
ENDOSULFAN I	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
DELDRIN	UG/KG		3.5 UJ		3.4 U	3.4 U	3.4 UJ
4'-DDE	UG/KG		3.5 UJ		3.4 U	15	3.4 UJ
ENDRIN	UG/KG		3.5 UJ		3.4 U	3.4 U	3.4 UJ
ENDOSULFAN II	UG/KG		3.5 UJ		3.4 U	3.4 U	3.4 UJ
4'-DDD	UG/KG		3.5 UJ		3.4 U	3.4 U	3.4 UJ
ENDOSULFAN SULFATE	UG/KG		3.5 UJ		3.4 U	3.4 U	3.4 UJ
4'-DDT	UG/KG		3.5 UJ		3.4 U	31	3.4 UJ
METHOXYCHLOR	UG/KG		18 UJ		18 U	17 U	17 UJ
ENDRIN KETONE	UG/KG		3.5 UJ		3.4 U	3.4 U	3.4 UJ
ENDRIN ALDEHYDE	UG/KG		3.5 UJ		3.4 U	3.4 U	3.4 UJ
ALPHA CHLORDANE	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
GAMMA CHLORDANE	UG/KG		1.8 UJ		1.8 U	1.7 U	1.7 UJ
TOXAPHENE	UG/KG		180 UJ		180 U	170 U	170 UJ
PCB-1016	UG/KG	37 U	35 UJ	35 U	34 U	34 U	34 UJ
PCB-1221	UG/KG	75 U	72 UJ	71 U	69 U	69 U	69 UJ
PCB-1232	UG/KG	37 U	35 UJ	35 U	34 U	34 U	34 UJ
PCB-1242	UG/KG	37 U	35 UJ	35 U	34 U	34 U	34 UJ
PCB-1248	UG/KG	37 U	35 UJ	35 U	34 U	34 U	34 UJ
PCB-1254	UG/KG	37 U	35 UJ	35 U	34 U	34 U	34 UJ
PCB-1260	UG/KG	37 U	35 UJ	35 U	34 U	34 U	34 UJ

<u>VOLATILES</u>	
CHLOROMETHANE	UG/KG
BROMOMETHANE	UG/KG
VINYL CHLORIDE	UG/KG
CHLOROETHANE	UG/KG
METHYLENE CHLORIDE	UG/KG
ACETONE	UG/KG
CARBON DISULFIDE	UG/KG
1,1-DICHLOROETHENE	UG/KG
1,1-DICHLOROETHANE	UG/KG
1,2-DICHLOROETHENE	UG/KG
CHLOROFORM	UG/KG
1,2-DICHLOROETHANE	UG/KG
2-BUTANONE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB18-00	6-201C-SB19-00	6-201C-SB2-00	6-201C-SB20-00	6-201C-SB21-00	6-201C-SB22-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92
Lab Id:	00475-01	00456-12	00457-01	00456-14	00456-16	00456-18

Parameter	Units
<u>VOLATILES Cont.</u>	
1,1-TRICHLOROETHANE	UG/KG
CARBON TETRACHLORIDE	UG/KG
BROMODICHLOROMETHANE	UG/KG
1,2-DICHLOROPROPANE	UG/KG
CIS-1,3-DICHLOROPROPENE	UG/KG
TRICHLOROETHENE	UG/KG
1,1-DIBROMOCHLOROMETHANE	UG/KG
1,1,1-TRICHLOROETHANE	UG/KG
BENZENE	UG/KG
TRANS-1,3-DICHLOROPROPENE	UG/KG
FORMALDEHYDE	UG/KG
2-METHYL-2-PENTANONE	UG/KG
2-HEXANONE	UG/KG
1,1-DIBROMOETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
STOLUENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG
<u>SEMIVOLATILES</u>	
1-PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
2-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB18-00	6-201C-SB19-00	6-201C-SB2-00	6-201C-SB20-00	6-201C-SB21-00	6-201C-SB22-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92
Lab Id:	00475-01	00456-12	00457-01	00456-14	00456-16	00456-18

Parameter

Units

SEMIVOLATILES Cont.

-CHLORO-3-METHYLPHENOL	UG/KG
-METHYLNAPHTHALENE	UG/KG
HEXACHLOROCYCLOPENTADIENE	UG/KG
4,6-TRICHLOROPHENOL	UG/KG
4,3-TRICHLOROPHENOL	UG/KG
-CHLORONAPHTHALENE	UG/KG
-NITROANILINE	UG/KG
1,2-DIMETHYL PHTHALATE	UG/KG
1,2-DICENAPHTHYLENE	UG/KG
1,4-DINITROTOLUENE	UG/KG
-NITROANILINE	UG/KG
1,2-DICENAPHTHENE	UG/KG
1,4-DINITROPHENOL	UG/KG
-NITROPHENOL	UG/KG
1,2-DIBENZOFURAN	UG/KG
1,4-DINITROTOLUENE	UG/KG
1,2-DIETHYL PHTHALATE	UG/KG
-CHLOROPHENYL PHENYL ETHER	UG/KG
1,2-DIFLUORENE	UG/KG
-NITROANILINE	UG/KG
1,6-DINITRO-2-METHYLPHENOL	UG/KG
1,4-DINITRISODIPHENYLAMINE	UG/KG
-BROMOPHENYL PHENYL ETHER	UG/KG
1,2,4,5-TETRAHALOGENOBENZENE	UG/KG
1,2,4,5-TETRACHLOROPHENOL	UG/KG
1,2,3,4-TETRAHENANTHRENE	UG/KG
1,2,3,4-TETRAANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(A,H)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB23-00	6-201C-SB24-00	6-201C-SB25-00	6-201C-SB26-00	6-201C-SB27-00	6-201C-SB28-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	9/01/92
Lab Id:	00475-04	00456-21	00457-12	00456-23	00456-25	00475-06

Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
BETA-BHC	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
DELTA-BHC	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
HEPTACHLOR	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
ALDRIN	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
ENDOSULFAN I	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
DIELDRIN	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
4'-DDE	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
ENDRIN	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
ENDOSULFAN II	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
4'-DDD	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
ENDOSULFAN SULFATE	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
4'-DDT	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
METHOXYCHLOR	UG/KG		17 UJ	18 U	18 U	18 U
ENDRIN KETONE	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
ENDRIN ALDEHYDE	UG/KG		3.3 UJ	3.5 U	3.5 U	3.6 U
ALPHA CHLORDANE	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
GAMMA CHLORDANE	UG/KG		1.7 UJ	1.8 U	1.8 U	1.8 U
TOXAPHENE	UG/KG		170 UJ	180 U	180 U	180 U
PCB-1016	UG/KG	40 UJ	33 UJ	35 U	35 U	36 U
PCB-1221	UG/KG	80 UJ	67 UJ	70 U	71 U	73 U
PCB-1232	UG/KG	40 UJ	33 UJ	35 U	35 U	36 U
PCB-1242	UG/KG	40 UJ	33 UJ	35 U	35 U	36 U
PCB-1248	UG/KG	40 UJ	33 UJ	35 U	35 U	36 U
PCB-1254	UG/KG	40 UJ	33 UJ	35 U	35 U	36 U
PCB-1260	UG/KG	40 UJ	33 UJ	35 U	35 U	36 U

VOLATILES

CHLOROMETHANE	UG/KG			10 U		
BROMOMETHANE	UG/KG			10 U		
VINYL CHLORIDE	UG/KG			10 U		
CHLOROETHANE	UG/KG			10 U		
METHYLENE CHLORIDE	UG/KG			10 U		
ACETONE	UG/KG			10 U		
CARBON DISULFIDE	UG/KG			10 U		
1,1-DICHLOROETHENE	UG/KG			10 U		
1,1-DICHLOROETHANE	UG/KG			10 U		
1,2-DICHLOROETHENE	UG/KG			10 U		
CHLOROFORM	UG/KG			10 U		
1,2-DICHLOROETHANE	UG/KG			10 U		
2-BUTANONE	UG/KG			10 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB23-00	6-201C-SB24-00	6-201C-SB25-00	6-201C-SB26-00	6-201C-SB27-00	6-201C-SB28-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	9/01/92
Lab Id:	00475-04	00456-21	00457-12	00456-23	00456-25	00475-06

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-TRICHLOROETHANE	UG/KG			10 U		
CARBON TETRACHLORIDE	UG/KG			10 U		
BROMODICHLOROMETHANE	UG/KG			10 U		
1,2-DICHLOROPROPANE	UG/KG			10 U		
CIS-1,3-DICHLOROPROPENE	UG/KG			10 U		
TRICHLOROETHENE	UG/KG			10 U		
DIBROMOCHLOROMETHANE	UG/KG			10 U		
1,1,2-TRICHLOROETHANE	UG/KG			10 U		
BENZENE	UG/KG			10 U		
TRANS-1,3-DICHLOROPROPENE	UG/KG			10 U		
BROMOFORM	UG/KG			10 U		
2-METHYL-2-PENTANONE	UG/KG			10 U		
HEXANONE	UG/KG			10 U		
TETRACHLOROETHENE	UG/KG			10 U		
1,1,2,2-TETRACHLOROETHANE	UG/KG			10 U		
TOLUENE	UG/KG			10 U		
CHLOROBENZENE	UG/KG			10 U		
ETHYLBENZENE	UG/KG			10 U		
STYRENE	UG/KG			10 U		
TOTAL XYLENES	UG/KG			10 U		
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG			350 U		
BIS(2-CHLOROETHYL) ETHER	UG/KG			350 U		
1-CHLOROPHENOL	UG/KG			350 U		
1,3-DICHLOROBENZENE	UG/KG			350 U		
1,4-DICHLOROBENZENE	UG/KG			350 U		
1,2-DICHLOROBENZENE	UG/KG			350 U		
2-METHYLPHENOL	UG/KG			350 U		
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG			350 U		
4-METHYLPHENOL	UG/KG			350 U		
N-NITROSODI-N-PROPYLAMINE	UG/KG			350 U		
HEXACHLOROETHANE	UG/KG			350 U		
NITROBENZENE	UG/KG			350 U		
ISOPHORONE	UG/KG			350 U		
2-NITROPHENOL	UG/KG			350 U		
2,4-DIMETHYLPHENOL	UG/KG			350 U		
BIS(2-CHLOROETHOXY) METHANE	UG/KG			350 U		
2,4-DICHLOROPHENOL	UG/KG			350 U		
1,2,4-TRICHLOROBENZENE	UG/KG			350 U		
NAPHTHALENE	UG/KG			350 U		
4-CHLORANILINE	UG/KG			350 U		
HEXACHLOROBUTADIENE	UG/KG			350 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB23-00	6-201C-SB24-00	6-201C-SB25-00	6-201C-SB26-00	6-201C-SB27-00	6-201C-SB28-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	9/01/92
Lab Id:	00475-04	00456-21	00457-12	00456-23	00456-25	00475-06

Parameter

Units

SEMIVOLATILES Cont.

-CHLORO-3-METHYLPHENOL				350 U
-METHYLNAPHTHALENE	UG/KG			350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG			350 U
2,4,6-TRICHLOROPHENOL	UG/KG			350 U
2,4,5-TRICHLOROPHENOL	UG/KG			850 U
-CHLORONAPHTHALENE	UG/KG			350 U
-NITROANILINE	UG/KG			850 U
DIMETHYL PHTHALATE	UG/KG			350 U
1,2-DICENAPHTHYLENE	UG/KG			350 U
2,6-DINITROTOLUENE	UG/KG			350 U
-NITROANILINE	UG/KG			850 U
1,2-DICENAPHTHENE	UG/KG			350 U
2,4-DINITROPHENOL	UG/KG			850 U
-NITROPHENOL	UG/KG			850 U
DIBENZOFURAN	UG/KG			350 U
2,4-DINITROTOLUENE	UG/KG			350 U
DIETHYL PHTHALATE	UG/KG			350 U
1-CHLOROPHENYL PHENYL ETHER	UG/KG			350 U
FLUORENE	UG/KG			350 U
1-NITROANILINE	UG/KG			850 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG			850 U
1-NITRISODIPHENYLAMINE	UG/KG			350 U
-BROMOPHENYL PHENYL ETHER	UG/KG			350 U
HEXACHLOROBENZENE	UG/KG			350 U
1,2-DICHLOROPHENOL	UG/KG			850 U
PHENANTHRENE	UG/KG			350 U
ANTHRACENE	UG/KG			350 U
DI-N-BUTYL PHTHALATE	UG/KG			350 U
FLUORANTHENE	UG/KG			350 U
CARBAZOLE	UG/KG			350 U
PYRENE	UG/KG			350 U
BUTYL BENZYL PHTHALATE	UG/KG			350 U
3,3-DICHLOROBENZIDINE	UG/KG			350 U
BENZO(A)ANTHRACENE	UG/KG			350 U
CHRYSENE	UG/KG			350 U
BIS(2-ETHYLIHEXYL)PHTHALATE	UG/KG			350 U
DI-N-OCTYL PHTHALATE	UG/KG			350 U
BENZO(B)FLUORANTHENE	UG/KG			350 U
BENZO(K)FLUORANTHENE	UG/KG			350 U
BENZO(A)PYRENE	UG/KG			350 U
INDENO(1,2,3-CD) PYRENE	UG/KG			350 U
DIBENZ(A,H)ANTHRACENE	UG/KG			350 U
BENZO(G,H,I)PERYLENE	UG/KG			350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB29-00	6-201C-SB3-00	6-201C-SB30-00	6-201C-SB31-00	6-201C-SB32-00	6-201C-SB33-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/29/92	8/31/92
Lab Id:	00456-27	00457-03	00456-30	00456-32	00456-34	00474-03

Parameter	Units	6-201C-SB29-00	6-201C-SB3-00	6-201C-SB30-00	6-201C-SB31-00	6-201C-SB32-00	6-201C-SB33-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
BETA-BHC	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
DELTA-BHC	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
HEPTACHLOR	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
ALDRIN	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
ENDOSULFAN I	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
DELDRIN	UG/KG	3.5 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
4'-DDE	UG/KG	3.5 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
ENDRIN	UG/KG	3.5 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
ENDOSULFAN II	UG/KG	3.5 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
4'-DDD	UG/KG	3.5 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
ENDOSULFAN SULFATE	UG/KG	3.5 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
4'-DDT	UG/KG	16 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
METHOXYCHLOR	UG/KG	18 UJ		18 UJ	20 U	17 U	19 U
ENDRIN KETONE	UG/KG	3.5 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
ENDRIN ALDEHYDE	UG/KG	3.5 UJ		3.4 UJ	3.8 U	3.3 U	3.6 U
ALPHA CHLORDANE	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
GAMMA CHLORDANE	UG/KG	1.8 UJ		1.8 UJ	2 U	1.7 U	1.9 U
TOXAPHENE	UG/KG	180 UJ		180 UJ	200 U	170 U	190 U
PCB-1016	UG/KG	35 UJ	33 U	34 UJ	38 U	33 U	36 U
PCB-1221	UG/KG	71 UJ	67 U	69 UJ	78 U	67 U	73 U
PCB-1232	UG/KG	35 UJ	33 U	34 UJ	38 U	33 U	36 U
PCB-1242	UG/KG	35 UJ	33 U	34 UJ	38 U	33 U	36 U
PCB-1248	UG/KG	35 UJ	33 U	34 UJ	38 U	33 U	36 U
PCB-1254	UG/KG	35 UJ	33 U	34 UJ	38 U	33 U	36 U
PCB-1260	UG/KG	35 UJ	33 U	34 UJ	38 U	33 U	36 U

<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG						11 U
BROMOMETHANE	UG/KG						11 UJ
VINYL CHLORIDE	UG/KG						11 U
CHLOROETHANE	UG/KG						11 U
METHYLENE CHLORIDE	UG/KG						11 U
ACETONE	UG/KG						11 U
CARBON DISULFIDE	UG/KG						11 U
1,1-DICHLOROETHENE	UG/KG						11 U
1,1-DICHLOROETHANE	UG/KG						11 U
1,2-DICHLOROETHENE	UG/KG						11 U
CHLOROFORM	UG/KG						11 U
1,2-DICHLOROETHANE	UG/KG						11 U
2-BUTANONE	UG/KG						11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB29-00	6-201C-SB3-00	6-201C-SB30-00	6-201C-SB31-00	6-201C-SB32-00	6-201C-SB33-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/29/92	8/31/92
Lab Id:	00456-27	00457-03	00456-30	00456-32	00456-34	00474-03

Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-TRICHLOROETHANE	UG/KG					2 J
CARBON TETRACHLORIDE	UG/KG					11 U
BROMODICHLOROMETHANE	UG/KG					11 U
1,2-DICHLOROPROPANE	UG/KG					11 U
CIS-1,3-DICHLOROPROPENE	UG/KG					11 U
TRICHLOROETHENE	UG/KG					11 U
DIBROMOCHLOROMETHANE	UG/KG					11 U
1,1,2-TRICHLOROETHANE	UG/KG					11 U
BENZENE	UG/KG					11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG					11 U
BROMOFORM	UG/KG					11 U
2-METHYL-2-PENTANONE	UG/KG					11 U
2-HEXANONE	UG/KG					11 U
TETRACHLOROETHENE	UG/KG					11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG					11 U
TOLUENE	UG/KG					11 U
CHLOROBENZENE	UG/KG					11 U
ETHYLBENZENE	UG/KG					11 U
STYRENE	UG/KG					11 U
TOTAL XYLENES	UG/KG					11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG					360 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG					360 UJ
2-CHLOROPHENOL	UG/KG					360 U
1,3-DICHLOROBENZENE	UG/KG					360 U
1,4-DICHLOROBENZENE	UG/KG					360 U
1,2-DICHLOROBENZENE	UG/KG					360 U
2-METHYLPHENOL	UG/KG					360 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG					360 U
4-METHYLPHENOL	UG/KG					360 U
N-NITROSODI-N-PROPYLAMINE	UG/KG					360 UJ
HEXACHLOROETHANE	UG/KG					360 U
NITROBENZENE	UG/KG					360 U
ISOPHORONE	UG/KG					360 U
2-NITROPHENOL	UG/KG					360 U
2,4-DIMETHYLPHENOL	UG/KG					360 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG					360 UJ
2,4-DICHLOROPHENOL	UG/KG					360 U
1,2,4-TRICHLOROBENZENE	UG/KG					360 U
NAPHTHALENE	UG/KG					360 U
4-CHLORANILINE	UG/KG					360 U
HEXACHLOROBUTADIENE	UG/KG					360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB29-00	6-201C-SB3-00	6-201C-SB30-00	6-201C-SB31-00	6-201C-SB32-00	6-201C-SB33-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/29/92	8/31/92
Lab Id:	00456-27	00457-03	00456-30	00456-32	00456-34	00474-03

Parameter	Units	
<u>SEMIVOLATILES Cont.</u>		
-CHLORO-3-METHYLPHENOL		360 U
-METHYLNAPHTHALENE	UG/KG	360 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	360 U
2,4,6-TRICHLOROPHENOL	UG/KG	360 U
2,4,5-TRICHLOROPHENOL	UG/KG	870 U
-CHLORONAPHTHALENE	UG/KG	360 U
-NITROANILINE	UG/KG	870 U
1,2-DIMETHYL PHTHALATE	UG/KG	360 U
1,2,3-TRICHLOROBENZENE	UG/KG	360 U
2,4-DINITROTOLUENE	UG/KG	360 U
-NITROANILINE	UG/KG	870 U
1,2,3,4-TETRACHLOROBENZENE	UG/KG	360 U
2,4-DINITROPHENOL	UG/KG	870 U
-NITROPHENOL	UG/KG	870 U
1,2,3,4-TETRACHLOROBENZENE	UG/KG	360 U
2,4-DINITROTOLUENE	UG/KG	360 U
1,2-DIMETHYL PHTHALATE	UG/KG	360 U
1-(2-CHLOROPHENYL) PHENYL ETHER	UG/KG	360 U
FLUORENE	UG/KG	360 U
-NITROANILINE	UG/KG	870 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG	870 U
1,3-DINITROBENZENE	UG/KG	360 U
-BROMOPHENYL PHENYL ETHER	UG/KG	360 U
HEXACHLOROBENZENE	UG/KG	360 U
2,4,6-TRICHLOROPHENOL	UG/KG	870 U
1,2,3,4-TETRACHLOROBENZENE	UG/KG	360 U
1,2,3,4-TETRACHLOROBENZENE	UG/KG	360 U
1,2,3,4-TETRACHLOROBENZENE	UG/KG	360 U
FLUORANTHRENE	UG/KG	77 J
CARBAZOLE	UG/KG	360 U
PYRENE	UG/KG	99 J
BUTYL BENZYL PHTHALATE	UG/KG	360 U
3,3-DICHLORO BENZIDINE	UG/KG	360 U
BENZO(A)ANTHRACENE	UG/KG	47 J
CHRYSENE	UG/KG	88 J
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	360 U
DI-N-OCTYL PHTHALATE	UG/KG	360 U
BENZO(B)FLUORANTHRENE	UG/KG	160 J
BENZO(K)FLUORANTHRENE	UG/KG	46 J
BENZO(A)PYRENE	UG/KG	78 J
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U
DIBENZ(A,H)ANTHRACENE	UG/KG	360 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB34-00	6-201C-SB35-00	6-201C-SB36-00	6-201C-SB37-00	6-201C-SB38-00	6-201C-SB39-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/29/92	8/29/92	8/29/92	8/29/92	8/31/92	8/31/92
Lab Id:	00456-36	00456-39	00456-41	00457-14	00474-05	00474-07

Parameter	Units	6-201C-SB34-00	6-201C-SB35-00	6-201C-SB36-00	6-201C-SB37-00	6-201C-SB38-00	6-201C-SB39-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
BETA-BHC	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
DELTA-BHC	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
HEPTACHLOR	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
ALDRIN	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
ENDOSULFAN I	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
DELDRIN	UG/KG	3.5 U	3.7 U	3.4 U	35 U	4 U	3.6 U
4'-DDE	UG/KG	40 J	270 J	25	60	4 U	3.6 U
ENDRIN	UG/KG	3.5 U	3.7 U	3.4 U	35 U	4 U	3.6 U
ENDOSULFAN II	UG/KG	3.5 U	3.7 U	3.4 U	35 U	4 U	3.6 U
4'-DDD	UG/KG	6.1 J	20 J	3.9	67 J	4 U	3.6 U
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.7 U	3.4 U	35 U	4 U	3.6 U
4'-DDT	UG/KG	42 J	520 J	24 J	190	4 U	5.1
METHOXYCHLOR	UG/KG	18 U	19 U	17 U	180 U	21 U	19 U
ENDRIN KETONE	UG/KG	3.5 U	3.7 U	3.4 U	35 U	4 U	3.6 U
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.7 U	3.4 U	35 U	4 U	3.6 U
ALPHA CHLORDANE	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
GAMMA CHLORDANE	UG/KG	1.8 U	1.9 U	1.7 U	18 U	2.1 U	1.9 U
DIOXAPHENE	UG/KG	180 U	190 U	170 U	1800 U	210 U	190 U
CB-1016	UG/KG	35 U	37 U	34 U	350 U	40 U	36 U
CB-1221	UG/KG	72 U	75 U	68 U	700 U	82 U	74 U
CB-1232	UG/KG	35 U	37 U	34 U	350 U	40 U	36 U
CB-1242	UG/KG	35 U	37 U	34 U	350 U	40 U	36 U
CB-1248	UG/KG	35 U	37 U	34 U	350 U	40 U	36 U
PCB-1254	UG/KG	35 U	37 U	34 U	350 U	40 U	36 U
PCB-1260	UG/KG	35 U	37 U	34 U	350 U	40 U	36 U

VOLATILES

CHLOROMETHANE	UG/KG				11 U	14 U	11 U
BROMOMETHANE	UG/KG				11 U	14 U	11 U
VINYL CHLORIDE	UG/KG				11 U	14 U	11 U
CHLOROETHANE	UG/KG				11 U	14 U	11 U
METHYLENE CHLORIDE	UG/KG				11 U	14 U	11 U
ACETONE	UG/KG				11 U	14 U	11 U
CARBON DISULFIDE	UG/KG				11 U	14 U	11 U
1,1-DICHLOROETHENE	UG/KG				11 U	14 U	11 U
1,1-DICHLOROETHANE	UG/KG				11 U	14 U	11 U
1,2-DICHLOROETHENE	UG/KG				11 U	14 U	11 U
CHLOROFORM	UG/KG				11 U	14 UJ	11 UJ
1,2-DICHLOROETHANE	UG/KG				11 U	14 UJ	11 UJ
2-BUTANONE	UG/KG				11 U	14 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB34-00	6-201C-SB35-00	6-201C-SB36-00	6-201C-SB37-00	6-201C-SB38-00	6-201C-SB39-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/29/92	8/29/92	8/29/92	8/29/92	8/31/92	8/31/92
Lab Id:	00456-36	00456-39	00456-41	00457-14	00474-05	00474-07

Parameter	Units	6-201C-SB34-00	6-201C-SB35-00	6-201C-SB36-00	6-201C-SB37-00	6-201C-SB38-00	6-201C-SB39-00
<u>VOLATILES Cont.</u>							
1,1-TRICHLOROETHANE	UG/KG				11 U	42	19
CARBON TETRACHLORIDE	UG/KG				11 U	14 U	11 U
BROMODICHLOROMETHANE	UG/KG				11 U	14 U	11 U
1,2-DICHLOROPROPANE	UG/KG				11 U	14 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG				11 U	14 U	11 U
TRICHLOROETHENE	UG/KG				11 U	14 U	11 U
DIBROMOCHLOROMETHANE	UG/KG				11 U	14 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG				11 U	14 U	11 U
BENZENE	UG/KG				11 U	14 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG				11 U	14 U	11 U
BROMOFORM	UG/KG				11 U	14 U	11 U
2-METHYL-2-PENTANONE	UG/KG				11 U	14 U	11 U
2-HEXANONE	UG/KG				11 U	14 U	11 U
TETRACHLOROETHENE	UG/KG				11 U	14 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG				11 U	14 U	11 U
TOLUENE	UG/KG				11 U	14 U	11 U
CHLOROBENZENE	UG/KG				11 U	14 U	11 U
ETHYLBENZENE	UG/KG				11 U	14 U	11 U
STYRENE	UG/KG				11 U	14 U	11 U
TOTAL XYLENES	UG/KG				11 U	14 U	11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG				350 U	400 UJ	360 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG				350 U	400 UJ	360 UJ
1-CHLOROPHENOL	UG/KG				350 U	400 U	360 U
1,3-DICHLOROBENZENE	UG/KG				350 U	400 U	360 U
1,4-DICHLOROBENZENE	UG/KG				350 U	400 U	360 U
1,2-DICHLOROBENZENE	UG/KG				350 U	400 U	360 U
2-METHYLPHENOL	UG/KG				350 U	400 U	360 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG				350 UJ	400 U	360 U
4-METHYLPHENOL	UG/KG				350 U	400 U	360 U
N-NITROSODI-N-PROPYLAMINE	UG/KG				350 U	400 UJ	360 UJ
HEXACHLOROETHANE	UG/KG				350 U	400 U	360 U
NITROBENZENE	UG/KG				350 U	400 U	360 U
ISOPHORONE	UG/KG				350 U	400 U	360 U
2-NITROPHENOL	UG/KG				350 U	400 U	360 U
2,4-DIMETHYLPHENOL	UG/KG				350 U	400 U	360 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG				350 U	400 UJ	360 UJ
2,4-DICHLOROPHENOL	UG/KG				350 U	400 U	360 U
1,2,4-TRICHLOROBENZENE	UG/KG				350 U	400 U	360 U
NAPHTHALENE	UG/KG				350 U	400 U	360 U
4-CHLORANILINE	UG/KG				350 U	400 U	360 U
HEXACHLOROBUTADIENE	UG/KG				350 U	400 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB34-00	6-201C-SB35-00	6-201C-SB36-00	6-201C-SB37-00	6-201C-SB38-00	6-201C-SB39-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/29/92	8/29/92	8/29/92	8/29/92	8/31/92	8/31/92
Lab Id:	00456-36	00456-39	00456-41	00457-14	00474-05	00474-07

Parameter	Units	6-201C-SB34-00	6-201C-SB35-00	6-201C-SB36-00	6-201C-SB37-00	6-201C-SB38-00	6-201C-SB39-00
SEMIVOLATILES Cont.							
-CHLORO-3-METHYLPHENOL	UG/KG				350 U	400 U	360 U
-METHYLNAPHTHALENE	UG/KG				350 U	400 U	360 U
HEXACHLOROCYCLOPENTADIENE	UG/KG				350 U	400 U	360 U
2,4,6-TRICHLOROPHENOL	UG/KG				350 U	400 U	360 U
2,4,5-TRICHLOROPHENOL	UG/KG				850 U	970 U	880 U
-CHLORONAPHTHALENE	UG/KG				350 U	400 U	360 U
-NITROANILINE	UG/KG				850 U	970 U	880 U
1-METHYL PHTHALATE	UG/KG				350 U	400 U	360 U
1-NAPHTHYLENE	UG/KG				350 U	400 U	360 U
2,6-DINITROTOLUENE	UG/KG				350 U	400 U	360 U
-NITROANILINE	UG/KG				850 U	970 U	880 U
1-NAPHTHENE	UG/KG				350 U	400 U	360 U
4-DINITROPHENOL	UG/KG				850 U	970 U	880 U
-NITROPHENOL	UG/KG				850 U	970 U	880 U
1-BENZOFURAN	UG/KG				350 U	400 U	360 U
4-DINITROTOLUENE	UG/KG				350 U	400 U	360 U
1-METHYL PHTHALATE	UG/KG				350 U	400 U	360 U
-CHLOROPHENYL PHENYL ETHER	UG/KG				350 U	400 U	360 U
1-FLUORENE	UG/KG				350 U	400 U	360 U
-NITROANILINE	UG/KG				850 U	970 U	880 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG				850 U	970 U	880 U
1-NITRISODIPHENYLAMINE	UG/KG				350 U	400 U	360 U
-BROMOPHENYL PHENYL ETHER	UG/KG				350 U	400 U	360 U
1,2-DICHLOROBENZENE	UG/KG				350 U	400 U	360 U
2,4-DICHLOROPHENOL	UG/KG				850 U	970 U	880 U
1-PHENANTHRENE	UG/KG				36 J	400 U	360 U
1-ANTHRACENE	UG/KG				350 U	400 U	360 U
DI-N-BUTYL PHTHALATE	UG/KG				350 U	400 U	360 U
1-FLUORANTHENE	UG/KG				94 J	400 U	360 U
1-CARBAZOLE	UG/KG				350 U	400 U	360 U
1-PYRENE	UG/KG				75 J	400 U	360 U
1-BUTYL BENZYL PHTHALATE	UG/KG				350 U	400 U	360 U
1,3-DICHLOROBENZIDINE	UG/KG				350 U	400 U	360 U
1-BENZO(A)ANTHRACENE	UG/KG				350 U	400 U	360 U
1-CHRYSENE	UG/KG				63 J	400 U	360 U
1-BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG				350 U	400 U	360 U
1-DI-N-OCTYL PHTHALATE	UG/KG				44 J	400 U	360 U
1-BENZO(B)FLUORANTHENE	UG/KG				67 J	400 U	360 U
1-BENZO(K)FLUORANTHENE	UG/KG				350 U	400 U	360 U
1-BENZO(A)PYRENE	UG/KG				350 U	400 U	360 U
1-INDENO(1,2,3-CD)PYRENE	UG/KG				350 U	400 U	360 U
1-DIBENZ(A,H)ANTHRACENE	UG/KG				350 U	400 U	360 U
1-BENZO(G,H,I)PERYLENE	UG/KG				350 U	400 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB4-00	6-201C-SB5-00	6-201C-SB6-00	6-201C-SB7-00	6-201C-SB8-00
Depth:	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/31/92	8/31/92	8/31/92	8/31/92
Lab Id:	00457-05	00463-11	00463-13	00463-15	00463-17

Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG					
BETA-BHC	UG/KG					
DELTA-BHC	UG/KG					
GAMMA-BHC(LINDANE)	UG/KG					
HEPTACHLOR	UG/KG					
ALDRIN	UG/KG					
HEPTACHLOR EPOXIDE	UG/KG					
ENDOSULFAN I	UG/KG					
DIELDRIN	UG/KG					
4'-DDE	UG/KG					
ENDRIN	UG/KG					
ENDOSULFAN II	UG/KG					
4'-DDD	UG/KG					
ENDOSULFAN SULFATE	UG/KG					
4'-DDT	UG/KG					
METHOXYCHLOR	UG/KG					
ENDRIN KETONE	UG/KG					
ENDRIN ALDEHYDE	UG/KG					
ALPHA CHLORDANE	UG/KG					
GAMMA CHLORDANE	UG/KG					
TOXAPHENE	UG/KG					
PCB-1016	UG/KG	35 UJ	39 U	35 U	36 U	36 U
PCB-1221	UG/KG	70 UJ	79 U	71 U	72 U	73 U
PCB-1232	UG/KG	35 UJ	39 U	35 U	36 U	36 U
PCB-1242	UG/KG	35 UJ	39 U	35 U	36 U	36 U
PCB-1248	UG/KG	35 UJ	39 U	35 U	36 U	36 U
PCB-1254	UG/KG	35 UJ	39 U	35 U	36 U	36 U
PCB-1260	UG/KG	35 UJ	39 U	35 U	36 U	36 U

VOLATILES

CHLOROMETHANE	UG/KG
BROMOMETHANE	UG/KG
VINYL CHLORIDE	UG/KG
CHLOROETHANE	UG/KG
METHYLENE CHLORIDE	UG/KG
ACETONE	UG/KG
CARBON DISULFIDE	UG/KG
1,1-DICHLOROETHENE	UG/KG
1,1-DICHLOROETHANE	UG/KG
1,2-DICHLOROETHENE	UG/KG
CHLOROFORM	UG/KG
1,2-DICHLOROETHANE	UG/KG
2-BUTANONE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB4-00	6-201C-SB5-00	6-201C-SB6-00	6-201C-SB7-00	6-201C-SB8-00
Depth:	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/31/92	8/31/92	8/31/92	8/31/92
Lab Id:	00437-05	00463-11	00463-13	00463-15	00463-17

Parameter	Units
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VOLATILES Cont.

1,1-TRICHLOROETHANE	UG/KG
CARBON TETRACHLORIDE	UG/KG
BROMODICHLOROMETHANE	UG/KG
1,2-DICHLOROPROPANE	UG/KG
CIS-1,3-DICHLOROPROPENE	UG/KG
TRICHLOROETHENE	UG/KG
DIBROMOCHLOROMETHANE	UG/KG
1,1,2-TRICHLOROETHANE	UG/KG
BENZENE	UG/KG
TRANS-1,3-DICHLOROPROPENE	UG/KG
BROMOFORM	UG/KG
2-METHYL-2-PENTANONE	UG/KG
2-HEXANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROBENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG

SEMIVOLATILES

PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
1-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Units	6-201C-SB4-00	6-201C-SB5-00	6-201C-SB6-00	6-201C-SB7-00	6-201C-SB8-00
Sample No:		6-201C-SB4-00	6-201C-SB5-00	6-201C-SB6-00	6-201C-SB7-00	6-201C-SB8-00
Depth:		N/A	N/A	N/A	N/A	N/A
Date Sampled:		8/28/92	8/31/92	8/31/92	8/31/92	8/31/92
Lab Id:		00457-05	00463-11	00463-13	00463-15	00463-17
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL						
2-METHYLNAPHTHALENE	UG/KG					
HEXACHLOROCYCLOPENTADIENE	UG/KG					
2,4,6-TRICHLOROPHENOL	UG/KG					
2,4,5-TRICHLOROPHENOL	UG/KG					
2-CHLORONAPHTHALENE	UG/KG					
2-NITROANILINE	UG/KG					
DIMETHYL PHTHALATE	UG/KG					
ACENAPHTHYLENE	UG/KG					
2,6-DINITROTOLUENE	UG/KG					
3-NITROANILINE	UG/KG					
ACENAPHTHENE	UG/KG					
2,4-DINITROPHENOL	UG/KG					
4-NITROPHENOL	UG/KG					
DIBENZOFURAN	UG/KG					
2,4-DINITROTOLUENE	UG/KG					
DIETHYL PHTHALATE	UG/KG					
4-CHLOROPHENYL PHENYL ETHER	UG/KG					
FLUORENE	UG/KG					
4-NITROANILINE	UG/KG					
4,6-DINITRO-2-METHYLPHENOL	UG/KG					
N-NITRISODIPHENYLAMINE	UG/KG					
4-BROMOPHENYL PHENYL ETHER	UG/KG					
HEXACHLOROBENZENE	UG/KG					
PENTACHLOROPHENOL	UG/KG					
PHENANTHRENE	UG/KG					
ANTHRACENE	UG/KG					
DI-N-BUTYL PHTHALATE	UG/KG					
FLUORANTHENE	UG/KG					
CARBAZOLE	UG/KG					
PYRENE	UG/KG					
BUTYL BENZYL PHTHALATE	UG/KG					
3,3-DICHLOROBENZIDINE	UG/KG					
BENZO(A)ANTHRACENE	UG/KG					
CHRYSENE	UG/KG					
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					
DI-N-OCTYL PHTHALATE	UG/KG					
BENZO(B)FLUORANTHENE	UG/KG					
BENZO(K)FLUORANTHENE	UG/KG					
BENZO(A)PYRENE	UG/KG					
INDENO(1,2,3-CD) PYRENE	UG/KG					
DIBENZ(A,H)ANTHRACENE	UG/KG					
BENZO(G,H,I)PERYLENE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Units							
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.7 U	8600 U	ND	ND		0/96
BETA-BHC	UG/KG	1.7 U	8600 U	ND	ND		0/96
DELTA-BHC	UG/KG	1.7 U	8600 U	ND	ND		0/96
GAMMA-BHC(LINDANE)	UG/KG	1.7 U	8600 U	ND	ND		0/96
HEPTACHLOR	UG/KG	1.7 U	8600 U	ND	ND		0/96
ALDRIN	UG/KG	1.7 U	8600 U	ND	ND		0/96
HEPTACHLOR EPOXIDE	UG/KG	1.7 U	8600 U	ND	ND		0/96
ENDOSULFAN I	UG/KG	1.7 U	8600 U	ND	ND		0/96
DIELDRIN	UG/KG	3.3 U	17000 U	5.6 J	46	6-201A-SB20-00	5/96
4,4'-DDE	UG/KG	3.3 U	35 U	4 J	17000 J	6-201A-SB17-00	43/96
ENDRIN	UG/KG	3.3 U	17000 U	ND	ND		0/96
ENDOSULFAN II	UG/KG	3.3 U	17000 U	ND	ND		0/96
4,4'-DDD	UG/KG	3.3 U	40 U	0.98 J	180000 J	6-201A-SB17-00	28/96
ENDOSULFAN SULFATE	UG/KG	3.3 U	17000 U	ND	ND		0/96
4,4'-DDT	UG/KG	3.3 UJ	16 UJ	3 J	1200000	6-201A-SB17-00	62/96
METHOXYCHLOR	UG/KG	17 U	86000 U	ND	ND		0/96
ENDRIN KETONE	UG/KG	3.3 U	17000 U	ND	ND		0/96
ENDRIN ALDEHYDE	UG/KG	3.3 U	17000 U	ND	ND		0/96
ALPHA CHLORDANE	UG/KG	1.7 U	8600 U	8.9	8.9	6-201B-SB17-00	1/96
GAMMA CHLORDANE	UG/KG	1.7 U	8600 U	8 J	8 J	6-201A-SB26-00	1/96
TOXAPHENE	UG/KG	170 U	860000 U	ND	ND		0/96
PCB-1016	UG/KG	33 U	170000 U	ND	ND		0/87
PCB-1221	UG/KG	67 U	340000 U	ND	ND		0/87
PCB-1232	UG/KG	33 U	170000 U	ND	ND		0/87
PCB-1242	UG/KG	33 U	170000 U	ND	ND		0/87
PCB-1248	UG/KG	33 U	170000 U	1800	1800	6-201A-SB24-00	1/87
PCB-1254	UG/KG	33 U	170000 U	ND	ND		0/87
PCB-1260	UG/KG	33 U	170000 U	31 J	36 J	6-201C-SB8-00	2/87
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	10 U	14 U	ND	ND		0/19
BROMOMETHANE	UG/KG	10 U	14 U	ND	ND		0/19
VINYL CHLORIDE	UG/KG	10 U	14 U	ND	ND		0/19
CHLOROETHANE	UG/KG	10 U	14 U	ND	ND		0/19
METHYLENE CHLORIDE	UG/KG	10 U	14 U	4 J	4 J	6-201B-SB8-00	1/19
ACETONE	UG/KG	10 U	14 U	7 J	37 J	6-201B-SB33-00	4/19
CARBON DISULFIDE	UG/KG	10 U	14 U	ND	ND		0/19
1,1-DICHLOROETHENE	UG/KG	10 U	14 U	ND	ND		0/19
1,1-DICHLOROETHANE	UG/KG	10 U	14 U	ND	ND		0/19
1,2-DICHLOROETHENE	UG/KG	10 U	14 U	ND	ND		0/19
CHLOROFORM	UG/KG	10 U	14 UJ	ND	ND		0/19
1,2-DICHLOROETHANE	UG/KG	10 U	14 UJ	ND	ND		0/19
2-BUTANONE	UG/KG	10 U	14 U	ND	ND		0/19

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	10 U	11 U	2 J	42	6-201C-SB38-00	3/19
CARBON TETRACHLORIDE	UG/KG	10 UJ	14 U	ND	ND		0/19
BROMODICHLOROMETHANE	UG/KG	10 U	14 U	ND	ND		0/19
1,2-DICHLOROPROPANE	UG/KG	10 U	14 U	ND	ND		0/19
CIS-1,3-DICHLOROPROPENE	UG/KG	10 U	14 U	ND	ND		0/19
TRICHLOROETHENE	UG/KG	10 U	14 U	ND	ND		0/19
DIBROMOCHLOROMETHANE	UG/KG	10 U	14 U	ND	ND		0/19
1,1,2-TRICHLOROETHANE	UG/KG	10 U	14 U	ND	ND		0/19
BENZENE	UG/KG	10 U	14 U	ND	ND		0/19
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U	14 U	ND	ND		0/19
BROMOFORM	UG/KG	10 U	14 U	ND	ND		0/19
4-METHYL-2-PENTANONE	UG/KG	10 U	14 U	ND	ND		0/19
2-HEXANONE	UG/KG	10 U	14 U	ND	ND		0/19
TETRACHLOROETHENE	UG/KG	10 U	14 U	ND	ND		0/19
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	14 U	ND	ND		0/19
TOLUENE	UG/KG	10 U	14 U	ND	ND		0/19
CHLOROBENZENE	UG/KG	10 U	14 U	ND	ND		0/19
ETHYLBENZENE	UG/KG	10 U	14 U	ND	ND		0/19
STYRENE	UG/KG	10 U	14 U	ND	ND		0/19
TOTAL XYLENES	UG/KG	10 U	14 U	ND	ND		0/19
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	330 U	400 UJ	ND	ND		0/17
BIS(2-CHLOROETHYL) ETHER	UG/KG	330 U	400 UJ	ND	ND		0/17
2-CHLOROPHENOL	UG/KG	330 U	400 U	ND	ND		0/17
1,3-DICHLOROBENZENE	UG/KG	330 U	400 U	ND	ND		0/17
1,4-DICHLOROBENZENE	UG/KG	330 U	400 U	37 J	38 J	6-201A-SB25-00	4/17
1,2-DICHLOROBENZENE	UG/KG	330 U	400 U	ND	ND		0/17
2-METHYLPHENOL	UG/KG	330 U	400 U	ND	ND		0/17
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 U	400 U	ND	ND		0/17
4-METHYLPHENOL	UG/KG	330 U	400 U	ND	ND		0/17
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 U	400 UJ	ND	ND		0/17
HEXACHLOROETHANE	UG/KG	330 U	400 U	ND	ND		0/17
NITROBENZENE	UG/KG	330 U	400 U	ND	ND		0/17
ISOPHORONE	UG/KG	330 U	400 U	ND	ND		0/17
2-NITROPHENOL	UG/KG	330 U	400 U	ND	ND		0/17
2,4-DIMETHYLPHENOL	UG/KG	330 U	400 U	ND	ND		0/17
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 U	400 UJ	ND	ND		0/17
2,4-DICHLOROPHENOL	UG/KG	330 U	400 U	ND	ND		0/17
1,2,4-TRICHLOROBENZENE	UG/KG	330 U	400 U	ND	ND		0/17
NAPHTHALENE	UG/KG	330 U	400 U	ND	ND		0/17
4-CHLORANILINE	UG/KG	330 U	400 U	ND	ND		0/17
HEXACHLOROBUTADIENE	UG/KG	330 U	400 U	ND	ND		0/17

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Units							
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL		330 U	400 U	ND	ND		0/17
2-METHYLNAPHTHALENE	UG/KG	330 U	400 U	ND	ND		0/17
HEXACHLOROCYCLOPENTADIENE	UG/KG	330 U	400 U	ND	ND		0/17
2,4,6-TRICHLOROPHENOL	UG/KG	330 U	400 U	ND	ND		0/17
2,4,5-TRICHLOROPHENOL	UG/KG	790 U	970 U	ND	ND		0/17
2-CHLORONAPHTHALENE	UG/KG	330 U	400 U	ND	ND		0/17
2-NITROANILINE	UG/KG	790 U	970 U	ND	ND		0/17
DIMETHYL PHTHALATE	UG/KG	330 U	400 U	ND	ND		0/17
ACENAPHTHYLENE	UG/KG	330 U	400 U	ND	ND		0/17
2,6-DINITROTOLUENE	UG/KG	330 U	400 U	ND	ND		0/17
3-NITROANILINE	UG/KG	790 U	970 U	ND	ND		0/17
ACENAPHTHENE	UG/KG	330 U	400 U	ND	ND		0/17
2,4-DINITROPHENOL	UG/KG	790 U	970 U	ND	ND		0/17
4-NITROPHENOL	UG/KG	790 U	970 U	ND	ND		0/17
DIBENZOFURAN	UG/KG	330 U	400 U	ND	ND		0/17
2,4-DINITROTOLUENE	UG/KG	330 U	400 U	ND	ND		0/17
DIETHYL PHTHALATE	UG/KG	330 U	400 U	ND	ND		0/17
4-CHLOROPHENYL PHENYL ETHER	UG/KG	330 U	400 U	ND	ND		0/17
FLUORENE	UG/KG	330 U	400 U	ND	ND		0/17
4-NITROANILINE	UG/KG	790 U	970 U	ND	ND		0/17
4,6-DINITRO-2-METHYLPHENOL	UG/KG	790 U	970 U	ND	ND		0/17
N-NITROSODIPHENYLAMINE	UG/KG	330 U	400 U	ND	ND		0/17
4-BROMOPHENYL PHENYL ETHER	UG/KG	330 UJ	400 U	ND	ND		0/17
HEXACHLOROBENZENE	UG/KG	330 UJ	400 U	ND	ND		0/17
PENTACHLOROPHENOL	UG/KG	790 U	970 U	ND	ND		0/17
PHENANTHRENE	UG/KG	330 U	400 U	36 J	36 J	6-201C-SB37-00	1/17
ANTHRACENE	UG/KG	330 U	400 U	ND	ND		0/17
DI-N-BUTYL PHTHALATE	UG/KG	330 U	400 U	89 J	89 J	6-201A-SB17-00	1/17
FLUORANTHENE	UG/KG	330 U	400 U	43 J	94 J	6-201C-SB37-00	3/17
CARBAZOLE	UG/KG	330 U	400 U	ND	ND		0/17
PYRENE	UG/KG	330 U	400 U	38 J	99 J	6-201C-SB33-00	3/17
BUTYL BENZYL PHTHALATE	UG/KG	330 U	400 U	ND	ND		0/17
3,3-DICHLOROBENZIDINE	UG/KG	330 U	400 U	ND	ND		0/17
BENZO(A)ANTHRACENE	UG/KG	330 U	400 U	47 J	47 J	6-201C-SB33-00	1/17
CHRYSENE	UG/KG	330 U	400 U	39 J	88 J	6-201C-SB33-00	3/17
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	330 U	400 U	68 J	310 J	6-201B-SB25-00	5/17
DI-N-OCTYL PHTHALATE	UG/KG	330 U	400 U	44 J	44 J	6-201C-SB37-00	1/17
BENZO(B)FLUORANTHENE	UG/KG	330 U	400 U	61 J	160 J	6-201C-SB33-00	3/17
BENZO(K)FLUORANTHENE	UG/KG	330 U	400 U	46 J	46 J	6-201C-SB33-00	1/17
BENZO(A)PYRENE	UG/KG	330 U	400 U	78 J	78 J	6-201C-SB33-00	1/17
INDENO(1,2,3-CD) PYRENE	UG/KG	330 U	400 U	ND	ND		0/17
DIBENZ(A,H)ANTHRACENE	UG/KG	330 U	400 U	ND	ND		0/17
BENZO(G,H,I)PERYLENE	UG/KG	330 U	400 U	ND	ND		0/17

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201A-SB13-00	6-201A-SB17-00	6-201A-SB25-00	6-201A-SB33-00	6-201A-SB37-00	6-201B-SB13-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/26/92	8/26/92	8/27/92	8/27/92	8/27/92	8/26/92
	Lab Id:	00446-01	00446-03	00446-05	00452-17	00452-19	00438-16
Parameter	Units						
ALUMINUM	MG/KG	1670	1420	952	2170	3320	1020
ANTIMONY	MG/KG	8.9 U	8.3 U	9.2 U	9.4 UJ	8.2 UJ	8 U
ARSENIC	MG/KG	1.8 JB	1.8 JB	1 JB	0.9 U	1.4 U	1.4 B
BARIUM	MG/KG	10.3 B	7.6 B	4 U	5 B	6.7 B	5.9 B
BERYLLIUM	MG/KG	0.18 U	0.17 U	0.19 U	0.19 U	0.17 U	0.16 U
CADMIUM	MG/KG	0.87 JB	0.51 U	0.57 U	0.57 U	0.5 U	0.49 U
CALCIUM	MG/KG	122000	165000	47800	91400	80200	129000
CHROMIUM	MG/KG	8.5	7.8	3.5	6.1 J	7.2 J	8
COBALT	MG/KG	1.1 U	1 U	1.1 U	1.1 U	1 U	0.98 U
COPPER	MG/KG	4.2 JB	3.9 JB	0.78 JB	1.2 JB	1.8 JB	0.85 B
IRON	MG/KG	2290	2330	969	1580	2040	2670
LEAD	MG/KG	78	36.1	26.2	8 J	24	6.1
MAGNESIUM	MG/KG	1740	2010	726 B	1250	1200	1680
MANGANESE	MG/KG	21.6	25.7	8.8 J	11.7 J	13.3 J	26.9
MERCURY	MG/KG	0.1 U	0.1 U	0.09 U	0.09 U	0.11 U	0.09 U
NICKEL	MG/KG	3.1 U	2.9 U	3.2 U	3.2 U	2.9 U	2.8 U
POTASSIUM	MG/KG	139 B	144 B	72.3 U	123 B	182 B	156 B
SELENIUM	MG/KG	0.94 U	0.94 UJ	0.84 U	0.82 U	0.85 U	0.97 UJ
SILVER	MG/KG	1.8 U	1.7 U	1.9 U	1.9 U	1.7 U	1.6 U
SODIUM	MG/KG	213 JB	282 JB	104 JB	155 JB	165 JB	203 JB
THALLIUM	MG/KG	0.38 UJ	0.37 UJ	0.33 UJ	0.33 UJ	0.34 UJ	0.39 UJ
VANADIUM	MG/KG	4.8 B	4 B	2.1 B	3.9 B	6.2 B	3.9 B
ZINC	MG/KG	26.1	20.1	6	4.6 U	11	9.8

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201B-SB17-00	6-201B-SB25-00	6-201B-SB33-00	6-201B-SB37-00	6-201C-SB13-00	6-201C-SB17-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/26/92	8/27/92	8/28/92	8/27/92	8/31/92	8/29/92
	Lab Id:	00446-15	00452-31	00452-33	00452-36	00474-01	00457-09
Parameter	Units						
ALUMINUM	MG/KG	3510	1120	1530	2480	5520	2120
ANTIMONY	MG/KG	8.8 U	8.1 UJ	9 U	8.8 UJ	2.2 UJ	8.6 U
ARSENIC	MG/KG	0.58 U	2.1 U	7.5	1.5 U	0.92 B	2.7
BARIUM	MG/KG	7 B	8.2 B	9.4 B	8 B	7 B	5.7 B
BERYLLIUM	MG/KG	0.18 U	0.16 U	0.18 U	0.18 U	0.05 UJ	0.18 U
CADMIUM	MG/KG	0.54 U	1.4 J	1.5 J	0.71 JB	0.51 JB	0.53 U
CALCIUM	MG/KG	111000	205000	286000	182000	10800	149000 J
CHROMIUM	MG/KG	8.2	14.3 J	21.6	10.2 J	6.2	7.9
COBALT	MG/KG	1.1 U	0.99 U	1.3 JB	1.1 U	0.31 U	1.1 U
COPPER	MG/KG	1.4 JB	15.9	27.8	8.4 J	1 JB	1.9 JB
IRON	MG/KG	2200	3210	4260	2840	2700	2010
LEAD	MG/KG	6.4	25.9	47 J	9.8	3.6 R	2.7
MAGNESIUM	MG/KG	1550	3090	3980	2390	367 B	1970
MANGANESE	MG/KG	21.1	35.7	204 J	31.3	4.2 J	51.4
MERCURY	MG/KG	0.09 U	0.08 U	0.11 UR	0.11 U	0.04 U	0.08 U
NICKEL	MG/KG	3.1 U	2.8 U	3.7 B	3 U	1.2 U	3 U
POTASSIUM	MG/KG	254 B	321 B	539 B	275 B	179 B	277 B
SELENIUM	MG/KG	1 U	0.91 U	0.93 U	0.93 U	0.93 UJ	0.94 UR
SILVER	MG/KG	1.8 U	1.6 U	1.8 U	1.8 U	0.31 U	1.8 U
SODIUM	MG/KG	238 JB	312 JB	270 JB	280 JB	27.3 UJ	202 JB
THALLIUM	MG/KG	0.4 UJ	0.36 UJ	0.37 UJ	0.37 UJ	0.37 U	0.34 UJ
VANADIUM	MG/KG	6.1 B	5.7 B	13.7	5.9 B	6.5 B	8 B
ZINC	MG/KG	14.7	59.3	135 J	19.9	2.9 U	7.8 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201C-SB25-00	6-201C-SB33-00	6-201C-SB37-00	6-201C-SB38-00	6-201C-SB39-00
	Depth:	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/28/92	8/31/92	8/29/92	8/31/92	8/31/92
	Lab Id:	00457-12	00474-03	00457-14	00474-05	00474-07
Parameter	Units					
ALUMINUM	MG/KG	1290	2960	1660	748	245
ANTIMONY	MG/KG	8.5 U	2.5 UJ	8.6 U	2.8 UJ	2.6 UJ
ARSENIC	MG/KG	5.7 J	2 J	9.7 J	0.91 B	0.56 U
BARIUM	MG/KG	5.5 B	9 B	8.2 B	16.5 B	3.5 JB
BERYLLIUM	MG/KG	0.22 B	0.05 UJ	0.18 U	0.06 UJ	0.06 UJ
CADMIUM	MG/KG	0.92 J	0.58 JB	1.4 J	0.58 JB	0.35 U
CALCIUM	MG/KG	261000 J	25800	113000 J	10700	402 B
CHROMIUM	MG/KG	10.1	5.4	12.9	3.2 UJ	0.66 UJ
COBALT	MG/KG	1.3 JB	0.36 U	1.1 U	0.39 U	0.37 U
COPPER	MG/KG	1.7 JB	5.9 J	11.4	3.1 JB	0.75 JB
IRON	MG/KG	2590	2380	2580	684	238
LEAD	MG/KG	1 J	33.2 R	31.8	62.9 R	25.1 R
MAGNESIUM	MG/KG	3100	495 B	1890	200 B	26 B
MANGANESE	MG/KG	145	14 J	31.4	16 J	4.5 J
MERCURY	MG/KG	0.09 U	0.06 U	0.11 U	0.1 U	0.12 U
NICKEL	MG/KG	6.4 JB	1.4 U	3 U	1.6 U	1.5 U
POTASSIUM	MG/KG	567 B	149 B	197 B	54.5 B	30.6 JB
SELENIUM	MG/KG	2.2 J	0.9 UJ	0.91 UJ	1 UJ	0.93 UJ
SILVER	MG/KG	1.7 U	0.36 U	1.8 U	0.39 U	0.37 U
SODIUM	MG/KG	269 JB	41.6 JB	212 JB	28 UJ	9.4 UJ
THALLIUM	MG/KG	1.9 UJ	0.36 UJ	1.8 UJ	0.41 UJ	0.37 U
VANADIUM	MG/KG	18.3	6.3 B	5.6 JB	2.8 B	1.6 B
ZINC	MG/KG	13.8	46.8	95.4	23.1	4.6

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	MG/KG	NA	NA	245	5520	6-201C-SB13-00	17/17
ANTIMONY	MG/KG	2.2 UJ	9.4 UJ	ND	ND		0/17
ARSENIC	MG/KG	0.56 U	2.1 U	0.91 B	9.7 J	6-201C-SB37-00	11/17
BARIUM	MG/KG	4 U	4 U	3.5 JB	16.5 B	6-201C-SB38-00	16/17
BERYLLIUM	MG/KG	0.05 UJ	0.19 U	0.22 B	0.22 B	6-201C-SB25-00	1/17
CADMIUM	MG/KG	0.35 U	0.57 U	0.51 JB	1.5 J	6-201B-SB33-00	9/17
CALCIUM	MG/KG	NA	NA	402 B	286000	6-201B-SB33-00	17/17
CHROMIUM	MG/KG	0.66 UJ	3.2 UJ	3.5	21.6	6-201B-SB33-00	15/17
COBALT	MG/KG	0.31 U	1.1 U	1.3 JB	1.3 JB	6-201C-SB25-00	2/17
COPPER	MG/KG	NA	NA	0.75 JB	27.8	6-201B-SB33-00	17/17
IRON	MG/KG	NA	NA	238	4260	6-201B-SB33-00	17/17
LEAD	MG/KG	NA	NA	1 J	78	6-201A-SB13-00	17/17
MAGNESIUM	MG/KG	NA	NA	26 B	3980	6-201B-SB33-00	17/17
MANGANESE	MG/KG	NA	NA	4.2 J	204 J	6-201B-SB33-00	17/17
MERCURY	MG/KG	0.04 U	0.12 U	ND	ND		0/17
NICKEL	MG/KG	1.2 U	3.2 U	3.7 B	6.4 JB	6-201C-SB25-00	2/17
POTASSIUM	MG/KG	72.3 U	72.3 U	30.6 JB	567 B	6-201C-SB25-00	16/17
SELENIUM	MG/KG	0.82 U	1 U	2.2 J	2.2 J	6-201C-SB25-00	1/17
SILVER	MG/KG	0.31 U	1.9 U	ND	ND		0/17
SODIUM	MG/KG	9.4 UJ	28 UJ	41.6 JB	312 JB	6-201B-SB25-00	14/17
THALLIUM	MG/KG	0.33 UJ	1.9 UJ	ND	ND		0/17
VANADIUM	MG/KG	NA	NA	1.6 B	18.3	6-201C-SB25-00	17/17
ZINC	MG/KG	2.9 U	7.8 U	4.6	135 J	6-201B-SB33-00	14/17

CLEJ-01272-3.13-08/20/93

L.2

**Site 6, Lot 201 - Subsurface Soil,
Organic and Inorganic**

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-GW22-02	6-201A-GW22-04	6-201A-SB1-01	6-201A-SB10-01	6-201A-SB11-01	6-201A-SB12-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	9/24/92	8/28/92	8/27/92	8/28/92	8/28/92
Lab Id:	00536-28	00536-29	00452-02	00452-11	00452-13	00452-16
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
BETA-BHC	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
DELTA-BHC	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
HEPTACHLOR	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
ALDRIN	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
ENDOSULFAN I	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
DIELDRIN	UG/KG	3.9 U	4 U	3.9 U	18 U	3.7 U
4,4'-DDE	UG/KG	3.9 U	4 U	3.9 U	90	3.7 U
ENDRIN	UG/KG	3.9 U	4 U	3.9 U	18 U	3.7 U
ENDOSULFAN II	UG/KG	3.9 U	4 U	3.9 U	18 U	3.7 U
4,4'-DDD	UG/KG	3.9 U	4 U	3.9 U	18 U	6.8
ENDOSULFAN SULFATE	UG/KG	3.9 U	4 U	3.9 U	18 U	3.7 U
4,4'-DDT	UG/KG	3.9 U	4 U	3.9 U	125	12 J
METHOXYCHLOR	UG/KG	20 U	21 U	20 U	93 U	19 U
ENDRIN KETONE	UG/KG	3.9 U	4 U	3.9 U	18 U	3.7 U
ENDRIN ALDEHYDE	UG/KG	3.9 U	4 U	3.9 U	18 U	3.7 U
ALPHA CHLORDANE	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
GAMMA CHLORDANE	UG/KG	2 U	2.1 U	2 U	9.3 U	1.9 U
TOXAPHENE	UG/KG	200 U	210 U	200 U	930 U	190 U
PCB-1016	UG/KG	39 U	40 U			
PCB-1221	UG/KG	80 U	81 U			
PCB-1232	UG/KG	39 U	40 U			
PCB-1242	UG/KG	39 U	40 U			
PCB-1248	UG/KG	39 U	40 U			
PCB-1254	UG/KG	39 U	40 U			
PCB-1260	UG/KG	39 U	40 U			
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U	12 U			
BROMOMETHANE	UG/KG	11 U	12 U			
VINYL CHLORIDE	UG/KG	11 U	12 U			
CHLOROETHANE	UG/KG	11 U	12 U			
METHYLENE CHLORIDE	UG/KG	11 U	26 U			
ACETONE	UG/KG	11 U	12 U			
CARBON DISULFIDE	UG/KG	11 U	12 U			
1,1-DICHLOROETHENE	UG/KG	11 U	12 U			
1,1-DICHLOROETHANE	UG/KG	11 U	12 U			
1,2-DICHLOROETHENE	UG/KG	11 U	12 U			
CHLOROFORM	UG/KG	11 U	12 U			
1,2-DICHLOROETHANE	UG/KG	11 U	12 U			
2-BUTANONE	UG/KG	11 U	12 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-GW22-02	6-201A-GW22-04	6-201A-SB1-01	6-201A-SB10-01	6-201A-SB11-01	6-201A-SB12-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	9/24/92	8/28/92	8/27/92	8/28/92	8/28/92
Lab Id:	00536-28	00536-29	00452-02	00452-11	00452-13	00452-16
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U		12 U		
CARBON TETRACHLORIDE	UG/KG	11 U		12 U		
BROMODICHLOROMETHANE	UG/KG	11 U		12 U		
1,2-DICHLOROPROPANE	UG/KG	11 U		12 U		
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U		12 U		
TRICHLOROETHENE	UG/KG	11 U		12 U		
DIBROMOCHLOROMETHANE	UG/KG	11 U		12 U		
1,1,2-TRICHLOROETHANE	UG/KG	11 U		12 U		
BENZENE	UG/KG	11 U		12 U		
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U		12 U		
BROMOFORM	UG/KG	11 U		12 U		
4-METHYL-2-PENTANONE	UG/KG	11 U		12 U		
2-HEXANONE	UG/KG	11 U		12 U		
TETRACHLOROETHENE	UG/KG	11 U		12 U		
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U		12 U		
TOLUENE	UG/KG	11 U		12 U		
CHLOROBENZENE	UG/KG	11 U		12 U		
ETHYLBENZENE	UG/KG	11 U		12 U		
STYRENE	UG/KG	11 U		12 U		
TOTAL XYLENES	UG/KG	11 U		12 U		
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	390 U		400 UJ		
BIS(2-CHLOROETHYL) ETHER	UG/KG	390 U		400 U		
2-CHLOROPHENOL	UG/KG	390 U		400 U		
1,3-DICHLOROBENZENE	UG/KG	390 U		400 U		
1,4-DICHLOROBENZENE	UG/KG	390 U		400 U		
1,2-DICHLOROBENZENE	UG/KG	390 U		400 U		
2-METHYLPHENOL	UG/KG	390 U		400 U		
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG	390 U		400 U		
4-METHYLPHENOL	UG/KG	390 U		400 UJ		
N-NITROSODI-N-PROPYLAMINE	UG/KG	390 U		400 U		
HEXACHLOROETHANE	UG/KG	390 U		400 U		
NITROBENZENE	UG/KG	390 U		400 U		
ISOPHORONE	UG/KG	390 U		400 U		
2-NITROPHENOL	UG/KG	390 U		400 U		
2,4-DIMETHYLPHENOL	UG/KG	390 U		400 U		
BIS(2-CHLOROETHOXY) METHANE	UG/KG	390 U		400 U		
2,4-DICHLOROPHENOL	UG/KG	390 U		400 U		
1,2,4-TRICHLOROBENZENE	UG/KG	390 U		400 U		
NAPHTHALENE	UG/KG	390 U		400 U		
4-CHLORANILINE	UG/KG	390 U		400 U		
HEXACHLOROBUTADIENE	UG/KG	390 U		400 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-GW22-02	6-201A-GW22-04	6-201A-SB1-01	6-201A-SB10-01	6-201A-SB11-01	6-201A-SB12-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	9/24/92	8/28/92	8/27/92	8/28/92	8/28/92
Lab Id:	00536-28	00536-29	00452-02	00452-11	00452-13	00452-16
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	390 U	400 U			
2-METHYLNAPHTHALENE	UG/KG	390 U	400 U			
HEXACHLOROCYCLOPENTADIENE	UG/KG	390 U	400 U			
2,4,6-TRICHLOROPHENOL	UG/KG	390 U	400 U			
2,4,5-TRICHLOROPHENOL	UG/KG	950 U	970 U			
2-CHLORONAPHTHALENE	UG/KG	390 U	400 U			
2-NITROANILINE	UG/KG	950 U	970 U			
DIMETHYL PHTHALATE	UG/KG	390 U	400 U			
ACENAPHTHYLENE	UG/KG	390 U	400 U			
2,6-DINITROTOLUENE	UG/KG	390 UJ	400 U			
3-NITROANILINE	UG/KG	950 U	970 U			
ACENAPHTHENE	UG/KG	390 U	400 U			
2,4-DINITROPHENOL	UG/KG	950 U	970 U			
4-NITROPHENOL	UG/KG	950 U	970 U			
DIBENZOFURAN	UG/KG	390 U	400 U			
2,4-DINITROTOLUENE	UG/KG	390 U	400 UJ			
DIETHYL PHTHALATE	UG/KG	390 U	400 U			
4-CHLOROPHENYL PHENYL ETHER	UG/KG	390 U	400 U			
FLUORENE	UG/KG	390 U	400 U			
4-NITROANILINE	UG/KG	950 U	970 UJ			
4,6-DINITRO-2-METHYLPHENOL	UG/KG	950 U	970 U			
N-NITRISODIPHENYLAMINE	UG/KG	390 U	400 U			
4-BROMOPHENYL PHENYL ETHER	UG/KG	390 U	400 U			
HEXACHLOROBENZENE	UG/KG	390 U	400 U			
PENTACHLOROPHENOL	UG/KG	950 U	970 U			
PHENANTHRENE	UG/KG	390 U	400 U			
ANTHRACENE	UG/KG	390 U	400 U			
DI-N-BUTYL PHTHALATE	UG/KG	390 U	400 U			
FLUORANTHENE	UG/KG	390 U	400 U			
CARBAZOLE	UG/KG	390 U	400 U			
PYRENE	UG/KG	390 U	400 U			
BUTYL BENZYL PHTHALATE	UG/KG	390 U	400 U			
3,3-DICHLOROBENZIDINE	UG/KG	390 U	400 U			
BENZO(A)ANTHRACENE	UG/KG	390 U	400 U			
CHRYSENE	UG/KG	390 U	400 U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	390 U	400 U			
DI-N-OCTYL PHTHALATE	UG/KG	390 U	400 U			
BENZO(B)FLUORANTHENE	UG/KG	390 U	400 U			
BENZO(K)FLUORANTHENE	UG/KG	390 U	400 U			
BENZO(A)PYRENE	UG/KG	390 U	400 U			
INDENO(1,2,3-CD) PYRENE	UG/KG	390 U	400 U			
DIBENZ(A,H)ANTHRACENE	UG/KG	390 U	400 U			
BENZO(G,H,I)PERYLENE	UG/KG	390 U	400 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB13-01	6-201A-SB14-01	6-201A-SB15-01	6-201A-SB16-01	6-201A-SB17-01	6-201A-SB18-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00446-02	00447-02	00447-04	00447-06	00446-04	00447-08	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
BETA-BHC	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
DELTA-BHC	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
GAMMA-BHC(LINDANE)	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
HEPTACHLOR	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
ALDRIN	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
HEPTACHLOR EPOXIDE	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
ENDOSULFAN I	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
DIELDRIN	UG/KG	4 U	3.7 U	4.4 U	4.1 U	19000 U	3.7 UJ
4,4'-DDE	UG/KG	4 U	3.7 U	8.1	4.1 U	5200 J	3.7 UJ
ENDRIN	UG/KG	4 U	3.7 U	4.4 U	4.1 U	19000 U	3.7 UJ
ENDOSULFAN II	UG/KG	4 U	3.7 U	4.4 U	4.1 U	19000 U	3.7 UJ
4,4'-DDD	UG/KG	4 U	3.7 U	4.4 U	4.1 U	250000 J	3.7 UJ
ENDOSULFAN SULFATE	UG/KG	4 U	3.7 U	4.4 U	4.1 U	19000 U	3.7 UJ
4,4'-DDT	UG/KG	3.5 J	3.7 U	19	4.1 U	460000	5.8 J
METHOXYCHLOR	UG/KG	21 UJ	19 U	23 U	21 U	100000 U	19 UJ
ENDRIN KETONE	UG/KG	4 U	3.7 U	4.4 U	4.1 U	19000 U	3.7 UJ
ENDRIN ALDEHYDE	UG/KG	4 U	3.7 U	4.4 U	4.1 U	19000 U	3.7 UJ
ALPHA CHLORDANE	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
GAMMA CHLORDANE	UG/KG	2.1 U	1.9 U	2.3 U	2.1 U	10000 U	1.9 UJ
TOXAPHENE	UG/KG	210 U	190 U	230 U	210 U	1000000 U	190 UJ
PCB-1016	UG/KG	40 U	37 U	44 U	41 U	190000 U	37 UJ
PCB-1221	UG/KG	81 U	76 U	89 U	82 U	390000 U	75 UJ
PCB-1232	UG/KG	40 U	37 U	44 U	41 U	190000 U	37 UJ
PCB-1242	UG/KG	40 U	37 U	44 U	41 U	190000 U	37 UJ
PCB-1248	UG/KG	40 U	37 U	44 U	41 U	190000 U	37 UJ
PCB-1254	UG/KG	40 U	37 U	44 U	41 U	190000 U	37 UJ
PCB-1260	UG/KG	40 U	37 U	44 U	41 U	190000 U	37 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG					2900 U	
BROMOMETHANE	UG/KG					2900 U	
VINYL CHLORIDE	UG/KG					2900 U	
CHLOROETHANE	UG/KG					2900 U	
METHYLENE CHLORIDE	UG/KG					2900 U	
ACETONE	UG/KG					2900 U	
CARBON DISULFIDE	UG/KG					2900 U	
1,1-DICHLOROETHENE	UG/KG					2900 U	
1,1-DICHLOROETHANE	UG/KG					2900 U	
1,2-DICHLOROETHENE	UG/KG					2900 U	
CHLOROFORM	UG/KG					2900 U	
1,2-DICHLOROETHANE	UG/KG					2900 U	
2-BUTANONE	UG/KG					2900 U	

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB13-01	6-201A-SB14-01	6-201A-SB15-01	6-201A-SB16-01	6-201A-SB17-01	6-201A-SB18-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00446-02	00447-02	00447-04	00447-06	00446-04	00447-08	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						2900 U
CARBON TETRACHLORIDE	UG/KG						2900 U
BROMODICHLOROMETHANE	UG/KG						2900 U
1,2-DICHLOROPROPANE	UG/KG						2900 U
CIS-1,3-DICHLOROPROPENE	UG/KG						2900 U
TRICHLOROETHENE	UG/KG						2900 U
DIBROMOCHLOROMETHANE	UG/KG						2900 U
1,1,2-TRICHLOROETHANE	UG/KG						2900 U
BENZENE	UG/KG						2900 U
TRANS-1,3-DICHLOROPROPENE	UG/KG						2900 U
BROMOFORM	UG/KG						2900 U
4-METHYL-2-PENTANONE	UG/KG						2900 U
2-HEXANONE	UG/KG						2900 U
TETRACHLOROETHENE	UG/KG						2900 U
1,1,2,2-TETRACHLOROETHANE	UG/KG						2900 U
TOLUENE	UG/KG						2900 U
CHLOROBENZENE	UG/KG						2900 U
ETHYLBENZENE	UG/KG						2800 J
STYRENE	UG/KG						2900 U
TOTAL XYLENES	UG/KG						34000
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						16000 U
BIS(2-CHLOROETHYL) ETHER	UG/KG						16000 U
2-CHLOROPHENOL	UG/KG						16000 U
1,3-DICHLOROBENZENE	UG/KG						16000 U
1,4-DICHLOROBENZENE	UG/KG						16000 U
1,2-DICHLOROBENZENE	UG/KG						16000 U
2-METHYLPHENOL	UG/KG						16000 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						16000 U
4-METHYLPHENOL	UG/KG						16000 U
N-NITROSODI-N-PROPYLAMINE	UG/KG						16000 U
HEXACHLOROETHANE	UG/KG						16000 U
NITROBENZENE	UG/KG						16000 U
ISOPHORONE	UG/KG						16000 U
2-NITROPHENOL	UG/KG						16000 U
2,4-DIMETHYLPHENOL	UG/KG						16000 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG						16000 U
2,4-DICHLOROPHENOL	UG/KG						16000 U
1,2,4-TRICHLOROBENZENE	UG/KG						16000 U
NAPHTHALENE	UG/KG						38000
4-CHLORANILINE	UG/KG						16000 U
HEXACHLOROBUTADIENE	UG/KG						16000 U

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB13-01	6-201A-SB14-01	6-201A-SB15-01	6-201A-SB16-01	6-201A-SB17-01	6-201A-SB18-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00446-02	00447-02	00447-04	00447-06	00446-04	00447-08
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG				16000 U	
2-METHYLNAPHTHALENE	UG/KG				97000	
HEXACHLOROCYCLOPENTADIENE	UG/KG				16000 U	
2,4,6-TRICHLOROPHENOL	UG/KG				16000 U	
2,4,5-TRICHLOROPHENOL	UG/KG				38000 U	
2-CHLORONAPHTHALENE	UG/KG				16000 U	
2-NITROANILINE	UG/KG				38000 U	
DIMETHYL PHTHALATE	UG/KG				16000 U	
ACENAPHTHYLENE	UG/KG				16000 U	
2,6-DINITROTOLUENE	UG/KG				16000 U	
3-NITROANILINE	UG/KG				38000 U	
ACENAPHTHENE	UG/KG				16000 U	
2,4-DINITROPHENOL	UG/KG				38000 U	
4-NITROPHENOL	UG/KG				38000 U	
DIBENZOPURAN	UG/KG				2800 J	
2,4-DINITROTOLUENE	UG/KG				16000 U	
DIETHYL PHTHALATE	UG/KG				16000 U	
4-CHLOROPHENYL PHENYL ETHER	UG/KG				16000 U	
FLUORENE	UG/KG				4100 J	
4-NITROANILINE	UG/KG				38000 U	
4,6-DINITRO-2-METHYLPHENOL	UG/KG				38000 U	
N-NITRISODIPHENYLAMINE	UG/KG				3500 J	
4-BROMOPHENYL PHENYL ETHER	UG/KG				16000 U	
HEXACHLOROBENZENE	UG/KG				16000 UJ	
PENTACHLOROPHENOL	UG/KG				38000 U	
PHENANTHRENE	UG/KG				16000 U	
ANTHRACENE	UG/KG				16000 U	
DI-N-BUTYL PHTHALATE	UG/KG				16000 U	
FLUORANTHENE	UG/KG				16000 U	
CARBAZOLE	UG/KG				16000 U	
PYRENE	UG/KG				16000 U	
BUTYL BENZYL PHTHALATE	UG/KG				16000 U	
3,3-DICHLOROBENZIDINE	UG/KG				16000 U	
BENZO(A)ANTHRACENE	UG/KG				16000 U	
CHRYSENE	UG/KG				16000 U	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG				16000 U	
DI-N-OCTYL PHTHALATE	UG/KG				16000 U	
BENZO(B)FLUORANTHENE	UG/KG				16000 U	
BENZO(K)FLUORANTHENE	UG/KG				16000 U	
BENZO(A)PYRENE	UG/KG				16000 U	
INDENO(1,2,3-CD) PYRENE	UG/KG				16000 U	
DIBENZ(A,H)ANTHRACENE	UG/KG				16000 U	
BENZO(G,H,I)PERYLENE	UG/KG				16000 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB19-01	6-201A-SB2-01	6-201A-SB20-01	6-201A-SB21-01	6-201A-SB22-01	6-201A-SB23-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00447-11	00452-04	00447-13	00447-15	00447-17	00447-19
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
BETA-BHC	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
DELTA-BHC	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
HEPTACHLOR	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
ALDRIN	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
ENDOSULFAN I	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
DIELDRIN	UG/KG	3.5 U	3.8 U	3.5 U	3.6 U	3.5 U
4,4'-DDE	UG/KG	3.5 U	3.8 U	15	3.6 U	3.5 U
ENDRIN	UG/KG	3.5 U	3.8 U	3.5 U	3.6 U	3.5 U
ENDOSULFAN II	UG/KG	3.5 U	3.8 U	3.5 U	3.6 U	3.5 U
4,4'-DDD	UG/KG	3.5 U	3.8 U	3.5 J	3.6 U	3.5 U
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.8 U	3.5 U	3.6 U	3.5 U
4,4'-DDT	UG/KG	3.5 U	3.8 UJ	39	7.1	8.2
METHOXYCHLOR	UG/KG	18 U	20 U	18 U	19 U	18 U
ENDRIN KETONE	UG/KG	3.5 U	3.8 U	3.5 U	3.6 U	3.5 U
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.8 U	3.5 U	3.6 U	3.5 U
ALPHA CHLORDANE	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.8 U	2 U	1.8 U	1.8 U	1.8 U
TOXAPHENE	UG/KG	180 U	200 U	180 U	190 U	180 U
PCB-1016	UG/KG	35 U		35 U	36 U	35 U
PCB-1221	UG/KG	72 U		72 U	73 U	71 U
PCB-1232	UG/KG	35 U		35 U	36 U	35 U
PCB-1242	UG/KG	35 U		35 U	36 U	35 U
PCB-1248	UG/KG	35 U		35 U	36 U	35 U
PCB-1254	UG/KG	35 U		35 U	36 U	35 U
PCB-1260	UG/KG	35 U		35 U	36 U	35 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG					
BROMOMETHANE	UG/KG					
VINYL CHLORIDE	UG/KG					
CHLOROETHANE	UG/KG					
METHYLENE CHLORIDE	UG/KG					
ACETONE	UG/KG					
CARBON DISULFIDE	UG/KG					
1,1-DICHLOROETHENE	UG/KG					
1,1-DICHLOROETHANE	UG/KG					
1,2-DICHLOROETHENE	UG/KG					
CHLOROFORM	UG/KG					
1,2-DICHLOROETHANE	UG/KG					
2-BUTANONE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201A-SB19-01	6-201A-SB2-01	6-201A-SB20-01	6-201A-SB21-01	6-201A-SB22-01	6-201A-SB23-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/27/92	8/28/92	8/27/92	8/27/92	8/27/92	8/27/92
	Lab Id:	00447-11	00452-04	00447-13	00447-15	00447-17	00447-19
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						
CARBON TETRACHLORIDE	UG/KG						
BROMODICHLOROMETHANE	UG/KG						
1,2-DICHLOROPROPANE	UG/KG						
CIS-1,3-DICHLOROPROPENE	UG/KG						
TRICHLOROETHENE	UG/KG						
DIBROMOCHLOROMETHANE	UG/KG						
1,1,2-TRICHLOROETHANE	UG/KG						
BENZENE	UG/KG						
TRANS-1,3-DICHLOROPROPENE	UG/KG						
BROMOFORM	UG/KG						
4-METHYL-2-PENTANONE	UG/KG						
2-HEXANONE	UG/KG						
TETRACHLOROETHENE	UG/KG						
1,1,2,2-TETRACHLOROETHANE	UG/KG						
TOLUENE	UG/KG						
CHLOROBENZENE	UG/KG						
ETHYLBENZENE	UG/KG						
STYRENE	UG/KG						
TOTAL XYLENES	UG/KG						
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						
BIS(2-CHLOROETHYL) ETHER	UG/KG						
2-CHLOROPHENOL	UG/KG						
1,3-DICHLOROBENZENE	UG/KG						
1,4-DICHLOROBENZENE	UG/KG						
1,2-DICHLOROBENZENE	UG/KG						
2-METHYLPHENOL	UG/KG						
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						
4-METHYLPHENOL	UG/KG						
N-NITROSODI-N-PROPYLAMINE	UG/KG						
HEXACHLOROETHANE	UG/KG						
NITROBENZENE	UG/KG						
ISOPHORONE	UG/KG						
2-NITROPHENOL	UG/KG						
2,4-DIMETHYLPHENOL	UG/KG						
BIS(2-CHLOROETHOXY) METHANE	UG/KG						
2,4-DICHLOROPHENOL	UG/KG						
1,2,4-TRICHLOROBENZENE	UG/KG						
NAPHTHALENE	UG/KG						
4-CHLORANILINE	UG/KG						
HEXACHLOROBUTADIENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201A-SB19-01	6-201A-SB2-01	6-201A-SB20-01	6-201A-SB21-01	6-201A-SB22-01	6-201A-SB23-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/27/92	8/28/92	8/27/92	8/27/92	8/27/92	8/27/92
	Lab Id:	00447-11	00452-04	00447-13	00447-15	00447-17	00447-19
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG						
2-METHYLNAPHTHALENE	UG/KG						
HEXACHLOROCYCLOPENTADIENE	UG/KG						
2,4,6-TRICHLOROPHENOL	UG/KG						
2,4,5-TRICHLOROPHENOL	UG/KG						
2-CHLORONAPHTHALENE	UG/KG						
2-NITROANILINE	UG/KG						
DIMETHYL PHTHALATE	UG/KG						
ACENAPHTHYLENE	UG/KG						
2,6-DINITROTOLUENE	UG/KG						
3-NITROANILINE	UG/KG						
ACENAPHTHENE	UG/KG						
2,4-DINITROPHENOL	UG/KG						
4-NITROPHENOL	UG/KG						
DIBENZOFURAN	UG/KG						
2,4-DINITROTOLUENE	UG/KG						
DIETHYL PHTHALATE	UG/KG						
4-CHLOROPHENYL PHENYL ETHER	UG/KG						
FLUORENE	UG/KG						
4-NITROANILINE	UG/KG						
4,6-DINITRO-2-METHYLPHENOL	UG/KG						
N-NITROSODIPHENYLAMINE	UG/KG						
4-BROMOPHENYL PHENYL ETHER	UG/KG						
HEXACHLOROBENZENE	UG/KG						
PENTACHLOROPHENOL	UG/KG						
PHENANTHRENE	UG/KG						
ANTHRACENE	UG/KG						
DI-N-BUTYL PHTHALATE	UG/KG						
FLUORANTHENE	UG/KG						
CARBAZOLE	UG/KG						
PYRENE	UG/KG						
BUTYL BENZYL PHTHALATE	UG/KG						
3,3-DICHLOROBENZIDINE	UG/KG						
BENZO(A)ANTHRACENE	UG/KG						
CHRYSENE	UG/KG						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG						
DI-N-OCTYL PHTHALATE	UG/KG						
BENZO(B)FLUORANTHENE	UG/KG						
BENZO(K)FLUORANTHENE	UG/KG						
BENZO(A)PYRENE	UG/KG						
INDENO(1,2,3-CD) PYRENE	UG/KG						
DIBENZ(A,H)ANTHRACENE	UG/KG						
BENZO(G,H,I)PERYLENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB24-01	6-201A-SB25-01	6-201A-SB26-01	6-201A-SB27-01	6-201A-SB28-02	6-201A-SB29-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00447-21	00446-06	00447-24	00447-26	00447-28	00447-30
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
BETA-BHC	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
DELTA-BHC	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
HEPTACHLOR	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
ALDRIN	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
ENDOSULFAN I	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
DIELDRIN	UG/KG	3.4 U	3.4 U	3.6 U	3.5 UJ	3.8 U
4,4'-DDE	UG/KG	3.4 U	3.4 U	3.6 U	3.5 UJ	3.8 U
ENDRIN	UG/KG	3.4 U	3.4 U	3.6 U	3.5 UJ	3.8 U
ENDOSULFAN II	UG/KG	3.4 U	3.4 U	3.6 U	3.5 UJ	3.8 U
4,4'-DDD	UG/KG	3.4 U	6.4 J	3.9 J	11 J	7.1 J
ENDOSULFAN SULFATE	UG/KG	3.4 U	3.4 U	3.6 U	3.5 UJ	3.8 U
4,4'-DDT	UG/KG	17	23	10	35 J	24
METHOXYCHLOR	UG/KG	18 U	18 UJ	18 U	18 UJ	20 U
ENDRIN KETONE	UG/KG	3.4 U	3.4 U	3.6 U	3.5 UJ	3.8 U
ENDRIN ALDEHYDE	UG/KG	3.4 U	3.4 U	3.6 U	3.5 UJ	3.8 U
ALPHA CHLORDANE	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
GAMMA CHLORDANE	UG/KG	1.8 U	1.8 U	1.8 U	1.8 UJ	2 U
TOXAPHENE	UG/KG	180 U	180 U	180 U	180 UJ	200 U
PCB-1016	UG/KG	34 U	34 U	36 U	35 UJ	38 U
PCB-1221	UG/KG	70 U	70 U	73 U	70 UJ	77 U
PCB-1232	UG/KG	34 U	34 U	36 U	35 UJ	38 U
PCB-1242	UG/KG	34 U	34 U	36 U	35 UJ	38 U
PCB-1248	UG/KG	34 U	34 U	36 U	35 UJ	38 U
PCB-1254	UG/KG	34 U	34 U	36 U	35 UJ	38 U
PCB-1260	UG/KG	34 U	34 U	36 U	35 UJ	38 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG		11 U			
BROMOMETHANE	UG/KG		11 U			
VINYL CHLORIDE	UG/KG		11 U			
CHLOROETHANE	UG/KG		11 U			
METHYLENE CHLORIDE	UG/KG		11 U			
ACETONE	UG/KG		25 UJ			
CARBON DISULFIDE	UG/KG		11 U			
1,1-DICHLOROETHENE	UG/KG		11 U			
1,1-DICHLOROETHANE	UG/KG		11 U			
1,2-DICHLOROETHENE	UG/KG		11 U			
CHLOROFORM	UG/KG		11 U			
1,2-DICHLOROETHANE	UG/KG		11 U			
2-BUTANONE	UG/KG		11 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-201A-SB24-01	6-201A-SB25-01	6-201A-SB26-01	6-201A-SB27-01	6-201A-SB28-02	6-201A-SB29-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
	Lab Id:	00447-21	00446-06	00447-24	00447-26	00447-28	00447-30
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG		11 U				
CARBON TETRACHLORIDE	UG/KG		11 UJ				
BROMODICHLOROMETHANE	UG/KG		11 U				
1,2-DICHLOROPROPANE	UG/KG		11 U				
CIS-1,3-DICHLOROPROPENE	UG/KG		11 U				
TRICHLOROETHENE	UG/KG		11 U				
DIBROMOCHLOROMETHANE	UG/KG		11 U				
1,1,2-TRICHLOROETHANE	UG/KG		11 U				
BENZENE	UG/KG		11 U				
TRANS-1,3-DICHLOROPROPENE	UG/KG		11 U				
BROMOFORM	UG/KG		11 U				
4-METHYL-2-PENTANONE	UG/KG		11 U				
2-HEXANONE	UG/KG		11 U				
TETRACHLOROETHENE	UG/KG		4 J				
1,1,2,2-TETRACHLOROETHANE	UG/KG		11 U				
TOLUENE	UG/KG		11 U				
CHLOROENZENE	UG/KG		11 U				
ETHYLBENZENE	UG/KG		11 U				
STYRENE	UG/KG		11 U				
TOTAL XYLENES	UG/KG		11 U				
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG		340 U				
BIS(2-CHLOROETHYL) ETHER	UG/KG		340 U				
2-CHLOROPHENOL	UG/KG		340 U				
1,3-DICHLOROBENZENE	UG/KG		340 U				
1,4-DICHLOROBENZENE	UG/KG		36 J				
1,2-DICHLOROBENZENE	UG/KG		340 U				
2-METHYLPHENOL	UG/KG		340 U				
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG		340 U				
4-METHYLPHENOL	UG/KG		340 U				
N-NITROSODI-N-PROPYLAMINE	UG/KG		340 U				
HEXACHLOROETHANE	UG/KG		340 U				
NITROBENZENE	UG/KG		340 U				
ISOPHORONE	UG/KG		340 U				
2-NITROPHENOL	UG/KG		340 U				
2,4-DIMETHYLPHENOL	UG/KG		340 U				
BIS(2-CHLOROETHOXY) METHANE	UG/KG		340 U				
2,4-DICHLOROPHENOL	UG/KG		340 U				
1,2,4-TRICHLOROBENZENE	UG/KG		340 U				
NAPHTHALENE	UG/KG		340 U				
4-CHLORANILINE	UG/KG		340 U				
HEXACHLOROBUTADIENE	UG/KG		340 U				

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB24-01	6-201A-SB25-01	6-201A-SB26-01	6-201A-SB27-01	6-201A-SB28-02	6-201A-SB29-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92
Lab Id:	00447-21	00446-06	00447-24	00447-26	00447-28	00447-30
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	340 U				
2-METHYLNAPHTHALENE	UG/KG	340 U				
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U				
2,4,6-TRICHLOROPHENOL	UG/KG	340 U				
2,4,5-TRICHLOROPHENOL	UG/KG	830 U				
2-CHLORONAPHTHALENE	UG/KG	340 U				
2-NITROANILINE	UG/KG	830 U				
DIMETHYL PHTHALATE	UG/KG	340 U				
ACENAPHTHYLENE	UG/KG	340 U				
2,6-DINITROTOLUENE	UG/KG	340 U				
3-NITROANILINE	UG/KG	830 U				
ACENAPHTHENE	UG/KG	340 U				
2,4-DINITROPHENOL	UG/KG	830 U				
4-NITROPHENOL	UG/KG	830 U				
DIBENZOFURAN	UG/KG	340 U				
2,4-DINITROTOLUENE	UG/KG	340 U				
DIETHYL PHTHALATE	UG/KG	340 U				
4-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U				
FLUORENE	UG/KG	340 U				
4-NITROANILINE	UG/KG	830 U				
4,6-DINITRO-2-METHYLPHENOL	UG/KG	830 U				
N-NITRISODIPHENYLAMINE	UG/KG	340 U				
4-BROMOPHENYL PHENYL ETHER	UG/KG	340 U				
HEXACHLOROENZENE	UG/KG	340 U				
PENTACHLOROPHENOL	UG/KG	830 U				
PHENANTHRENE	UG/KG	340 U				
ANTHRACENE	UG/KG	340 U				
DI-N-BUTYL PHTHALATE	UG/KG	340 U				
FLUORANTHENE	UG/KG	340 U				
CARBAZOLE	UG/KG	340 U				
PYRENE	UG/KG	340 U				
BUTYL BENZYL PHTHALATE	UG/KG	340 U				
3,3-DICHLOROBENZIDINE	UG/KG	340 U				
BENZO(A)ANTHRACENE	UG/KG	340 U				
CHRYSENE	UG/KG	340 U				
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	340 U				
DI-N-OCTYL PHTHALATE	UG/KG	340 U				
BENZO(B)FLUORANTHENE	UG/KG	340 U				
BENZO(K)FLUORANTHENE	UG/KG	340 U				
BENZO(A)PYRENE	UG/KG	340 U				
INDENO(1,2,3-CD) PYRENE	UG/KG	340 U				
DIBENZ(A,H)ANTHRACENE	UG/KG	340 U				
BENZO(G,H,I)PERYLENE	UG/KG	340 U				

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB3-01	6-201A-SB30-02	6-201A-SB31-02	6-201A-SB32-02	6-201A-SB33-02	6-201A-SB34-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/28/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	
Lab Id:	00452-07	00447-33	00453-02	00453-04	00452-18	00453-06	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
BETA-BHC	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
DELTA-BHC	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
HEPTACHLOR	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
ALDRIN	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
ENDOSULFAN I	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
DIELDRIN	UG/KG	3.9 U	3.8 U	3.7 U	4 UR	3.7 U	3.6 UJ
4,4'-DDE	UG/KG	3.9 U	3.8 U	3.7 U	4 UR	36	3.6 UJ
ENDRIN	UG/KG	3.9 U	3.8 U	3.7 U	4 UR	3.7 U	3.6 UJ
ENDOSULFAN II	UG/KG	3.9 U	3.8 U	3.7 U	4 UR	3.7 U	3.6 UJ
4,4'-DDD	UG/KG	3.9 U	3.8 U	3.7 U	4 UR	7.1 J	3.6 UJ
ENDOSULFAN SULFATE	UG/KG	3.9 U	3.8 U	3.7 U	4 UR	3.7 U	3.6 UJ
4,4'-DDT	UG/KG	3.9 UJ	3.8 U	3.7 U	4 UR	36 J	3.6 UJ
METHOXYCHLOR	UG/KG	20 U	20 U	19 U	21 UR	19 U	18 UJ
ENDRIN KETONE	UG/KG	3.9 U	3.8 U	3.7 U	4 UR	3.7 U	3.6 UJ
ENDRIN ALDEHYDE	UG/KG	3.9 U	3.8 U	3.7 U	4 UR	3.7 U	3.6 UJ
ALPHA CHLORDANE	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
GAMMA CHLORDANE	UG/KG	2 U	2 U	1.9 U	2.1 UR	1.9 U	1.8 UJ
TOXAPHENE	UG/KG	200 U	200 U	190 U	210 UR	190 U	180 UJ
PCB-1016	UG/KG	38 U	38 U	37 U	40 UR	37 U	36 UJ
PCB-1221	UG/KG	78 U	78 U	75 U	81 UR	75 U	73 UJ
PCB-1232	UG/KG	38 U	38 U	37 U	40 UR	37 U	36 UJ
PCB-1242	UG/KG	38 U	38 U	37 U	40 UR	37 U	36 UJ
PCB-1248	UG/KG	38 U	38 U	37 U	40 UR	37 U	36 UJ
PCB-1254	UG/KG	38 U	38 U	37 U	40 UR	37 U	36 UJ
PCB-1260	UG/KG	38 U	38 U	37 U	40 UR	37 U	36 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG					11 U	
BROMOMETHANE	UG/KG					11 U	
VINYL CHLORIDE	UG/KG					11 UJ	
CHLOROETHANE	UG/KG					11 U	
METHYLENE CHLORIDE	UG/KG					11 U	
ACETONE	UG/KG					12 J	
CARBON DISULFIDE	UG/KG					11 U	
1,1-DICHLOROETHENE	UG/KG					11 U	
1,1-DICHLOROETHANE	UG/KG					11 U	
1,2-DICHLOROETHENE	UG/KG					11 U	
CHLOROFORM	UG/KG					11 U	
1,2-DICHLOROETHANE	UG/KG					11 U	
2-BUTANONE	UG/KG					11 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB3-01	6-201A-SB30-02	6-201A-SB31-02	6-201A-SB32-02	6-201A-SB33-02	6-201A-SB34-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/28/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	
Lab Id:	00452-07	00447-33	00453-02	00453-04	00452-18	00453-06	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						11 U
CARBON TETRACHLORIDE	UG/KG						11 UJ
BROMODICHLOROMETHANE	UG/KG						11 U
1,2-DICHLOROPROPANE	UG/KG						11 U
CIS-1,3-DICHLOROPROPENE	UG/KG						11 U
TRICHLOROETHENE	UG/KG						11 U
DIBROMOCHLOROMETHANE	UG/KG						11 U
1,1,2-TRICHLOROETHANE	UG/KG						11 U
BENZENE	UG/KG						11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG						11 U
BROMOFORM	UG/KG						11 U
4-METHYL-2-PENTANONE	UG/KG						11 U
2-HEXANONE	UG/KG						11 U
TETRACHLOROETHENE	UG/KG						11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG						11 U
TOLUENE	UG/KG						11 U
CHLOROBENZENE	UG/KG						11 U
ETHYLBENZENE	UG/KG						11 U
STYRENE	UG/KG						11 U
TOTAL XYLENES	UG/KG						11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						370 U
BIS(2-CHLOROETHYL) ETHER	UG/KG						370 U
2-CHLOROPHENOL	UG/KG						370 U
1,3-DICHLOROBENZENE	UG/KG						370 U
1,4-DICHLOROBENZENE	UG/KG						370 U
1,2-DICHLOROBENZENE	UG/KG						370 U
2-METHYLPHENOL	UG/KG						370 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						370 U
4-METHYLPHENOL	UG/KG						370 U
N-NITROSODI-N-PROPYLAMINE	UG/KG						370 U
HEXACHLOROETHANE	UG/KG						370 U
NITROBENZENE	UG/KG						370 U
ISOPHORONE	UG/KG						370 U
2-NITROPHENOL	UG/KG						370 U
2,4-DIMETHYLPHENOL	UG/KG						370 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG						370 U
2,4-DICHLOROPHENOL	UG/KG						370 U
1,2,4-TRICHLOROBENZENE	UG/KG						370 U
NAPHTHALENE	UG/KG						370 U
4-CHLORANILINE	UG/KG						370 U
HEXACHLOROBUTADIENE	UG/KG						370 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB3-01	6-201A-SB30-02	6-201A-SB31-02	6-201A-SB32-02	6-201A-SB33-02	6-201A-SB34-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/28/92	8/27/92	8/27/92	8/27/92	8/27/92	8/27/92	
Lab Id:	00452-07	00447-33	00453-02	00453-04	00452-18	00453-06	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG						370 U
2-METHYLNAPHTHALENE	UG/KG						370 U
HEXACHLOROCYCLOPENTADIENE	UG/KG						370 U
2,4,6-TRICHLOROPHENOL	UG/KG						370 U
2,4,5-TRICHLOROPHENOL	UG/KG						890 U
2-CHLORONAPHTHALENE	UG/KG						370 U
2-NITROANILINE	UG/KG						890 U
DIMETHYL PHTHALATE	UG/KG						370 U
ACENAPHTHYLENE	UG/KG						370 U
2,6-DINITROTOLUENE	UG/KG						370 U
3-NITROANILINE	UG/KG						890 U
ACENAPHTHENE	UG/KG						370 U
2,4-DINITROPHENOL	UG/KG						890 U
4-NITROPHENOL	UG/KG						890 U
DIBENZOFURAN	UG/KG						370 U
2,4-DINITROTOLUENE	UG/KG						370 U
DIETHYL PHTHALATE	UG/KG						370 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG						370 U
FLUORENE	UG/KG						370 U
4-NITROANILINE	UG/KG						890 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG						890 U
N-NITRISODIPHENYLAMINE	UG/KG						370 U
4-BROMOPHENYL PHENYL ETHER	UG/KG						370 U
HEXACHLOROBENZENE	UG/KG						370 U
PENTACHLOROPHENOL	UG/KG						890 U
PHENANTHRENE	UG/KG						370 U
ANTHRACENE	UG/KG						370 U
DI-N-BUTYL PHTHALATE	UG/KG						370 U
FLUORANTHENE	UG/KG						370 U
CARBAZOLE	UG/KG						370 U
PYRENE	UG/KG						370 U
BUTYL BENZYL PHTHALATE	UG/KG						370 U
3,3-DICHLOROBENZIDINE	UG/KG						370 U
BENZO(A)ANTHRACENE	UG/KG						370 U
CHRYSENE	UG/KG						370 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG						370 U
DI-N-OCTYL PHTHALATE	UG/KG						370 U
BENZO(B)FLUORANTHENE	UG/KG						370 U
BENZO(K)FLUORANTHENE	UG/KG						370 U
BENZO(A)PYRENE	UG/KG						370 U
INDENO(1,2,3-CD) PYRENE	UG/KG						370 U
DIBENZ(A,H)ANTHRACENE	UG/KG						370 U
BENZO(G,H,I)PERYLENE	UG/KG						370 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB35-02	6-201A-SB36-02	6-201A-SB37-02	6-201A-SB4-01	6-201A-SB5-01	6-201A-SB6-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/27/92	8/28/92	8/26/92	8/26/92
Lab Id:	00453-08	00453-11	00452-20	00452-09	00438-02	00438-03
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
BETA-BHC	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
DELTA-BHC	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
HEPTACHLOR	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
ALDRIN	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
ENDOSULFAN I	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
DIELDRIN	UG/KG	3.6 U	3.6 U	3.6 U	4 U	3.7 U
4,4'-DDE	UG/KG	3.6 U	3.6 U	3.6 U	4 U	3.7 U
ENDRIN	UG/KG	3.6 U	3.6 U	3.6 U	4 U	3.7 U
ENDOSULFAN II	UG/KG	3.6 U	3.6 U	3.6 U	4 U	3.7 U
4,4'-DDD	UG/KG	3.6 U	3.6 U	3.6 U	4 U	3.7 U
ENDOSULFAN SULFATE	UG/KG	3.6 U	3.6 U	3.6 U	4 U	3.7 U
4,4'-DDT	UG/KG	3.6 U	3.6 U	3.5 J	12 J	3.7 U
METHOXYCHLOR	UG/KG	19 U	18 U	19 U	20 U	19 U
ENDRIN KETONE	UG/KG	3.6 U	3.6 U	3.6 U	4 U	3.7 U
ENDRIN ALDEHYDE	UG/KG	3.6 U	3.6 U	3.6 U	4 U	3.7 U
ALPHA CHLORDANE	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
GAMMA CHLORDANE	UG/KG	1.9 U	1.8 U	1.9 U	2 U	1.9 U
TOXAPHENE	UG/KG	190 U	180 U	190 U	200 U	190 U
PCB-1016	UG/KG	36 U	36 U	36 U		
PCB-1221	UG/KG	73 U	72 U	73 U		
PCB-1232	UG/KG	36 U	36 U	36 U		
PCB-1242	UG/KG	36 U	36 U	36 U		
PCB-1248	UG/KG	36 U	36 U	36 U		
PCB-1254	UG/KG	36 U	36 U	36 U		
PCB-1260	UG/KG	36 U	36 U	36 U		
VOLATILES						
CHLOROMETHANE	UG/KG			11 U		
BROMOMETHANE	UG/KG			11 U		
VINYL CHLORIDE	UG/KG			11 U		
CHLOROETHANE	UG/KG			11 U		
METHYLENE CHLORIDE	UG/KG			11 U		
ACETONE	UG/KG			11 U		
CARBON DISULFIDE	UG/KG			11 U		
1,1-DICHLOROETHENE	UG/KG			11 U		
1,1-DICHLOROETHANE	UG/KG			11 U		
1,2-DICHLOROETHENE	UG/KG			11 U		
CHLOROFORM	UG/KG			11 U		
1,2-DICHLOROETHANE	UG/KG			11 U		
2-BUTANONE	UG/KG			11 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201A-SB35-02	6-201A-SB36-02	6-201A-SB37-02	6-201A-SB4-01	6-201A-SB5-01	6-201A-SB6-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/27/92	8/27/92	8/27/92	8/28/92	8/26/92	8/26/92
	Lab Id:	00453-08	00453-11	00452-20	00452-09	00438-02	00438-03
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG			11 U			
CARBON TETRACHLORIDE	UG/KG			11 UJ			
BROMODICHLOROMETHANE	UG/KG			11 U			
1,2-DICHLOROPROPANE	UG/KG			11 U			
CIS-1,3-DICHLOROPROPENE	UG/KG			11 U			
TRICHLOROETHENE	UG/KG			11 U			
DIBROMOCHLOROMETHANE	UG/KG			11 U			
1,1,2-TRICHLOROETHANE	UG/KG			11 U			
BENZENE	UG/KG			11 U			
TRANS-1,3-DICHLOROPROPENE	UG/KG			11 U			
BROMOFORM	UG/KG			11 U			
4-METHYL-2-PENTANONE	UG/KG			11 U			
2-HEXANONE	UG/KG			11 U			
TETRACHLOROETHENE	UG/KG			11 U			
1,1,2,2-TETRACHLOROETHANE	UG/KG			11 U			
TOLUENE	UG/KG			11 U			
CHLOROENZENE	UG/KG			11 U			
ETHYLBENZENE	UG/KG			11 U			
STYRENE	UG/KG			11 U			
TOTAL XYLENES	UG/KG			11 U			
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG			370 U			
BIS(2-CHLOROETHYL) ETHER	UG/KG			370 U			
2-CHLOROPHENOL	UG/KG			370 U			
1,3-DICHLOROBENZENE	UG/KG			370 U			
1,4-DICHLOROBENZENE	UG/KG			51 J			
1,2-DICHLOROBENZENE	UG/KG			370 U			
2-METHYLPHENOL	UG/KG			370 U			
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG			370 U			
4-METHYLPHENOL	UG/KG			370 U			
N-NITROSODI-N-PROPYLAMINE	UG/KG			370 U			
HEXACHLOROETHANE	UG/KG			370 U			
NITROBENZENE	UG/KG			370 U			
ISOPHORONE	UG/KG			370 U			
2-NITROPHENOL	UG/KG			370 U			
2,4-DIMETHYLPHENOL	UG/KG			370 U			
BIS(2-CHLOROETHOXY) METHANE	UG/KG			370 U			
2,4-DICHLOROPHENOL	UG/KG			370 U			
1,2,4-TRICHLOROBENZENE	UG/KG			370 U			
NAPHTHALENE	UG/KG			370 U			
4-CHLORANILINE	UG/KG			370 U			
HEXACHLOROBUTADIENE	UG/KG			370 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201A-SB35-02	6-201A-SB36-02	6-201A-SB37-02	6-201A-SB4-01	6-201A-SB5-01	6-201A-SB6-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/27/92	8/27/92	8/27/92	8/28/92	8/26/92	8/26/92
	Lab Id:	00453-08	00453-11	00452-20	00452-09	00438-02	00438-03
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG			370 U			
2-METHYLNAPHTHALENE	UG/KG			370 U			
HEXACHLOROCYCLOPENTADIENE	UG/KG			370 U			
2,4,6-TRICHLOROPHENOL	UG/KG			370 U			
2,4,5-TRICHLOROPHENOL	UG/KG			890 U			
2-CHLORONAPHTHALENE	UG/KG			370 U			
2-NITROANILINE	UG/KG			890 U			
DIMETHYL PHTHALATE	UG/KG			370 U			
ACENAPHTHYLENE	UG/KG			370 U			
2,6-DINITROTOLUENE	UG/KG			370 U			
3-NITROANILINE	UG/KG			890 U			
ACENAPHTHENE	UG/KG			370 U			
2,4-DINITROPHENOL	UG/KG			890 U			
4-NITROPHENOL	UG/KG			890 U			
DIBENZOFURAN	UG/KG			370 U			
2,4-DINITROTOLUENE	UG/KG			370 U			
DIETHYL PHTHALATE	UG/KG			370 U			
4-CHLOROPHENYL PHENYL ETHER	UG/KG			370 U			
FLUORENE	UG/KG			370 U			
4-NITROANILINE	UG/KG			890 U			
4,6-DINITRO-2-METHYLPHENOL	UG/KG			890 U			
N-NITRISODIPHENYLAMINE	UG/KG			370 U			
4-BROMOPHENYL PHENYL ETHER	UG/KG			370 UJ			
HEXACHLOROBENZENE	UG/KG			370 UJ			
PENTACHLOROPHENOL	UG/KG			890 U			
PHENANTHRENE	UG/KG			370 U			
ANTHRACENE	UG/KG			370 U			
DI-N-BUTYL PHTHALATE	UG/KG			370 U			
FLUORANTHENE	UG/KG			370 U			
CARBAZOLE	UG/KG			370 U			
PYRENE	UG/KG			370 U			
BUTYL BENZYL PHTHALATE	UG/KG			370 U			
3,3-DICHLOROBENZIDINE	UG/KG			370 U			
BENZO(A)ANTHRACENE	UG/KG			370 U			
CHRYSENE	UG/KG			370 U			
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG			370 U			
DI-N-OCTYL PHTHALATE	UG/KG			370 U			
BENZO(B)FLUORANTHENE	UG/KG			370 U			
BENZO(K)FLUORANTHENE	UG/KG			370 U			
BENZO(A)PYRENE	UG/KG			370 U			
INDENO(1,2,3-CD) PYRENE	UG/KG			370 U			
DIBENZ(A,H)ANTHRACENE	UG/KG			370 U			
BENZO(G,H,I)PERYLENE	UG/KG			370 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB6-02	6-201A-SB7-02	6-201A-SB8-02	6-201A-SB9-02	6-201B-SB1-03	6-201B-SB10-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/28/92
Lab Id:	00438-04	00438-06	00438-09	00438-11	00438-13	00432-30
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
BETA-BHC	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
DELTA-BHC	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
GAMMA-BHC(LINDANE)	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
HEPTACHLOR	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
ALDRIN	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
HEPTACHLOR EPOXIDE	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
ENDOSULFAN I	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
DIELDRIN	UG/KG	3.8 U	3.7 U	3.8 U	3.5 U	3.7 UJ 3.9 U
4,4'-DDE	UG/KG	3.8 U	3.7 U	3.8 U	3.5 U	3.7 UJ 3.9 U
ENDRIN	UG/KG	3.8 U	3.7 U	3.8 U	3.5 U	3.7 UJ 3.9 U
ENDOSULFAN II	UG/KG	3.8 U	3.7 U	3.8 U	3.5 U	3.7 UJ 3.9 U
4,4'-DDD	UG/KG	3.8 U	3.7 U	3.8 U	3.5 U	3.7 UJ 5.5
ENDOSULFAN SULFATE	UG/KG	3.8 U	3.7 U	3.8 U	3.5 U	3.7 UJ 3.9 U
4,4'-DDT	UG/KG	3.8 U	3.7 U	3.8 U	13 J	3.7 UJ 10 J
METHOXYCHLOR	UG/KG	19 U	19 U	20 U	18 U	19 UJ 20 U
ENDRIN KETONE	UG/KG	3.8 U	3.7 U	3.8 U	3.5 U	3.7 UJ 3.9 U
ENDRIN ALDEHYDE	UG/KG	3.8 U	3.7 U	3.8 U	3.5 U	3.7 UJ 3.9 U
ALPHA CHLORDANE	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
GAMMA CHLORDANE	UG/KG	1.9 U	1.9 U	2 U	1.8 U	1.9 UJ 2 U
TOXAPHENE	UG/KG	190 U	190 U	200 U	180 U	190 UJ 200 U
PCB-1016	UG/KG					39 U
PCB-1221	UG/KG					79 U
PCB-1232	UG/KG					39 U
PCB-1242	UG/KG					39 U
PCB-1248	UG/KG					39 U
PCB-1254	UG/KG					39 U
PCB-1260	UG/KG					39 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG					
BROMOMETHANE	UG/KG					
VINYL CHLORIDE	UG/KG					
CHLOROETHANE	UG/KG					
METHYLENE CHLORIDE	UG/KG					
ACETONE	UG/KG					
CARBON DISULFIDE	UG/KG					
1,1-DICHLOROETHENE	UG/KG					
1,1-DICHLOROETHANE	UG/KG					
1,2-DICHLOROETHENE	UG/KG					
CHLOROFORM	UG/KG					
1,2-DICHLOROETHANE	UG/KG					
2-BUTANONE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201A-SB6-02	6-201A-SB7-02	6-201A-SB8-02	6-201A-SB9-02	6-201B-SB1-03	6-201B-SB10-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/28/92
Lab Id:	00438-04	00438-06	00438-09	00438-11	00438-13	00432-30
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG					
CARBON TETRACHLORIDE	UG/KG					
BROMODICHLOROMETHANE	UG/KG					
1,2-DICHLOROPROPANE	UG/KG					
CIS-1,3-DICHLOROPROPENE	UG/KG					
TRICHLOROETHENE	UG/KG					
DIBROMOCHLOROMETHANE	UG/KG					
1,1,2-TRICHLOROETHANE	UG/KG					
BENZENE	UG/KG					
TRANS-1,3-DICHLOROPROPENE	UG/KG					
BROMOFORM	UG/KG					
4-METHYL-2-PENTANONE	UG/KG					
2-HEXANONE	UG/KG					
TETRACHLOROETHENE	UG/KG					
1,1,2,2-TETRACHLOROETHANE	UG/KG					
TOLUENE	UG/KG					
CHLOROBENZENE	UG/KG					
ETHYLBENZENE	UG/KG					
STYRENE	UG/KG					
TOTAL XYLENES	UG/KG					
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG					
BIS(2-CHLOROETHYL) ETHER	UG/KG					
2-CHLOROPHENOL	UG/KG					
1,3-DICHLOROBENZENE	UG/KG					
1,4-DICHLOROBENZENE	UG/KG					
1,2-DICHLOROBENZENE	UG/KG					
2-METHYLPHENOL	UG/KG					
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG					
4-METHYLPHENOL	UG/KG					
N-NITROSODI-N-PROPYLAMINE	UG/KG					
HEXACHLOROETHANE	UG/KG					
NITROBENZENE	UG/KG					
ISOPHORONE	UG/KG					
2-NITROPHENOL	UG/KG					
2,4-DIMETHYLPHENOL	UG/KG					
BIS(2-CHLOROETHOXY) METHANE	UG/KG					
2,4-DICHLOROPHENOL	UG/KG					
1,2,4-TRICHLOROBENZENE	UG/KG					
NAPHTHALENE	UG/KG					
4-CHLORANILINE	UG/KG					
HEXACHLOROBUTADIENE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201A-SB6-02	6-201A-SB7-02	6-201A-SB8-02	6-201A-SB9-02	6-201B-SB1-03	6-201B-SB10-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/28/92
Lab Id:	00438-04	00438-06	00438-09	00438-11	00438-13	00452-30
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG					
2-METHYLNAPHTHALENE	UG/KG					
HEXACHLOROCYCLOPENTADIENE	UG/KG					
2,4,6-TRICHLOROPHENOL	UG/KG					
2,4,5-TRICHLOROPHENOL	UG/KG					
2-CHLORONAPHTHALENE	UG/KG					
2-NITROANILINE	UG/KG					
DIMETHYL PHTHALATE	UG/KG					
ACENAPHTHYLENE	UG/KG					
2,6-DINITROTOLUENE	UG/KG					
3-NITROANILINE	UG/KG					
ACENAPHTHENE	UG/KG					
2,4-DINITROPHENOL	UG/KG					
4-NITROPHENOL	UG/KG					
DIBENZOFURAN	UG/KG					
2,4-DINITROTOLUENE	UG/KG					
DIETHYL PHTHALATE	UG/KG					
4-CHLOROPHENYL PHENYL ETHER	UG/KG					
FLUORENE	UG/KG					
4-NITROANILINE	UG/KG					
4,6-DINITRO-2-METHYLPHENOL	UG/KG					
N-NITROSODIPHENYLAMINE	UG/KG					
4-BROMOPHENYL PHENYL ETHER	UG/KG					
HEXACHLOROBENZENE	UG/KG					
PENTACHLOROPHENOL	UG/KG					
PHENANTHRENE	UG/KG					
ANTHRACENE	UG/KG					
DI-N-BUTYL PHTHALATE	UG/KG					
FLUORANTHENE	UG/KG					
CARBAZOLE	UG/KG					
PYRENE	UG/KG					
BUTYL BENZYL PHTHALATE	UG/KG					
3,3-DICHLOROBENZIDINE	UG/KG					
BENZO(A)ANTHRACENE	UG/KG					
CHRYSENE	UG/KG					
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					
DI-N-OCTYL PHTHALATE	UG/KG					
BENZO(B)FLUORANTHENE	UG/KG					
BENZO(K)FLUORANTHENE	UG/KG					
BENZO(A)PYRENE	UG/KG					
INDENO(1,2,3-CD) PYRENE	UG/KG					
DIBENZ(A,H)ANTHRACENE	UG/KG					
BENZO(G,H,I)PERYLENE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB11-01	6-201B-SB12-01	6-201B-SB13-02	6-201B-SB14-03	6-201B-SB15-01	6-201B-SB15-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/31/92	8/31/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00463-05	00463-07	00438-17	00448-02	00448-04	00448-05	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
BETA-BHC	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
DELTA-BHC	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
HEPTACHLOR	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
ALDRIN	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
ENDOSULFAN I	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
DIELDRIN	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	18 UJ	3.4 U
4,4'-DDE	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	18 UJ	3.4 U
ENDRIN	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	18 UJ	3.4 U
ENDOSULFAN II	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	18 UJ	3.4 U
4,4'-DDD	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	46 J	3.6
ENDOSULFAN SULFATE	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	18 UJ	3.4 U
4,4'-DDT	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	88 J	7.5 J
METHOXYCHLOR	UG/KG	18 UJ	18 UJ	18 U	19 U	91 UJ	18 U
ENDRIN KETONE	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	18 UJ	3.4 U
ENDRIN ALDEHYDE	UG/KG	3.6 UJ	3.6 UJ	3.5 U	3.8 U	18 UJ	3.4 U
ALPHA CHLORDANE	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
GAMMA CHLORDANE	UG/KG	1.8 UJ	1.8 UJ	1.8 U	1.9 U	9.1 UJ	1.8 U
TOXAPHENE	UG/KG	180 UJ	180 UJ	180 U	190 U	910 UJ	180 U
PCB-1016	UG/KG	36 UJ	36 UJ	35 U		180 UJ	
PCB-1221	UG/KG	72 UJ	72 UJ	71 U		360 UJ	
PCB-1232	UG/KG	36 UJ	36 UJ	35 U		180 UJ	
PCB-1242	UG/KG	36 UJ	36 UJ	35 U		180 UJ	
PCB-1248	UG/KG	36 UJ	36 UJ	35 U		180 UJ	
PCB-1254	UG/KG	36 UJ	36 UJ	35 U		180 UJ	
PCB-1260	UG/KG	36 UJ	36 UJ	35 U		180 UJ	
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG			11 U			
BROMOMETHANE	UG/KG			11 U			
VINYL CHLORIDE	UG/KG			11 U			
CHLOROETHANE	UG/KG			11 U			
METHYLENE CHLORIDE	UG/KG			11 U			
ACETONE	UG/KG			14 UJ			
CARBON DISULFIDE	UG/KG			11 U			
1,1-DICHLOROETHENE	UG/KG			11 U			
1,1-DICHLOROETHANE	UG/KG			11 U			
1,2-DICHLOROETHENE	UG/KG			11 U			
CHLOROFORM	UG/KG			11 U			
1,2-DICHLOROETHANE	UG/KG			11 U			
2-BUTANONE	UG/KG			11 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB11-01	6-201B-SB12-01	6-201B-SB13-02	6-201B-SB14-03	6-201B-SB15-01	6-201B-SB15-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/31/92	8/31/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00463-05	00463-07	00438-17	00448-02	00448-04	00448-05

Parameter	Units	
<u>VOLATILES Cont.</u>		
1,1,1-TRICHLOROETHANE	UG/KG	11 U
CARBON TETRACHLORIDE	UG/KG	11 U
BROMODICHLOROMETHANE	UG/KG	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U
TRICHLOROETHENE	UG/KG	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U
BENZENE	UG/KG	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U
BROMOFORM	UG/KG	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U
2-HEXANONE	UG/KG	11 U
TETRACHLOROETHENE	UG/KG	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U
TOLUENE	UG/KG	11 U
CHLOROBENZENE	UG/KG	11 U
ETHYLBENZENE	UG/KG	11 U
STYRENE	UG/KG	11 U
TOTAL XYLENES	UG/KG	11 U
<u>SEMIVOLATILES</u>		
PHENOL	UG/KG	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U
2-CHLOROPHENOL	UG/KG	350 U
1,3-DICHLOROBENZENE	UG/KG	350 U
1,4-DICHLOROBENZENE	UG/KG	350 U
1,2-DICHLOROBENZENE	UG/KG	350 U
2-METHYLPHENOL	UG/KG	350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U
4-METHYLPHENOL	UG/KG	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U
HEXACHLOROETHANE	UG/KG	350 U
NITROBENZENE	UG/KG	350 U
ISOPHORONE	UG/KG	350 U
2-NITROPHENOL	UG/KG	350 U
2,4-DIMETHYLPHENOL	UG/KG	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U
2,4-DICHLOROPHENOL	UG/KG	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U
NAPHTHALENE	UG/KG	350 U
4-CHLORANILINE	UG/KG	350 U
HEXACHLOROBUTADIENE	UG/KG	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB11-01	6-201B-SB12-01	6-201B-SB13-02	6-201B-SB14-03	6-201B-SB15-01	6-201B-SB15-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/31/92	8/31/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00463-05	00463-07	00438-17	00448-02	00448-04	00448-05	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG						350 U
2-METHYLNAPHTHALENE	UG/KG						350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG						350 U
2,4,6-TRICHLOROPHENOL	UG/KG						350 U
2,4,5-TRICHLOROPHENOL	UG/KG						850 U
2-CHLORONAPHTHALENE	UG/KG						350 U
2-NITROANILINE	UG/KG						850 U
DIMETHYL PHTHALATE	UG/KG						350 U
ACENAPHTHYLENE	UG/KG						350 U
2,6-DINITROTOLUENE	UG/KG						350 U
3-NITROANILINE	UG/KG						850 U
ACENAPHTHENE	UG/KG						350 U
2,4-DINITROPHENOL	UG/KG						850 U
4-NITROPHENOL	UG/KG						850 U
DIBENZOFURAN	UG/KG						350 U
2,4-DINITROTOLUENE	UG/KG						350 U
DIETHYL PHTHALATE	UG/KG						350 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG						350 U
FLUORENE	UG/KG						350 U
4-NITROANILINE	UG/KG						850 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG						850 U
N-NITRISODIPHENYLAMINE	UG/KG						350 U
4-BROMOPHENYL PHENYL ETHER	UG/KG						350 U
HEXACHLOROENZENE	UG/KG						350 U
PENTACHLOROPHENOL	UG/KG						850 U
PHENANTHRENE	UG/KG						350 U
ANTHRACENE	UG/KG						350 U
DI-N-BUTYL PHTHALATE	UG/KG						350 U
FLUORANTHENE	UG/KG						350 U
CARBAZOLE	UG/KG						350 U
PYRENE	UG/KG						350 U
BUTYL BENZYL PHTHALATE	UG/KG						350 U
3,3-DICHLOROBENZIDINE	UG/KG						350 U
BENZO(A)ANTHRACENE	UG/KG						350 U
CHRYSENE	UG/KG						350 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG						160 J
DI-N-OCTYL PHTHALATE	UG/KG						350 U
BENZO(B)FLUORANTHENE	UG/KG						350 U
BENZO(K)FLUORANTHENE	UG/KG						350 U
BENZO(A)PYRENE	UG/KG						350 U
INDENO(1,2,3-CD) PYRENE	UG/KG						350 U
DIBENZ(A,H)ANTHRACENE	UG/KG						350 UJ
BENZO(G,H,I)PERYLENE	UG/KG						350 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB16-02	6-201B-SB17-02	6-201B-SB18-02	6-201B-SB19-02	6-201B-SB2-03	6-201B-SB20-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/26/92	8/26/92	8/26/92	8/27/92	8/26/92	8/27/92	
Lab Id:	00448-07	00446-16	00448-10	00448-12	00438-15	00448-14	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
BETA-BHC	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
DELTA-BHC	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
HEPTACHLOR	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
ALDRIN	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
ENDOSULFAN I	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
DIELDRIN	UG/KG	35 UJ	3.9 U	3.5 U	3.5 U	3.7 UJ	3.5 U
4,4'-DDE	UG/KG	35 UJ	3.9 U	3.5 U	3.5 U	3.7 UJ	3.5 U
ENDRIN	UG/KG	35 UJ	3.9 U	3.5 U	3.5 U	3.7 UJ	3.5 U
ENDOSULFAN II	UG/KG	35 UJ	3.9 U	3.5 U	3.5 U	3.7 UJ	3.5 U
4,4'-DDD	UG/KG	53 J	6.8 J	3.5 U	3.5 U	36 J	3.5 U
ENDOSULFAN SULFATE	UG/KG	35 UJ	3.9 U	3.5 U	3.5 U	3.7 UJ	3.5 U
4,4'-DDT	UG/KG	340 J	43 J	3.5 U	5.1	86 J	3.5 U
METHOXYCHLOR	UG/KG	180 UJ	20 U	18 U	18 U	19 UJ	18 U
ENDRIN KETONE	UG/KG	35 UJ	3.9 U	3.5 U	3.5 U	3.7 UJ	3.5 U
ENDRIN ALDEHYDE	UG/KG	35 UJ	3.9 U	3.5 U	3.5 U	3.7 UJ	3.5 U
ALPHA CHLORDANE	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
GAMMA CHLORDANE	UG/KG	18 UJ	2 U	1.8 U	1.8 U	1.9 UJ	1.8 U
TOXAPHENE	UG/KG	1800 UJ	200 U	180 U	180 U	190 UJ	180 U
PCB-1016	UG/KG	350 UJ	39 U	39 U			
PCB-1221	UG/KG	700 UJ	79 U				
PCB-1232	UG/KG	350 UJ	39 U				
PCB-1242	UG/KG	350 UJ	39 U				
PCB-1248	UG/KG	350 UJ	39 U				
PCB-1254	UG/KG	350 UJ	39 U				
PCB-1260	UG/KG	350 UJ	39 U				
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG		11 U				
BROMOMETHANE	UG/KG		11 U				
VINYL CHLORIDE	UG/KG		11 U				
CHLOROETHANE	UG/KG		11 U				
METHYLENE CHLORIDE	UG/KG		11 U				
ACETONE	UG/KG		130 J				
CARBON DISULFIDE	UG/KG		11 U				
1,1-DICHLOROETHENE	UG/KG		11 U				
1,1-DICHLOROETHANE	UG/KG		11 U				
1,2-DICHLOROETHENE	UG/KG		11 U				
CHLOROFORM	UG/KG		11 U				
1,2-DICHLOROETHANE	UG/KG		11 U				
2-BUTANONE	UG/KG		11 U				

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB16-02	6-201B-SB17-02	6-201B-SB18-02	6-201B-SB19-02	6-201B-SB2-03	6-201B-SB20-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/27/92	8/26/92	8/27/92
Lab Id:	00448-07	00446-16	00448-10	00448-12	00438-15	00448-14
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG		11 U			
CARBON TETRACHLORIDE	UG/KG		11 UJ			
BROMODICHLOROMETHANE	UG/KG		11 U			
1,2-DICHLOROPROPANE	UG/KG		11 U			
CIS-1,3-DICHLOROPROPENE	UG/KG		11 U			
TRICHLOROETHENE	UG/KG		11 U			
DIBROMOCHLOROMETHANE	UG/KG		11 U			
1,1,2-TRICHLOROETHANE	UG/KG		11 U			
BENZENE	UG/KG		11 U			
TRANS-1,3-DICHLOROPROPENE	UG/KG		11 U			
BROMOFORM	UG/KG		11 U			
4-METHYL-2-PENTANONE	UG/KG		11 U			
2-HEXANONE	UG/KG		11 U			
TETRACHLOROETHENE	UG/KG		11 U			
1,1,2,2-TETRACHLOROETHANE	UG/KG		11 U			
TOLUENE	UG/KG		11 U			
CHLOROBENZENE	UG/KG		11 U			
ETHYLBENZENE	UG/KG		11 U			
STYRENE	UG/KG		11 U			
TOTAL XYLENES	UG/KG		11 U			
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG		380 U			
BIS(2-CHLOROETHYL) ETHER	UG/KG		380 U			
2-CHLOROPHENOL	UG/KG		380 U			
1,3-DICHLOROBENZENE	UG/KG		380 U			
1,4-DICHLOROBENZENE	UG/KG		46 J			
1,2-DICHLOROBENZENE	UG/KG		380 U			
2-METHYLPHENOL	UG/KG		380 U			
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG		380 U			
4-METHYLPHENOL	UG/KG		380 U			
N-NITROSODI-N-PROPYLAMINE	UG/KG		380 U			
HEXACHLOROETHANE	UG/KG		380 U			
NITROBENZENE	UG/KG		380 U			
ISOPHORONE	UG/KG		380 U			
2-NITROPHENOL	UG/KG		380 U			
2,4-DIMETHYLPHENOL	UG/KG		380 U			
BIS(2-CHLOROETHOXY) METHANE	UG/KG		380 U			
2,4-DICHLOROPHENOL	UG/KG		380 U			
1,2,4-TRICHLOROBENZENE	UG/KG		380 U			
NAPHTHALENE	UG/KG		380 U			
4-CHLORANILINE	UG/KG		380 U			
HEXACHLOROBUTADIENE	UG/KG		380 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB16-02	6-201B-SB17-02	6-201B-SB18-02	6-201B-SB19-02	6-201B-SB2-03	6-201B-SB20-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/27/92	8/26/92	8/27/92
Lab Id:	00448-07	00446-16	00448-10	00448-12	00438-15	00448-14
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	380 U				
2-METHYLNAPHTHALENE	UG/KG	380 U				
HEXACHLOROCYCLOPENTADIENE	UG/KG	380 U				
2,4,6-TRICHLOROPHENOL	UG/KG	380 U				
2,4,5-TRICHLOROPHENOL	UG/KG	930 U				
2-CHLORONAPHTHALENE	UG/KG	380 U				
2-NITROANILINE	UG/KG	930 U				
DIMETHYL PHTHALATE	UG/KG	380 U				
ACENAPHTHYLENE	UG/KG	380 U				
2,6-DINITROTOLUENE	UG/KG	380 U				
3-NITROANILINE	UG/KG	930 U				
ACENAPHTHENE	UG/KG	380 U				
2,4-DINITROPHENOL	UG/KG	930 U				
4-NITROPHENOL	UG/KG	930 U				
DIBENZOFURAN	UG/KG	380 U				
2,4-DINITROTOLUENE	UG/KG	380 U				
DIETHYL PHTHALATE	UG/KG	380 U				
4-CHLOROPHENYL PHENYL ETHER	UG/KG	380 U				
FLUORENE	UG/KG	380 U				
4-NITROANILINE	UG/KG	930 U				
4,6-DINITRO-2-METHYLPHENOL	UG/KG	930 U				
N-NITRISODIPHENYLAMINE	UG/KG	380 U				
4-BROMOPHENYL PHENYL ETHER	UG/KG	380 U				
HEXACHLOROBENZENE	UG/KG	380 U				
PENTACHLOROPHENOL	UG/KG	930 U				
PHENANTHRENE	UG/KG	380 U				
ANTHRACENE	UG/KG	380 U				
DI-N-BUTYL PHTHALATE	UG/KG	380 U				
FLUORANTHENE	UG/KG	380 U				
CARBAZOLE	UG/KG	380 U				
PYRENE	UG/KG	380 U				
BUTYL BENZYL PHTHALATE	UG/KG	380 U				
3,3-DICHLOROBENZIDINE	UG/KG	380 U				
BENZO(A)ANTHRACENE	UG/KG	380 U				
CHRYSENE	UG/KG	380 U				
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	380 U				
DI-N-OCTYL PHTHALATE	UG/KG	380 U				
BENZO(B)FLUORANTHENE	UG/KG	380 U				
BENZO(K)FLUORANTHENE	UG/KG	380 U				
BENZO(A)PYRENE	UG/KG	380 U				
INDENO(1,2,3-CD) PYRENE	UG/KG	380 U				
DIBENZ(A,H)ANTHRACENE	UG/KG	380 U				
BENZO(G,H,I)PERYLENE	UG/KG	380 U				

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB21-02	6-201B-SB22-02	6-201B-SB23-01	6-201B-SB24-01	6-201B-SB25-01	6-201B-SB26-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/28/92	8/27/92	8/27/92	8/27/92
Lab Id:	00448-16	00448-19	00453-13	00453-15	00452-32	00453-17
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
BETA-BHC	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
DELTA-BHC	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
HEPTACHLOR	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
ALDRIN	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
ENDOSULFAN I	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
DIELDRIN	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
4,4'-DDE	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
ENDRIN	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
ENDOSULFAN II	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
4,4'-DDD	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
ENDOSULFAN SULFATE	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
4,4'-DDT	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
METHOXYCHLOR	UG/KG	19 U	18 U	18 U	19 U	18 U
ENDRIN KETONE	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
ENDRIN ALDEHYDE	UG/KG	3.6 U	3.5 U	3.6 U	3.6 U	3.5 U
ALPHA CHLORDANE	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
TOXAPHENE	UG/KG	190 U	180 U	180 U	190 U	180 U
PCB-1016	UG/KG			36 U	36 U	35 U
PCB-1221	UG/KG			73 U	73 U	70 U
PCB-1232	UG/KG			36 U	36 U	35 U
PCB-1242	UG/KG			36 U	36 U	35 U
PCB-1248	UG/KG			36 U	36 U	35 U
PCB-1254	UG/KG			36 U	36 U	35 U
PCB-1260	UG/KG			36 U	36 U	35 U
VOLATILES						
CHLOROMETHANE	UG/KG				11 U	
BROMOMETHANE	UG/KG				11 U	
VINYL CHLORIDE	UG/KG				11 U	
CHLOROETHANE	UG/KG				11 U	
METHYLENE CHLORIDE	UG/KG				11 U	
ACETONE	UG/KG				11 U	
CARBON DISULFIDE	UG/KG				11 U	
1,1-DICHLOROETHENE	UG/KG				11 U	
1,1-DICHLOROETHANE	UG/KG				11 U	
1,2-DICHLOROETHENE	UG/KG				11 U	
CHLOROFORM	UG/KG				11 U	
1,2-DICHLOROETHANE	UG/KG				11 U	
2-BUTANONE	UG/KG				11 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-201B-SB21-02	6-201B-SB22-02	6-201B-SB23-01	6-201B-SB24-01	6-201B-SB25-01	6-201B-SB26-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/27/92	8/27/92	8/28/92	8/27/92	8/27/92	8/27/92
	Lab Id:	00448-16	00448-19	00453-13	00453-15	00452-32	00453-17
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG					11 U	
CARBON TETRACHLORIDE	UG/KG					11 UJ	
BROMODICHLOROMETHANE	UG/KG					11 U	
1,2-DICHLOROPROPANE	UG/KG					11 U	
CIS-1,3-DICHLOROPROPENE	UG/KG					11 U	
TRICHLOROETHENE	UG/KG					11 U	
DIBROMOCHLOROMETHANE	UG/KG					11 U	
1,1,2-TRICHLOROETHANE	UG/KG					11 U	
BENZENE	UG/KG					11 U	
TRANS-1,3-DICHLOROPROPENE	UG/KG					11 U	
BROMOFORM	UG/KG					11 U	
4-METHYL-2-PENTANONE	UG/KG					11 U	
2-HEXANONE	UG/KG					11 U	
TETRACHLOROETHENE	UG/KG					11 U	
1,1,2,2-TETRACHLOROETHANE	UG/KG					11 U	
TOLUENE	UG/KG					11 U	
CHLOROBENZENE	UG/KG					11 U	
ETHYLBENZENE	UG/KG					11 U	
STYRENE	UG/KG					11 U	
TOTAL XYLENES	UG/KG					11 U	
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG					360 U	
BIS(2-CHLOROETHYL) ETHER	UG/KG					360 U	
2-CHLOROPHENOL	UG/KG					360 U	
1,3-DICHLOROBENZENE	UG/KG					360 U	
1,4-DICHLOROBENZENE	UG/KG					360 U	
1,2-DICHLOROBENZENE	UG/KG					360 U	
2-METHYLPHENOL	UG/KG					360 U	
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG					360 U	
4-METHYLPHENOL	UG/KG					360 U	
N-NITROSODI-N-PROPYLAMINE	UG/KG					360 U	
HEXACHLOROETHANE	UG/KG					360 U	
NITROBENZENE	UG/KG					360 U	
ISOPHORONE	UG/KG					360 U	
2-NITROPHENOL	UG/KG					360 U	
2,4-DIMETHYLPHENOL	UG/KG					360 U	
BIS(2-CHLOROETHOXY) METHANE	UG/KG					360 U	
2,4-DICHLOROPHENOL	UG/KG					360 U	
1,2,4-TRICHLOROBENZENE	UG/KG					360 U	
NAPHTHALENE	UG/KG					360 U	
4-CHLORANILINE	UG/KG					360 U	
HEXACHLOROBUTADIENE	UG/KG					360 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB21-02	6-201B-SB22-02	6-201B-SB23-01	6-201B-SB24-01	6-201B-SB25-01	6-201B-SB26-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/27/92	8/28/92	8/27/92	8/27/92	8/27/92
Lab Id:	00448-16	00448-19	00453-13	00453-15	00452-32	00453-17

Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG					360 U
2-METHYLNAPHTHALENE	UG/KG					360 U
HEXACHLOROCYCLOPENTADIENE	UG/KG					360 U
2,4,6-TRICHLOROPHENOL	UG/KG					360 U
2,4,5-TRICHLOROPHENOL	UG/KG					860 U
2-CHLORONAPHTHALENE	UG/KG					360 U
2-NITROANILINE	UG/KG					860 U
DIMETHYL PHTHALATE	UG/KG					360 U
ACENAPHTHYLENE	UG/KG					360 U
2,6-DINITROTOLUENE	UG/KG					360 U
3-NITROANILINE	UG/KG					860 U
ACENAPHTHENE	UG/KG					360 U
2,4-DINITROPHENOL	UG/KG					860 U
4-NITROPHENOL	UG/KG					860 U
DIBENZOFURAN	UG/KG					360 U
2,4-DINITROTOLUENE	UG/KG					360 U
DIETHYL PHTHALATE	UG/KG					360 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG					360 U
FLUORENE	UG/KG					360 U
4-NITROANILINE	UG/KG					860 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG					860 U
N-NITRISODIPHENYLAMINE	UG/KG					360 U
4-BROMOPHENYL PHENYL ETHER	UG/KG					360 UJ
HEXACHLOROBENZENE	UG/KG					360 UJ
PENTACHLOROPHENOL	UG/KG					860 U
PHENANTHRENE	UG/KG					360 U
ANTHRACENE	UG/KG					360 U
DI-N-BUTYL PHTHALATE	UG/KG					360 U
FLUORANTHENE	UG/KG					360 U
CARBAZOLE	UG/KG					360 U
PYRENE	UG/KG					360 U
BUTYL BENZYL PHTHALATE	UG/KG					360 U
3,3-DICHLOROBENZIDINE	UG/KG					360 U
BENZO(A)ANTHRACENE	UG/KG					360 U
CHRYSENE	UG/KG					360 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					79 J
DI-N-OCTYL PHTHALATE	UG/KG					360 U
BENZO(B)FLUORANTHENE	UG/KG					360 U
BENZO(K)FLUORANTHENE	UG/KG					360 U
BENZO(A)PYRENE	UG/KG					360 U
INDENO(1,2,3-CD) PYRENE	UG/KG					360 U
DIBENZ(A,H)ANTHRACENE	UG/KG					360 U
BENZO(G,H,I)PERYLENE	UG/KG					360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB27-02	6-201B-SB28-01	6-201B-SB29-01	6-201B-SB3-02	6-201B-SB30-01	6-201B-SB31-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/27/92	8/26/92	8/27/92	8/27/92
Lab Id:	00453-19	00453-21	00453-24	00446-08	00453-26	00453-28
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
BETA-BHC	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
DELTA-BHC	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
HEPTACHLOR	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
ALDRIN	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
ENDOSULFAN I	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
DIELDRIN	UG/KG	3.9 U	3.7 UR	3.5 UR	20 U	3.7 U
4,4'-DDE	UG/KG	3.9 U	3.7 UR	3.5 UR	20 U	3.7 U
ENDRIN	UG/KG	3.9 U	3.7 UR	3.5 UR	20 U	3.7 U
ENDOSULFAN II	UG/KG	3.9 U	3.7 UR	3.5 UR	20 U	3.7 U
4,4'-DDD	UG/KG	3.9 U	3.7 UR	3.5 UR	63 J	3.7 U
ENDOSULFAN SULFATE	UG/KG	3.9 U	3.7 UR	3.5 UR	20 U	3.7 U
4,4'-DDT	UG/KG	3.9 U	3.7 UR	3.5 UR	91 J	3.7 U
METHOXYCHLOR	UG/KG	20 U	19 UR	18 UR	100 U	19 U
ENDRIN KETONE	UG/KG	3.9 U	3.7 UR	3.5 UR	20 U	3.7 U
ENDRIN ALDEHYDE	UG/KG	3.9 U	3.7 UR	3.5 UR	20 U	3.7 U
ALPHA CHLORDANE	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
GAMMA CHLORDANE	UG/KG	2 U	1.9 UR	1.8 UR	10 U	1.9 U
TOXAPHENE	UG/KG	200 U	190 UR	180 UR	1000 U	190 U
PCB-1016	UG/KG	39 U	37 UR	35 UR		37 U
PCB-1221	UG/KG	78 U	75 UR	72 UR		76 U
PCB-1232	UG/KG	39 U	37 UR	35 UR		37 U
PCB-1242	UG/KG	39 U	37 UR	35 UR		37 U
PCB-1248	UG/KG	39 U	37 UR	35 UR		37 U
PCB-1254	UG/KG	39 U	37 UR	35 UR		37 U
PCB-1260	UG/KG	39 U	37 UR	35 UR		37 U

VOLATILES	
CHLOROMETHANE	UG/KG
BROMOMETHANE	UG/KG
VINYL CHLORIDE	UG/KG
CHLOROETHANE	UG/KG
METHYLENE CHLORIDE	UG/KG
ACETONE	UG/KG
CARBON DISULFIDE	UG/KG
1,1-DICHLOROETHENE	UG/KG
1,1-DICHLOROETHANE	UG/KG
1,2-DICHLOROETHENE	UG/KG
CHLOROFORM	UG/KG
1,2-DICHLOROETHANE	UG/KG
2-BUTANONE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB27-02	6-201B-SB28-01	6-201B-SB29-01	6-201B-SB3-02	6-201B-SB30-01	6-201B-SB31-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/27/92	8/26/92	8/27/92	8/27/92
Lab Id:	00453-19	00453-21	00453-24	00446-08	00453-26	00453-28

Parameter Units

VOLATILES Cont.

1,1,1-TRICHLOROETHANE	UG/KG
CARBON TETRACHLORIDE	UG/KG
BROMODICHLOROMETHANE	UG/KG
1,2-DICHLOROPROPANE	UG/KG
CIS-1,3-DICHLOROPROPENE	UG/KG
TRICHLOROETHENE	UG/KG
DIBROMOCHLOROMETHANE	UG/KG
1,1,2-TRICHLOROETHANE	UG/KG
BENZENE	UG/KG
TRANS-1,3-DICHLOROPROPENE	UG/KG
BROMOFORM	UG/KG
4-METHYL-2-PENTANONE	UG/KG
2-HEXANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROBENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG

SEMIVOLATILES

PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
2-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB27-02	6-201B-SB28-01	6-201B-SB29-01	6-201B-SB3-02	6-201B-SB30-01	6-201B-SB31-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/27/92	8/26/92	8/27/92	8/27/92
Lab Id:	00453-19	00453-21	00453-24	00446-08	00453-26	00453-28

Parameter	Units
<u>SEMIVOLATILES Cont.</u>	
4-CHLORO-3-METHYLPHENOL	UG/KG
2-METHYLNAPHTHALENE	UG/KG
HEXACHLOROCYCLOPENTADIENE	UG/KG
2,4,6-TRICHLOROPHENOL	UG/KG
2,4,5-TRICHLOROPHENOL	UG/KG
2-CHLORONAPHTHALENE	UG/KG
2-NITROANILINE	UG/KG
DIMETHYL PHTHALATE	UG/KG
ACENAPHTHYLENE	UG/KG
2,6-DINITROTOLUENE	UG/KG
3-NITROANILINE	UG/KG
ACENAPHTHENE	UG/KG
2,4-DINITROPHENOL	UG/KG
4-NITROPHENOL	UG/KG
DIBENZOFURAN	UG/KG
2,4-DINITROTOLUENE	UG/KG
DIETHYL PHTHALATE	UG/KG
4-CHLOROPHENYL PHENYL ETHER	UG/KG
FLUORENE	UG/KG
4-NITROANILINE	UG/KG
4,6-DINITRO-2-METHYLPHENOL	UG/KG
N-NITRISODIPHENYLAMINE	UG/KG
4-BROMOPHENYL PHENYL ETHER	UG/KG
HEXACHLOROBENZENE	UG/KG
PENTACHLOROPHENOL	UG/KG
PHENANTHRENE	UG/KG
ANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(A,H)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201B-SB32-01	6-201B-SB33-01	6-201B-SB34-01	6-201B-SB35-01	6-201B-SB36-02	6-201B-SB37-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/27/92	8/28/92	8/28/92	8/27/92	8/27/92	8/27/92
	Lab Id:	00453-30	00452-35	00453-33	00453-35	00453-37	00452-37
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
BETA-BHC	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
DELTA-BHC	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
HEPTACHLOR	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
ALDRIN	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
ENDOSULFAN I	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
DIELDRIN	UG/KG	3.7 UJ	18 U	3.5 U	3.5 UJ	3.4 U	3.5 U
4,4'-DDE	UG/KG	3.7 UJ	66	3.5 U	3.5 UJ	4.5	3.5 U
ENDRIN	UG/KG	3.7 UJ	18 U	3.5 U	3.5 UJ	3.4 U	3.5 U
ENDOSULFAN II	UG/KG	3.7 UJ	18 U	3.5 U	3.5 UJ	3.4 U	3.5 U
4,4'-DDD	UG/KG	3.7 UJ	18 U	3.5 U	3.5 UJ	3.4 U	3.5 U
ENDOSULFAN SULFATE	UG/KG	3.7 UJ	18 U	3.5 U	3.5 UJ	3.4 U	3.5 U
4,4'-DDT	UG/KG	3.7 UJ	88 J	3.5 U	3.5 UJ	4.5	3.5 UJ
METHOXYCHLOR	UG/KG	19 UJ	91 U	18 U	18 UJ	18 U	18 U
ENDRIN KETONE	UG/KG	3.7 UJ	18 U	3.5 U	3.5 UJ	3.4 U	3.5 U
ENDRIN ALDEHYDE	UG/KG	3.7 UJ	18 U	3.5 U	3.5 UJ	3.4 U	3.5 U
ALPHA CHLORDANE	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.9 UJ	9.1 U	1.8 U	1.8 UJ	1.8 U	1.8 U
TOXAPHENE	UG/KG	190 UJ	910 U	180 U	180 UJ	180 U	180 U
PCB-1016	UG/KG	37 UJ	180 U	35 U	35 UJ	34 U	35 U
PCB-1221	UG/KG	76 UJ	360 U	72 U	70 UJ	70 U	72 U
PCB-1232	UG/KG	37 UJ	180 U	35 U	35 UJ	34 U	35 U
PCB-1242	UG/KG	37 UJ	180 U	35 U	35 UJ	34 U	35 U
PCB-1248	UG/KG	37 UJ	180 U	35 U	35 UJ	34 U	35 U
PCB-1254	UG/KG	37 UJ	180 U	35 U	35 UJ	34 U	35 U
PCB-1260	UG/KG	37 UJ	180 U	35 U	35 UJ	34 U	35 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG		11 U				11 U
BROMOMETHANE	UG/KG		11 U				11 U
VINYL CHLORIDE	UG/KG		11 U				11 U
CHLOROETHANE	UG/KG		11 U				11 U
METHYLENE CHLORIDE	UG/KG		11 U				11 U
ACETONE	UG/KG		25 J				96 J
CARBON DISULFIDE	UG/KG		11 U				11 U
1,1-DICHLOROETHENE	UG/KG		11 U				11 U
1,1-DICHLOROETHANE	UG/KG		11 U				11 U
1,2-DICHLOROETHENE	UG/KG		11 U				11 U
CHLOROFORM	UG/KG		11 U				11 U
1,2-DICHLOROETHANE	UG/KG		11 U				11 U
2-BUTANONE	UG/KG		11 U				11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB32-01	6-201B-SB33-01	6-201B-SB34-01	6-201B-SB35-01	6-201B-SB36-02	6-201B-SB37-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/28/92	8/27/92	8/27/92	8/27/92
Lab Id:	00453-30	00452-35	00453-33	00453-35	00453-37	00452-37
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U				11 U
CARBON TETRACHLORIDE	UG/KG	11 U				11 U
BROMODICHLOROMETHANE	UG/KG	11 U				11 U
1,2-DICHLOROPROPANE	UG/KG	11 U				11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U				11 U
TRICHLOROETHENE	UG/KG	11 U				11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U				11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U				11 U
BENZENE	UG/KG	11 U				11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U				11 U
BROMOFORM	UG/KG	11 U				11 U
4-METHYL-2-PENTANONE	UG/KG	11 U				11 U
2-HEXANONE	UG/KG	11 U				11 U
TETRACHLOROETHENE	UG/KG	11 U				11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U				11 U
TOLUENE	UG/KG	11 U				11 U
CHLOROBENZENE	UG/KG	11 U				11 U
ETHYLBENZENE	UG/KG	11 U				11 U
STYRENE	UG/KG	11 U				11 U
TOTAL XYLENES	UG/KG	11 U				11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	350 U				350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U				350 U
2-CHLOROPHENOL	UG/KG	350 U				350 U
1,3-DICHLOROBENZENE	UG/KG	350 U				350 U
1,4-DICHLOROBENZENE	UG/KG	350 U				350 U
1,2-DICHLOROBENZENE	UG/KG	350 U				350 U
2-METHYLPHENOL	UG/KG	350 U				350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U				350 U
4-METHYLPHENOL	UG/KG	350 U				350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U				350 U
HEXACHLOROETHANE	UG/KG	350 U				350 U
NITROBENZENE	UG/KG	350 U				350 U
ISOPHORONE	UG/KG	350 U				350 U
2-NITROPHENOL	UG/KG	350 U				350 U
2,4-DIMETHYLPHENOL	UG/KG	350 U				350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U				350 U
2,4-DICHLOROPHENOL	UG/KG	350 U				350 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U				350 U
NAPHTHALENE	UG/KG	350 U				350 U
4-CHLORANILINE	UG/KG	350 U				350 U
HEXACHLOROBUTADIENE	UG/KG	350 U				350 U

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB32-01	6-201B-SB33-01	6-201B-SB34-01	6-201B-SB35-01	6-201B-SB36-02	6-201B-SB37-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/28/92	8/28/92	8/27/92	8/27/92	8/27/92
Lab Id:	00453-30	00452-35	00453-33	00453-35	00453-37	00452-37
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	350 U				350 U
2-METHYLNAPHTHALENE	UG/KG	350 U				350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U				350 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 U				350 U
2,4,5-TRICHLOROPHENOL	UG/KG	860 U				850 U
2-CHLORONAPHTHALENE	UG/KG	350 U				350 U
2-NITROANILINE	UG/KG	860 U				850 U
DIMETHYL PHTHALATE	UG/KG	350 U				350 U
ACENAPHTHYLENE	UG/KG	350 U				350 U
2,6-DINITROTOLUENE	UG/KG	350 U				350 U
3-NITROANILINE	UG/KG	860 U				850 U
ACENAPHTHENE	UG/KG	350 U				350 U
2,4-DINITROPHENOL	UG/KG	860 U				850 U
4-NITROPHENOL	UG/KG	860 U				850 U
DIBENZOFURAN	UG/KG	350 U				350 U
2,4-DINITROTOLUENE	UG/KG	350 U				350 U
DIETHYL PHTHALATE	UG/KG	350 U				350 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U				350 U
FLUORENE	UG/KG	350 U				350 U
4-NITROANILINE	UG/KG	860 U				850 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	860 U				850 U
N-NITROSODIPHENYLAMINE	UG/KG	350 U				350 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 UJ				350 UJ
HEXACHLOROBENZENE	UG/KG	350 UJ				350 UJ
PENTACHLOROPHENOL	UG/KG	860 U				850 U
PHENANTHRENE	UG/KG	350 U				350 U
ANTHRACENE	UG/KG	350 U				350 U
DI-N-BUTYL PHTHALATE	UG/KG	350 U				350 U
FLUORANTHENE	UG/KG	350 U				350 U
CARBAZOLE	UG/KG	350 U				350 U
PYRENE	UG/KG	350 U				350 U
BUTYL BENZYL PHTHALATE	UG/KG	350 U				350 U
3,3-DICHLOROBENZIDINE	UG/KG	350 U				350 U
BENZO(A)ANTHRACENE	UG/KG	350 U				350 U
CHRYSENE	UG/KG	350 U				350 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	68 J				94 J
DI-N-OCTYL PHTHALATE	UG/KG	350 U				350 U
BENZO(B)FLUORANTHENE	UG/KG	350 U				350 U
BENZO(K)FLUORANTHENE	UG/KG	350 U				350 U
BENZO(A)PYRENE	UG/KG	350 U				350 U
INDENO(1,2,3-CD) PYRENE	UG/KG	350 U				350 U
DIBENZ(A,H)ANTHRACENE	UG/KG	350 U				350 U
BENZO(G,H,I)PERYLENE	UG/KG	350 U				350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB4-01	6-201B-SB5-02	6-201B-SB6-01	6-201B-SB6-02	6-201B-SB7-01	6-201B-SB7A-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/31/92	8/27/92	8/27/92	8/27/92	8/28/92	8/26/92
Lab Id:	00463-02	00446-11	00446-13	00446-14	00432-23	00547-02
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
BETA-BHC	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
DELTA-BHC	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
HEPTACHLOR	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
ALDRIN	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
ENDOSULFAN I	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
DIELDRIN	UG/KG	3.7 UJ	3.6 U	3.9 U	3.8 U	3.7 U
4,4'-DDE	UG/KG	3.7 UJ	3.6 U	3.9 U	1.4 J	3.7 U
ENDRIN	UG/KG	3.7 UJ	3.6 U	3.9 U	3.8 U	3.7 U
ENDOSULFAN II	UG/KG	3.7 UJ	3.6 U	3.9 U	3.8 U	3.7 U
4,4'-DDD	UG/KG	3.7 UJ	6 J	2.4 J	0.58 J	3.7 U
ENDOSULFAN SULFATE	UG/KG	3.7 UJ	3.6 U	3.9 U	3.8 U	3.7 U
4,4'-DDT	UG/KG	3.7 UJ	3.9 J	3.6 J	3.4 J	3.7 UJ
METHOXYCHLOR	UG/KG	19 UJ	18 U	20 U	20 U	19 U
ENDRIN KETONE	UG/KG	3.7 UJ	3.6 U	3.9 U	3.8 U	3.7 U
ENDRIN ALDEHYDE	UG/KG	3.7 UJ	3.6 U	3.9 U	3.8 U	3.7 U
ALPHA CHLORDANE	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
GAMMA CHLORDANE	UG/KG	1.9 UJ	1.8 U	2 U	2 U	1.9 U
TOXAPHENE	UG/KG	190 UJ	180 U	200 U	200 U	190 U
PCB-1016	UG/KG	37 UJ				
PCB-1221	UG/KG	75 UJ				
PCB-1232	UG/KG	37 UJ				
PCB-1242	UG/KG	37 UJ				
PCB-1248	UG/KG	37 UJ				
PCB-1254	UG/KG	37 UJ				
PCB-1260	UG/KG	37 UJ				
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG				12 U	
BROMOMETHANE	UG/KG				12 U	
VINYL CHLORIDE	UG/KG				12 U	
CHLOROETHANE	UG/KG				12 U	
METHYLENE CHLORIDE	UG/KG				4 J	
ACETONE	UG/KG				12 UJ	
CARBON DISULFIDE	UG/KG				12 U	
1,1-DICHLOROETHENE	UG/KG				12 U	
1,1-DICHLOROETHANE	UG/KG				12 U	
1,2-DICHLOROETHENE	UG/KG				12 U	
CHLOROFORM	UG/KG				12 U	
1,2-DICHLOROETHANE	UG/KG				12 U	
2-BUTANONE	UG/KG				12 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201B-SB4-01	6-201B-SB5-02	6-201B-SB6-01	6-201B-SB6-02	6-201B-SB7-01	6-201B-SB7A-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/31/92	8/27/92	8/27/92	8/27/92	8/28/92	8/26/92
	Lab Id:	00463-02	00446-11	00446-13	00446-14	00452-23	00547-02
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG					12 U	
CARBON TETRACHLORIDE	UG/KG					12 U	
BROMODICHLOROMETHANE	UG/KG					12 U	
1,2-DICHLOROPROPANE	UG/KG					12 U	
CIS-1,3-DICHLOROPROPENE	UG/KG					12 U	
TRICHLOROETHENE	UG/KG					12 U	
DIBROMOCHLOROMETHANE	UG/KG					12 U	
1,1,2-TRICHLOROETHANE	UG/KG					12 U	
BENZENE	UG/KG					12 U	
TRANS-1,3-DICHLOROPROPENE	UG/KG					12 U	
BROMOFORM	UG/KG					12 U	
4-METHYL-2-PENTANONE	UG/KG					12 U	
2-HEXANONE	UG/KG					12 U	
TETRACHLOROETHENE	UG/KG					12 U	
1,1,2,2-TETRACHLOROETHANE	UG/KG					12 U	
TOLUENE	UG/KG					12 U	
CHLOROBENZENE	UG/KG					12 U	
ETHYLBENZENE	UG/KG					12 U	
STYRENE	UG/KG					12 U	
TOTAL XYLENES	UG/KG					12 U	
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						
BIS(2-CHLOROETHYL) ETHER	UG/KG						
2-CHLOROPHENOL	UG/KG						
1,3-DICHLOROBENZENE	UG/KG						
1,4-DICHLOROBENZENE	UG/KG						
1,2-DICHLOROBENZENE	UG/KG						
2-METHYLPHENOL	UG/KG						
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						
4-METHYLPHENOL	UG/KG						
N-NITROSODI-N-PROPYLAMINE	UG/KG						
HEXACHLOROETHANE	UG/KG						
NITROBENZENE	UG/KG						
ISOPHORONE	UG/KG						
2-NITROPHENOL	UG/KG						
2,4-DIMETHYLPHENOL	UG/KG						
BIS(2-CHLOROETHOXY) METHANE	UG/KG						
2,4-DICHLOROPHENOL	UG/KG						
1,2,4-TRICHLOROBENZENE	UG/KG						
NAPHTHALENE	UG/KG						
4-CHLORANILINE	UG/KG						
HEXACHLOROBUTADIENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB4-01	6-201B-SB5-02	6-201B-SB6-01	6-201B-SB6-02	6-201B-SB7-01	6-201B-SB7A-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/31/92	8/27/92	8/27/92	8/27/92	8/28/92	8/26/92
Lab Id:	00463-02	00446-11	00446-13	00446-14	00452-23	00547-02
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG					
2-METHYLNAPHTHALENE	UG/KG					
HEXACHLOROCYCLOPENTADIENE	UG/KG					
2,4,6-TRICHLOROPHENOL	UG/KG					
2,4,5-TRICHLOROPHENOL	UG/KG					
2-CHLORONAPHTHALENE	UG/KG					
2-NITROANILINE	UG/KG					
DIMETHYL PHTHALATE	UG/KG					
ACENAPHTHYLENE	UG/KG					
2,6-DINITROTOLUENE	UG/KG					
3-NITROANILINE	UG/KG					
ACENAPHTHENE	UG/KG					
2,4-DINITROPHENOL	UG/KG					
4-NITROPHENOL	UG/KG					
DIBENZOFURAN	UG/KG					
2,4-DINITROTOLUENE	UG/KG					
DIETHYL PHTHALATE	UG/KG					
4-CHLOROPHENYL PHENYL ETHER	UG/KG					
FLUORENE	UG/KG					
4-NITROANILINE	UG/KG					
4,6-DINITRO-2-METHYLPHENOL	UG/KG					
N-NITROSODIPHENYLAMINE	UG/KG					
4-BROMOPHENYL PHENYL ETHER	UG/KG					
HEXACHLOROBENZENE	UG/KG					
PENTACHLOROPHENOL	UG/KG					
PHENANTHRENE	UG/KG					
ANTHRACENE	UG/KG					
DI-N-BUTYL PHTHALATE	UG/KG					
FLUORANTHENE	UG/KG					
CARBAZOLE	UG/KG					
PYRENE	UG/KG					
BUTYL BENZYL PHTHALATE	UG/KG					
3,3-DICHLOROBENZIDINE	UG/KG					
BENZO(A)ANTHRACENE	UG/KG					
CHRYSENE	UG/KG					
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					
DI-N-OCTYL PHTHALATE	UG/KG					
BENZO(B)FLUORANTHENE	UG/KG					
BENZO(K)FLUORANTHENE	UG/KG					
BENZO(A)PYRENE	UG/KG					
INDENO(1,2,3-CD) PYRENE	UG/KG					
DIBENZ(A,H)ANTHRACENE	UG/KG					
BENZO(G,H,I)PERYLENE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201B-SB8-01	6-201B-SB9-01	6-201C-SB09-01	6-201C-SB1-01	6-201C-SB10-01	6-201C-SB11-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/28/92	8/28/92	8/30/92	8/31/92	8/30/92	8/29/92	
Lab Id:	00452-26	00452-28	00465-02	00463-09	00465-04	00457-08	
Parameter	Units						
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	2 U	10 U				
BETA-BHC	UG/KG	2 U	10 U				
DELTA-BHC	UG/KG	2 U	10 U				
GAMMA-BHC(LINDANE)	UG/KG	2 U	10 U				
HEPTACHLOR	UG/KG	2 U	10 U				
ALDRIN	UG/KG	2 U	10 U				
HEPTACHLOR EPOXIDE	UG/KG	2 U	10 U				
ENDOSULFAN I	UG/KG	2 U	10 U				
DIELDRIN	UG/KG	3.9 U	20 U				
4,4'-DDE	UG/KG	3.9 U	70				
ENDRIN	UG/KG	3.9 U	20 U				
ENDOSULFAN II	UG/KG	3.9 U	20 U				
4,4'-DDD	UG/KG	3.9 U	20 U				
ENDOSULFAN SULFATE	UG/KG	3.9 U	20 U				
4,4'-DDT	UG/KG	3.9 UJ	170				
METHOXYCHLOR	UG/KG	20 U	100 U				
ENDRIN KETONE	UG/KG	3.9 U	20 U				
ENDRIN ALDEHYDE	UG/KG	3.9 U	20 U				
ALPHA CHLORDANE	UG/KG	2 U	10 U				
GAMMA CHLORDANE	UG/KG	2 U	10 U				
TOXAPHENE	UG/KG	200 U	1000 U				
PCB-1016	UG/KG			40 U	39 U	37 U	41 U
PCB-1221	UG/KG			80 U	80 U	74 U	83 U
PCB-1232	UG/KG			40 U	39 U	37 U	41 U
PCB-1242	UG/KG			40 U	39 U	37 U	41 U
PCB-1248	UG/KG			40 U	39 U	37 U	41 U
PCB-1254	UG/KG			40 U	39 U	37 U	41 U
PCB-1260	UG/KG			40 U	39 U	37 U	41 U
VOLATILES							
CHLOROMETHANE	UG/KG						
BROMOMETHANE	UG/KG						
VINYL CHLORIDE	UG/KG						
CHLOROETHANE	UG/KG						
METHYLENE CHLORIDE	UG/KG						
ACETONE	UG/KG						
CARBON DISULFIDE	UG/KG						
1,1-DICHLOROETHENE	UG/KG						
1,1-DICHLOROETHANE	UG/KG						
1,2-DICHLOROETHENE	UG/KG						
CHLOROFORM	UG/KG						
1,2-DICHLOROETHANE	UG/KG						
2-BUTANONE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201B-SB8-01	6-201B-SB9-01	6-201C-SB09-01	6-201C-SB1-01	6-201C-SB10-01	6-201C-SB11-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/30/92	8/31/92	8/30/92	8/29/92
Lab Id:	00432-26	00452-28	00465-02	00463-09	00465-04	00457-08

Parameter	Units
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VOLATILES Cont.

1,1,1-TRICHLOROETHANE	UG/KG
CARBON TETRACHLORIDE	UG/KG
BROMODICHLOROMETHANE	UG/KG
1,2-DICHLOROPROPANE	UG/KG
CIS-1,3-DICHLOROPROPENE	UG/KG
TRICHLOROETHENE	UG/KG
DIBROMOCHLOROMETHANE	UG/KG
1,1,2-TRICHLOROETHANE	UG/KG
BENZENE	UG/KG
TRANS-1,3-DICHLOROPROPENE	UG/KG
BROMOFORM	UG/KG
4-METHYL-2-PENTANONE	UG/KG
2-HEXANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROBENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG

SEMIVOLATILES

PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
2-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201B-SB8-01	6-201B-SB9-01	6-201C-SB09-01	6-201C-SB1-01	6-201C-SB10-01	6-201C-SB11-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/28/92	8/28/92	8/30/92	8/31/92	8/30/92	8/29/92
	Lab Id:	00452-26	00452-28	00465-02	00463-09	00465-04	00457-08
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG						
2-METHYLNAPHTHALENE	UG/KG						
HEXACHLOROCYCLOPENTADIENE	UG/KG						
2,4,6-TRICHLOROPHENOL	UG/KG						
2,4,5-TRICHLOROPHENOL	UG/KG						
2-CHLORONAPHTHALENE	UG/KG						
2-NITROANILINE	UG/KG						
DIMETHYL PHTHALATE	UG/KG						
ACENAPHTHYLENE	UG/KG						
2,6-DINITROTOLUENE	UG/KG						
3-NITROANILINE	UG/KG						
ACENAPHTHENE	UG/KG						
2,4-DINITROPHENOL	UG/KG						
4-NITROPHENOL	UG/KG						
DIBENZOFURAN	UG/KG						
2,4-DINITROTOLUENE	UG/KG						
DIETHYL PHTHALATE	UG/KG						
4-CHLOROPHENYL PHENYL ETHER	UG/KG						
FLUORENE	UG/KG						
4-NITROANILINE	UG/KG						
4,6-DINITRO-2-METHYLPHENOL	UG/KG						
N-NITRISODIPHENYLAMINE	UG/KG						
4-BROMOPHENYL PHENYL ETHER	UG/KG						
HEXACHLOROBENZENE	UG/KG						
PENTACHLOROPHENOL	UG/KG						
PHENANTHRENE	UG/KG						
ANTHRACENE	UG/KG						
DI-N-BUTYL PHTHALATE	UG/KG						
FLUORANTHENE	UG/KG						
CARBAZOLE	UG/KG						
PYRENE	UG/KG						
BUTYL BENZYL PHTHALATE	UG/KG						
3,3-DICHLOROBENZIDINE	UG/KG						
BENZO(A)ANTHRACENE	UG/KG						
CHRYSENE	UG/KG						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG						
DI-N-OCTYL PHTHALATE	UG/KG						
BENZO(B)FLUORANTHENE	UG/KG						
BENZO(K)FLUORANTHENE	UG/KG						
BENZO(A)PYRENE	UG/KG						
INDENO(1,2,3-CD) PYRENE	UG/KG						
DIBENZ(A,H)ANTHRACENE	UG/KG						
BENZO(G,H,I)PERYLENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEBUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB12-03	6-201C-SB13-01	6-201C-SB14-02	6-201C-SB15-03	6-201C-SB16-03	6-201C-SB17-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/31/92	8/28/92	8/28/92	8/28/92	8/29/92
Lab Id:	00463-06	00474-02	00456-06	00456-08	00456-11	00457-10
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
BETA-BHC	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
DELTA-BHC	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
GAMMA-BHC(LINDANE)	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
HEPTACHLOR	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
ALDRIN	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
HEPTACHLOR EPOXIDE	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
ENDOSULFAN I	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
DIELDRIN	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
4,4'-DDE	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
ENDRIN	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
ENDOSULFAN II	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
4,4'-DDD	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
ENDOSULFAN SULFATE	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
4,4'-DDT	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
METHOXYCHLOR	UG/KG	20 U	19 U	18 U	18 U	17 U
ENDRIN KETONE	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
ENDRIN ALDEHYDE	UG/KG	3.8 U	3.6 U	3.4 U	3.4 U	3.3 U
ALPHA CHLORDANE	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
GAMMA CHLORDANE	UG/KG	2 U	1.9 U	1.8 U	1.8 U	1.7 U
TOXAPHENE	UG/KG	200 U	190 U	180 U	180 U	170 U
PCB-1016	UG/KG	36 U	38 U	36 U	34 U	33 U
PCB-1221	UG/KG	73 U	78 U	73 U	69 U	68 U
PCB-1232	UG/KG	36 U	38 U	36 U	34 U	33 U
PCB-1242	UG/KG	36 U	38 U	36 U	34 U	33 U
PCB-1248	UG/KG	36 U	38 U	36 U	34 U	33 U
PCB-1254	UG/KG	36 U	38 U	36 U	34 U	33 U
PCB-1260	UG/KG	36 U	38 U	36 U	34 U	33 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U				10 U
BROMOMETHANE	UG/KG	11 UJ				10 U
VINYL CHLORIDE	UG/KG	11 U				10 U
CHLOROETHANE	UG/KG	11 U				10 U
METHYLENE CHLORIDE	UG/KG	11 U				10 U
ACETONE	UG/KG	58 UJ				10 U
CARBON DISULFIDE	UG/KG	11 U				10 U
1,1-DICHLOROETHENE	UG/KG	11 U				10 U
1,1-DICHLOROETHANE	UG/KG	11 U				10 U
1,2-DICHLOROETHENE	UG/KG	11 U				10 U
CHLOROFORM	UG/KG	11 U				10 U
1,2-DICHLOROETHANE	UG/KG	11 U				10 U
2-BUTANONE	UG/KG	11 U				10 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB12-03	6-201C-SB13-01	6-201C-SB14-02	6-201C-SB15-03	6-201C-SB16-03	6-201C-SB17-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/31/92	8/28/92	8/28/92	8/28/92	8/29/92
Lab Id:	00465-06	00474-02	00456-06	00456-08	00456-11	00457-10
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U				10 U
CARBON TETRACHLORIDE	UG/KG	11 U				10 U
BROMODICHLOROMETHANE	UG/KG	11 U				10 U
1,2-DICHLOROPROPANE	UG/KG	11 U				10 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U				10 U
TRICHLOROETHENE	UG/KG	11 U				10 U
DIBROMOCHLOROMETHANE	UG/KG	11 U				10 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U				10 U
BENZENE	UG/KG	11 U				10 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U				10 U
BROMOFORM	UG/KG	11 U				10 U
4-METHYL-2-PENTANONE	UG/KG	11 U				10 U
2-HEXANONE	UG/KG	11 U				10 U
TETRACHLOROETHENE	UG/KG	11 U				10 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U				10 U
TOLUENE	UG/KG	11 U				10 U
CHLOROBENZENE	UG/KG	11 U				10 U
ETHYLBENZENE	UG/KG	11 U				10 U
STYRENE	UG/KG	11 U				10 U
TOTAL XYLENES	UG/KG	11 U				10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	380 UJ				330 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	380 UJ				330 U
2-CHLOROPHENOL	UG/KG	380 U				330 U
1,3-DICHLOROBENZENE	UG/KG	380 U				330 U
1,4-DICHLOROBENZENE	UG/KG	380 U				330 U
1,2-DICHLOROBENZENE	UG/KG	380 U				330 U
2-METHYLPHENOL	UG/KG	380 U				330 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	380 U				330 U
4-METHYLPHENOL	UG/KG	380 U				330 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	380 UJ				330 U
HEXACHLOROETHANE	UG/KG	380 U				330 U
NITROBENZENE	UG/KG	380 U				330 U
ISOPHORONE	UG/KG	380 U				330 U
2-NITROPHENOL	UG/KG	380 U				330 U
2,4-DIMETHYLPHENOL	UG/KG	380 U				330 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	380 UJ				330 U
2,4-DICHLOROPHENOL	UG/KG	380 U				330 U
1,2,4-TRICHLOROBENZENE	UG/KG	380 U				330 U
NAPHTHALENE	UG/KG	380 U				330 U
4-CHLORANILINE	UG/KG	380 U				330 U
HEXACHLOROBUTADIENE	UG/KG	380 U				330 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201C-SB12-03	6-201C-SB13-01	6-201C-SB14-02	6-201C-SB15-03	6-201C-SB16-03	6-201C-SB17-03
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/31/92	8/28/92	8/28/92	8/28/92	8/29/92
	Lab Id:	00465-06	00474-02	00456-06	00456-08	00456-11	00457-10
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG		380 U				330 U
2-METHYLNAPHTHALENE	UG/KG		380 U				330 U
HEXACHLOROCYCLOPENTADIENE	UG/KG		380 U				330 U
2,4,6-TRICHLOROPHENOL	UG/KG		380 U				330 U
2,4,5-TRICHLOROPHENOL	UG/KG		920 U				810 U
2-CHLORONAPHTHALENE	UG/KG		380 U				330 U
2-NITROANILINE	UG/KG		920 U				810 U
DIMETHYL PHTHALATE	UG/KG		380 U				330 U
ACENAPHTHYLENE	UG/KG		380 U				330 U
2,6-DINITROTOLUENE	UG/KG		380 U				330 U
3-NITROANILINE	UG/KG		920 U				810 U
ACENAPHTHENE	UG/KG		380 U				330 U
2,4-DINITROPHENOL	UG/KG		920 U				810 U
4-NITROPHENOL	UG/KG		920 U				810 U
DIBENZOFURAN	UG/KG		380 U				330 U
2,4-DINITROTOLUENE	UG/KG		380 U				330 U
DIETHYL PHTHALATE	UG/KG		380 U				330 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG		380 U				330 U
FLUORENE	UG/KG		380 U				330 U
4-NITROANILINE	UG/KG		920 U				810 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG		920 U				810 U
N-NITROSODIPHENYLAMINE	UG/KG		380 U				330 U
4-BROMOPHENYL PHENYL ETHER	UG/KG		380 U				330 U
HEXACHLOROBENZENE	UG/KG		380 U				330 U
PENTACHLOROPHENOL	UG/KG		920 U				810 U
PHENANTHRENE	UG/KG		380 U				330 U
ANTHRACENE	UG/KG		380 U				330 U
DI-N-BUTYL PHTHALATE	UG/KG		380 U				330 U
FLUORANTHENE	UG/KG		380 U				330 U
CARBAZOLE	UG/KG		380 U				330 U
PYRENE	UG/KG		380 U				330 U
BUTYL BENZYL PHTHALATE	UG/KG		380 U				330 U
3,3-DICHLOROBENZIDINE	UG/KG		380 U				330 U
BENZO(A)ANTHRACENE	UG/KG		380 U				330 U
CHRYSENE	UG/KG		380 U				330 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG		380 U				330 U
DI-N-OCTYL PHTHALATE	UG/KG		380 U				330 U
BENZO(B)FLUORANTHENE	UG/KG		380 U				330 U
BENZO(K)FLUORANTHENE	UG/KG		380 U				330 U
BENZO(A)PYRENE	UG/KG		380 U				330 U
INDENO(1,2,3-CD) PYRENE	UG/KG		380 U				330 U
DIBENZ(A,H)ANTHRACENE	UG/KG		380 U				330 U
BENZO(G,H,I)PERYLENE	UG/KG		380 U				330 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB18-01	6-201C-SB19-03	6-201C-SB2-04	6-201C-SB20-03	6-201C-SB21-03	6-201C-SB22-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92
Lab Id:	00475-02	00456-13	00457-02	00456-15	00456-17	00456-19
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
BETA-BHC	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
DELTA-BHC	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
GAMMA-BHC(LINDANE)	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
HEPTACHLOR	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
ALDRIN	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
HEPTACHLOR EPOXIDE	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
ENDOSULFAN I	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
DIELDRIN	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
4,4'-DDE	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
ENDRIN	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
ENDOSULFAN II	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
4,4'-DDD	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
ENDOSULFAN SULFATE	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
4,4'-DDT	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
METHOXYCHLOR	UG/KG	20 UJ		19 UJ	17 UJ	17 UJ
ENDRIN KETONE	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
ENDRIN ALDEHYDE	UG/KG	3.9 UJ		3.6 UJ	3.4 UJ	3.3 UJ
ALPHA CHLORDANE	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
GAMMA CHLORDANE	UG/KG	2 UJ		1.9 UJ	1.7 UJ	1.7 UJ
TOXAPHENE	UG/KG	200 UJ		190 UJ	170 UJ	170 UJ
PCB-1016	UG/KG	36 UJ	40 U	36 UJ	34 UJ	33 UJ
PCB-1221	UG/KG	74 UJ	79 UJ	80 U	73 UJ	69 UJ
PCB-1232	UG/KG	36 UJ	39 UJ	40 U	36 UJ	33 UJ
PCB-1242	UG/KG	36 UJ	39 UJ	40 U	36 UJ	33 UJ
PCB-1248	UG/KG	36 UJ	39 UJ	40 U	36 UJ	33 UJ
PCB-1254	UG/KG	36 UJ	39 UJ	40 U	36 UJ	33 UJ
PCB-1260	UG/KG	36 UJ	39 UJ	40 U	36 UJ	33 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG					
BROMOMETHANE	UG/KG					
VINYL CHLORIDE	UG/KG					
CHLOROETHANE	UG/KG					
METHYLENE CHLORIDE	UG/KG					
ACETONE	UG/KG					
CARBON DISULFIDE	UG/KG					
1,1-DICHLOROETHENE	UG/KG					
1,1-DICHLOROETHANE	UG/KG					
1,2-DICHLOROETHENE	UG/KG					
CHLOROFORM	UG/KG					
1,2-DICHLOROETHANE	UG/KG					
2-BUTANONE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201C-SB18-01	6-201C-SB19-03	6-201C-SB2-04	6-201C-SB20-03	6-201C-SB21-03	6-201C-SB22-03
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92
	Lab Id:	00475-02	00456-13	00457-02	00456-15	00456-17	00456-19
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						
CARBON TETRACHLORIDE	UG/KG						
BROMODICHLOROMETHANE	UG/KG						
1,2-DICHLOROPROPANE	UG/KG						
CIS-1,3-DICHLOROPROPENE	UG/KG						
TRICHLOROETHENE	UG/KG						
DIBROMOCHLOROMETHANE	UG/KG						
1,1,2-TRICHLOROETHANE	UG/KG						
BENZENE	UG/KG						
TRANS-1,3-DICHLOROPROPENE	UG/KG						
BROMOFORM	UG/KG						
4-METHYL-2-PENTANONE	UG/KG						
2-HEXANONE	UG/KG						
TETRACHLOROETHENE	UG/KG						
1,1,2,2-TETRACHLOROETHANE	UG/KG						
TOLUENE	UG/KG						
CHLOROBENZENE	UG/KG						
ETHYLBENZENE	UG/KG						
STYRENE	UG/KG						
TOTAL XYLENES	UG/KG						
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						
BIS(2-CHLOROETHYL) ETHER	UG/KG						
2-CHLOROPHENOL	UG/KG						
1,3-DICHLOROBENZENE	UG/KG						
1,4-DICHLOROBENZENE	UG/KG						
1,2-DICHLOROBENZENE	UG/KG						
2-METHYLPHENOL	UG/KG						
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						
4-METHYLPHENOL	UG/KG						
N-NITROSODI-N-PROPYLAMINE	UG/KG						
HEXACHLOROETHANE	UG/KG						
NITROBENZENE	UG/KG						
ISOPHORONE	UG/KG						
2-NITROPHENOL	UG/KG						
2,4-DIMETHYLPHENOL	UG/KG						
BIS(2-CHLOROETHOXY) METHANE	UG/KG						
2,4-DICHLOROPHENOL	UG/KG						
1,2,4-TRICHLOROBENZENE	UG/KG						
NAPHTHALENE	UG/KG						
4-CHLORANILINE	UG/KG						
HEXACHLOROBUTADIENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-201C-SB18-01	6-201C-SB19-03	6-201C-SB2-04	6-201C-SB20-03	6-201C-SB21-03	6-201C-SB22-03
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92
	Lab Id:	00475-02	00456-13	00457-02	00456-15	00456-17	00456-19
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG						
2-METHYLNAPHTHALENE	UG/KG						
HEXACHLOROCYCLOPENTADIENE	UG/KG						
2,4,6-TRICHLOROPHENOL	UG/KG						
2,4,5-TRICHLOROPHENOL	UG/KG						
2-CHLORONAPHTHALENE	UG/KG						
2-NITROANILINE	UG/KG						
DIMETHYL PHTHALATE	UG/KG						
ACENAPHTHYLENE	UG/KG						
2,6-DINITROTOLUENE	UG/KG						
3-NITROANILINE	UG/KG						
ACENAPHTHENE	UG/KG						
2,4-DINITROPHENOL	UG/KG						
4-NITROPHENOL	UG/KG						
DIBENZOFURAN	UG/KG						
2,4-DINITROTOLUENE	UG/KG						
DIETHYL PHTHALATE	UG/KG						
4-CHLOROPHENYL PHENYL ETHER	UG/KG						
FLUORENE	UG/KG						
4-NITROANILINE	UG/KG						
4,6-DINITRO-2-METHYLPHENOL	UG/KG						
N-NITRISODIPHENYLAMINE	UG/KG						
4-BROMOPHENYL PHENYL ETHER	UG/KG						
HEXACHLOROENZENE	UG/KG						
PENTACHLOROPHENOL	UG/KG						
PHENANTHRENE	UG/KG						
ANTHRACENE	UG/KG						
DI-N-BUTYL PHTHALATE	UG/KG						
FLUORANTHENE	UG/KG						
CARBAZOLE	UG/KG						
PYRENE	UG/KG						
BUTYL BENZYL PHTHALATE	UG/KG						
3,3-DICHLOROBENZIDINE	UG/KG						
BENZO(A)ANTHRACENE	UG/KG						
CHRYSENE	UG/KG						
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG						
DI-N-OCTYL PHTHALATE	UG/KG						
BENZO(B)FLUORANTHENE	UG/KG						
BENZO(K)FLUORANTHENE	UG/KG						
BENZO(A)PYRENE	UG/KG						
INDENO(1,2,3-CD) PYRENE	UG/KG						
DIBENZ(A,H)ANTHRACENE	UG/KG						
BENZO(G,H,I)PERYLENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB23-01	6-201C-SB24-02	6-201C-SB25-02	6-201C-SB26-02	6-201C-SB27-02	6-201C-SB28-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	9/01/92
Lab Id:	00475-05	00456-22	00457-13	00456-24	00456-26	00475-07
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
BETA-BHC	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
DELTA-BHC	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
HEPTACHLOR	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
ALDRIN	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
ENDOSULFAN I	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
DIELDRIN	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
4,4'-DDE	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
ENDRIN	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
ENDOSULFAN II	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
4,4'-DDD	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
ENDOSULFAN SULFATE	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
4,4'-DDT	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
METHOXYCHLOR	UG/KG	18 UJ	18 U	18 U	19 U	
ENDRIN KETONE	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
ENDRIN ALDEHYDE	UG/KG	3.6 UJ	3.5 U	3.5 U	3.6 U	
ALPHA CHLORDANE	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
GAMMA CHLORDANE	UG/KG	1.8 UJ	1.8 U	1.8 U	1.9 U	
TOXAPHENE	UG/KG	180 UJ	180 U	180 U	190 U	
PCB-1016	UG/KG	39 UJ	36 UJ	35 U	36 U	37 U
PCB-1221	UG/KG	79 UJ	73 UJ	71 U	74 U	74 U
PCB-1232	UG/KG	39 UJ	36 UJ	35 U	36 U	37 U
PCB-1242	UG/KG	39 UJ	36 UJ	35 U	36 U	37 U
PCB-1248	UG/KG	39 UJ	36 UJ	35 U	36 U	37 U
PCB-1254	UG/KG	39 UJ	36 UJ	35 U	36 U	37 U
PCB-1260	UG/KG	39 UJ	36 UJ	35 U	36 U	37 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG		11 U			
BROMOMETHANE	UG/KG		11 U			
VINYL CHLORIDE	UG/KG		11 U			
CHLOROETHANE	UG/KG		11 U			
METHYLENE CHLORIDE	UG/KG		11 U			
ACETONE	UG/KG		11 U			
CARBON DISULFIDE	UG/KG		11 U			
1,1-DICHLOROETHENE	UG/KG		11 U			
1,1-DICHLOROETHANE	UG/KG		11 U			
1,2-DICHLOROETHENE	UG/KG		11 U			
CHLOROFORM	UG/KG		11 U			
1,2-DICHLOROETHANE	UG/KG		11 U			
2-BUTANONE	UG/KG		11 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201C-SB23-01	6-201C-SB24-02	6-201C-SB25-02	6-201C-SB26-02	6-201C-SB27-02	6-201C-SB28-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	9/01/92
	Lab Id:	00475-05	00456-22	00457-13	00456-24	00456-26	00475-07
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG			11 U			
CARBON TETRACHLORIDE	UG/KG			11 U			
BROMODICHLOROMETHANE	UG/KG			11 U			
1,2-DICHLOROPROPANE	UG/KG			11 U			
CIS-1,3-DICHLOROPROPENE	UG/KG			11 U			
TRICHLOROETHENE	UG/KG			11 U			
DIBROMOCHLOROMETHANE	UG/KG			11 U			
1,1,2-TRICHLOROETHANE	UG/KG			11 U			
BENZENE	UG/KG			11 U			
TRANS-1,3-DICHLOROPROPENE	UG/KG			11 U			
BROMOFORM	UG/KG			11 U			
4-METHYL-2-PENTANONE	UG/KG			11 U			
2-HEXANONE	UG/KG			11 U			
TETRACHLOROETHENE	UG/KG			11 U			
1,1,2,2-TETRACHLOROETHANE	UG/KG			11 U			
TOLUENE	UG/KG			11 U			
CHLOROBENZENE	UG/KG			11 U			
ETHYLBENZENE	UG/KG			11 U			
STYRENE	UG/KG			11 U			
TOTAL XYLENES	UG/KG			11 U			
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG			350 U			
BIS(2-CHLOROETHYL) ETHER	UG/KG			350 U			
2-CHLOROPHENOL	UG/KG			350 U			
1,3-DICHLOROBENZENE	UG/KG			350 U			
1,4-DICHLOROBENZENE	UG/KG			350 U			
1,2-DICHLOROBENZENE	UG/KG			350 U			
2-METHYLPHENOL	UG/KG			350 U			
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG			350 U			
4-METHYLPHENOL	UG/KG			350 U			
N-NITROSODI-N-PROPYLAMINE	UG/KG			350 U			
HEXACHLOROETHANE	UG/KG			350 U			
NITROBENZENE	UG/KG			350 U			
ISOPHORONE	UG/KG			350 U			
2-NITROPHENOL	UG/KG			350 U			
2,4-DIMETHYLPHENOL	UG/KG			350 U			
BIS(2-CHLOROETHOXY) METHANE	UG/KG			350 U			
2,4-DICHLOROPHENOL	UG/KG			350 U			
1,2,4-TRICHLOROBENZENE	UG/KG			350 U			
NAPHTHALENE	UG/KG			350 U			
4-CHLORANILINE	UG/KG			350 U			
HEXACHLOROBUTADIENE	UG/KG			350 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB23-01	6-201C-SB24-02	6-201C-SB25-02	6-201C-SB26-02	6-201C-SB27-02	6-201C-SB28-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/01/92	8/28/92	8/28/92	8/28/92	8/28/92	9/01/92	
Lab Id:	00475-05	00456-22	00457-13	00456-24	00456-26	00475-07	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG						350 U
2-METHYLNAPHTHALENE	UG/KG						350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG						350 U
2,4,6-TRICHLOROPHENOL	UG/KG						350 U
2,4,5-TRICHLOROPHENOL	UG/KG						860 U
2-CHLORONAPHTHALENE	UG/KG						350 U
2-NITROANILINE	UG/KG						860 U
DIMETHYL PHTHALATE	UG/KG						350 U
ACENAPHTHYLENE	UG/KG						350 U
2,6-DINITROTOLUENE	UG/KG						350 U
3-NITROANILINE	UG/KG						860 U
ACENAPHTHENE	UG/KG						350 U
2,4-DINITROPHENOL	UG/KG						860 U
4-NITROPHENOL	UG/KG						860 U
DIBENZOFURAN	UG/KG						350 U
2,4-DINITROTOLUENE	UG/KG						350 U
DIETHYL PHTHALATE	UG/KG						350 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG						350 U
FLUORENE	UG/KG						350 U
4-NITROANILINE	UG/KG						860 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG						860 U
N-NITRISODIPHENYLAMINE	UG/KG						350 U
4-BROMOPHENYL PHENYL ETHER	UG/KG						350 U
HEXACHLOROBENZENE	UG/KG						350 U
PENTACHLOROPHENOL	UG/KG						860 U
PHENANTHRENE	UG/KG						350 U
ANTHRACENE	UG/KG						350 U
DI-N-BUTYL PHTHALATE	UG/KG						350 U
FLUORANTHENE	UG/KG						350 U
CARBAZOLE	UG/KG						350 U
PYRENE	UG/KG						350 U
BUTYL BENZYL PHTHALATE	UG/KG						350 U
3,3-DICHLOROBENZIDINE	UG/KG						350 U
BENZO(A)ANTHRACENE	UG/KG						350 U
CHRYSENE	UG/KG						350 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG						350 U
DI-N-OCTYL PHTHALATE	UG/KG						350 U
BENZO(B)FLUORANTHENE	UG/KG						350 U
BENZO(K)FLUORANTHENE	UG/KG						350 U
BENZO(A)PYRENE	UG/KG						350 U
INDENO(1,2,3-CD) PYRENE	UG/KG						350 U
DIBENZ(A,H)ANTHRACENE	UG/KG						350 U
BENZO(G,H,I)PERYLENE	UG/KG						350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB29-02	6-201C-SB3-03	6-201C-SB30-02	6-201C-SB31-02	6-201C-SB32-02	6-201C-SB33-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/29/92	8/31/92	
Lab Id:	00456-29	00457-04	00456-31	00456-33	00456-35	00474-04	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
BETA-BHC	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
DELTA-BHC	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
HEPTACHLOR	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
ALDRIN	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
ENDOSULFAN I	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
DIELDRIN	UG/KG	3.6 U		3.6 U	3.6 U	4 U	3.7 U
4,4'-DDE	UG/KG	3.6 U		3.6 U	3.6 U	4 U	24
ENDRIN	UG/KG	3.6 U		3.6 U	3.6 U	4 U	3.7 U
ENDOSULFAN II	UG/KG	3.6 U		3.6 U	3.6 U	4 U	3.7 U
4,4'-DDD	UG/KG	3.6 U		3.6 U	3.6 U	4 U	5 J
ENDOSULFAN SULFATE	UG/KG	3.6 U		3.6 U	3.6 U	4 U	3.7 U
4,4'-DDT	UG/KG	3.6 U		3.6 U	3.6 U	4 U	22
METHOXYCHLOR	UG/KG	19 U		18 U	18 U	21 U	19 U
ENDRIN KETONE	UG/KG	3.6 U		3.6 U	3.6 U	4 U	3.7 U
ENDRIN ALDEHYDE	UG/KG	3.6 U		3.6 U	3.6 U	4 U	3.7 U
ALPHA CHLORDANE	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
GAMMA CHLORDANE	UG/KG	1.9 U		1.8 U	1.8 U	2.1 U	1.9 U
TOXAPHENE	UG/KG	190 U		180 U	180 U	210 U	190 U
PCB-1016	UG/KG	36 U	36 U	36 U	36 U	40 U	37 U
PCB-1221	UG/KG	73 U	74 U	73 U	73 U	82 U	76 U
PCB-1232	UG/KG	36 U	36 U	36 U	36 U	40 U	37 U
PCB-1242	UG/KG	36 U	36 U	36 U	36 U	40 U	37 U
PCB-1248	UG/KG	36 U	36 U	36 U	36 U	40 U	37 U
PCB-1254	UG/KG	36 U	36 U	36 U	36 U	40 U	37 U
PCB-1260	UG/KG	36 U	36 U	36 U	36 U	40 U	37 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG						11 U
BROMOMETHANE	UG/KG						11 UJ
VINYL CHLORIDE	UG/KG						11 U
CHLOROETHANE	UG/KG						11 U
METHYLENE CHLORIDE	UG/KG						11 U
ACETONE	UG/KG						20 UJ
CARBON DISULFIDE	UG/KG						11 U
1,1-DICHLOROETHENE	UG/KG						11 U
1,1-DICHLOROETHANE	UG/KG						11 U
1,2-DICHLOROETHENE	UG/KG						11 U
CHLOROFORM	UG/KG						11 U
1,2-DICHLOROETHANE	UG/KG						11 U
2-BUTANONE	UG/KG						11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201C-SB29-02	6-201C-SB3-03	6-201C-SB30-02	6-201C-SB31-02	6-201C-SB32-02	6-201C-SB33-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/29/92	8/31/92
	Lab Id:	00456-29	00457-04	00456-31	00456-33	00456-35	00474-04
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						11 U
CARBON TETRACHLORIDE	UG/KG						11 U
BROMODICHLOROMETHANE	UG/KG						11 U
1,2-DICHLOROPROPANE	UG/KG						11 U
CIS-1,3-DICHLOROPROPENE	UG/KG						11 U
TRICHLOROETHENE	UG/KG						11 U
DIBROMOCHLOROMETHANE	UG/KG						11 U
1,1,2-TRICHLOROETHANE	UG/KG						11 U
BENZENE	UG/KG						11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG						11 U
BROMOFORM	UG/KG						11 U
4-METHYL-2-PENTANONE	UG/KG						11 U
2-HEXANONE	UG/KG						11 U
TETRACHLOROETHENE	UG/KG						11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG						11 U
TOLUENE	UG/KG						11 U
CHLOROBENZENE	UG/KG						11 U
ETHYLBENZENE	UG/KG						11 U
STYRENE	UG/KG						11 U
TOTAL XYLENES	UG/KG						11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						370 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG						370 UJ
2-CHLOROPHENOL	UG/KG						370 U
1,3-DICHLOROBENZENE	UG/KG						370 U
1,4-DICHLOROBENZENE	UG/KG						370 U
1,2-DICHLOROBENZENE	UG/KG						370 U
2-METHYLPHENOL	UG/KG						370 U
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG						370 U
4-METHYLPHENOL	UG/KG						370 U
N-NITROSODI-N-PROPYLAMINE	UG/KG						370 UJ
HEXACHLOROETHANE	UG/KG						370 U
NITROBENZENE	UG/KG						370 U
ISOPHORONE	UG/KG						370 U
2-NITROPHENOL	UG/KG						370 U
2,4-DIMETHYLPHENOL	UG/KG						370 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG						370 UJ
2,4-DICHLOROPHENOL	UG/KG						370 U
1,2,4-TRICHLOROBENZENE	UG/KG						370 U
NAPHTHALENE	UG/KG						370 U
4-CHLORANILINE	UG/KG						370 U
HEXACHLOROBUTADIENE	UG/KG						370 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB29-02	6-201C-SB3-03	6-201C-SB30-02	6-201C-SB31-02	6-201C-SB32-02	6-201C-SB33-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/29/92	8/31/92
Lab Id:	00456-29	00457-04	00456-31	00456-33	00456-35	00474-04
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG					370 U
2-METHYLNAPHTHALENE	UG/KG					370 U
HEXACHLOROCYCLOPENTADIENE	UG/KG					370 U
2,4,6-TRICHLOROPHENOL	UG/KG					370 U
2,4,5-TRICHLOROPHENOL	UG/KG					900 U
2-CHLORONAPHTHALENE	UG/KG					370 U
2-NITROANILINE	UG/KG					900 U
DIMETHYL PHTHALATE	UG/KG					370 U
ACENAPHTHYLENE	UG/KG					370 U
2,6-DINITROTOLUENE	UG/KG					370 U
3-NITROANILINE	UG/KG					900 U
ACENAPHTHENE	UG/KG					370 U
2,4-DINITROPHENOL	UG/KG					900 U
4-NITROPHENOL	UG/KG					900 U
DIBENZOFURAN	UG/KG					370 U
2,4-DINITROTOLUENE	UG/KG					370 U
DIETHYL PHTHALATE	UG/KG					370 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG					370 U
FLUORENE	UG/KG					370 U
4-NITROANILINE	UG/KG					900 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG					900 U
N-NITRISODIPHENYLAMINE	UG/KG					370 U
4-BROMOPHENYL PHENYL ETHER	UG/KG					370 U
HEXACHLOROBENZENE	UG/KG					370 U
PENTACHLOROPHENOL	UG/KG					900 U
PHENANTHRENE	UG/KG					370 U
ANTHRACENE	UG/KG					370 U
DI-N-BUTYL PHTHALATE	UG/KG					370 U
FLUORANTHENE	UG/KG					370 U
CARBAZOLE	UG/KG					370 U
PYRENE	UG/KG					370 U
BUTYL BENZYL PHTHALATE	UG/KG					370 U
3,3-DICHLOROBENZIDINE	UG/KG					370 U
BENZO(A)ANTHRACENE	UG/KG					370 U
CHRYSENE	UG/KG					370 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					810
DI-N-OCTYL PHTHALATE	UG/KG					370 U
BENZO(B)FLUORANTHENE	UG/KG					370 U
BENZO(K)FLUORANTHENE	UG/KG					370 U
BENZO(A)PYRENE	UG/KG					370 U
INDENO(1,2,3-CD) PYRENE	UG/KG					370 U
DIBENZ(A,H)ANTHRACENE	UG/KG					370 U
BENZO(G,H,I)PERYLENE	UG/KG					370 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB34-02	6-201C-SB35-02	6-201C-SB36-02	6-201C-SB37-02	6-201C-SB38-01	6-201C-SB39-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/29/92	8/29/92	8/29/92	8/29/92	8/31/92	8/31/92
Lab Id:	00456-37	00456-40	00456-42	00457-15	00474-06	00474-08
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
BETA-BHC	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
DELTA-BHC	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
HEPTACHLOR	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
ALDRIN	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
ENDOSULFAN I	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
DIELDRIN	UG/KG	3.8 U	3.5 U	3.7 U	3.9 U	3.6 U
4,4'-DDE	UG/KG	3.8 U	3.5 U	3.7 U	3.9 U	3.6 U
ENDRIN	UG/KG	3.8 U	3.5 U	3.7 U	3.9 U	3.6 U
ENDOSULFAN II	UG/KG	3.8 U	3.5 U	3.7 U	3.9 U	3.6 U
4,4'-DDD	UG/KG	3.8 U	3.5 U	3.7 U	3.9 U	3.6 U
ENDOSULFAN SULFATE	UG/KG	3.8 U	3.5 U	3.7 U	3.9 U	3.6 U
4,4'-DDT	UG/KG	3.8 U	4.8 J	3.7 U	3.9 U	3.6 U
METHOXYCHLOR	UG/KG	20 U	18 U	19 U	20 U	19 U
ENDRIN KETONE	UG/KG	3.8 U	3.5 U	3.7 U	3.9 U	3.6 U
ENDRIN ALDEHYDE	UG/KG	3.8 U	3.5 U	3.7 U	3.9 U	3.6 U
ALPHA CHLORDANE	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
GAMMA CHLORDANE	UG/KG	2 U	1.8 U	1.9 U	2 U	1.9 U
TOXAPHENE	UG/KG	200 U	180 U	190 U	200 U	190 U
PCB-1016	UG/KG	38 U	35 U	37 U	39 U	36 U
PCB-1221	UG/KG	78 U	72 U	75 U	78 U	73 U
PCB-1232	UG/KG	38 U	35 U	37 U	39 U	36 U
PCB-1242	UG/KG	38 U	35 U	37 U	39 U	36 U
PCB-1248	UG/KG	38 U	35 U	37 U	39 U	36 U
PCB-1254	UG/KG	38 U	35 U	37 U	39 U	36 U
PCB-1260	UG/KG	38 U	35 U	37 U	39 U	36 U
VOLATILES						
CHLOROMETHANE	UG/KG				12 U	11 U
BROMOMETHANE	UG/KG				12 U	11 U
VINYL CHLORIDE	UG/KG				12 U	11 U
CHLOROETHANE	UG/KG				12 U	11 U
METHYLENE CHLORIDE	UG/KG				12 U	11 U
ACETONE	UG/KG				110	11 U
CARBON DISULFIDE	UG/KG				12 U	11 U
1,1-DICHLOROETHENE	UG/KG				12 U	11 U
1,1-DICHLOROETHANE	UG/KG				12 U	11 U
1,2-DICHLOROETHENE	UG/KG				12 U	11 U
CHLOROFORM	UG/KG				12 U	11 UJ
1,2-DICHLOROETHANE	UG/KG				12 U	11 UJ
2-BUTANONE	UG/KG				12 U	11 U

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No:	6-201C-SB34-02	6-201C-SB35-02	6-201C-SB36-02	6-201C-SB37-02	6-201C-SB38-01	6-201C-SB39-04
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/29/92	8/29/92	8/29/92	8/29/92	8/31/92	8/31/92
	Lab Id:	00456-37	00456-40	00456-42	00457-15	00474-06	00474-08
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG				12 U	4 J	11 U
CARBON TETRACHLORIDE	UG/KG				12 U	13 U	11 U
BROMODICHLOROMETHANE	UG/KG				12 U	13 U	11 U
1,2-DICHLOROPROPANE	UG/KG				12 U	13 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG				12 U	13 U	11 U
TRICHLOROETHENE	UG/KG				12 U	13 U	11 U
DIBROMOCHLOROMETHANE	UG/KG				12 U	13 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG				12 U	13 U	11 U
BENZENE	UG/KG				12 U	13 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG				12 U	13 U	11 U
BROMOFORM	UG/KG				12 U	13 U	11 U
4-METHYL-2-PENTANONE	UG/KG				12 U	13 U	11 U
2-HEXANONE	UG/KG				12 U	13 U	11 U
TETRACHLOROETHENE	UG/KG				12 U	13 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG				12 U	13 U	11 U
TOLUENE	UG/KG				12 U	13 U	11 U
CHLOROBENZENE	UG/KG				12 U	13 U	11 U
ETHYLBENZENE	UG/KG				12 U	13 U	11 U
STYRENE	UG/KG				12 U	13 U	11 U
TOTAL XYLENES	UG/KG				12 U	13 U	11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG				390 U	410 UJ	360 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG				390 U	410 UJ	360 UJ
2-CHLOROPHENOL	UG/KG				390 U	410 U	360 U
1,3-DICHLOROBENZENE	UG/KG				390 U	410 U	360 U
1,4-DICHLOROBENZENE	UG/KG				390 U	410 U	360 U
1,2-DICHLOROBENZENE	UG/KG				390 U	410 U	360 U
2-METHYLPHENOL	UG/KG				390 U	410 U	360 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG				390 U	410 U	360 U
4-METHYLPHENOL	UG/KG				390 U	410 U	360 U
N-NITROSODI-N-PROPYLAMINE	UG/KG				390 U	410 UJ	360 UJ
HEXACHLOROETHANE	UG/KG				390 U	410 U	360 U
NITROBENZENE	UG/KG				390 U	410 U	360 U
ISOPHORONE	UG/KG				390 U	410 U	360 U
2-NITROPHENOL	UG/KG				390 U	410 U	360 U
2,4-DIMETHYLPHENOL	UG/KG				390 U	410 U	360 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG				390 U	410 UJ	360 UJ
2,4-DICHLOROPHENOL	UG/KG				390 U	410 U	360 U
1,2,4-TRICHLOROBENZENE	UG/KG				390 U	410 U	360 U
NAPHTHALENE	UG/KG				390 U	410 U	360 U
4-CHLORANILINE	UG/KG				390 U	410 U	360 U
HEXACHLOROBUTADIENE	UG/KG				390 U	410 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB34-02	6-201C-SB35-02	6-201C-SB36-02	6-201C-SB37-02	6-201C-SB38-01	6-201C-SB39-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/29/92	8/29/92	8/29/92	8/29/92	8/31/92	8/31/92
Lab Id:	00456-37	00456-40	00456-42	00457-15	00474-06	00474-08
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG			390 U	410 U	360 U
2-METHYLNAPHTHALENE	UG/KG			390 U	410 U	360 U
HEXACHLOROCYCLOPENTADIENE	UG/KG			390 U	410 U	360 U
2,4,6-TRICHLOROPHENOL	UG/KG			390 U	410 U	360 U
2,4,5-TRICHLOROPHENOL	UG/KG			940 U	1000 U	870 U
2-CHLORONAPHTHALENE	UG/KG			390 U	410 U	360 U
2-NITROANILINE	UG/KG			940 U	1000 U	870 U
DIMETHYL PHTHALATE	UG/KG			390 U	410 U	360 U
ACENAPHTHYLENE	UG/KG			390 U	410 U	360 U
2,6-DINITROTOLUENE	UG/KG			390 U	410 U	360 U
3-NITROANILINE	UG/KG			940 U	1000 U	870 U
ACENAPHTHENE	UG/KG			390 U	410 U	360 U
2,4-DINITROPHENOL	UG/KG			940 U	1000 U	870 U
4-NITROPHENOL	UG/KG			940 U	1000 U	870 U
DIBENZOFURAN	UG/KG			390 U	410 U	360 U
2,4-DINITROTOLUENE	UG/KG			390 U	410 U	360 U
DIETHYL PHTHALATE	UG/KG			390 U	410 U	360 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG			390 U	410 U	360 U
FLUORENE	UG/KG			390 U	410 U	360 U
4-NITROANILINE	UG/KG			940 U	1000 U	870 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG			940 U	1000 U	870 U
N-NITRISODIPHENYLAMINE	UG/KG			390 U	410 U	360 U
4-BROMOPHENYL PHENYL ETHER	UG/KG			390 U	410 U	360 U
HEXACHLOROBENZENE	UG/KG			390 U	410 U	360 U
PENTACHLOROPHENOL	UG/KG			940 U	1000 U	870 U
PHENANTHRENE	UG/KG			390 U	410 U	360 U
ANTHRACENE	UG/KG			390 U	410 U	360 U
DI-N-BUTYL PHTHALATE	UG/KG			390 U	410 U	360 U
FLUORANTHENE	UG/KG			390 U	410 U	360 U
CARBAZOLE	UG/KG			390 U	410 U	360 U
PYRENE	UG/KG			390 U	410 U	360 U
BUTYL BENZYL PHTHALATE	UG/KG			390 U	410 U	360 U
3,3-DICHLOROBENZIDINE	UG/KG			390 U	410 U	360 U
BENZO(A)ANTHRACENE	UG/KG			390 U	410 U	360 U
CHRYSENE	UG/KG			390 U	410 U	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG			390 U	410 U	360 U
DI-N-OCTYL PHTHALATE	UG/KG			390 U	410 U	360 U
BENZO(B)FLUORANTHENE	UG/KG			390 U	410 U	360 U
BENZO(K)FLUORANTHENE	UG/KG			390 U	410 U	360 U
BENZO(A)PYRENE	UG/KG			390 U	410 U	360 U
INDENO(1,2,3-CD) PYRENE	UG/KG			390 U	410 U	360 U
DIBENZ(A,H)ANTHRACENE	UG/KG			390 U	410 U	360 U
BENZO(G,H,I)PERYLENE	UG/KG			390 U	410 U	360 U

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-201C-SB4-03	6-201C-SB5-01	6-201C-SB6-01	6-201C-SB7-01	6-201C-SB8-01
	Depth:	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/28/92	8/31/92	8/31/92	8/31/92	8/31/92
	Lab Id:	00457-06	00463-12	00463-14	00463-16	00463-18
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG					
BETA-BHC	UG/KG					
DELTA-BHC	UG/KG					
GAMMA-BHC(LINDANE)	UG/KG					
HEPTACHLOR	UG/KG					
ALDRIN	UG/KG					
HEPTACHLOR EPOXIDE	UG/KG					
ENDOSULFAN I	UG/KG					
DIELDRIN	UG/KG					
4,4'-DDE	UG/KG					
ENDRIN	UG/KG					
ENDOSULFAN II	UG/KG					
4,4'-DDD	UG/KG					
ENDOSULFAN SULFATE	UG/KG					
4,4'-DDT	UG/KG					
METHOXYCHLOR	UG/KG					
ENDRIN KETONE	UG/KG					
ENDRIN ALDEHYDE	UG/KG					
ALPHA CHLORDANE	UG/KG					
GAMMA CHLORDANE	UG/KG					
TOXAPHENE	UG/KG					
PCB-1016	UG/KG	38 U	38 U	37 U	38 U	38 U
PCB-1221	UG/KG	76 U	78 U	75 U	77 U	77 U
PCB-1232	UG/KG	38 U	38 U	37 U	38 U	38 U
PCB-1242	UG/KG	38 U	38 U	37 U	38 U	38 U
PCB-1248	UG/KG	38 U	38 U	37 U	38 U	38 U
PCB-1254	UG/KG	38 U	38 U	37 U	38 U	38 U
PCB-1260	UG/KG	38 U	38 U	37 U	38 U	38 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG					
BROMOMETHANE	UG/KG					
VINYL CHLORIDE	UG/KG					
CHLOROETHANE	UG/KG					
METHYLENE CHLORIDE	UG/KG					
ACETONE	UG/KG					
CARBON DISULFIDE	UG/KG					
1,1-DICHLOROETHENE	UG/KG					
1,1-DICHLOROETHANE	UG/KG					
1,2-DICHLOROETHENE	UG/KG					
CHLOROFORM	UG/KG					
1,2-DICHLOROETHANE	UG/KG					
2-BUTANONE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201C-SB4-03	6-201C-SB5-01	6-201C-SB6-01	6-201C-SB7-01	6-201C-SB8-01
Depth:	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/31/92	8/31/92	8/31/92	8/31/92
Lab Id:	00457-06	00463-12	00463-14	00463-16	00463-18

Parameter	Units
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VOLATILES Cont.

1,1,1-TRICHLOROETHANE	UG/KG
CARBON TETRACHLORIDE	UG/KG
BROMODICHLOROMETHANE	UG/KG
1,2-DICHLOROPROPANE	UG/KG
CIS-1,3-DICHLOROPROPENE	UG/KG
TRICHLOROETHENE	UG/KG
DIBROMOCHLOROMETHANE	UG/KG
1,1,2-TRICHLOROETHANE	UG/KG
BENZENE	UG/KG
TRANS-1,3-DICHLOROPROPENE	UG/KG
BROMOFORM	UG/KG
4-METHYL-2-PENTANONE	UG/KG
2-HEXANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROBENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG

SEMIVOLATILES

PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
2-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBTADIENE	UG/KG

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201C-SB4-03	6-201C-SB5-01	6-201C-SB6-01	6-201C-SB7-01	6-201C-SB8-01
Depth:	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/31/92	8/31/92	8/31/92	8/31/92
Lab Id:	00457-06	00463-12	00463-14	00463-16	00463-18
Parameter	Units				
<u>SEMIVOLATILES Cont.</u>					
4-CHLORO-3-METHYLPHENOL	UG/KG				
2-METHYLNAPHTHALENE	UG/KG				
HEXACHLOROCYCLOPENTADIENE	UG/KG				
2,4,6-TRICHLOROPHENOL	UG/KG				
2,4,5-TRICHLOROPHENOL	UG/KG				
2-CHLORONAPHTHALENE	UG/KG				
2-NITROANILINE	UG/KG				
DIMETHYL PHTHALATE	UG/KG				
ACENAPHTHYLENE	UG/KG				
2,6-DINITROTOLUENE	UG/KG				
3-NITROANILINE	UG/KG				
ACENAPHTHENE	UG/KG				
2,4-DINITROPHENOL	UG/KG				
4-NITROPHENOL	UG/KG				
DIBENZOFURAN	UG/KG				
2,4-DINITROTOLUENE	UG/KG				
DIETHYL PHTHALATE	UG/KG				
4-CHLOROPHENYL PHENYL ETHER	UG/KG				
FLUORENE	UG/KG				
4-NITROANILINE	UG/KG				
4,6-DINITRO-2-METHYLPHENOL	UG/KG				
N-NITRISODIPHENYLAMINE	UG/KG				
4-BROMOPHENYL PHENYL ETHER	UG/KG				
HEXACHLOROBENZENE	UG/KG				
PENTACHLOROPHENOL	UG/KG				
PHENANTHRENE	UG/KG				
ANTHRACENE	UG/KG				
DI-N-BUTYL PHTHALATE	UG/KG				
FLUORANTHENE	UG/KG				
CARBAZOLE	UG/KG				
PYRENE	UG/KG				
BUTYL BENZYL PHTHALATE	UG/KG				
3,3-DICHLORO BENZIDINE	UG/KG				
BENZO(A)ANTHRACENE	UG/KG				
CHRYSENE	UG/KG				
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG				
DI-N-OCTYL PHTHALATE	UG/KG				
BENZO(B)FLUORANTHENE	UG/KG				
BENZO(K)FLUORANTHENE	UG/KG				
BENZO(A)PYRENE	UG/KG				
INDENO(1,2,3-CD) PYRENE	UG/KG				
DIBENZ(AH)ANTHRACENE	UG/KG				
BENZO(G,H,I)PERYLENE	UG/KG				

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.7 U	10000 U	ND	ND		0/103
BETA-BHC	UG/KG	1.7 U	10000 U	ND	ND		0/103
DELTA-BHC	UG/KG	1.7 U	10000 U	ND	ND		0/103
GAMMA-BHC(LINDANE)	UG/KG	1.7 U	10000 U	ND	ND		0/103
HEPTACHLOR	UG/KG	1.7 U	10000 U	ND	ND		0/103
ALDRIN	UG/KG	1.7 U	10000 U	ND	ND		0/103
HEPTACHLOR EPOXIDE	UG/KG	1.7 U	10000 U	ND	ND		0/103
ENDOSULFAN I	UG/KG	1.7 U	10000 U	ND	ND		0/103
DIELDRIN	UG/KG	3.3 U	19000 U	ND	ND		0/103
4,4'-DDE	UG/KG	3.3 U	35 UJ	1.4 J	5200 J	6-201A-SB17-01	10/103
ENDRIN	UG/KG	3.3 U	19000 U	ND	ND		0/103
ENDOSULFAN II	UG/KG	3.3 U	19000 U	ND	ND		0/103
4,4'-DDD	UG/KG	3.3 U	20 U	0.58 J	250000 J	6-201A-SB17-01	20/103
ENDOSULFAN SULFATE	UG/KG	3.3 U	19000 U	ND	ND		0/103
4,4'-DDT	UG/KG	3.3 U	4.1 U	3.4 J	460000	6-201A-SB17-01	35/103
METHOXYCHLOR	UG/KG	17 U	100000 U	ND	ND		0/103
ENDRIN KETONE	UG/KG	3.3 U	19000 U	ND	ND		0/103
ENDRIN ALDEHYDE	UG/KG	3.3 U	19000 U	ND	ND		0/103
ALPHA CHLORDANE	UG/KG	1.7 U	10000 U	ND	ND		0/103
GAMMA CHLORDANE	UG/KG	1.7 U	10000 U	ND	ND		0/103
TOXAPHENE	UG/KG	170 U	1000000 U	ND	ND		0/103
PCB-1016	UG/KG	33 U	190000 U	ND	ND		0/89
PCB-1221	UG/KG	67 UJ	390000 U	ND	ND		0/89
PCB-1232	UG/KG	33 U	190000 U	ND	ND		0/89
PCB-1242	UG/KG	33 U	190000 U	ND	ND		0/89
PCB-1248	UG/KG	33 U	190000 U	ND	ND		0/89
PCB-1254	UG/KG	33 U	190000 U	ND	ND		0/89
PCB-1260	UG/KG	33 U	190000 U	ND	ND		0/89
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
BROMOMETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
VINYL CHLORIDE	UG/KG	10 U	2900 U	ND	ND		0/19
CHLOROETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
METHYLENE CHLORIDE	UG/KG	10 U	2900 U	4 J	4 J	6-201B-SB7-01	1/19
ACETONE	UG/KG	10 U	2900 U	12 J	130 J	6-201B-SB17-02	5/19
CARBON DISULFIDE	UG/KG	10 U	2900 U	ND	ND		0/19
1,1-DICHLOROETHENE	UG/KG	10 U	2900 U	ND	ND		0/19
1,1-DICHLOROETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
1,2-DICHLOROETHENE	UG/KG	10 U	2900 U	ND	ND		0/19
CHLOROFORM	UG/KG	10 U	2900 U	ND	ND		0/19
1,2-DICHLOROETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
2-BUTANONE	UG/KG	10 U	2900 U	ND	ND		0/19

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	10 U	2900 U	4 J	4 J	6-201C-SB38-01	1/19
CARBON TETRACHLORIDE	UG/KG	10 U	2900 U	ND	ND		0/19
BROMODICHLOROMETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
1,2-DICHLOROPROPANE	UG/KG	10 U	2900 U	ND	ND		0/19
CIS-1,3-DICHLOROPROPENE	UG/KG	10 U	2900 U	ND	ND		0/19
TRICHLOROETHENE	UG/KG	10 U	2900 U	ND	ND		0/19
DIBROMOCHLOROMETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
1,1,2-TRICHLOROETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
BENZENE	UG/KG	10 U	2900 U	ND	ND		0/19
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U	2900 U	ND	ND		0/19
BROMOFORM	UG/KG	10 U	2900 U	ND	ND		0/19
4-METHYL-2-PENTANONE	UG/KG	10 U	2900 U	ND	ND		0/19
2-HEXANONE	UG/KG	10 U	2900 U	ND	ND		0/19
TETRACHLOROETHENE	UG/KG	10 U	2900 U	4 J	4 J	6-201A-SB25-01	1/19
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	2900 U	ND	ND		0/19
TOLUENE	UG/KG	10 U	2900 U	ND	ND		0/19
CHLOROBENZENE	UG/KG	10 U	2900 U	ND	ND		0/19
ETHYLBENZENE	UG/KG	10 U	13 U	2800 J	2800 J	6-201A-SB17-01	1/19
STYRENE	UG/KG	10 U	2900 U	ND	ND		0/19
TOTAL XYLENES	UG/KG	10 U	13 U	54000	54000	6-201A-SB17-01	1/19
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
BIS(2-CHLOROETHYL) ETHER	UG/KG	330 U	16000 U	ND	ND		0/18
2-CHLOROPHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
1,3-DICHLOROBENZENE	UG/KG	330 U	16000 U	ND	ND		0/18
1,4-DICHLOROBENZENE	UG/KG	330 U	16000 U	36 J	51 J	6-201A-SB37-02	3/18
1,2-DICHLOROBENZENE	UG/KG	330 U	16000 U	ND	ND		0/18
2-METHYLPHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 U	16000 U	ND	ND		0/18
4-METHYLPHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 U	16000 U	ND	ND		0/18
HEXACHLOROETHANE	UG/KG	330 U	16000 U	ND	ND		0/18
NITROBENZENE	UG/KG	330 U	16000 U	ND	ND		0/18
ISOPHORONE	UG/KG	330 U	16000 U	ND	ND		0/18
2-NITROPHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
2,4-DIMETHYLPHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 U	16000 U	ND	ND		0/18
2,4-DICHLOROPHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
1,2,4-TRICHLOROBENZENE	UG/KG	330 U	16000 U	ND	ND		0/18
NAPHTHALENE	UG/KG	330 U	410 U	38000	38000	6-201A-SB17-01	1/18
4-CHLORANILINE	UG/KG	330 U	16000 U	ND	ND		0/18
HEXACHLOROBUTADIENE	UG/KG	330 U	16000 U	ND	ND		0/18

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
2-METHYLNAPHTHALENE	UG/KG	330 U	410 U	97000	97000	6-201A-SB17-01	1/18
HEXACHLOROCYCLOPENTADIENE	UG/KG	330 U	16000 U	ND	ND		0/18
2,4,6-TRICHLOROPHENOL	UG/KG	330 U	16000 U	ND	ND		0/18
2,4,5-TRICHLOROPHENOL	UG/KG	810 U	38000 U	ND	ND		0/18
2-CHLORONAPHTHALENE	UG/KG	330 U	16000 U	ND	ND		0/18
2-NITROANILINE	UG/KG	810 U	38000 U	ND	ND		0/18
DIMETHYL PHTHALATE	UG/KG	330 U	16000 U	ND	ND		0/18
ACENAPHTHYLENE	UG/KG	330 U	16000 U	ND	ND		0/18
2,6-DINITROTOLUENE	UG/KG	330 U	16000 U	ND	ND		0/18
3-NITROANILINE	UG/KG	810 U	38000 U	ND	ND		0/18
ACENAPHTHENE	UG/KG	330 U	16000 U	ND	ND		0/18
2,4-DINITROPHENOL	UG/KG	810 U	38000 U	ND	ND		0/18
4-NITROPHENOL	UG/KG	810 U	38000 U	ND	ND		0/18
DIBENZOFURAN	UG/KG	330 U	410 U	2800 J	2800 J	6-201A-SB17-01	1/18
2,4-DINITROTOLUENE	UG/KG	330 U	16000 U	ND	ND		0/18
DIETHYL PHTHALATE	UG/KG	330 U	16000 U	ND	ND		0/18
4-CHLOROPHENYL PHENYL ETHER	UG/KG	330 U	16000 U	ND	ND		0/18
FLUORENE	UG/KG	330 U	410 U	4100 J	4100 J	6-201A-SB17-01	1/18
4-NITROANILINE	UG/KG	810 U	38000 U	ND	ND		0/18
4,6-DINITRO-2-METHYLPHENOL	UG/KG	810 U	38000 U	ND	ND		0/18
N-NITROSODIPHENYLAMINE	UG/KG	330 U	410 U	3500 J	3500 J	6-201A-SB17-01	1/18
4-BROMOPHENYL PHENYL ETHER	UG/KG	330 U	16000 U	ND	ND		0/18
HEXACHLOROBENZENE	UG/KG	330 U	16000 U	ND	ND		0/18
PENTACHLOROPHENOL	UG/KG	810 U	38000 U	ND	ND		0/18
PHENANTHRENE	UG/KG	330 U	16000 U	ND	ND		0/18
ANTHRACENE	UG/KG	330 U	16000 U	ND	ND		0/18
DI-N-BUTYL PHTHALATE	UG/KG	330 U	16000 U	ND	ND		0/18
FLUORANTHENE	UG/KG	330 U	16000 U	ND	ND		0/18
CARBAZOLE	UG/KG	330 U	16000 U	ND	ND		0/18
PYRENE	UG/KG	330 U	16000 U	ND	ND		0/18
BUTYL BENZYL PHTHALATE	UG/KG	330 U	16000 U	ND	ND		0/18
3,3-DICHLOROBENZIDINE	UG/KG	330 U	16000 U	ND	ND		0/18
BENZO(A)ANTHRACENE	UG/KG	330 U	16000 U	ND	ND		0/18
CHRYSENE	UG/KG	330 U	16000 U	ND	ND		0/18
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	330 U	16000 U	68 J	810	6-201C-SB33-01	5/18
DI-N-OCTYL PHTHALATE	UG/KG	330 U	16000 U	ND	ND		0/18
BENZO(B)FLUORANTHENE	UG/KG	330 U	16000 U	ND	ND		0/18
BENZO(K)FLUORANTHENE	UG/KG	330 U	16000 U	ND	ND		0/18
BENZO(A)PYRENE	UG/KG	330 U	16000 U	ND	ND		0/18
INDENO(1,2,3-CD) PYRENE	UG/KG	330 U	16000 U	ND	ND		0/18
DIBENZ(A,H)ANTHRACENE	UG/KG	330 U	16000 U	ND	ND		0/18
BENZO(G,H,I)PERYLENE	UG/KG	330 U	16000 U	ND	ND		0/18

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201A-GW22-02	6-201A-GW22-04	6-201A-SB17-01	6-201A-SB25-01	6-201A-SB33-02	6-201A-SB37-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/24/92	9/24/92	8/26/92	8/27/92	8/27/92	8/27/92
	Lab Id:	00536-28	00536-29	00446-04	00446-06	00452-18	00452-20
Parameter	Units						
ALUMINUM	MG/KG	2840 J	904 J	4540	2020	1410	1290
ANTIMONY	MG/KG	2.5 UJ	2.4 UJ	10.1 U	8.8 U	9.1 UJ	9.3 UJ
ARSENIC	MG/KG	0.53 U	0.58 U	0.95 JB	0.79 JB	0.37 U	0.38 U
BARIUM	MG/KG	2.8 JB	1.3 JB	5.1 B	5.2 B	3.9 U	4 U
BERYLLIUM	MG/KG	0.05 U	0.05 U	0.21 U	0.18 U	0.18 U	0.19 U
CADMIUM	MG/KG	0.33 U	0.35 UJ	0.62 U	0.54 U	0.56 U	0.57 U
CALCIUM	MG/KG	86.6 B	27.8 U	3390	1370	68 B	84 B
CHROMIUM	MG/KG	2.7 J	1.6 JB	5.1	1.9	1.6 JB	6.7 J
COBALT	MG/KG	0.85 U	0.34 U	1.2 U	1.1 U	1.1 U	1.1 U
COPPER	MG/KG	0.33 U	0.32 U	0.82 U	0.77 JB	0.74 U	0.76 U
IRON	MG/KG	446 J	232 J	3610	223	137	157
LEAD	MG/KG	2	0.99	4.2	2.1	2.5	1.9
MAGNESIUM	MG/KG	57.3 B	21.1 B	66.5 B	43.2 B	20.3 B	22.5 B
MANGANESE	MG/KG	1.8 JB	1.7 JB	2.3 JB	1.4 JB	0.53 JB	1.6 JB
MERCURY	MG/KG	0.02 U	0.03 U	0.1 U	0.1 U	0.09 U	0.11 U
NICKEL	MG/KG	1.4 U	1.3 U	3.5 U	3 U	3.1 U	3.2 U
POTASSIUM	MG/KG	76.7 B	37 JB	78.6 U	68.7 U	70.9 U	72.4 U
SELENIUM	MG/KG	0.89 U	0.96 U	0.87 U	0.77 U	0.93 U	0.95 U
SILVER	MG/KG	0.35 UJ	0.34 UJ	2.1 U	1.8 U	1.9 U	1.9 U
SODIUM	MG/KG	18.3 UJ	14.5 UJ	80.2 UJ	46.1 UJ	10.6 JB	31.7 JB
THALLIUM	MG/KG	0.36 U	0.38 U	0.35 U	0.31 U	0.37 U	0.38 U
VANADIUM	MG/KG	2.6 JB	0.83 JB	18.1	1.5 B	0.93 U	0.95 U
ZINC	MG/KG	0.75 UJ	0.39 UJ	2.3 B	2.6 B	1.8 U	1.4 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-201B-SB13-02	6-201B-SB17-02	6-201B-SB25-01	6-201B-SB33-01	6-201B-SB37-01	6-201C-SB13-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/26/92	8/26/92	8/27/92	8/27/92	8/27/92	8/31/92
	Lab Id:	00438-17	00446-16	00452-32	00452-35	00452-37	00474-02
Parameter	Units						
ALUMINUM	MG/KG	2670	1580	1290	1850	365	3390
ANTIMONY	MG/KG	10.1 U	9.5 U	9 UJ	8.4 UJ	9.6 UJ	2.6 UJ
ARSENIC	MG/KG	0.79 B	1.8 JB	0.39 U	0.39 U	0.37 U	0.66 B
BARIUM	MG/KG	4.3 U	4.1 U	8.2 B	5.8 B	4.1 U	4.2 JB
BERYLLIUM	MG/KG	0.21 U	0.19 U	0.18 U	0.17 U	0.2 U	0.06 UJ
CADMIUM	MG/KG	0.62 U	0.58 U	0.55 U	0.52 U	0.59 U	0.63 JB
CALCIUM	MG/KG	653 B	85.1 B	943	832 B	243 B	508 B
CHROMIUM	MG/KG	3.8	0.97 U	1.3 JB	2.3 J	0.98 UJ	3.8 UJ
COBALT	MG/KG	1.2 U	1.2 U	1.1 U	1 U	1.2 U	0.37 U
COPPER	MG/KG	0.83 U	0.78 U	0.85 JB	0.71 JB	0.78 U	0.44 JB
IRON	MG/KG	2000	221	243	699	173	2470
LEAD	MG/KG	3.4	1.6	2	2	0.87	2 R
MAGNESIUM	MG/KG	42.6 B	24.3 B	21.2 B	43.6 B	13.7 B	81.3 B
MANGANESE	MG/KG	2.2 B	0.77 JB	1.1 JB	1.6 JB	0.8 JB	1.8 JB
MERCURY	MG/KG	0.1 U	0.1 U	0.09 U	0.1 U	0.09 U	0.05 U
NICKEL	MG/KG	3.5 U	3.3 U	3.1 U	2.9 U	3.3 U	1.5 U
POTASSIUM	MG/KG	79.2 U	74.6 U	70 U	65.9 U	74.8 U	87.1 B
SELENIUM	MG/KG	0.97 U	0.97 UJ	0.96 U	0.99 U	0.92 U	0.96 UJ
SILVER	MG/KG	2.1 U	1.9 U	1.8 U	1.7 U	2 U	0.37 U
SODIUM	MG/KG	10.6 JB	20.5 UJ	11.4 JB	14.2 JB	11.7 JB	11.6 UJ
THALLIUM	MG/KG	0.39 U	0.39 U	0.39 U	0.39 UJ	0.37 U	0.39 UJ
VANADIUM	MG/KG	4.1 B	0.97 U	0.96 B	2.6 B	0.98 U	4.3 B
ZINC	MG/KG	0.83 U	1.8 B	2.3 U	2.7 U	1.9 U	2.6 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-201C-SB17-03	6-201C-SB25-02	6-201C-SB33-01	6-201C-SB37-02	6-201C-SB38-01	6-201C-SB39-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/29/92	8/28/92	8/31/92	8/29/92	8/31/92	8/31/92
Lab Id:	00457-10	00457-13	00474-04	00457-15	00474-06	00474-08

Parameter	Units	6-201C-SB17-03	6-201C-SB25-02	6-201C-SB33-01	6-201C-SB37-02	6-201C-SB38-01	6-201C-SB39-04
ALUMINUM	MG/KG	841	1940	3150	3590	3620	2970
ANTIMONY	MG/KG	8 U	8.8 U	2.4 UJ	9 U	2.8 UJ	2.5 UJ
ARSENIC	MG/KG	0.49 U	0.52 U	0.65 B	0.61 UJ	0.66 UJ	0.61 UJ
BARIUM	MG/KG	3.4 U	3.8 U	7.6 B	3.9 U	7.6 B	6.5 B
BERYLLIUM	MG/KG	0.16 U	0.18 U	0.05 UJ	0.18 U	0.06 UJ	0.05 UJ
CADMIUM	MG/KG	0.49 U	0.54 U	0.33 U	0.55 U	0.57 JB	0.34 U
CALCIUM	MG/KG	123 JB	17100 J	2750	907 JB	4410	24.2 U
CHROMIUM	MG/KG	0.84 B	1.7 B	3.2 UJ	2.5	6	4.4 UJ
COBALT	MG/KG	0.98 U	1.1 U	0.34 U	1.1 U	0.47 UJ	0.35 U
COPPER	MG/KG	0.66 U	0.72 U	0.73 JB	0.74 U	1.7 JB	0.65 JB
IRON	MG/KG	372	626	1040	252	456	833
LEAD	MG/KG	1	1.2	2.5 R	1.9	11.5 R	2.7 R
MAGNESIUM	MG/KG	33.5 B	259 B	105 B	35.6 B	133 B	86.8 B
MANGANESE	MG/KG	1.6 JB	12.6 J	10.7 J	1.7 JB	7.5 J	2.6 JB
MERCURY	MG/KG	0.09 U	0.09 U	0.05 U	0.1 U	0.08 U	0.03 U
NICKEL	MG/KG	2.8 U	3.1 U	1.4 U	3.1 U	1.6 U	1.4 U
POTASSIUM	MG/KG	62.8 U	69 U	67.1 B	70.4 U	84.7 B	187 B
SELENIUM	MG/KG	0.82 UJ	0.87 UJ	0.93 UJ	1 UJ	1.1 UJ	1 UJ
SILVER	MG/KG	1.6 U	1.8 U	0.34 U	1.8 U	0.39 U	0.35 U
SODIUM	MG/KG	32.4 UJ	35.6 UJ	12.4 UJ	20.9 UJ	26.5 UJ	14.5 UJ
THALLIUM	MG/KG	0.33 UJ	0.35 UJ	0.37 UJ	0.41 U	0.44 UJ	0.4 U
VANADIUM	MG/KG	1.3 JB	2.4 JB	2.6 B	1.5 JB	3 B	4.7 B
ZINC	MG/KG	1.6 U	1.8 U	5.6	2.8 U	11.6	1.8 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 201 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	MG/KG	NA	NA	365	4540	6-201A-SB17-01	18/18
ANTIMONY	MG/KG	2.4 UJ	10.1 U	ND	ND		0/18
ARSENIC	MG/KG	0.37 U	0.66 UJ	0.65 B	1.8 JB	6-201B-SB17-02	6/18
BARIUM	MG/KG	3.4 U	4.3 U	1.3 JB	8.2 B	6-201B-SB25-01	10/18
BERYLLIUM	MG/KG	0.05 U	0.21 U	ND	ND		0/18
CADMIUM	MG/KG	0.33 U	0.62 U	0.57 JB	0.63 JB	6-201C-SB13-01	2/18
CALCIUM	MG/KG	24.2 U	27.8 U	68 B	17100 J	6-201C-SB25-02	16/18
CHROMIUM	MG/KG	0.97 U	4.4 UJ	0.84 B	6.7 J	6-201A-SB37-02	13/18
COBALT	MG/KG	0.34 U	1.2 U	ND	ND		0/18
COPPER	MG/KG	0.32 U	0.83 U	0.44 JB	1.7 JB	6-201C-SB38-01	7/18
IRON	MG/KG	NA	NA	137	3610	6-201A-SB17-01	18/18
LEAD	MG/KG	NA	NA	0.87	4.2	6-201A-SB17-01	18/18
MAGNESIUM	MG/KG	NA	NA	13.7 B	259 B	6-201C-SB25-02	18/18
MANGANESE	MG/KG	NA	NA	0.53 JB	12.6 J	6-201C-SB25-02	18/18
MERCURY	MG/KG	0.02 U	0.11 U	ND	ND		0/18
NICKEL	MG/KG	1.3 U	3.5 U	ND	ND		0/18
POTASSIUM	MG/KG	62.8 U	79.2 U	37 JB	187 B	6-201C-SB39-04	6/18
SELENIUM	MG/KG	0.77 U	1.1 UJ	ND	ND		0/18
SILVER	MG/KG	0.34 UJ	2.1 U	ND	ND		0/18
SODIUM	MG/KG	11.6 UJ	80.2 UJ	10.6 JB	31.7 JB	6-201A-SB37-02	6/18
THALLIUM	MG/KG	0.31 U	0.44 UJ	ND	ND		0/18
VANADIUM	MG/KG	0.93 U	0.98 U	0.83 JB	18.1	6-201A-SB17-01	14/18
ZINC	MG/KG	0.39 UJ	2.8 U	1.8 B	11.6	6-201C-SB38-01	5/18

CLEJ-01272-3.13-08/20/93

L.3

Site 6, Lot 203 - Surface Soil, Organic and Inorganic

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB04-00	6-203DDT-SB1-00	6-203DDT-SB10-00	6-203DDT-SB11-00	6-203DDT-SB12-00	6-203DDT-SB13-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/9/92	9/9/92	9/9/92	9/9/92	9/9/92
Lab Id:	00484-01	00496-01	00496-14	00497-11	00497-13	00497-15
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
BETA-BHC	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
DELTA-BHC	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
HEPTACHLOR	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
ALDRIN	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
ENDOSULFAN I	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
DIELDRIN	UG/KG	3.6 U	3.5 U	3.4 UJ	3.7 UJ	3.6 UJ
4,4'-DDE	UG/KG	3.6 U	3.5 U	5.7 J	3.7 UJ	3.8 J
ENDRIN	UG/KG	3.6 U	21	3.4 UJ	3.7 UJ	3.6 UJ
ENDOSULFAN II	UG/KG	3.6 U	3.5 U	4.4 J	3.7 UJ	3.6 UJ
4,4'-DDD	UG/KG	3.6 U	3.5 U	3.4 UJ	3.7 UJ	3.6 UJ
ENDOSULFAN SULFATE	UG/KG	3.6 U	3.5 U	3.4 UJ	3.7 UJ	3.6 UJ
4,4'-DDT	UG/KG	3.6 U	3.5 U	3.4 UJ	3.7 UJ	15 J
METHOXYCHLOR	UG/KG	18 U	18 U	18 UJ	19 UJ	18 UJ
ENDRIN KETONE	UG/KG	3.6 U	3.5 U	3.4 UJ	3.7 UJ	3.6 UJ
ENDRIN ALDEHYDE	UG/KG	3.6 UJ	3.5 U	3.4 UJ	3.7 UJ	3.6 UJ
ALPHA CHLORDANE	UG/KG	1.8 U	6.9	1.8 UJ	1.9 UJ	1.8 UJ
GAMMA CHLORDANE	UG/KG	1.8 U	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
TOXAPHENE	UG/KG	180 U	180 U	180 UJ	190 UJ	180 UJ
PCB-1016	UG/KG			34 UJ		
PCB-1221	UG/KG			69 UJ		
PCB-1232	UG/KG			34 UJ		
PCB-1242	UG/KG			34 UJ		
PCB-1248	UG/KG			34 UJ		
PCB-1254	UG/KG			34 UJ		
PCB-1260	UG/KG			230 J		
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG			11 U		
BROMOMETHANE	UG/KG			11 U		
VINYL CHLORIDE	UG/KG			11 U		
CHLOROETHANE	UG/KG			11 U		
METHYLENE CHLORIDE	UG/KG			11 U		
ACETONE	UG/KG			11 U		
CARBON DISULFIDE	UG/KG			11 U		
1,1-DICHLOROETHENE	UG/KG			11 U		
1,1-DICHLOROETHANE	UG/KG			11 U		
1,2-DICHLOROETHENE	UG/KG			11 U		
CHLOROFORM	UG/KG			11 U		
1,2-DICHLOROETHANE	UG/KG			11 UJ		
2-BUTANONE	UG/KG			11 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB04-00	6-203DDT-SB1-00	6-203DDT-SB10-00	6-203DDT-SB11-00	6-203DDT-SB12-00	6-203DDT-SB13-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/2/92	9/9/92	9/9/92	9/9/92	9/9/92	9/9/92	
Lab Id:	00484-01	00496-01	00496-14	00497-11	00497-13	00497-15	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						11 U
CARBON TETRACHLORIDE	UG/KG						11 U
BROMODICHLOROMETHANE	UG/KG						11 U
1,2-DICHLOROPROPANE	UG/KG						11 U
CIS-1,3-DICHLOROPROPENE	UG/KG						11 U
TRICHLOROETHENE	UG/KG						11 U
DIBROMOCHLOROMETHANE	UG/KG						11 U
1,1,2-TRICHLOROETHANE	UG/KG						11 U
BENZENE	UG/KG						11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG						11 U
BROMOFORM	UG/KG						11 U
4-METHYL-2-PENTANONE	UG/KG						11 U
2-HEXANONE	UG/KG						11 U
TETRACHLOROETHENE	UG/KG						11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG						11 U
TOLUENE	UG/KG						11 U
CHLOROBENZENE	UG/KG						11 U
ETHYLBENZENE	UG/KG						11 U
STYRENE	UG/KG						11 U
TOTAL XYLENES	UG/KG						11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG						340 U
2-CHLOROPHENOL	UG/KG						340 U
1,3-DICHLOROBENZENE	UG/KG						340 U
1,4-DICHLOROBENZENE	UG/KG						340 U
1,2-DICHLOROBENZENE	UG/KG						340 U
2-METHYLPHENOL	UG/KG						340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						340 U
4-METHYLPHENOL	UG/KG						340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG						340 U
HEXACHLOROETHANE	UG/KG						340 U
NITROBENZENE	UG/KG						340 U
ISOPHORONE	UG/KG						340 U
2-NITROPHENOL	UG/KG						340 U
2,4-DIMETHYLPHENOL	UG/KG						340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG						340 U
2,4-DICHLOROPHENOL	UG/KG						340 U
1,2,4-TRICHLOROBENZENE	UG/KG						340 U
NAPHTHALENE	UG/KG						340 U
4-CHLORANILINE	UG/KG						340 U
HEXACHLOROBUTADIENE	UG/KG						340 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB04-00	6-203DDT-SB1-00	6-203DDT-SB10-00	6-203DDT-SB11-00	6-203DDT-SB12-00	6-203DDT-SB13-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/9/92	9/9/92	9/9/92	9/9/92	9/9/92
Lab Id:	00484-01	00496-01	00496-14	00497-11	00497-13	00497-15
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG			340 U		
2-METHYLNAPHTHALENE	UG/KG			340 U		
HEXACHLOROCYCLOPENTADIENE	UG/KG			340 U		
2,4,6-TRICHLOROPHENOL	UG/KG			340 U		
2,4,5-TRICHLOROPHENOL	UG/KG			820 U		
2-CHLORONAPHTHALENE	UG/KG			340 U		
2-NITROANILINE	UG/KG			820 U		
DIMETHYL PHTHALATE	UG/KG			340 U		
ACENAPHTHYLENE	UG/KG			340 U		
2,6-DINITROTOLUENE	UG/KG			340 U		
3-NITROANILINE	UG/KG			820 U		
ACENAPHTHENE	UG/KG			340 U		
2,4-DINITROPHENOL	UG/KG			820 U		
4-NITROPHENOL	UG/KG			820 U		
DIBENZOFURAN	UG/KG			340 U		
2,4-DINITROTOLUENE	UG/KG			340 U		
DIETHYL PHTHALATE	UG/KG			340 U		
4-CHLOROPHENYL PHENYL ETHER	UG/KG			340 UJ		
FLUORENE	UG/KG			340 U		
4-NITROANILINE	UG/KG			820 U		
4,6-DINITRO-2-METHYLPHENOL	UG/KG			820 U		
N-NITRISODIPHENYLAMINE	UG/KG			340 U		
4-BROMOPHENYL PHENYL ETHER	UG/KG			340 U		
HEXACHLOROBENZENE	UG/KG			340 U		
PENTACHLOROPHENOL	UG/KG			820 U		
PHENANTHRENE	UG/KG			66 J		
ANTHRACENE	UG/KG			340 U		
DI-N-BUTYL PHTHALATE	UG/KG			340 U		
FLUORANTHENE	UG/KG			130 J		
CARBAZOLE	UG/KG			340 U		
PYRENE	UG/KG			140 J		
BUTYL BENZYL PHTHALATE	UG/KG			340 U		
3,3-DICHLOROBENZIDINE	UG/KG			340 U		
BENZO(A)ANTHRACENE	UG/KG			64 J		
CHRYSENE	UG/KG			58 J		
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG			340 U		
DI-N-OCTYL PHTHALATE	UG/KG			340 U		
BENZO(B)FLUORANTHENE	UG/KG			91 J		
BENZO(K)FLUORANTHENE	UG/KG			42 J		
BENZO(A)PYRENE	UG/KG			57 J		
INDENO(1,2,3-CD) PYRENE	UG/KG			42 J		
DIBENZ(A,H)ANTHRACENE	UG/KG			340 U		
BENZO(G,H,I)PERYLENE	UG/KG			340 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB14-00	6-203DDT-SB15-00	6-203DDT-SB16-00	6-203DDT-SB17-00	6-203DDT-SB18-00	6-203DDT-SB19-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/1/92	9/9/92	9/10/92	9/2/92	9/2/92
Lab Id:	00497-17	00485-04	00497-19	00503-01	00485-06	00485-09
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
BETA-BHC	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
DELTA-BHC	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
HEPTACHLOR	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
ALDRIN	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
ENDOSULFAN I	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
DIELDRIN	UG/KG	3.3 UJ	3.9 U	3.6 UJ	3.5 U	3.5 UJ
4,4'-DDE	UG/KG	3.3 UJ	3.9 U	6.4 J	3.5 U	340 J
ENDRIN	UG/KG	3.3 UJ	3.9 U	3.6 UJ	3.5 U	36 J
ENDOSULFAN II	UG/KG	3.3 UJ	3.9 U	3.6 UJ	3.5 U	35 UJ
4,4'-DDD	UG/KG	3.3 UJ	3.9 U	5.2 J	3.5 U	180 J
ENDOSULFAN SULFATE	UG/KG	3.3 UJ	3.9 U	3.6 UJ	3.5 U	35 UJ
4,4'-DDT	UG/KG	3.3 UJ	3.9 U	18 J	3.5 U	770 J
METHOXYCHLOR	UG/KG	17 UJ	20 U	18 UJ	18 U	180 UJ
ENDRIN KETONE	UG/KG	3.3 UJ	3.9 U	3.6 UJ	3.5 U	35 UJ
ENDRIN ALDEHYDE	UG/KG	3.3 UJ	3.9 U	3.6 UJ	3.5 U	35 UJ
ALPHA CHLORDANE	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
GAMMA CHLORDANE	UG/KG	1.7 UJ	2 U	1.8 UJ	1.8 U	1.8 UJ
TOXAPHENE	UG/KG	170 UJ	200 U	180 UJ	180 U	1800 UJ
PCB-1016	UG/KG					
PCB-1221	UG/KG					
PCB-1232	UG/KG					
PCB-1242	UG/KG					
PCB-1248	UG/KG					
PCB-1254	UG/KG					
PCB-1260	UG/KG					
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG					
BROMOMETHANE	UG/KG					
VINYL CHLORIDE	UG/KG					
CHLOROETHANE	UG/KG					
METHYLENE CHLORIDE	UG/KG					
ACETONE	UG/KG					
CARBON DISULFIDE	UG/KG					
1,1-DICHLOROETHENE	UG/KG					
1,1-DICHLOROETHANE	UG/KG					
1,2-DICHLOROETHENE	UG/KG					
CHLOROFORM	UG/KG					
1,2-DICHLOROETHANE	UG/KG					
2-BUTANONE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-203DDT-SB14-00	6-203DDT-SB15-00	6-203DDT-SB16-00	6-203DDT-SB17-00	6-203DDT-SB18-00	6-203DDT-SB19-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/9/92	9/1/92	9/9/92	9/10/92	9/2/92	9/2/92
	Lab Id:	00497-17	00485-04	00497-19	00503-01	00485-06	00485-09
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						
CARBON TETRACHLORIDE	UG/KG						
BROMODICHLOROMETHANE	UG/KG						
1,2-DICHLOROPROPANE	UG/KG						
CIS-1,3-DICHLOROPROPENE	UG/KG						
TRICHLOROETHENE	UG/KG						
DIBROMOCHLOROMETHANE	UG/KG						
1,1,2-TRICHLOROETHANE	UG/KG						
BENZENE	UG/KG						
TRANS-1,3-DICHLOROPROPENE	UG/KG						
BROMOFORM	UG/KG						
4-METHYL-2-PENTANONE	UG/KG						
2-HEXANONE	UG/KG						
TETRACHLOROETHENE	UG/KG						
1,1,2,2-TETRACHLOROETHANE	UG/KG						
TOLUENE	UG/KG						
CHLOROBENZENE	UG/KG						
ETHYLBENZENE	UG/KG						
STYRENE	UG/KG						
TOTAL XYLENES	UG/KG						
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						
BIS(2-CHLOROETHYL) ETHER	UG/KG						
2-CHLOROPHENOL	UG/KG						
1,3-DICHLOROBENZENE	UG/KG						
1,4-DICHLOROBENZENE	UG/KG						
1,2-DICHLOROBENZENE	UG/KG						
2-METHYLPHENOL	UG/KG						
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						
4-METHYLPHENOL	UG/KG						
N-NITROSODI-N-PROPYLAMINE	UG/KG						
HEXACHLOROETHANE	UG/KG						
NITROBENZENE	UG/KG						
ISOPHORONE	UG/KG						
2-NITROPHENOL	UG/KG						
2,4-DIMETHYLPHENOL	UG/KG						
BIS(2-CHLOROETHOXY) METHANE	UG/KG						
2,4-DICHLOROPHENOL	UG/KG						
1,2,4-TRICHLOROBENZENE	UG/KG						
NAPHTHALENE	UG/KG						
4-CHLORANILINE	UG/KG						
HEXACHLOROBUTADIENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB14-00	6-203DDT-SB15-00	6-203DDT-SB16-00	6-203DDT-SB17-00	6-203DDT-SB18-00	6-203DDT-SB19-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/1/92	9/9/92	9/10/92	9/2/92	9/2/92
Lab Id:	00497-17	00485-04	00497-19	00503-01	00485-06	00485-09
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG					
2-METHYLNAPHTHALENE	UG/KG					
HEXACHLOROCYCLOPENTADIENE	UG/KG					
2,4,6-TRICHLOROPHENOL	UG/KG					
2,4,5-TRICHLOROPHENOL	UG/KG					
2-CHLORONAPHTHALENE	UG/KG					
2-NITROANILINE	UG/KG					
DIMETHYL PHTHALATE	UG/KG					
ACENAPHTHYLENE	UG/KG					
2,6-DINITROTOLUENE	UG/KG					
3-NITROANILINE	UG/KG					
ACENAPHTHENE	UG/KG					
2,4-DINITROPHENOL	UG/KG					
4-NITROPHENOL	UG/KG					
DIBENZOFURAN	UG/KG					
2,4-DINITROTOLUENE	UG/KG					
DIETHYL PHTHALATE	UG/KG					
4-CHLOROPHENYL PHENYL ETHER	UG/KG					
FLUORENE	UG/KG					
4-NITROANILINE	UG/KG					
4,6-DINITRO-2-METHYLPHENOL	UG/KG					
N-NITRISODIPHENYLAMINE	UG/KG					
4-BROMOPHENYL PHENYL ETHER	UG/KG					
HEXACHLOROBENZENE	UG/KG					
PENTACHLOROPHENOL	UG/KG					
PHENANTHRENE	UG/KG					
ANTHRACENE	UG/KG					
DI-N-BUTYL PHTHALATE	UG/KG					
FLUORANTHENE	UG/KG					
CARBAZOLE	UG/KG					
PYRENE	UG/KG					
BUTYL BENZYL PHTHALATE	UG/KG					
3,3-DICHLOROBENZIDINE	UG/KG					
BENZO(A)ANTHRACENE	UG/KG					
CHRYSENE	UG/KG					
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					
DI-N-OCTYL PHTHALATE	UG/KG					
BENZO(B)FLUORANTHENE	UG/KG					
BENZO(K)FLUORANTHENE	UG/KG					
BENZO(A)PYRENE	UG/KG					
INDENO(1,2,3-CD) PYRENE	UG/KG					
DIBENZ(A,H)ANTHRACENE	UG/KG					
BENZO(G,H,I)PERYLENE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB2-00	6-203DDT-SB20-00	6-203DDT-SB21-00	6-203DDT-SB22-00	6-203DDT-SB23-00	6-203DDT-SB24-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/9/92	9/1/92	9/2/92	9/2/92	9/2/92	9/10/92	
Lab Id:	00496-11	00485-11	00485-13	00485-15	00485-18	00502-20	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
BETA-BHC	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
DELTA-BHC	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
HEPTACHLOR	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
ALDRIN	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
ENDOSULFAN I	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
DIELDRIN	UG/KG	3.4 UJ	3.6 U	7.2 UJ	3.5 U	3.7 U	3.5 U
4,4'-DDE	UG/KG	3.8 J	3.6 U	7.2 UJ	3.5 U	7	25
ENDRIN	UG/KG	3.4 UJ	3.6 U	7.2 UJ	3.5 U	3.7 U	3.5 U
ENDOSULFAN II	UG/KG	3.4 UJ	3.6 U	7.2 UJ	3.5 U	3.7 U	3.5 U
4,4'-DDD	UG/KG	3.4 UJ	3.6 U	7.2 UJ	3.5 U	3.7 U	4.5 J
ENDOSULFAN SULFATE	UG/KG	3.4 UJ	3.6 U	7.2 UJ	3.5 U	3.7 U	3.5 U
4,4'-DDT	UG/KG	3.4 J	3.6 U	51 J	3.5 U	60	6.6 J
METHOXYCHLOR	UG/KG	18 UJ	19 U	37 UJ	18 U	19 U	18 U
ENDRIN KETONE	UG/KG	3.4 UJ	3.6 U	7.2 UJ	3.5 U	3.7 U	3.5 U
ENDRIN ALDEHYDE	UG/KG	3.4 UJ	3.6 U	7.2 UJ	3.5 U	3.7 U	3.5 U
ALPHA CHLORDANE	UG/KG	2.3 J	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.8 UJ	1.9 U	3.7 UJ	1.8 U	1.9 U	1.8 U
TOXAPHENE	UG/KG	180 UJ	190 U	370 UJ	180 U	190 U	180 U
PCB-1016	UG/KG						35 U
PCB-1221	UG/KG						72 U
PCB-1232	UG/KG						35 U
PCB-1242	UG/KG						35 U
PCB-1248	UG/KG						35 U
PCB-1254	UG/KG						35 U
PCB-1260	UG/KG						35 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG						10 U
BROMOMETHANE	UG/KG						10 U
VINYL CHLORIDE	UG/KG						10 U
CHLOROETHANE	UG/KG						10 U
METHYLENE CHLORIDE	UG/KG						10 U
ACETONE	UG/KG						4 J
CARBON DISULFIDE	UG/KG						10 U
1,1-DICHLOROETHENE	UG/KG						10 U
1,1-DICHLOROETHANE	UG/KG						10 U
1,2-DICHLOROETHENE	UG/KG						10 U
CHLOROFORM	UG/KG						10 U
1,2-DICHLOROETHANE	UG/KG						10 UJ
2-BUTANONE	UG/KG						10 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-203DDT-SB2-00	6-203DDT-SB20-00	6-203DDT-SB21-00	6-203DDT-SB22-00	6-203DDT-SB23-00	6-203DDT-SB24-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/9/92	9/1/92	9/2/92	9/2/92	9/2/92	9/10/92
	Lab Id:	00496-11	00485-11	00485-13	00485-15	00485-18	00502-20
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						10 U
CARBON TETRACHLORIDE	UG/KG						10 U
BROMODICHLOROMETHANE	UG/KG						10 U
1,2-DICHLOROPROPANE	UG/KG						10 U
CIS-1,3-DICHLOROPROPENE	UG/KG						10 U
TRICHLOROETHENE	UG/KG						10 U
DIBROMOCHLOROMETHANE	UG/KG						10 U
1,1,2-TRICHLOROETHANE	UG/KG						10 U
BENZENE	UG/KG						10 U
TRANS-1,3-DICHLOROPROPENE	UG/KG						10 U
BROMOFORM	UG/KG						10 U
4-METHYL-2-PENTANONE	UG/KG						10 U
2-HEXANONE	UG/KG						10 U
TETRACHLOROETHENE	UG/KG						10 U
1,1,2,2-TETRACHLOROETHANE	UG/KG						10 U
TOLUENE	UG/KG						10 U
CHLOROBENZENE	UG/KG						10 U
ETHYLBENZENE	UG/KG						10 U
STYRENE	UG/KG						10 U
TOTAL XYLENES	UG/KG						10 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG						350 U
2-CHLOROPHENOL	UG/KG						350 U
1,3-DICHLOROBENZENE	UG/KG						350 U
1,4-DICHLOROBENZENE	UG/KG						350 U
1,2-DICHLOROBENZENE	UG/KG						350 U
2-METHYLPHENOL	UG/KG						350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						350 U
4-METHYLPHENOL	UG/KG						350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG						350 U
HEXACHLOROETHANE	UG/KG						350 U
NITROBENZENE	UG/KG						350 U
ISOPHORONE	UG/KG						350 U
2-NITROPHENOL	UG/KG						350 U
2,4-DIMETHYLPHENOL	UG/KG						350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG						350 U
2,4-DICHLOROPHENOL	UG/KG						350 U
1,2,4-TRICHLOROBENZENE	UG/KG						350 U
NAPHTHALENE	UG/KG						350 U
4-CHLORANILINE	UG/KG						350 U
HEXACHLOROBUTADIENE	UG/KG						350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-203DDT-SB2-00	6-203DDT-SB20-00	6-203DDT-SB21-00	6-203DDT-SB22-00	6-203DDT-SB23-00	6-203DDT-SB24-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/9/92	9/1/92	9/2/92	9/2/92	9/2/92	9/10/92
	Lab Id:	00496-11	00485-11	00485-13	00485-15	00485-18	00502-20
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG						350 U
2-METHYLNAPHTHALENE	UG/KG						350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG						350 U
2,4,6-TRICHLOROPHENOL	UG/KG						350 U
2,4,5-TRICHLOROPHENOL	UG/KG						850 U
2-CHLORONAPHTHALENE	UG/KG						350 U
2-NITROANILINE	UG/KG						850 U
DIMETHYL PHTHALATE	UG/KG						350 U
ACENAPHTHYLENE	UG/KG						350 U
2,6-DINITROTOLUENE	UG/KG						350 U
3-NITROANILINE	UG/KG						850 U
ACENAPHTHENE	UG/KG						350 U
2,4-DINITROPHENOL	UG/KG						850 U
4-NITROPHENOL	UG/KG						850 U
DIBENZOFURAN	UG/KG						350 U
2,4-DINITROTOLUENE	UG/KG						350 UJ
DIETHYL PHTHALATE	UG/KG						350 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG						350 UJ
FLUORENE	UG/KG						350 UJ
4-NITROANILINE	UG/KG						850 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG						850 U
N-NITRISODIPHENYLAMINE	UG/KG						350 U
4-BROMOPHENYL PHENYL ETHER	UG/KG						350 U
HEXACHLOROBENZENE	UG/KG						350 U
PENTACHLOROPHENOL	UG/KG						850 U
PHENANTHRENE	UG/KG						350 U
ANTHRACENE	UG/KG						350 U
DI-N-BUTYL PHTHALATE	UG/KG						350 U
FLUORANTHENE	UG/KG						350 UJ
CARBAZOLE	UG/KG						350 U
PYRENE	UG/KG						350 U
BUTYL BENZYL PHTHALATE	UG/KG						350 U
3,3-DICHLOROBENZIDINE	UG/KG						350 U
BENZO(A)ANTHRACENE	UG/KG						350 U
CHRYSENE	UG/KG						350 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG						350 U
DI-N-OCTYL PHTHALATE	UG/KG						350 UJ
BENZO(B)FLUORANTHENE	UG/KG						350 U
BENZO(K)FLUORANTHENE	UG/KG						350 U
BENZO(A)PYRENE	UG/KG						350 U
INDENO(1,2,3-CD) PYRENE	UG/KG						350 U
DIBENZ(A,H)ANTHRACENE	UG/KG						350 U
BENZO(G,H,I)PERYLENE	UG/KG						350 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203DDT-SB25-00	6-203DDT-SB26-00	6-203DDT-SB26-00D	6-203DDT-SB27-00	6-203DDT-SB28-00	6-203DDT-SB29-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/10/92	9/10/92	9/01/92	9/1/92	9/1/92
Lab Id:	00485-20	00502-23	00502-24	00475-09	00485-22	00485-24
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
BETA-BHC	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
DELTA-BHC	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
HEPTACHLOR	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
ALDRIN	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
ENDOSULFAN I	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
DIELDRIN	UG/KG	3.5 U	3.4 U	3.6 U	33 U	3.5 UJ
4,4'-DDE	UG/KG	4.8 J	9.2	11	33 U	3.5 UJ
ENDRIN	UG/KG	3.5 U	3.4 U	3.6 U	33 U	3.5 UJ
ENDOSULFAN II	UG/KG	3.5 U	3.4 U	3.6 U	33 U	3.5 UJ
4,4'-DDD	UG/KG	3.5 U	3.4 U	3.6 U	33 U	3.5 UJ
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.4 U	3.6 U	33 U	3.5 UJ
4,4'-DDT	UG/KG	12	20	19	33 U	3.5 UJ
METHOXYCHLOR	UG/KG	18 U	18 U	18 U	170 U	18 UJ
ENDRIN KETONE	UG/KG	3.5 U	3.4 U	3.6 U	33 U	3.5 UJ
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.4 U	3.6 U	33 U	3.5 UJ
ALPHA CHLORDANE	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
GAMMA CHLORDANE	UG/KG	1.8 U	1.8 U	1.8 U	17 U	1.8 UJ
TOXAPHENE	UG/KG	180 U	180 U	180 U	1700 U	180 UJ
PCB-1016	UG/KG		34 U	36 U		
PCB-1221	UG/KG		70 U	72 U		
PCB-1232	UG/KG		34 U	36 U		
PCB-1242	UG/KG		34 U	36 U		
PCB-1248	UG/KG		34 U	36 U		
PCB-1254	UG/KG		34 U	36 U		
PCB-1260	UG/KG		34 U	36 U		
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG		11 U	11 U		
BROMOMETHANE	UG/KG		11 U	11 U		
VINYL CHLORIDE	UG/KG		11 U	11 U		
CHLOROETHANE	UG/KG		11 U	11 U		
METHYLENE CHLORIDE	UG/KG		11 U	11 U		
ACETONE	UG/KG		11 U	11 U		
CARBON DISULFIDE	UG/KG		11 U	11 U		
1,1-DICHLOROETHENE	UG/KG		11 U	11 U		
1,1-DICHLOROETHANE	UG/KG		11 U	11 U		
1,2-DICHLOROETHENE	UG/KG		11 U	11 U		
CHLOROFORM	UG/KG		11 U	11 U		
1,2-DICHLOROETHANE	UG/KG		11 UJ	11 U		
2-BUTANONE	UG/KG		11 U	11 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB25-00	6-203DDT-SB26-00	6-203DDT-SB26-00D	6-203DDT-SB27-00	6-203DDT-SB28-00	6-203DDT-SB29-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/10/92	9/10/92	9/01/92	9/1/92	9/1/92
Lab Id:	00485-20	00502-23	00502-24	00475-09	00485-22	00485-24
Parameter	Units					
<u>VOLATILES Cont:</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U		11 UJ		
CARBON TETRACHLORIDE	UG/KG	11 U		11 UJ		
BROMODICHLOROMETHANE	UG/KG	11 U		11 U		
1,2-DICHLOROPROPANE	UG/KG	11 U		11 U		
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U		11 UJ		
TRICHLOROETHENE	UG/KG	11 U		11 U		
DIBROMOCHLOROMETHANE	UG/KG	11 U		11 U		
1,1,2-TRICHLOROETHANE	UG/KG	11 U		11 U		
BENZENE	UG/KG	11 U		11 U		
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U		11 UJ		
BROMOFORM	UG/KG	11 U		11 U		
4-METHYL-2-PENTANONE	UG/KG	11 U		11 U		
2-HEXANONE	UG/KG	11 U		11 U		
TETRACHLOROETHENE	UG/KG	11 U		11 U		
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U		11 U		
TOLUENE	UG/KG	11 U		11 U		
CHLOROBENZENE	UG/KG	11 U		11 U		
ETHYLBENZENE	UG/KG	11 U		11 U		
STYRENE	UG/KG	11 U		11 U		
TOTAL XYLENES	UG/KG	11 U		11 U		
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	350 U		360 U		
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U		360 U		
2-CHLOROPHENOL	UG/KG	350 U		360 U		
1,3-DICHLOROBENZENE	UG/KG	350 U		360 U		
1,4-DICHLOROBENZENE	UG/KG	350 U		360 U		
1,2-DICHLOROBENZENE	UG/KG	350 U		360 U		
2-METHYLPHENOL	UG/KG	350 U		360 U		
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U		360 U		
4-METHYLPHENOL	UG/KG	350 U		360 U		
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U		360 U		
HEXACHLOROETHANE	UG/KG	350 U		360 U		
NITROBENZENE	UG/KG	350 U		360 U		
ISOPHORONE	UG/KG	350 U		360 U		
2-NITROPHENOL	UG/KG	350 U		360 U		
2,4-DIMETHYLPHENOL	UG/KG	350 U		360 U		
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U		360 U		
2,4-DICHLOROPHENOL	UG/KG	350 U		360 U		
1,2,4-TRICHLOROBENZENE	UG/KG	350 U		360 U		
NAPHTHALENE	UG/KG	350 U		360 U		
4-CHLORANILINE	UG/KG	350 U		360 U		
HEXACHLOROBUTADIENE	UG/KG	350 U		360 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB25-00	6-203DDT-SB26-00	6-203DDT-SB26-00D	6-203DDT-SB27-00	6-203DDT-SB28-00	6-203DDT-SB29-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/10/92	9/10/92	9/01/92	9/1/92	9/1/92
Lab Id:	00485-20	00502-23	00502-24	00475-09	00485-22	00485-24
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	350 U		360 U		
2-METHYLNAPHTHALENE	UG/KG	350 U		360 U		
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U		360 U		
2,4,6-TRICHLOROPHENOL	UG/KG	350 U		360 U		
2,4,5-TRICHLOROPHENOL	UG/KG	840 U		870 U		
2-CHLORONAPHTHALENE	UG/KG	350 U		360 U		
2-NITROANILINE	UG/KG	840 U		870 U		
DIMETHYL PHTHALATE	UG/KG	350 U		360 U		
ACENAPHTHYLENE	UG/KG	350 U		360 U		
2,6-DINITROTOLUENE	UG/KG	350 U		360 U		
3-NITROANILINE	UG/KG	840 U		870 U		
ACENAPHTHENE	UG/KG	350 U		360 U		
2,4-DINITROPHENOL	UG/KG	840 U		870 U		
4-NITROPHENOL	UG/KG	840 U		870 U		
DIBENZOFURAN	UG/KG	350 U		360 U		
2,4-DINITROTOLUENE	UG/KG	350 UJ		360 UJ		
DIETHYL PHTHALATE	UG/KG	350 U		360 U		
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 UJ		360 UJ		
FLUORENE	UG/KG	350 UJ		360 UJ		
4-NITROANILINE	UG/KG	840 U		870 U		
4,6-DINITRO-2-METHYLPHENOL	UG/KG	840 U		870 U		
N-NITRISODIPHENYLAMINE	UG/KG	350 U		360 U		
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 U		360 U		
HEXACHLOROBENZENE	UG/KG	350 U		360 U		
PENTACHLOROPHENOL	UG/KG	840 U		870 U		
PHENANTHRENE	UG/KG	350 U		360 U		
ANTHRACENE	UG/KG	350 U		360 U		
DI-N-BUTYL PHTHALATE	UG/KG	350 U		360 U		
FLUORANTHENE	UG/KG	350 UJ		360 UJ		
CARBAZOLE	UG/KG	350 U		360 U		
PYRENE	UG/KG	350 U		360 U		
BUTYL BENZYL PHTHALATE	UG/KG	350 U		360 U		
3,3-DICHLOROBENZIDINE	UG/KG	350 U		360 U		
BENZO(A)ANTHRACENE	UG/KG	350 U		360 U		
CHRYSENE	UG/KG	350 U		360 U		
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	67 J		89 J		
DI-N-OCTYL PHTHALATE	UG/KG	350 UJ		360 UJ		
BENZO(B)FLUORANTHENE	UG/KG	350 U		360 U		
BENZO(K)FLUORANTHENE	UG/KG	350 U		360 U		
BENZO(A)PYRENE	UG/KG	350 U		360 U		
INDENO(1,2,3-CD) PYRENE	UG/KG	350 U		360 U		
DIBENZ(A,H)ANTHRACENE	UG/KG	350 U		360 U		
BENZO(G,H,I)PERYLENE	UG/KG	350 U		360 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB3-00	6-203DDT-SB30-00	6-203DDT-SB31-00	6-203DDT-SB32-00	6-203DDT-SB33-00	6-203DDT-SB34-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/01/92	9/01/92	9/01/92	9/01/92	9/01/92	9/10/92	
Lab Id:	00474-09	00475-11	00475-13	00475-16	00475-18	00503-05	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
BETA-BHC	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
DELTA-BHC	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
HEPTACHLOR	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
ALDRIN	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
ENDOSULFAN I	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
DIELDRIN	UG/KG	3.5 U	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
4,4'-DDE	UG/KG	3.5 U	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
ENDRIN	UG/KG	3.5 U	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
ENDOSULFAN II	UG/KG	3.5 U	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
4,4'-DDD	UG/KG	9.5 J	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
4,4'-DDT	UG/KG	19	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
METHOXYCHLOR	UG/KG	18 U	18 UJ	18 U	170 U	20 U	18 U
ENDRIN KETONE	UG/KG	3.5 U	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.5 UJ	3.6 U	33 U	3.9 U	3.5 U
ALPHA CHLORDANE	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.8 U	1.8 UJ	1.8 U	17 U	2 U	1.8 U
TOXAPHENE	UG/KG	180 U	180 UJ	180 U	1700 U	200 U	180 U
PCB-1016	UG/KG						
PCB-1221	UG/KG						
PCB-1232	UG/KG						
PCB-1242	UG/KG						
PCB-1248	UG/KG						
PCB-1254	UG/KG						
PCB-1260	UG/KG						
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG						
BROMOMETHANE	UG/KG						
VINYL CHLORIDE	UG/KG						
CHLOROETHANE	UG/KG						
METHYLENE CHLORIDE	UG/KG						
ACETONE	UG/KG						
CARBON DISULFIDE	UG/KG						
1,1-DICHLOROETHENE	UG/KG						
1,1-DICHLOROETHANE	UG/KG						
1,2-DICHLOROETHENE	UG/KG						
CHLOROFORM	UG/KG						
1,2-DICHLOROETHANE	UG/KG						
2-BUTANONE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-203DDT-SB3-00	6-203DDT-SB30-00	6-203DDT-SB31-00	6-203DDT-SB32-00	6-203DDT-SB33-00	6-203DDT-SB34-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/01/92	9/01/92	9/01/92	9/01/92	9/01/92	9/10/92
	Lab Id:	00474-09	00475-11	00475-13	00475-16	00475-18	00503-05
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG						
CARBON TETRACHLORIDE	UG/KG						
BROMODICHLOROMETHANE	UG/KG						
1,2-DICHLOROPROPANE	UG/KG						
CIS-1,3-DICHLOROPROPENE	UG/KG						
TRICHLOROETHENE	UG/KG						
DIBROMOCHLOROMETHANE	UG/KG						
1,1,2-TRICHLOROETHANE	UG/KG						
BENZENE	UG/KG						
TRANS-1,3-DICHLOROPROPENE	UG/KG						
BROMOFORM	UG/KG						
4-METHYL-2-PENTANONE	UG/KG						
2-HEXANONE	UG/KG						
TETRACHLOROETHENE	UG/KG						
1,1,2,2-TETRACHLOROETHANE	UG/KG						
TOLUENE	UG/KG						
CHLOROBENZENE	UG/KG						
ETHYLBENZENE	UG/KG						
STYRENE	UG/KG						
TOTAL XYLENES	UG/KG						
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG						
BIS(2-CHLOROETHYL) ETHER	UG/KG						
2-CHLOROPHENOL	UG/KG						
1,3-DICHLOROBENZENE	UG/KG						
1,4-DICHLOROBENZENE	UG/KG						
1,2-DICHLOROBENZENE	UG/KG						
2-METHYLPHENOL	UG/KG						
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG						
4-METHYLPHENOL	UG/KG						
N-NITROSODI-N-PROPYLAMINE	UG/KG						
HEXACHLOROETHANE	UG/KG						
NITROBENZENE	UG/KG						
ISOPHORONE	UG/KG						
2-NITROPHENOL	UG/KG						
2,4-DIMETHYLPHENOL	UG/KG						
BIS(2-CHLOROETHOXY) METHANE	UG/KG						
2,4-DICHLOROPHENOL	UG/KG						
1,2,4-TRICHLOROBENZENE	UG/KG						
NAPHTHALENE	UG/KG						
4-CHLORANILINE	UG/KG						
HEXACHLOROBUTADIENE	UG/KG						

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB3-00	6-203DDT-SB30-00	6-203DDT-SB31-00	6-203DDT-SB32-00	6-203DDT-SB33-00	6-203DDT-SB34-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	9/01/92	9/01/92	9/01/92	9/01/92	9/10/92
Lab Id:	00474-09	00475-11	00475-13	00475-16	00475-18	00503-05
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG					
2-METHYLNAPHTHALENE	UG/KG					
HEXACHLOROCYCLOPENTADIENE	UG/KG					
2,4,6-TRICHLOROPHENOL	UG/KG					
2,4,5-TRICHLOROPHENOL	UG/KG					
2-CHLORONAPHTHALENE	UG/KG					
2-NITROANILINE	UG/KG					
DIMETHYL PHTHALATE	UG/KG					
ACENAPHTHYLENE	UG/KG					
2,6-DINITROTOLUENE	UG/KG					
3-NITROANILINE	UG/KG					
ACENAPHTHENE	UG/KG					
2,4-DINITROPHENOL	UG/KG					
4-NITROPHENOL	UG/KG					
DIBENZOFURAN	UG/KG					
2,4-DINITROTOLUENE	UG/KG					
DIETHYL PHTHALATE	UG/KG					
4-CHLOROPHENYL PHENYL ETHER	UG/KG					
FLUORENE	UG/KG					
4-NITROANILINE	UG/KG					
4,6-DINITRO-2-METHYLPHENOL	UG/KG					
N-NITRISODIPHENYLAMINE	UG/KG					
4-BROMOPHENYL PHENYL ETHER	UG/KG					
HEXACHLOROBENZENE	UG/KG					
PENTACHLOROPHENOL	UG/KG					
PHENANTHRENE	UG/KG					
ANTHRACENE	UG/KG					
DI-N-BUTYL PHTHALATE	UG/KG					
FLUORANTHENE	UG/KG					
CARBAZOLE	UG/KG					
PYRENE	UG/KG					
BUTYL BENZYL PHTHALATE	UG/KG					
3,3-DICHLOROBENZIDINE	UG/KG					
BENZO(A)ANTHRACENE	UG/KG					
CHRYSENE	UG/KG					
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					
DI-N-OCTYL PHTHALATE	UG/KG					
BENZO(B)FLUORANTHENE	UG/KG					
BENZO(K)FLUORANTHENE	UG/KG					
BENZO(A)PYRENE	UG/KG					
INDENO(1,2,3-CD) PYRENE	UG/KG					
DIBENZ(A,H)ANTHRACENE	UG/KG					
BENZO(G,H,I)PERYLENE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203DDT-SB5-00	6-203DDT-SB6-00	6-203DDT-SB7-00	6-203DDT-SB8-00	6-203DDT-SB9-00	6-203OSA-SB21-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/01/92	9/9/92	9/9/92	9/9/92	9/9/92	8/30/92	
Lab Id:	00474-11	00497-01	00497-03	00496-03	00497-09	00467-01	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
BETA-BHC	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
DELTA-BHC	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
GAMMA-BHC(LINDANE)	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
HEPTACHLOR	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
ALDRIN	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
HEPTACHLOR EPOXIDE	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
ENDOSULFAN I	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
DIELDRIN	UG/KG	3.3 U	3.5 UJ	3.5 UJ	3.6 UJ	3.6 U	38 U
4,4'-DDE	UG/KG	3.3 U	3.5 UJ	3.5 UJ	14 J	3.6 U	43
ENDRIN	UG/KG	3.3 U	3.5 UJ	3.5 UJ	3.6 UJ	3.6 U	38 U
ENDOSULFAN II	UG/KG	3.3 U	3.5 UJ	3.5 UJ	3.6 UJ	3.6 U	38 U
4,4'-DDD	UG/KG	3.3 U	3.5 UJ	3.5 UJ	7.1 J	3.6 U	38 U
ENDOSULFAN SULFATE	UG/KG	3.3 U	3.5 UJ	3.5 UJ	3.6 UJ	3.6 U	38 U
4,4'-DDT	UG/KG	3.3 U	3.5 UJ	3.5 UJ	31 J	3.6 U	91
METHOXYCHLOR	UG/KG	17 U	18 UJ	18 UJ	18 UJ	18 U	200 U
ENDRIN KETONE	UG/KG	3.3 U	3.5 UJ	3.5 UJ	3.6 UJ	3.6 U	38 U
ENDRIN ALDEHYDE	UG/KG	3.3 U	3.5 UJ	3.5 UJ	3.6 UJ	3.6 U	38 U
ALPHA CHLORDANE	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
GAMMA CHLORDANE	UG/KG	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	20 U
TOXAPHENE	UG/KG	170 U	180 UJ	180 UJ	180 UJ	180 U	2000 U
PCB-1016	UG/KG				36 UJ		380 U
PCB-1221	UG/KG				73 UJ		770 U
PCB-1232	UG/KG				36 UJ		380 U
PCB-1242	UG/KG				36 UJ		380 U
PCB-1248	UG/KG				36 UJ		380 U
PCB-1254	UG/KG				36 UJ		380 U
PCB-1260	UG/KG				270 J		380 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG				11 U		12 U
BROMOMETHANE	UG/KG				11 U		12 U
VINYL CHLORIDE	UG/KG				11 U		12 U
CHLOROETHANE	UG/KG				11 U		12 U
METHYLENE CHLORIDE	UG/KG				11 U		12 U
ACETONE	UG/KG				11 U		12 UJ
CARBON DISULFIDE	UG/KG				11 U		12 U
1,1-DICHLOROETHENE	UG/KG				11 U		12 U
1,1-DICHLOROETHANE	UG/KG				11 U		12 U
1,2-DICHLOROETHENE	UG/KG				11 U		12 U
CHLOROFORM	UG/KG				11 U		12 U
1,2-DICHLOROETHANE	UG/KG				11 UJ		12 U
2-BUTANONE	UG/KG				11 U		12 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-203DDT-SB5-00	6-203DDT-SB6-00	6-203DDT-SB7-00	6-203DDT-SB8-00	6-203DDT-SB9-00	6-203OSA-SB21-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/01/92	9/9/92	9/9/92	9/9/92	9/9/92	8/30/92
	Lab Id:	00474-11	00497-01	00497-03	00496-03	00497-09	00467-01
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG				11 U		12 U
CARBON TETRACHLORIDE	UG/KG				11 U		12 UJ
BROMODICHLOROMETHANE	UG/KG				11 U		12 U
1,2-DICHLOROPROPANE	UG/KG				11 U		12 U
CIS-1,3-DICHLOROPROPENE	UG/KG				11 U		12 U
TRICHLOROETHENE	UG/KG				11 U		12 U
DIBROMOCHLOROMETHANE	UG/KG				11 U		12 U
1,1,2-TRICHLOROETHANE	UG/KG				11 U		12 U
BENZENE	UG/KG				11 U		12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG				11 U		12 U
BROMOFORM	UG/KG				11 U		12 U
4-METHYL-2-PENTANONE	UG/KG				11 U		12 U
2-HEXANONE	UG/KG				11 U		12 U
TETRACHLOROETHENE	UG/KG				11 U		12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG				11 U		12 U
TOLUENE	UG/KG				11 U		12 U
CHLOROBENZENE	UG/KG				11 U		12 U
ETHYLBENZENE	UG/KG				11 U		12 U
STYRENE	UG/KG				11 U		12 U
TOTAL XYLENES	UG/KG				11 U		12 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG				360 U		380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG				360 U		380 U
2-CHLOROPHENOL	UG/KG				360 U		380 U
1,3-DICHLOROBENZENE	UG/KG				360 U		380 U
1,4-DICHLOROBENZENE	UG/KG				360 U		380 U
1,2-DICHLOROBENZENE	UG/KG				360 U		380 U
2-METHYLPHENOL	UG/KG				360 U		380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG				360 U		380 UJ
4-METHYLPHENOL	UG/KG				360 U		380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG				360 UJ		380 U
HEXACHLOROETHANE	UG/KG				360 U		380 U
NITROBENZENE	UG/KG				360 UJ		380 U
ISOPHORONE	UG/KG				360 UJ		380 U
2-NITROPHENOL	UG/KG				360 U		380 U
2,4-DIMETHYLPHENOL	UG/KG				360 U		380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG				360 U		380 U
2,4-DICHLOROPHENOL	UG/KG				360 U		380 U
1,2,4-TRICHLOROBENZENE	UG/KG				360 U		380 U
NAPHTHALENE	UG/KG				360 U		380 U
4-CHLORANILINE	UG/KG				360 U		380 U
HEXACHLOROBUTADIENE	UG/KG				360 U		380 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203DDT-SB5-00	6-203DDT-SB6-00	6-203DDT-SB7-00	6-203DDT-SB8-00	6-203DDT-SB9-00	6-203OSA-SB21-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	9/9/92	9/9/92	9/9/92	9/9/92	8/30/92
Lab Id:	00474-11	00497-01	00497-03	00496-03	00497-09	00467-01
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG			360 U		380 U
2-METHYLNAPHTHALENE	UG/KG			360 U		380 U
HEXACHLOROCYCLOPENTADIENE	UG/KG			360 U		380 U
2,4,6-TRICHLOROPHENOL	UG/KG			360 U		380 U
2,4,5-TRICHLOROPHENOL	UG/KG			860 U		920 U
2-CHLORONAPHTHALENE	UG/KG			360 U		380 U
2-NITROANILINE	UG/KG			860 U		920 U
DIMETHYL PHTHALATE	UG/KG			360 U		380 U
ACENAPHTHYLENE	UG/KG			360 U		380 U
2,6-DINITROTOLUENE	UG/KG			360 U		380 U
3-NITROANILINE	UG/KG			860 U		920 U
ACENAPHTHENE	UG/KG			360 U		380 U
2,4-DINITROPHENOL	UG/KG			860 U		920 U
4-NITROPHENOL	UG/KG			860 U		920 U
DIBENZOFURAN	UG/KG			360 U		380 U
2,4-DINITROTOLUENE	UG/KG			360 U		380 U
DIEIHYL PHTHALATE	UG/KG			360 U		380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG			360 U		380 U
FLUORENE	UG/KG			360 U		380 U
4-NITROANILINE	UG/KG			860 U		920 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG			860 U		920 U
N-NITRISODIPHENYLAMINE	UG/KG			360 U		380 U
4-BROMOPHENYL PHENYL ETHER	UG/KG			360 U		380 U
HEXACHLOROBENZENE	UG/KG			360 U		380 U
PENTACHLOROPHENOL	UG/KG			860 U		920 U
PHENANTHRENE	UG/KG			360 U		380 U
ANTHRACENE	UG/KG			360 U		380 U
DI-N-BUTYL PHTHALATE	UG/KG			360 U		380 U
FLUORANTHENE	UG/KG			100 J		380 U
CARBAZOLE	UG/KG			360 U		380 U
PYRENE	UG/KG			100 J		380 U
BUTYL BENZYL PHTHALATE	UG/KG			360 U		380 U
3,3-DICHLOROBENZIDINE	UG/KG			360 U		380 U
BENZO(A)ANTHRACENE	UG/KG			39 J		380 U
CHRYSENE	UG/KG			66 J		380 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG			360 U		160 J
DI-N-OCTYL PHTHALATE	UG/KG			360 U		380 U
BENZO(B)FLUORANTHENE	UG/KG			140 J		380 U
BENZO(K)FLUORANTHENE	UG/KG			360 U		380 U
BENZO(A)PYRENE	UG/KG			72 J		380 U
INDENO(1,2,3-CD) PYRENE	UG/KG			62 J		380 U
DIBENZ(A,H)ANTHRACENE	UG/KG			360 U		380 U
BENZO(G,H,I)PERYLENE	UG/KG			65 J		380 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB22-00	6-203OSA-SB23-00	6-203OSA-SB24-00	6-203OSA-SB25-00	6-203OSA-SB26-00	6-203OSA-SB27-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	
Lab Id:	00467-03	00467-05	00467-07	00467-09	00467-11	00467-13	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
BETA-BHC	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
DELTA-BHC	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
HEPTACHLOR	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
ALDRIN	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
ENDOSULFAN I	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
DIELDRIN	UG/KG	35	17 UJ	270 J	3.3 U	18 U	3.4 U
4,4'-DDE	UG/KG	3.5 U	700 J	35 UJ	3.3 U	45	3.4 U
ENDRIN	UG/KG	3.5 U	17 UJ	35 UJ	3.3 U	18 U	3.4 U
ENDOSULFAN II	UG/KG	3.5 U	17 UJ	35 UJ	3.3 U	18 U	3.4 U
4,4'-DDD	UG/KG	3.5 U	17 UJ	35 UJ	3.3 U	27 J	3.4 U
ENDOSULFAN SULFATE	UG/KG	3.5 U	17 UJ	35 UJ	3.3 U	18 U	3.4 U
4,4'-DDT	UG/KG	3.5 U	850 J	350 J	3.3 U	18 U	3.4 U
METHOXYCHLOR	UG/KG	18 U	89 UJ	180 UJ	17 U	91 U	17 U
ENDRIN KETONE	UG/KG	3.5 U	17 UJ	35 UJ	3.3 U	18 U	3.4 U
ENDRIN ALDEHYDE	UG/KG	3.5 U	17 UJ	35 UJ	3.3 U	18 U	3.4 U
ALPHA CHLORDANE	UG/KG	1.8 U	8.9 UJ	18 UJ	1.7 U	9.1 U	1.7 U
GAMMA CHLORDANE	UG/KG	1.8 U	8.9 UJ	160 J	1.7 U	9.1 U	1.7 U
TOXAPHENE	UG/KG	180 U	890 UJ	1800 UJ	170 U	910 U	170 U
PCB-1016	UG/KG	35 U	170 UJ	350 UJ	33 U	180 U	34 U
PCB-1221	UG/KG	72 U	350 UJ	710 UJ	67 U	360 U	68 U
PCB-1232	UG/KG	35 U	170 UJ	350 UJ	33 U	180 U	34 U
PCB-1242	UG/KG	35 U	170 UJ	350 UJ	33 U	180 U	34 U
PCB-1243	UG/KG	35 U	170 UJ	350 UJ	33 U	180 U	34 U
PCB-1254	UG/KG	35 U	170 UJ	350 UJ	33 U	180 U	34 U
PCB-1260	UG/KG	35 U	170 UJ	42000 J	33 U	2300 J	34 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
BROMOMETHANE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
VINYL CHLORIDE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
CHLOROETHANE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
METHYLENE CHLORIDE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
ACETONE	UG/KG	11 UJ	10 UJ	11 UJ	10 UJ	11 UJ	46 UJ
CARBON DISULFIDE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
1,1-DICHLOROETHENE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
1,1-DICHLOROETHANE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
1,2-DICHLOROETHENE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
CHLOROFORM	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
1,2-DICHLOROETHANE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U
2-BUTANONE	UG/KG	11 U	10 U	11 U	10 U	11 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB22-00	6-203OSA-SB23-00	6-203OSA-SB24-00	6-203OSA-SB25-00	6-203OSA-SB26-00	6-203OSA-SB27-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92
Lab Id:	00467-03	00467-05	00467-07	00467-09	00467-11	00467-13
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	10 U	11 U	10 U	10 U
CARBON TETRACHLORIDE	UG/KG	11 UJ	10 UJ	11 UJ	10 UJ	10 UJ
BROMODICHLOROMETHANE	UG/KG	11 U	10 U	11 U	10 U	10 U
1,2-DICHLOROPROPANE	UG/KG	11 U	10 U	11 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	10 U	11 U	10 U	10 U
TRICHLOROETHENE	UG/KG	11 U	10 U	11 U	10 U	10 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	10 U	11 U	10 U	10 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	10 U	11 U	10 U	10 U
BENZENE	UG/KG	11 U	10 U	11 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	10 U	11 U	10 U	10 U
BROMOFORM	UG/KG	11 U	10 U	11 U	10 U	10 U
4-METHYL-2-PENTANONE	UG/KG	11 U	10 U	11 U	10 U	10 U
2-HEXANONE	UG/KG	11 U	10 U	11 U	10 U	10 U
TETRACHLOROETHENE	UG/KG	11 U	10 U	11 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	10 U	11 U	10 U	10 U
TOLUENE	UG/KG	11 U	7 J	11 U	10 U	10 U
CHLOROBENZENE	UG/KG	11 U	10 U	11 U	10 U	10 U
ETHYLBENZENE	UG/KG	11 U	10 U	11 U	10 U	10 U
STYRENE	UG/KG	11 U	10 U	11 U	10 U	10 U
TOTAL XYLENES	UG/KG	11 U	10 U	11 U	10 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	360 U	340 U	350 U	330 U	340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 U	340 U	350 U	330 U	340 U
2-CHLOROPHENOL	UG/KG	360 U	340 U	350 U	330 U	340 U
1,3-DICHLOROBENZENE	UG/KG	360 U	340 U	350 U	330 U	340 U
1,4-DICHLOROBENZENE	UG/KG	37 J	340 U	350 U	330 U	340 U
1,2-DICHLOROBENZENE	UG/KG	360 U	340 U	350 U	330 U	340 U
2-METHYLPHENOL	UG/KG	360 U	340 U	350 U	330 U	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 UJ	340 U	350 U	330 U	340 U
4-METHYLPHENOL	UG/KG	360 U	340 U	350 U	330 U	340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	340 U	350 U	330 U	340 U
HEXACHLOROETHANE	UG/KG	360 U	340 U	350 U	330 U	340 U
NITROBENZENE	UG/KG	360 U	340 U	350 U	330 U	340 U
ISOPHORONE	UG/KG	360 U	340 U	350 U	330 U	340 U
2-NITROPHENOL	UG/KG	360 U	340 U	350 U	330 U	340 U
2,4-DIMETHYLPHENOL	UG/KG	360 U	340 U	350 U	330 U	340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	340 U	350 U	330 U	340 U
2,4-DICHLOROPHENOL	UG/KG	360 U	340 U	350 U	330 U	340 U
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	340 U	350 U	330 U	340 U
NAPHTHALENE	UG/KG	360 U	340 U	350 U	330 U	340 U
4-CHLORANILINE	UG/KG	360 U	340 U	350 U	330 U	340 U
HEXACHLOROBUTADIENE	UG/KG	360 U	340 U	350 U	330 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB22-00	6-203OSA-SB23-00	6-203OSA-SB24-00	6-203OSA-SB25-00	6-203OSA-SB26-00	6-203OSA-SB27-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	
Lab Id:	00467-03	00467-05	00467-07	00467-09	00467-11	00467-13	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
2-METHYLNAPHTHALENE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
2,4,6-TRICHLOROPHENOL	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
2,4,5-TRICHLOROPHENOL	UG/KG	870 U	830 U	850 U	790 U	850 U	820 U
2-CHLORONAPHTHALENE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
2-NITROANILINE	UG/KG	870 U	830 U	850 U	790 U	850 U	820 U
DIMETHYL PHTHALATE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
ACENAPHTHYLENE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
2,6-DINITROTOLUENE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
3-NITROANILINE	UG/KG	870 U	830 U	850 U	790 U	850 U	820 U
ACENAPHTHENE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
2,4-DINITROPHENOL	UG/KG	870 U	830 U	850 U	790 U	850 U	820 U
4-NITROPHENOL	UG/KG	870 U	830 U	850 U	790 U	850 U	820 U
DIBENZOFURAN	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
2,4-DINITROTOLUENE	UG/KG	360 U	340 UJ	350 UJ	330 U	350 U	340 U
DIETHYL PHTHALATE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
FLUORENE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
4-NITROANILINE	UG/KG	870 U	830 U	850 U	790 U	850 U	820 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	870 U	830 U	850 U	790 U	850 U	820 U
N-NITRISODIPHENYLAMINE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
HEXACHLOROBENZENE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
PENTACHLOROPHENOL	UG/KG	870 U	830 U	850 U	790 U	850 U	820 U
PHENANTHRENE	UG/KG	360 U	68 J	350 U	330 U	270 J	340 U
ANTHRACENE	UG/KG	360 U	340 U	350 U	330 U	55 J	340 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
FLUORANTHENE	UG/KG	360 U	130 J	61 J	330 U	350	340 U
CARBAZOLE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
PYRENE	UG/KG	360 U	110 J	58 J	330 UJ	260 J	340 UJ
BUTYL BENZYL PHTHALATE	UG/KG	360 U	340 U	350 U	330 U	350 U	340 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U	340 U	540	330 U	350 U	340 U
BENZO(A)ANTHRACENE	UG/KG	360 U	62 J	350 U	330 U	140 J	340 U
CHRYSENE	UG/KG	360 U	63 J	350 U	330 U	120 J	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	53 J	52 J	55 J	330 UJ	350 UJ	340 UJ
DI-N-OCTYL PHTHALATE	UG/KG	360 UJ	340 UJ	350 UJ	330 UJ	350 UJ	340 UJ
BENZO(B)FLUORANTHENE	UG/KG	360 UJ	88 J	350 U	330 U	170 J	340 U
BENZO(K)FLUORANTHENE	UG/KG	360 UJ	340 U	350 U	330 U	51 J	340 U
BENZO(A)PYRENE	UG/KG	360 UJ	340 U	350 U	330 U	100 J	340 U
INDENO(1,2,3-CD) PYRENE	UG/KG	360 UJ	340 U	350 U	330 U	55 J	340 U
DIBENZ(A,H)ANTHRACENE	UG/KG	360 UJ	340 U	350 U	330 U	350 U	340 U
BENZO(G,H,I)PERYLENE	UG/KG	360 UJ	340 U	350 U	330 U	350 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB28-00	6-203OSA-SB29-00	6-203OSA-SB30-00	6-203OSA-SB31-00	6-203OSA-SB32-00	6-203OSA-SB33-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	8/30/92	
Lab Id:	00467-15	00467-17	00467-20	00467-22	00467-24	00467-27	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
BETA-BHC	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
DELTA-BHC	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
HEPTACHLOR	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
ALDRIN	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
ENDOSULFAN I	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
DIELDRIN	UG/KG	3.6 U	3.3 U	35 U	3.6 U	14	18 U
4,4'-DDE	UG/KG	6.8	4.7	2100	3.6 U	3.5 U	65
ENDRIN	UG/KG	3.6 U	3.3 U	35 U	3.6 U	3.5 U	18 U
ENDOSULFAN II	UG/KG	3.6 U	3.3 U	35 U	3.6 U	3.5 U	18 U
4,4'-DDD	UG/KG	3.6 U	3.3 U	35 U	3.6 U	3.5 U	18 U
ENDOSULFAN SULFATE	UG/KG	3.6 U	3.3 U	35 U	3.6 U	3.5 U	18 U
4,4'-DDT	UG/KG	7.2 J	19	1500 J	3.6 U	10 J	25 J
METHOXYCHLOR	UG/KG	18 U	17 U	180 U	18 U	18 U	91 U
ENDRIN KETONE	UG/KG	3.6 U	3.3 U	35 U	3.6 U	3.5 U	18 U
ENDRIN ALDEHYDE	UG/KG	3.6 U	3.3 U	35 U	3.6 U	3.5 U	18 U
ALPHA CHLORDANE	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
GAMMA CHLORDANE	UG/KG	1.8 U	1.7 U	18 U	1.8 U	1.8 U	9.1 U
TOXAPHENE	UG/KG	180 U	170 U	1800 U	180 U	180 U	910 U
PCB-1016	UG/KG	36 U	33 U	350 U	36 U	35 U	180 U
PCB-1221	UG/KG	73 U	67 U	720 U	72 U	71 U	360 U
PCB-1232	UG/KG	36 U	33 U	350 U	36 U	35 U	180 U
PCB-1242	UG/KG	36 U	33 U	350 U	36 U	35 U	180 U
PCB-1248	UG/KG	36 U	33 U	350 U	36 U	35 U	180 U
PCB-1254	UG/KG	36 U	33 U	350 U	36 U	35 U	180 U
PCB-1260	UG/KG	36 U	33 U	350 U	150	35 U	180 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
BROMOMETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
VINYL CHLORIDE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
CHLOROETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
ACETONE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
CARBON DISULFIDE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
CHLOROFORM	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U
2-BUTANONE	UG/KG	11 U	10 U	11 U	11 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB28-00	6-203OSA-SB29-00	6-203OSA-SB30-00	6-203OSA-SB31-00	6-203OSA-SB32-00	6-203OSA-SB33-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	8/30/92
Lab Id:	00467-15	00467-17	00467-20	00467-22	00467-24	00467-27
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U
CARBON TETRACHLORIDE	UG/KG	11 U	10 U	11 U	11 U	11 U
BROMODICHLOROMETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	10 U	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	10 U	11 U	11 U	11 U
TRICHLOROETHENE	UG/KG	11 U	10 U	11 U	11 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U
BENZENE	UG/KG	11 U	10 U	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	10 U	11 U	11 U	11 U
BROMOFORM	UG/KG	11 U	10 U	11 U	11 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	10 U	11 U	11 U	11 U
2-HEXANONE	UG/KG	11 U	10 U	11 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	10 U	11 U	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	10 U	11 U	11 U	11 U
TOLUENE	UG/KG	11 U	10 U	11 U	11 U	11 U
CHLOROENZENE	UG/KG	11 U	10 U	11 U	11 U	11 U
ETHYLBENZENE	UG/KG	11 U	10 U	11 U	11 U	11 U
STYRENE	UG/KG	11 U	10 U	11 U	11 U	11 U
TOTAL XYLENES	UG/KG	11 U	10 U	11 U	11 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	360 U	330 U	350 U	350 U	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 U	330 U	350 U	350 U	350 U
2-CHLOROPHENOL	UG/KG	360 U	330 U	350 U	350 U	350 U
1,3-DICHLOROBENZENE	UG/KG	360 U	330 U	350 U	350 U	350 U
1,4-DICHLOROBENZENE	UG/KG	360 U	330 U	350 U	350 U	350 U
1,2-DICHLOROBENZENE	UG/KG	360 U	330 U	350 U	350 U	350 U
2-METHYLPHENOL	UG/KG	360 U	330 U	350 U	350 U	350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 U	330 U	350 U	350 U	350 U
4-METHYLPHENOL	UG/KG	360 U	330 U	350 U	350 U	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	330 U	350 U	350 U	350 U
HEXACHLOROETHANE	UG/KG	360 U	330 U	350 U	350 U	350 U
NITROBENZENE	UG/KG	360 U	330 U	350 U	350 U	350 U
ISOPHORONE	UG/KG	360 U	330 U	350 U	350 U	350 U
2-NITROPHENOL	UG/KG	360 U	330 U	350 U	350 U	350 U
2,4-DIMETHYLPHENOL	UG/KG	360 U	330 U	350 U	350 U	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	330 U	350 U	350 U	350 U
2,4-DICHLOROPHENOL	UG/KG	360 U	330 U	350 U	350 U	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	330 U	350 U	350 U	350 U
NAPHTHALENE	UG/KG	360 U	330 U	350 U	350 U	350 U
4-CHLORANILINE	UG/KG	360 U	330 U	350 U	350 U	350 U
HEXACHLOROBUTADIENE	UG/KG	360 U	330 U	350 U	350 U	350 U

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB28-00	6-203OSA-SB29-00	6-203OSA-SB30-00	6-203OSA-SB31-00	6-203OSA-SB32-00	6-203OSA-SB33-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	8/30/92
Lab Id:	00467-15	00467-17	00467-20	00467-22	00467-24	00467-27
Parameter	Units					
* <u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	360 U	330 U	350 U	350 U	350 UJ
2-METHYLNAPHTHALENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
HEXACHLOROCYCLOPENTADIENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
2,4,6-TRICHLOROPHENOL	UG/KG	360 U	330 U	350 U	350 U	350 UJ
2,4,5-TRICHLOROPHENOL	UG/KG	870 U	790 U	850 U	860 U	850 UJ
2-CHLORONAPHTHALENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
2-NITROANILINE	UG/KG	870 U	790 U	850 U	860 U	850 UJ
DIMETHYL PHTHALATE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
ACENAPHTHYLENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
2,6-DINITROTOLUENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
3-NITROANILINE	UG/KG	870 U	790 U	850 U	860 U	850 UJ
ACENAPHTHENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
2,4-DINITROPHENOL	UG/KG	870 U	790 U	850 U	860 U	850 UJ
4-NITROPHENOL	UG/KG	870 U	790 U	850 U	860 U	850 UJ
DIBENZOFURAN	UG/KG	360 U	330 U	350 U	350 U	350 UJ
2,4-DINITROTOLUENE	UG/KG	360 U	330 UJ	350 U	350 U	350 UJ
DIETHYL PHTHALATE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	330 U	350 U	350 U	350 UJ
FLUORENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
4-NITROANILINE	UG/KG	870 U	790 U	850 U	860 U	850 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/KG	870 U	790 U	850 U	860 U	850 UJ
N-NITRISODIPHENYLAMINE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U	330 U	350 U	350 U	350 UJ
HEXACHLOROBENZENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
PENTACHLOROPHENOL	UG/KG	870 U	790 U	850 U	860 U	850 UJ
PHENANTHRENE	UG/KG	360 U	330 U	350 U	90 J	350 UJ
ANTHRACENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
DI-N-BUTYL PHTHALATE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
FLUORANTHENE	UG/KG	360 U	330 U	160 J	120 J	350 UJ
CARBAZOLE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
PYRENE	UG/KG	360 UJ	330 U	260 J	100 J	350 UJ
BUTYL BENZYL PHTHALATE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
3,3-DICHLOROBENZIDINE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
BENZO(A)ANTHRACENE	UG/KG	360 U	330 U	240 J	47 J	350 UJ
CHRYSENE	UG/KG	360 U	330 U	230 J	50 J	350 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	110 J	54 J	76 J	1300	350 UJ
DI-N-OCTYL PHTHALATE	UG/KG	360 UJ	330 UJ	350 U	350 U	350 UJ
BENZO(B)FLUORANTHENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
BENZO(K)FLUORANTHENE	UG/KG	360 U	330 U	76 J	350 U	350 UJ
BENZO(A)PYRENE	UG/KG	360 U	330 U	120 J	350 U	350 UJ
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ
BENZO(G,H,I)PERYLENE	UG/KG	360 U	330 U	350 U	350 U	350 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-203OSA-SB34-00	6-203OSA-SB35-00	6-203OSA-SB36-00	6-203OSA-SB37-00	6-203OSA-SB38-00	6-203OSA-SB39-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/30/92	8/30/92	8/31/92	10/12/92	10/12/92
	Lab Id:	00467-29	00467-31	00467-33	00467-36	00573-01	00373-03
Parameter	Units						
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
BETA-BHC	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
DELTA-BHC	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
HEPTACHLOR	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
ALDRIN	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
ENDOSULFAN I	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
DIELDRIN	UG/KG	3.5 U	35 U	3.6 U	17 U	35 UR	34 UJ
4,4'-DDE	UG/KG	71	44 J	9.8	83	290 J	62 J
ENDRIN	UG/KG	3.5 U	35 U	3.6 U	17 U	130 J	34 UJ
ENDOSULFAN II	UG/KG	3.5 U	35 U	3.6 U	17 U	35 UR	34 UJ
4,4'-DDD	UG/KG	33	35 U	3.6 U	17 U	35 UR	34 UJ
ENDOSULFAN SULFATE	UG/KG	3.5 U	35 U	3.6 U	17 U	35 UR	34 UJ
4,4'-DDT	UG/KG	31 J	99	13	85	700 J	150 J
METHOXYCHLOR	UG/KG	18 U	180 U	19 U	90 U	180 UR	170 UJ
ENDRIN KETONE	UG/KG	3.5 U	35 U	3.6 U	17 U	35 UR	34 UJ
ENDRIN ALDEHYDE	UG/KG	3.5 U	35 U	3.6 U	17 U	35 UR	34 UJ
ALPHA CHLORDANE	UG/KG	1.8 U	18 U	1.9 U	9 U	72 J	17 UJ
GAMMA CHLORDANE	UG/KG	1.8 U	18 U	1.9 U	9 U	18 UR	17 UJ
TOXAPHENE	UG/KG	180 U	1800 U	190 U	900 U	1800 UR	1700 UJ
PCB-1016	UG/KG	35 U	350 U	36 U	170 U	350 UR	340 UJ
PCB-1221	UG/KG	71 U	700 U	73 U	350 U	710 UR	680 UJ
PCB-1232	UG/KG	35 U	350 U	36 U	170 U	350 UR	340 UJ
PCB-1242	UG/KG	35 U	350 U	36 U	170 U	350 UR	340 UJ
PCB-1248	UG/KG	35 U	350 U	36 U	170 U	580 J	340 UJ
PCB-1254	UG/KG	35 U	350 U	36 U	170 U	2100 J	170 J
PCB-1260	UG/KG	70	350 U	36 U	170 U	550 J	700 J
VOLATILES							
CHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
BROMOMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
VINYL CHLORIDE	UG/KG	11 UJ	11 UJ	11 U	11 U	11 U	11 U
CHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
ACETONE	UG/KG	11 UJ	11 UJ	11 U	11 U	11 U	11 U
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
CHLOROFORM	UG/KG	11 UJ	11 UJ	11 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U

CLEJ-01272-3-13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB34-00	6-203OSA-SB35-00	6-203OSA-SB36-00	6-203OSA-SB37-00	6-203OSA-SB38-00	6-203OSA-SB39-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/30/92	8/31/92	10/12/92	10/12/92
Lab Id:	00467-29	00467-31	00467-33	00467-36	00573-01	00573-03
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
CARBON TETRACHLORIDE	UG/KG	11 U	11 U	11 U	11 U	11 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	11 U	11 U
TRICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
BENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	11 U	11 U
BROMOFORM	UG/KG	11 U	11 U	11 U	11 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	11 U	11 U
2-HEXANONE	UG/KG	11 U	11 U	11 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
TOLUENE	UG/KG	11 U	11 U	11 U	11 U	11 U
CHLOROBENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
STYRENE	UG/KG	11 U	11 U	11 U	11 U	11 U
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	11 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
2-CHLOROPHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
1,3-DICHLOROBENZENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
1,4-DICHLOROBENZENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
1,2-DICHLOROBENZENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
2-METHYLPHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
4-METHYLPHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 UJ	350 UJ	360 U	350 UJ	700 U
HEXACHLOROETHANE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
NITROBENZENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
ISOPHORONE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
2-NITROPHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
2,4-DIMETHYLPHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
2,4-DICHLOROPHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
NAPHTHALENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
4-CHLORANILINE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U
HEXACHLOROBTADIENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB34-00	6-203OSA-SB35-00	6-203OSA-SB36-00	6-203OSA-SB37-00	6-203OSA-SB38-00	6-203OSA-SB39-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/30/92	8/30/92	8/30/92	8/31/92	10/12/92	10/12/92	
Lab Id:	00467-29	00467-31	00467-33	00467-36	00573-01	00573-03	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
2-METHYLNAPHTHALENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	3100 J
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
2,4,6-TRICHLOROPHENOL	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
2,4,5-TRICHLOROPHENOL	UG/KG	850 UJ	840 UJ	880 U	840 U	1700 U	3300 UJ
2-CHLORONAPHTHALENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
2-NITROANILINE	UG/KG	850 UJ	840 UJ	880 U	840 U	1700 U	3300 UJ
DIMETHYL PHTHALATE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
ACENAPHTHYLENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
2,6-DINITROTOLUENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
3-NITROANILINE	UG/KG	850 UJ	840 UJ	880 U	840 U	1700 U	3300 UJ
ACENAPHTHENE	UG/KG	350 UJ	350 UJ	360 U	350 U	250 J	9500 J
2,4-DINITROPHENOL	UG/KG	850 UJ	840 UJ	880 U	840 U	1700 U	3300 UJ
4-NITROPHENOL	UG/KG	850 UJ	840 UJ	880 U	840 U	1700 U	3300 UJ
DIBENZOFURAN	UG/KG	350 UJ	350 UJ	360 U	350 U	140 J	890 J
2,4-DINITROTOLUENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
DIETHYL PHTHALATE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
FLUORENE	UG/KG	350 UJ	350 UJ	360 U	350 U	220 J	940 J
4-NITROANILINE	UG/KG	850 UJ	840 UJ	880 U	840 U	1700 U	3300 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/KG	850 UJ	840 UJ	880 U	840 U	1700 U	3300 UJ
N-NITRISODIPHENYLAMINE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
HEXACHLOROBENZENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
PENTACHLOROPHENOL	UG/KG	850 UJ	840 UJ	880 UJ	840 U	1700 U	3300 UJ
PHENANTHRENE	UG/KG	60 J	350 UJ	360 U	350 U	2000	1300 UJ
ANTHRACENE	UG/KG	350 UJ	350 UJ	360 U	350 U	440 J	1300 UJ
DI-N-BUTYL PHTHALATE	UG/KG	350 UJ	350 UJ	360 U	350 U	160 J	1300 UJ
FLUORANTHENE	UG/KG	99 J	350 UJ	110 J	350 U	2300	1300 UJ
CARBAZOLE	UG/KG	350 UJ	350 UJ	360 U	350 U	390 J	910 J
PYRENE	UG/KG	79 J	350 UJ	87 J	350 U	2800	1300 UJ
BUTYL BENZYL PHTHALATE	UG/KG	350 UJ	350 UJ	360 U	350 U	83 J	1300 UJ
3,3-DICHLOROBENZIDINE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
BENZO(A)ANTHRACENE	UG/KG	350 UJ	350 UJ	52 J	350 U	1600	1300 UJ
CHRYSENE	UG/KG	350 UJ	350 UJ	54 J	350 U	1300	1300 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 UJ	350 UJ	360 U	350 U	400 J	1300 UJ
DI-N-OCTYL PHTHALATE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
BENZO(B)FLUORANTHENE	UG/KG	350 UJ	350 UJ	95 J	350 U	2700	1300 UJ
BENZO(K)FLUORANTHENE	UG/KG	350 UJ	350 UJ	30 J	350 U	1100	1300 UJ
BENZO(A)PYRENE	UG/KG	350 UJ	350 UJ	49 J	350 U	1800	1300 UJ
INDENO(1,2,3-CD) PYRENE	UG/KG	350 UJ	350 UJ	53 J	350 U	1000	1300 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	350 UJ	350 UJ	360 U	350 U	700 U	1300 UJ
BENZO(G,H,I)PERYLENE	UG/KG	350 UJ	350 UJ	41 J	350 U	1000	1300 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB41-00	6-203OSA-SB42-00	6-203PCB-SB1-00	6-203PCB-SB10-00	6-203PCB-SB11-00	6-203PCB-SB12-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/12/92	10/12/92	9/2/92	8/31/92	9/1/92	9/1/92
Lab Id:	00573-06	00573-09	00484-04	00473-07	00483-38	00472-05
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 UJ	19 UJ			1.7 U
BETA-BHC	UG/KG	1.8 UJ	19 UJ			1.7 U
DELTA-BHC	UG/KG	1.8 UJ	19 UJ			1.7 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	19 UJ			1.7 U
HEPTACHLOR	UG/KG	1.8 UJ	19 UJ			1.7 U
ALDRIN	UG/KG	1.8 UJ	19 UJ			1.7 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	19 UJ			1.7 U
ENDOSULFAN I	UG/KG	1.8 UJ	19 UJ			1.7 U
DIELDRIN	UG/KG	3.5 UJ	36 UJ			3.3 U
4,4'-DDE	UG/KG	13 J	120 J			3.3 U
ENDRIN	UG/KG	3.5 UJ	36 UJ			3.3 U
ENDOSULFAN II	UG/KG	3.5 UJ	36 UJ			3.3 U
4,4'-DDD	UG/KG	3.5 UJ	36 UJ			3.3 U
ENDOSULFAN SULFATE	UG/KG	3.5 UJ	36 UJ			3.3 U
4,4'-DDT	UG/KG	26 J	180 J			3.3 U
METHOXYCHLOR	UG/KG	18 UJ	190 UJ			17 U
ENDRIN KETONE	UG/KG	3.5 UJ	36 UJ			3.3 U
ENDRIN ALDEHYDE	UG/KG	3.5 UJ	36 UJ			3.3 U
ALPHA CHLORDANE	UG/KG	1.8 UJ	19 UJ			1.7 U
GAMMA CHLORDANE	UG/KG	1.8 UJ	19 UJ			1.7 U
TOXAPHENE	UG/KG	180 UJ	1900 UJ			170 U
PCB-1016	UG/KG	35 UJ	360 UJ	35 U	33 UJ	38 U
PCB-1221	UG/KG	71 UJ	740 UJ	72 U	67 UJ	76 U
PCB-1232	UG/KG	35 UJ	360 UJ	35 U	33 UJ	38 U
PCB-1242	UG/KG	35 UJ	360 UJ	35 U	33 UJ	38 U
PCB-1248	UG/KG	35 UJ	360 UJ	35 U	33 UJ	38 U
PCB-1254	UG/KG	35 UJ	360 UJ	35 U	33 UJ	38 U
PCB-1260	UG/KG	35 UJ	360 UJ	35 U	41 J	38 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 UJ	11 UJ			11 U
BROMOMETHANE	UG/KG	11 U	11 U			11 UJ
VINYL CHLORIDE	UG/KG	11 U	11 U			11 U
CHLOROETHANE	UG/KG	11 U	11 U			11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U			11 U
ACETONE	UG/KG	15	11 U			14 UJ
CARBON DISULFIDE	UG/KG	11 U	11 U			11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U			11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U			11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U			11 U
CHLOROFORM	UG/KG	11 U	11 U			11 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U			11 U
2-BUTANONE	UG/KG	11 U	11 U			11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB41-00	6-203OSA-SB42-00	6-203PCB-SB1-00	6-203PCB-SB10-00	6-203PCB-SB11-00	6-203PCB-SB12-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/12/92	10/12/92	9/2/92	8/31/92	9/1/92	9/1/92
Lab Id:	00573-06	00573-09	00484-04	00473-07	00485-38	00472-05
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 U			2 J
CARBON TETRACHLORIDE	UG/KG	11 U	11 U			11 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U			11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U			11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U			11 U
TRICHLOROETHENE	UG/KG	11 U	11 U			11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U			11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U			11 U
BENZENE	UG/KG	11 U	11 U			11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U			11 U
BROMOFORM	UG/KG	11 U	11 U			11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U			11 U
2-HEXANONE	UG/KG	11 U	11 U			11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U			11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U			11 U
TOLUENE	UG/KG	11 U	11 U			11 U
CHLOROBENZENE	UG/KG	11 U	11 U			11 U
ETHYLBENZENE	UG/KG	11 U	11 U			11 U
STYRENE	UG/KG	11 U	11 U			11 U
TOTAL XYLENES	UG/KG	11 U	11 U			11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	350 UR	370 U			330 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 UR	370 U			330 U
2-CHLOROPHENOL	UG/KG	350 UR	370 U			330 U
1,3-DICHLOROBENZENE	UG/KG	350 UR	370 U			330 U
1,4-DICHLOROBENZENE	UG/KG	350 UR	370 U			34 J
1,2-DICHLOROBENZENE	UG/KG	350 UR	370 U			330 U
2-METHYLPHENOL	UG/KG	350 UR	370 U			330 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 UR	370 U			330 U
4-METHYLPHENOL	UG/KG	350 UR	370 U			330 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 UR	370 U			330 U
HEXACHLOROETHANE	UG/KG	350 UR	370 U			330 U
NITROBENZENE	UG/KG	350 UR	370 UJ			330 U
ISOPHORONE	UG/KG	350 UR	370 UJ			330 U
2-NITROPHENOL	UG/KG	350 UR	370 U			330 U
2,4-DIMETHYLPHENOL	UG/KG	350 UR	370 U			330 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 UR	370 U			330 U
2,4-DICHLOROPHENOL	UG/KG	350 UR	370 U			330 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 UR	370 U			330 U
NAPHTHALENE	UG/KG	350 UR	370 U			330 U
4-CHLORANILINE	UG/KG	350 UR	370 U			330 U
HEXACHLOROBUTADIENE	UG/KG	350 UR	370 U			330 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJBUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-203OSA-SB41-00	6-203OSA-SB42-00	6-203PCB-SB1-00	6-203PCB-SB10-00	6-203PCB-SB11-00	6-203PCB-SB12-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/12/92	10/12/92	9/2/92	8/31/92	9/1/92	9/1/92
	Lab Id:	00573-06	00573-09	00484-04	00473-07	00485-38	00472-05
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	350 UR		370 U			330 U
2-METHYLNAPHTHALENE	UG/KG	350 UR		370 U			330 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 UR		370 U			330 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 UR		370 U			330 U
2,4,5-TRICHLOROPHENOL	UG/KG	850 UR		890 U			800 U
2-CHLORONAPHTHALENE	UG/KG	350 UR		370 U			330 U
2-NITROANILINE	UG/KG	850 UR		890 UJ			800 U
DIMETHYL PHTHALATE	UG/KG	350 UR		370 U			330 U
ACENAPHTHYLENE	UG/KG	350 UR		370 U			330 U
2,6-DINITROTOLUENE	UG/KG	350 UR		370 U			330 U
3-NITROANILINE	UG/KG	850 UR		890 U			800 U
ACENAPHTHENE	UG/KG	350 UR		370 U			330 U
2,4-DINITROPHENOL	UG/KG	850 UR		890 U			800 U
4-NITROPHENOL	UG/KG	850 UR		890 U			800 U
DIBENZOFURAN	UG/KG	350 UR		370 U			330 U
2,4-DINITROTOLUENE	UG/KG	350 UR		370 U			330 U
DIETHYL PHTHALATE	UG/KG	350 UR		370 U			330 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 UR		370 U			330 U
FLUORENE	UG/KG	350 UR		370 U			330 U
4-NITROANILINE	UG/KG	850 UR		890 U			800 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	850 UR		890 U			800 U
N-NITROSODIPHENYLAMINE	UG/KG	350 UR		370 U			330 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 UR		370 U			330 U
HEXACHLOROBENZENE	UG/KG	350 UR		370 U			330 U
PENTACHLOROPHENOL	UG/KG	850 UR		890 U			800 U
PHENANTHRENE	UG/KG	350 UR		370 U			330 U
ANTHRACENE	UG/KG	350 UR		370 U			330 U
DI-N-BUTYL PHTHALATE	UG/KG	350 UR		370 U			330 U
FLUORANTHENE	UG/KG	350 UR		370 U			330 U
CARBAZOLE	UG/KG	350 UR		370 U			330 U
PYRENE	UG/KG	350 UR		370 UJ			330 U
BUTYL BENZYL PHTHALATE	UG/KG	350 UR		370 U			330 U
3,3-DICHLOROBENZIDINE	UG/KG	350 UR		370 U			330 U
BENZO(A)ANTHRACENE	UG/KG	350 UR		370 U			330 U
CHRYSENE	UG/KG	350 UR		370 U			330 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 UR		370 U			330 U
DI-N-OCTYL PHTHALATE	UG/KG	350 UR		370 U			330 U
BENZO(B)FLUORANTHENE	UG/KG	350 UR		370 U			330 U
BENZO(K)FLUORANTHENE	UG/KG	350 UR		370 U			330 U
BENZO(A)PYRENE	UG/KG	350 UR		370 U			330 U
INDENO(1,2,3-CD) PYRENE	UG/KG	350 UR		370 U			330 U
DIBENZ(A,H)ANTHRACENE	UG/KG	350 UR		370 U			330 U
BENZO(G,H,I)PERYLENE	UG/KG	350 UR		370 U			330 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB13-00	6-203PCB-SB14-00	6-203PCB-SB2-00	6-203PCB-SB3-00	6-203PCB-SB4-00	6-203PCB-SB5-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/31/92	8/31/92	9/2/92	8/31/92	9/1/92
Lab Id:	00473-09	00472-08	00472-01	00484-06	00472-03	00485-30
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 U				
BETA-BHC	UG/KG	1.8 U				
DELTA-BHC	UG/KG	1.8 U				
GAMMA-BHC(LINDANE)	UG/KG	1.8 U				
HEPTACHLOR	UG/KG	1.8 U				
ALDRIN	UG/KG	1.8 U				
HEPTACHLOR EPOXIDE	UG/KG	1.8 U				
ENDOSULFAN I	UG/KG	1.8 U				
DIELDRIN	UG/KG	3.5 U				
4,4'-DDE	UG/KG	3.5 U				
ENDRIN	UG/KG	3.5 U				
ENDOSULFAN II	UG/KG	3.5 U				
4,4'-DDD	UG/KG	3.5 U				
ENDOSULFAN SULFATE	UG/KG	3.5 U				
4,4'-DDT	UG/KG	3.5 U				
METHOXYCHLOR	UG/KG	18 U				
ENDRIN KETONE	UG/KG	3.5 U				
ENDRIN ALDEHYDE	UG/KG	3.5 U				
ALPHA CHLORDANE	UG/KG	1.8 U				
GAMMA CHLORDANE	UG/KG	1.8 U				
TOXAPHENE	UG/KG	180 U				
PCB-1016	UG/KG	34 U	35 U	35 U	36 U	37 U
PCB-1221	UG/KG	69 U	71 U	71 U	73 U	76 U
PCB-1232	UG/KG	34 U	35 U	35 U	36 U	37 U
PCB-1242	UG/KG	34 U	35 U	35 U	36 U	37 U
PCB-1248	UG/KG	34 U	35 U	35 U	36 U	37 U
PCB-1254	UG/KG	34 U	35 U	35 U	36 U	37 U
PCB-1260	UG/KG	19 J	35 U	35 U	36 U	37 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U				
BROMOMETHANE	UG/KG	11 U				
VINYL CHLORIDE	UG/KG	11 U				
CHLOROETHANE	UG/KG	11 U				
METHYLENE CHLORIDE	UG/KG	11 U				
ACETONE	UG/KG	11 U				
CARBON DISULFIDE	UG/KG	11 U				
1,1-DICHLOROETHENE	UG/KG	11 U				
1,1-DICHLOROETHANE	UG/KG	11 U				
1,2-DICHLOROETHENE	UG/KG	11 U				
CHLOROFORM	UG/KG	11 U				
1,2-DICHLOROETHANE	UG/KG	11 U				
2-BUTANONE	UG/KG	11 U				

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB13-00	6-203PCB-SB14-00	6-203PCB-SB2-00	6-203PCB-SB3-00	6-203PCB-SB4-00	6-203PCB-SB5-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/31/92	8/31/92	9/2/92	8/31/92	9/1/92
Lab Id:	00473-09	00472-08	00472-01	00484-06	00472-03	00485-30
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	15				
CARBON TETRACHLORIDE	UG/KG	11 U				
BROMODICHLOROMETHANE	UG/KG	11 U				
1,2-DICHLOROPROPANE	UG/KG	11 U				
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U				
TRICHLOROETHENE	UG/KG	11 U				
DIBROMOCHLOROMETHANE	UG/KG	11 U				
1,1,2-TRICHLOROETHANE	UG/KG	11 U				
BENZENE	UG/KG	11 U				
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U				
BROMOFORM	UG/KG	11 U				
4-METHYL-2-PENTANONE	UG/KG	11 U				
2-HEXANONE	UG/KG	11 U				
TETRACHLOROETHENE	UG/KG	11 U				
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U				
TOLUENE	UG/KG	11 U				
CHLOROBENZENE	UG/KG	11 U				
ETHYLBENZENE	UG/KG	11 U				
STYRENE	UG/KG	11 U				
TOTAL XYLENES	UG/KG	11 U				
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	350 UR				
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 UR				
2-CHLOROPHENOL	UG/KG	350 UR				
1,3-DICHLOROBENZENE	UG/KG	350 UR				
1,4-DICHLOROBENZENE	UG/KG	350 UR				
1,2-DICHLOROBENZENE	UG/KG	350 UR				
2-METHYLPHENOL	UG/KG	350 UR				
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 UR				
4-METHYLPHENOL	UG/KG	350 UR				
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 UR				
HEXACHLOROETHANE	UG/KG	350 UR				
NITROBENZENE	UG/KG	350 UR				
ISOPHORONE	UG/KG	350 UR				
2-NITROPHENOL	UG/KG	350 UR				
2,4-DIMETHYLPHENOL	UG/KG	350 UR				
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 UR				
2,4-DICHLOROPHENOL	UG/KG	350 UR				
1,2,4-TRICHLOROBENZENE	UG/KG	350 UR				
NAPHTHALENE	UG/KG	350 UR				
4-CHLORANILINE	UG/KG	350 UR				
HEXACHLOROBUTADIENE	UG/KG	350 UR				

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB13-00	6-203PCB-SB14-00	6-203PCB-SB2-00	6-203PCB-SB3-00	6-203PCB-SB4-00	6-203PCB-SB5-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	8/31/92	8/31/92	9/2/92	8/31/92	9/1/92
Lab Id:	00473-09	00472-08	00472-01	00484-06	00472-03	00485-30

Parameter	Units	
<u>SEMIVOLATILES Cont.</u>		
4-CHLORO-3-METHYLPHENOL	UG/KG	350 UR
2-METHYLNAPHTHALENE	UG/KG	350 UR
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 UR
2,4,6-TRICHLOROPHENOL	UG/KG	350 UR
2,4,5-TRICHLOROPHENOL	UG/KG	840 UR
2-CHLORONAPHTHALENE	UG/KG	350 UR
2-NITROANILINE	UG/KG	840 UR
DIMETHYL PHTHALATE	UG/KG	350 UR
ACENAPHTHYLENE	UG/KG	350 UR
2,6-DINITROTOLUENE	UG/KG	350 UR
3-NITROANILINE	UG/KG	840 UR
ACENAPHTHENE	UG/KG	350 UR
2,4-DINITROPHENOL	UG/KG	840 UR
4-NITROPHENOL	UG/KG	840 UR
DIBENZOFURAN	UG/KG	350 UR
2,4-DINITROTOLUENE	UG/KG	350 UR
DIBETHYL PHTHALATE	UG/KG	350 UR
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 UR
FLUORENE	UG/KG	350 UR
4-NITROANILINE	UG/KG	840 UR
4,6-DINITRO-2-METHYLPHENOL	UG/KG	840 UR
N-NITRISODIPHENYLAMINE	UG/KG	350 UR
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 UR
HEXACHLOROBENZENE	UG/KG	350 UR
PENTACHLOROPHENOL	UG/KG	840 UR
PHENANTHRENE	UG/KG	350 UR
ANTHRACENE	UG/KG	350 UR
DI-N-BUTYL PHTHALATE	UG/KG	350 UR
FLUORANTHENE	UG/KG	39 J
CARBAZOLE	UG/KG	350 UR
PYRENE	UG/KG	42 J
BUTYL BENZYL PHTHALATE	UG/KG	350 UR
3,3-DICHLOROBENZIDINE	UG/KG	350 UR
BENZO(A)ANTHRACENE	UG/KG	350 UR
CHRYSENE	UG/KG	350 UR
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 UR
DI-N-OCTYL PHTHALATE	UG/KG	350 UR
BENZO(B)FLUORANTHENE	UG/KG	350 UR
BENZO(K)FLUORANTHENE	UG/KG	350 UR
BENZO(A)PYRENE	UG/KG	350 UR
INDENO(1,2,3-CD) PYRENE	UG/KG	350 UR
DIBENZ(A,H)ANTHRACENE	UG/KG	350 UR
BENZO(G,H,I)PERYLENE	UG/KG	350 UR

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB6-00	6-203PCB-SB7-00	6-203PCB-SB8-00	6-203PCB-SB9-00
Depth:	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	9/2/92	9/1/92	9/01/92
Lab Id:	00473-02	00485-33	00485-36	00473-04

Parameter	Units				
<u>PESTICIDE/PCBS</u>					
ALPHA-BHC	UG/KG				
BETA-BHC	UG/KG				
DELTA-BHC	UG/KG				
GAMMA-BHC(LINDANE)	UG/KG				
HEPTACHLOR	UG/KG				
ALDRIN	UG/KG				
HEPTACHLOR EPOXIDE	UG/KG				
ENDOSULFAN I	UG/KG				
DIELDRIN	UG/KG				
4,4'-DDE	UG/KG				
ENDRIN	UG/KG				
ENDOSULFAN II	UG/KG				
4,4'-DDD	UG/KG				
ENDOSULFAN SULFATE	UG/KG				
4,4'-DDT	UG/KG				
METHOXYCHLOR	UG/KG				
ENDRIN KETONE	UG/KG				
ENDRIN ALDEHYDE	UG/KG				
ALPHA CHLORDANE	UG/KG				
GAMMA CHLORDANE	UG/KG				
TOXAPHENE	UG/KG				
PCB-1016	UG/KG	35 UJ	36 U	36 U	34 UJ
PCB-1221	UG/KG	71 UJ	74 U	73 U	70 UJ
PCB-1232	UG/KG	35 UJ	36 U	36 U	34 UJ
PCB-1242	UG/KG	35 UJ	36 U	36 U	34 UJ
PCB-1248	UG/KG	35 UJ	36 U	36 U	34 UJ
PCB-1254	UG/KG	35 UJ	36 U	36 U	34 UJ
PCB-1260	UG/KG	17 J	36 U	36 U	34 UJ

<u>VOLATILES</u>	
CHLOROMETHANE	UG/KG
BROMOMETHANE	UG/KG
VINYL CHLORIDE	UG/KG
CHLOROETHANE	UG/KG
METHYLENE CHLORIDE	UG/KG
ACETONE	UG/KG
CARBON DISULFIDE	UG/KG
1,1-DICHLOROETHENE	UG/KG
1,1-DICHLOROETHANE	UG/KG
1,2-DICHLOROETHENE	UG/KG
CHLOROFORM	UG/KG
1,2-DICHLOROETHANE	UG/KG
2-BUTANONE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB6-00	6-203PCB-SB7-00	6-203PCB-SB8-00	6-203PCB-SB9-00
Depth:	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	9/2/92	9/1/92	9/01/92
Lab Id:	00473-02	00485-33	00485-36	00473-04

Parameter	Units
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VOLATILES Cont.

1,1,1-TRICHLOROETHANE	UG/KG
CARBON TETRACHLORIDE	UG/KG
BROMODICHLOROMETHANE	UG/KG
1,2-DICHLOROPROPANE	UG/KG
CIS-1,3-DICHLOROPROPENE	UG/KG
TRICHLOROETHENE	UG/KG
DIBROMOCHLOROMETHANE	UG/KG
1,1,2-TRICHLOROETHANE	UG/KG
BENZENE	UG/KG
TRANS-1,3-DICHLOROPROPENE	UG/KG
BROMOFORM	UG/KG
4-METHYL-2-PENTANONE	UG/KG
2-HEXANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROBENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG

SEMIVOLATILES

PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
2-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB6-00	6-203PCB-SB7-00	6-203PCB-SB8-00	6-203PCB-SB9-00
Depth:	N/A	N/A	N/A	N/A
Date Sampled:	9/01/92	9/2/92	9/1/92	9/01/92
Lab Id:	00473-02	00485-33	00485-36	00473-04

Parameter	Units
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SEMIVOLATILES Cont.

4-CHLORO-3-METHYLPHENOL	UG/KG
2-METHYLNAPHTHALENE	UG/KG
HEXACHLOROCYCLOPENTADIENE	UG/KG
2,4,6-TRICHLOROPHENOL	UG/KG
2,4,5-TRICHLOROPHENOL	UG/KG
2-CHLORONAPHTHALENE	UG/KG
2-NITROANILINE	UG/KG
DIMETHYL PHTHALATE	UG/KG
ACENAPHTHYLENE	UG/KG
2,6-DINITROTOLUENE	UG/KG
3-NITROANILINE	UG/KG
ACENAPHTHENE	UG/KG
2,4-DINITROPHENOL	UG/KG
4-NITROPHENOL	UG/KG
DIBENZOFURAN	UG/KG
2,4-DINITROTOLUENE	UG/KG
DIETHYL PHTHALATE	UG/KG
4-CHLOROPHENYL PHENYL ETHER	UG/KG
FLUORENE	UG/KG
4-NITROANILINE	UG/KG
4,6-DINITRO-2-METHYLPHENOL	UG/KG
N-NITRISODIPHENYLAMINE	UG/KG
4-BROMOPHENYL PHENYL ETHER	UG/KG
HEXACHLOROBENZENE	UG/KG
PENTACHLOROPHENOL	UG/KG
PHENANTHRENE	UG/KG
ANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(A,H)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEBJUNE, NORTH CAROLINA
 ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.7 UJ	20 U	ND	ND		0/58
BETA-BHC	UG/KG	1.7 UJ	20 U	ND	ND		0/58
DELTA-BHC	UG/KG	1.7 UJ	20 U	ND	ND		0/58
GAMMA-BHC(LINDANE)	UG/KG	1.7 UJ	20 U	ND	ND		0/58
HEPTACHLOR	UG/KG	1.7 UJ	20 U	ND	ND		0/58
ALDRIN	UG/KG	1.7 UJ	20 U	ND	ND		0/58
HEPTACHLOR EPOXIDE	UG/KG	1.7 UJ	20 U	ND	ND		0/58
ENDOSULFAN I	UG/KG	1.7 UJ	20 U	ND	ND		0/58
DIELDRIN	UG/KG	3.3 UJ	38 U	3.6 J	270 J	6-203OSA-SB24-00	4/58
4,4'-DDE	UG/KG	3.3 UJ	35 UJ	3.8 J	2100	6-203OSA-SB30-00	27/58
ENDRIN	UG/KG	3.3 UJ	38 U	21	130 J	6-203OSA-SB38-00	3/58
ENDOSULFAN II	UG/KG	3.3 UJ	38 U	4.4 J	4.4 J	6-203DDT-SB10-00	1/58
4,4'-DDD	UG/KG	3.3 UJ	38 U	4.5 J	180 J	6-203DDT-SB18-00	8/58
ENDOSULFAN SULFATE	UG/KG	3.3 UJ	38 U	ND	ND		0/58
4,4'-DDT	UG/KG	3.3 UJ	33 U	3.4 J	1500 J	6-203OSA-SB30-00	29/58
METHOXYCHLOR	UG/KG	17 UJ	200 U	ND	ND		0/58
ENDRIN KETONE	UG/KG	3.3 UJ	38 U	ND	ND		0/58
ENDRIN ALDEHYDE	UG/KG	3.3 UJ	38 U	ND	ND		0/58
ALPHA CHLORDANE	UG/KG	1.7 UJ	20 U	2.3 J	72 J	6-203OSA-SB38-00	3/58
GAMMA CHLORDANE	UG/KG	1.7 UJ	20 U	160 J	160 J	6-203OSA-SB24-00	1/58
TOXAPHENE	UG/KG	170 UJ	2000 U	ND	ND		0/58
PCB-1016	UG/KG	33 U	380 U	ND	ND		0/40
PCB-1221	UG/KG	67 U	770 U	ND	ND		0/40
PCB-1232	UG/KG	33 U	380 U	ND	ND		0/40
PCB-1242	UG/KG	33 U	380 U	ND	ND		0/40
PCB-1248	UG/KG	33 U	380 U	580 J	580 J	6-203OSA-SB38-00	1/40
PCB-1254	UG/KG	33 U	380 U	170 J	2100 J	6-203OSA-SB38-00	2/40
PCB-1260	UG/KG	33 U	380 U	17 J	42000 J	6-203OSA-SB24-00	12/40
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	10 U	12 U	ND	ND		0/28
BROMOMETHANE	UG/KG	10 U	12 U	ND	ND		0/28
VINYL CHLORIDE	UG/KG	10 U	12 U	ND	ND		0/28
CHLOROETHANE	UG/KG	10 U	12 U	ND	ND		0/28
METHYLENE CHLORIDE	UG/KG	10 U	12 U	ND	ND		0/28
ACETONE	UG/KG	10 UJ	46 UJ	4 J	15	6-203OSA-SB41-00	2/28
CARBON DISULFIDE	UG/KG	10 U	12 U	ND	ND		0/28
1,1-DICHLOROETHENE	UG/KG	10 U	12 U	ND	ND		0/28
1,1-DICHLOROETHANE	UG/KG	10 U	12 U	ND	ND		0/28
1,2-DICHLOROETHENE	UG/KG	10 U	12 U	ND	ND		0/28
CHLOROFORM	UG/KG	10 U	12 U	ND	ND		0/28
1,2-DICHLOROETHANE	UG/KG	10 UJ	12 U	ND	ND		0/28
2-BUTANONE	UG/KG	10 U	12 U	ND	ND		0/28

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	10 U	12 U	2 J	15	6-203PCB-SB14-00	2/28
CARBON TETRACHLORIDE	UG/KG	10 U	12 UJ	ND	ND		0/28
BROMODICHLOROMETHANE	UG/KG	10 U	12 U	ND	ND		0/28
1,2-DICHLOROPROPANE	UG/KG	10 U	12 U	ND	ND		0/28
CIS-1,3-DICHLOROPROPENE	UG/KG	10 U	12 U	ND	ND		0/28
TRICHLOROETHENE	UG/KG	10 U	12 U	ND	ND		0/28
DIBROMOCHLOROMETHANE	UG/KG	10 U	12 U	ND	ND		0/28
1,1,2-TRICHLOROETHANE	UG/KG	10 U	12 U	ND	ND		0/28
BENZENE	UG/KG	10 U	12 U	ND	ND		0/28
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U	12 U	ND	ND		0/28
BROMOFORM	UG/KG	10 U	12 U	ND	ND		0/28
4-METHYL-2-PENTANONE	UG/KG	10 U	12 U	ND	ND		0/28
2-HEXANONE	UG/KG	10 U	12 U	ND	ND		0/28
TETRACHLOROETHENE	UG/KG	10 U	12 U	ND	ND		0/28
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	12 U	ND	ND		0/28
TOLUENE	UG/KG	10 U	12 U	7 J	7 J	6-203OSA-SB23-00	1/28
CHLOROBENZENE	UG/KG	10 U	12 U	ND	ND		0/28
ETHYLBENZENE	UG/KG	10 U	12 U	ND	ND		0/28
STYRENE	UG/KG	10 U	12 U	ND	ND		0/28
TOTAL XYLENES	UG/KG	10 U	12 U	ND	ND		0/28
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
BIS(2-CHLOROETHYL) ETHER	UG/KG	330 U	1300 UJ	ND	ND		0/28
2-CHLOROPHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
1,3-DICHLOROBENZENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
1,4-DICHLOROBENZENE	UG/KG	330 U	700 U	34 J	160 J	6-203OSA-SB39-00	3/28
1,2-DICHLOROBENZENE	UG/KG	330 U	700 U	160 J	160 J	6-203OSA-SB39-00	1/28
2-METHYLPHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 U	1300 UJ	ND	ND		0/28
4-METHYLPHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 U	1300 UJ	ND	ND		0/28
HEXACHLOROETHANE	UG/KG	330 U	1300 UJ	ND	ND		0/28
NITROBENZENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
ISOPHORONE	UG/KG	330 U	1300 UJ	ND	ND		0/28
2-NITROPHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
2,4-DIMETHYLPHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 U	1300 UJ	ND	ND		0/28
2,4-DICHLOROPHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
1,2,4-TRICHLOROBENZENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
NAPHTHALENE	UG/KG	330 U	700 U	1400 J	1400 J	6-203OSA-SB39-00	1/28
4-CHLORANILINE	UG/KG	330 U	1300 UJ	ND	ND		0/28
HEXACHLOROBUTADIENE	UG/KG	330 U	1300 UJ	ND	ND		0/28

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO--0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
2-METHYLNAPHTHALENE	UG/KG	330 U	700 U	3100 J	3100 J	6-203OSA-SB39-00	1/28
HEXACHLOROCYCLOPENTADIENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
2,4,6-TRICHLOROPHENOL	UG/KG	330 U	1300 UJ	ND	ND		0/28
2,4,5-TRICHLOROPHENOL	UG/KG	790 U	3300 UJ	ND	ND		0/28
2-CHLORONAPHTHALENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
2-NITROANILINE	UG/KG	790 U	3300 UJ	ND	ND		0/28
DIMETHYL PHTHALATE	UG/KG	330 U	1300 UJ	ND	ND		0/28
ACENAPHTHYLENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
2,6-DINITROTOLUENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
3-NITROANILINE	UG/KG	790 U	3300 UJ	ND	ND		0/28
ACENAPHTHENE	UG/KG	330 U	380 U	250 J	9500 J	6-203OSA-SB39-00	2/28
2,4-DINITROPHENOL	UG/KG	790 U	3300 UJ	ND	ND		0/28
4-NITROPHENOL	UG/KG	790 U	3300 UJ	ND	ND		0/28
DIBENZOFURAN	UG/KG	330 U	380 U	140 J	890 J	6-203OSA-SB39-00	2/28
2,4-DINITROTOLUENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
DIETHYL PHTHALATE	UG/KG	330 U	1300 UJ	ND	ND		0/28
4-CHLOROPHENYL PHENYL ETHER	UG/KG	330 U	1300 UJ	ND	ND		0/28
FLUORENE	UG/KG	330 U	380 U	220 J	940 J	6-203OSA-SB39-00	2/28
4-NITROANILINE	UG/KG	790 U	3300 UJ	ND	ND		0/28
4,6-DINITRO-2-METHYLPHENOL	UG/KG	790 U	3300 UJ	ND	ND		0/28
N-NITROSODIPHENYLAMINE	UG/KG	330 U	1300 UJ	ND	ND		0/28
4-BROMOPHENYL PHENYL ETHER	UG/KG	330 U	1300 UJ	ND	ND		0/28
HEXACHLOROBENZENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
PENTACHLOROPHENOL	UG/KG	790 U	3300 UJ	520	520	6-203OSA-SB32-00	1/28
PHENANTHRENE	UG/KG	330 U	1300 UJ	60 J	2000	6-203OSA-SB38-00	6/28
ANTHRACENE	UG/KG	330 U	1300 UJ	55 J	440 J	6-203OSA-SB38-00	2/28
DI-N-BUTYL PHTHALATE	UG/KG	330 U	1300 UJ	160 J	160 J	6-203OSA-SB38-00	1/28
FLUORANTHENE	UG/KG	330 U	1300 UJ	39 J	2300	6-203OSA-SB38-00	11/28
CARBAZOLE	UG/KG	330 U	380 U	390 J	910 J	6-203OSA-SB39-00	2/28
PYRENE	UG/KG	330 UJ	1300 UJ	42 J	2800	6-203OSA-SB38-00	11/28
BUTYL BENZYL PHTHALATE	UG/KG	330 U	1300 UJ	83 J	83 J	6-203OSA-SB38-00	1/28
3,3-DICHLOROBENZIDINE	UG/KG	330 U	1300 UJ	540	540	6-203OSA-SB24-00	1/28
BENZO(A)ANTHRACENE	UG/KG	330 U	1300 UJ	47 J	1600	6-203OSA-SB38-00	8/28
CHRYSENE	UG/KG	330 U	1300 UJ	30 J	1300	6-203OSA-SB39-00	8/28
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	330 UJ	1300 UJ	52 J	1300	6-203OSA-SB39-00	11/28
DI-N-OCTYL PHTHALATE	UG/KG	330 UJ	1300 UJ	ND	ND		0/28
BENZO(B)FLUORANTHENE	UG/KG	330 U	1300 UJ	88 J	2700	6-203OSA-SB38-00	7/28
BENZO(K)FLUORANTHENE	UG/KG	330 U	1300 UJ	30 J	1100	6-203OSA-SB38-00	5/28
BENZO(A)PYRENE	UG/KG	330 U	1300 UJ	49 J	1800	6-203OSA-SB38-00	6/28
INDENO(1,2,3-CD) PYRENE	UG/KG	330 U	1300 UJ	42 J	1000	6-203OSA-SB38-00	5/28
DIBENZ(A,H)ANTHRACENE	UG/KG	330 U	1300 UJ	ND	ND		0/28
BENZO(G,H,I)PERYLENE	UG/KG	330 U	1300 UJ	41 J	1000	6-203OSA-SB38-00	3/28

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203DDT-SB10-00	6-203DDT-SB24-00	6-203DDT-SB26-00	6-203DDT-SB8-00	6-203OSA-SB21-00	6-203OSA-SB22-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/9/92	9/10/92	9/10/92	9/9/92	8/30/92	8/31/92
	Lab Id:	00496-14	00502-20	00502-23	00496-03	00467-01	00467-03
Parameter	Units						
ALUMINUM	MG/KG	2140	1470	1560	1700	2010	1030
ANTIMONY	MG/KG	2.9 U	2.7 UJ	2.4 UJ	2.2 U	10.1 UJ	9.4 UJ
ARSENIC	MG/KG	0.86 JB	0.63 UJ	0.62 UJ	0.58 UJ	1.1 B	0.39 B
BARIUM	MG/KG	6.8 B	4.1 U	2.7 JB	7.7 B	8.6 B	4.7 B
BERYLLIUM	MG/KG	0.06 U	0.06 UJ	0.05 UJ	0.05 U	0.21 U	0.19 U
CADMIUM	MG/KG	0.48 JB	0.58 U	0.32 U	0.55 JB	0.62 U	0.57 U
CALCIUM	MG/KG	728 B	560 JB	204 JB	539 B	6430	207 B
CHROMIUM	MG/KG	2.4	1.1 B	2.1	3.6	3.6 J	1.5 JB
COBALT	MG/KG	0.42 U	1.2 U	0.34 U	0.39 JB	1.2 U	1.1 U
COPPER	MG/KG	4 JB	3.9 UJ	1.2 UJ	3.1 JB	3.4 B	0.76 U
IRON	MG/KG	1510	740	793	2490	1070	844
LEAD	MG/KG	37.1	4.7	4.1	16.4	19.4	11.2
MAGNESIUM	MG/KG	50 B	68.9 B	27 B	73.9 B	129 B	35.2 B
MANGANESE	MG/KG	11.2	5.4	3.1 J	9.7	12	2.6 B
MERCURY	MG/KG	0.1 U	0.03 U	0.03 U	0.14 U	0.09 U	0.1 U
NICKEL	MG/KG	1.6 U	3.3 U	1.3 U	1.8 JB	3.5 U	3.2 U
POTASSIUM	MG/KG	39.9 B	74.4 U	27.7 JB	68.4 B	78.9 U	73.1 U
SELENIUM	MG/KG	0.84 U	1 U	1 UJ	0.96 U	1 UJ	0.95 UJ
SILVER	MG/KG	0.42 UJ	1.9 UJ	0.34 UJ	0.32 UJ	2.1 U	1.9 U
SODIUM	MG/KG	46 UJ	26.2 JB	19.4 UJ	30.2 UJ	30.6 B	9.5 U
THALLIUM	MG/KG	0.34 UJ	0.42 U	0.41 U	0.38 UJ	0.42 UJ	0.38 UJ
VANADIUM	MG/KG	4.1 JB	3.1 JB	2 JB	3.8 JB	3.6 B	2.9 B
ZINC	MG/KG	25.6	9.1	4.7 U	12 U	22.1	1.1 B

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB23-00	6-203OSA-SB24-00	6-203OSA-SB25-00	6-203OSA-SB26-00	6-203OSA-SB27-00	6-203OSA-SB28-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	8/30/92
	Lab Id:	00467-05	00467-07	00467-09	00467-11	00467-13	00467-15
Parameter	Units						
ALUMINUM	MG/KG	3540	3800	1410	2260	1350	1850
ANTIMONY	MG/KG	20.7 J	9.4 UJ	9.2 UJ	7.8 UJ	9.5 UJ	10.6 UJ
ARSENIC	MG/KG	1.4 B	4.9	0.52 UJ	0.79 JB	0.79 JB	1.6 B
BARIUM	MG/KG	12.3 B	11.5 B	5.4 B	6.6 B	4.6 B	5.3 B
BERYLLIUM	MG/KG	0.2 U	0.19 U	0.19 U	0.16 U	0.19 U	0.22 U
CADMIUM	MG/KG	2.8	1.3	0.77 B	0.51 B	0.58 U	0.69 B
CALCIUM	MG/KG	36900	28600	2240	487 B	1750	2420
CHROMIUM	MG/KG	10 J	8.1 J	3.4 J	3.7 J	1.7 JB	3.7 J
COBALT	MG/KG	2.2 B	1.2 U	1.1 U	0.95 U	1.2 U	1.3 U
COPPER	MG/KG	25.3	17.5	4.4 B	6.9	0.77 U	14
IRON	MG/KG	11300	2760	1700	764	696	1070
LEAD	MG/KG	1310	61.2	17.6	19.8	6.2	20.8
MAGNESIUM	MG/KG	584 B	550 B	191 B	66.9 B	49.2 B	80.1 B
MANGANESE	MG/KG	37.8	62.8	32.5	8	6	105
MERCURY	MG/KG	0.1 U	0.1 U	0.1 U	0.09 U	0.1 U	0.09 U
NICKEL	MG/KG	13.2	3.3 U	3.2 U	2.7 U	3.3 U	3.7 U
POTASSIUM	MG/KG	114 B	157 B	71.6 U	73.7 B	74.1 U	100 B
SELENIUM	MG/KG	0.9 UJ	0.97 UJ	0.87 U	0.89 UJ	0.99 U	1.1 U
SILVER	MG/KG	2 U	1.9 U	1.9 U	1.6 U	1.9 U	2.2 U
SODIUM	MG/KG	68.9 B	55.3 B	19.7 B	13.7 B	9.7 U	16.6 B
THALLIUM	MG/KG	0.36 UJ	0.39 UJ	0.35 UJ	0.36 UJ	0.39 UJ	0.42 UJ
VANADIUM	MG/KG	7.3 B	6.7 B	2.3 B	3.2 B	2.4 B	3.2 B
ZINC	MG/KG	92.7	116	35.5	12.3	2.2 B	69.8

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB29-00	6-203OSA-SB30-00	6-203OSA-SB31-00	6-203OSA-SB32-00	6-203OSA-SB33-00	6-203OSA-SB34-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/30/92	8/30/92	8/31/92	8/30/92	8/30/92
	Lab Id:	00467-17	00467-20	00467-22	00467-24	00467-27	00467-29
Parameter	Units						
ALUMINUM	MG/KG	898	3140	1740	4170	4170	1210
ANTIMONY	MG/KG	8.8 UJ	8.7 UJ	13.5 J	9 UJ	17.9 J	8.8 UJ
ARSENIC	MG/KG	0.48 UJ	1.8 B	0.61 U	0.6 B	0.77 JB	0.83 B
BARIUM	MG/KG	3.8 U	41.2	15.2 B	7.4 B	8.1 B	5.1 B
BERYLLIUM	MG/KG	0.18 U	0.21 B	0.18 U	0.18 U	0.2 U	0.18 U
CADMIUM	MG/KG	0.54 U	2.1 UJ	3.4 UJ	1.6 UJ	0.59 U	0.6 B
CALCIUM	MG/KG	11700	1190	341 B	250 B	11000	4220
CHROMIUM	MG/KG	1.8 JB	6.5 J	9.7 J	10.3 J	6.4 J	2.9 J
COBALT	MG/KG	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.1 U
COPPER	MG/KG	1.1 B	38.6	44.2	44.2	3.2 B	4.4 B
IRON	MG/KG	1730	2990	2920	2750	2030	1470
LEAD	MG/KG	5.6	60.7	75.9	64.3	11.7	20.2
MAGNESIUM	MG/KG	251 B	153 B	91.7 B	131 B	275 B	96.8 B
MANGANESE	MG/KG	12	182	94.1	16.2 J	10.1	13.7
MERCURY	MG/KG	0.09 U	0.3	0.09 U	0.1 U	0.09 U	0.11 U
NICKEL	MG/KG	3 U	3 U	6.1 JB	5.7 JB	3.4 U	3 U
POTASSIUM	MG/KG	68.4 U	176 B	69.7 U	133 B	195 B	79 B
SELENIUM	MG/KG	0.8 U	0.99 U	1 UJ	0.9 UJ	0.82 UJ	0.89 U
SILVER	MG/KG	1.8 U	1.8 U	1.8 U	1.8 U	2 U	1.8 U
SODIUM	MG/KG	25.2 B	23 UJ	20.8 UJ	23.9 UJ	35.9 B	18.3 B
THALLIUM	MG/KG	0.32 UJ	0.4 U	0.41 U	0.36 U	0.33 UJ	0.36 UJ
VANADIUM	MG/KG	2.1 B	6.5 B	2.8 JB	4.7 B	6.8 B	2.7 B
ZINC	MG/KG	5.9	271	203	38	16.2	13.7

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB35-00	6-203OSA-SB36-00	6-203OSA-SB37-00	6-203OSA-SB38-00	6-203OSA-SB39-00	6-203OSA-SB41-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/30/92	8/31/92	10/12/92	10/12/92	10/12/92
	Lab Id:	00467-31	00467-33	00467-36	00573-01	00573-03	00573-06
Parameter	Units						
ALUMINUM	MG/KG	511	495	2360	2210	1880	2220
ANTIMONY	MG/KG	8.6 UJ	9.6 UJ	8.8 UJ	8.9 U	51.2	9.9 U
ARSENIC	MG/KG	0.49 JB	0.74 JB	0.5 UJ	1.9	2.7	0.66 B
BARIUM	MG/KG	3.7 U	4.1 U	6.2 B	47.8	17.1 B	6.7 B
BERYLLIUM	MG/KG	0.17 U	0.2 U	0.18 U	0.91 UJ	0.37 UJ	0.2 UJ
CADMIUM	MG/KG	0.59 B	0.59 U	0.62 UJ	9.3	1.7 U	0.81 U
CALCIUM	MG/KG	3150	44.4 B	352 B	18800	92100	11400
CHROMIUM	MG/KG	2.3 J	0.98 UJ	4.1 J	25.2	11.2	4.8 U
COBALT	MG/KG	1 U	1.2 U	1.1 U	3.1 UJ	2.2 UJ	1.8 UJ
COPPER	MG/KG	12.9	1.6 B	10.5	75	37	6.5
IRON	MG/KG	458	241	1400	12900	3920	2010
LEAD	MG/KG	22.7	7.4	10.3	630	4010 J	17.1
MAGNESIUM	MG/KG	71.8 B	12 B	67.3 B	698 B	1680	227 B
MANGANESE	MG/KG	15.3	3.7	14.8 J	154	43.9	34.7
MERCURY	MG/KG	0.1 U	0.1 U	0.1 U	1.1	0.03 B	0.02 U
NICKEL	MG/KG	3 U	3.3 U	3 U	8.6 U	5.8 U	3.4 U
POTASSIUM	MG/KG	67 U	75.2 U	68.6 U	183 UJ	263 UJ	87.7 UJ
SELENIUM	MG/KG	0.81 U	0.88 UJ	0.84 UJ	0.91 U	1 U	0.94 U
SILVER	MG/KG	1.7 U	2 U	1.8 U	1.8 U	1.9 UJ	2 U
SODIUM	MG/KG	9.2 B	9.8 U	22.7 UJ	460 JB	284 JB	90.7 JB
THALLIUM	MG/KG	0.32 UJ	0.35 UJ	0.34 U	0.36 UJ	0.4 UJ	0.37 UJ
VANADIUM	MG/KG	1.1 B	0.98 U	3.7 B	5.5 UJ	8.2 JB	5 UJ
ZINC	MG/KG	39.9	6.4	26	604	124	47

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-203OSA-SB42-00	6-203PCB-SB12-00	6-203PCB-SB14-00
Depth:	N/A	N/A	N/A
Date Sampled:	10/12/92	9/01/92	8/31/92
Lab Id:	00573-09	00472-05	00472-08

Parameter	Units			
ALUMINUM	MG/KG	2760	2660 J	1520 J
ANTIMONY	MG/KG	9.3 U	9 U	8.8 U
ARSENIC	MG/KG	0.57 U	1 UJ	0.61 UJ
BARIUM	MG/KG	7.4 B	5 B	7.9 B
BERYLLIUM	MG/KG	0.19 UJ	0.18 U	0.18 U
CADMIUM	MG/KG	0.57 U	0.55 U	0.54 U
CALCIUM	MG/KG	3520	113 U	1260
CHROMIUM	MG/KG	3.2 U	3.5	1.7 B
COBALT	MG/KG	1.7 UJ	1.1 U	1.1 U
COPPER	MG/KG	4 UJ	1 JB	1.4 JB
IRON	MG/KG	1270	1040 J	756 J
LEAD	MG/KG	7.2	5.1	18.9 J
MAGNESIUM	MG/KG	105 B	56.1 B	60.1 B
MANGANESE	MG/KG	5.5	1.9 JB	9.3 J
MERCURY	MG/KG	0.02 U	0.04 UJ	0.05 UJ
NICKEL	MG/KG	3.2 U	3.1 U	3.1 U
POTASSIUM	MG/KG	135 UJ	70.2 U	68.9 U
SELENIUM	MG/KG	0.94 U	0.92 UJ	0.82 UJ
SILVER	MG/KG	1.9 U	1.8 U	1.8 U
SODIUM	MG/KG	60.6 UJ	21.1 UJ	45.8 UJ
THALLIUM	MG/KG	0.38 UJ	0.37 U	0.33 U
VANADIUM	MG/KG	3.6 UJ	3.7 B	2.6 JB
ZINC	MG/KG	14.4	2 U	10.8

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SURFACE SOIL,
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	MG/KG	NA	NA	495	4170	6-203OSA-SB33-00	27/27
ANTIMONY	MG/KG	2.2 U	10.6 UJ	13.5 J	51.2	6-203OSA-SB39-00	4/27
ARSENIC	MG/KG	0.48 UJ	1 UJ	0.39 B	4.9	6-203OSA-SB24-00	17/27
BARIUM	MG/KG	3.7 U	4.1 U	2.7 JB	47.8	6-203OSA-SB38-00	23/27
BERYLLIUM	MG/KG	0.05 UJ	0.91 UJ	0.21 B	0.21 B	6-203OSA-SB30-00	1/27
CADMIUM	MG/KG	0.32 U	3.4 UJ	0.48 JB	9.3	6-203OSA-SB38-00	10/27
CALCIUM	MG/KG	113 U	113 U	44.4 B	92100	6-203OSA-SB39-00	26/27
CHROMIUM	MG/KG	0.98 UJ	4.8 U	1.1 B	25.2	6-203OSA-SB38-00	24/27
COBALT	MG/KG	0.34 U	3.1 UJ	0.39 JB	2.2 B	6-203OSA-SB39-00	2/27
COPPER	MG/KG	0.76 U	4 UJ	1 JB	75	6-203OSA-SB38-00	22/27
IRON	MG/KG	NA	NA	241	12900	6-203OSA-SB38-00	27/27
LEAD	MG/KG	NA	NA	4.1	4010 J	6-203OSA-SB39-00	27/27
MAGNESIUM	MG/KG	NA	NA	12 B	1680	6-203OSA-SB39-00	27/27
MANGANESE	MG/KG	NA	NA	1.9 JB	182	6-203OSA-SB30-00	27/27
MERCURY	MG/KG	0.02 U	0.14 U	0.03 B	1.1	6-203OSA-SB38-00	3/27
NICKEL	MG/KG	1.3 U	8.6 U	1.8 JB	13.2	6-203OSA-SB23-00	4/27
POTASSIUM	MG/KG	67 U	263 UJ	27.7 JB	195 B	6-203OSA-SB33-00	11/27
SELENIUM	MG/KG	0.8 U	1.1 U	ND	ND		0/27
SILVER	MG/KG	0.32 UJ	2.2 U	ND	ND		0/27
SODIUM	MG/KG	9.5 U	60.6 UJ	9.2 B	460 JB	6-203OSA-SB38-00	14/27
THALLIUM	MG/KG	0.32 UJ	0.42 U	ND	ND		0/27
VANADIUM	MG/KG	0.98 U	5.5 UJ	1.1 B	8.2 JB	6-203OSA-SB39-00	23/27
ZINC	MG/KG	2 U	12 U	1.1 B	604	6-203OSA-SB38-00	24/27

CLEJ-01272-3.13-08/20/93

L.4
Site 6, Lot 203 - Subsurface Soil,
Organic and Inorganic

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB04-02	6-203DDT-SB1-01	6-203DDT-SB10-01	6-203DDT-SB11-01	6-203DDT-SB12-01	6-203DDT-SB13-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/2/92	9/9/92	9/9/92	9/9/92	9/9/92	9/9/92	
Lab Id:	00484-03	00496-02	00496-15	00497-12	00497-14	00497-16	
meter	Units						
<u>PESTICIDE/PCBS</u>							
HA-BHC	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
A-BHC	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
TA-BHC	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
MA-BHC(LINDANE)	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
TACHLOR	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
DRIN	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
TACHLOR EPOXIDE	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
OSULFAN I	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
LDRIN	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
DDE	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
DRIN	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
OSULFAN II	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
DDD	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
4,4'-DDT	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
METHOXYCHLOR	UG/KG	18 U	17 U	18 UJ	20 U	19 U	20 UJ
ENDRIN KETONE	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.2 U	3.6 UJ	3.8 U	3.8 U	3.9 UJ
ALPHA CHLORDANE	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
GAMMA CHLORDANE	UG/KG	1.8 U	1.7 U	1.8 UJ	2 U	1.9 U	2 UJ
TOXAPHENE	UG/KG	180 U	170 U	180 UJ	200 U	190 U	200 UJ
PCB-1016	UG/KG			36 UJ			
PCB-1221	UG/KG			72 UJ			
PCB-1232	UG/KG			36 UJ			
PCB-1242	UG/KG			36 UJ			
PCB-1248	UG/KG			36 UJ			
PCB-1254	UG/KG			36 UJ			
PCB-1260	UG/KG			36 UJ			
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG			11 U			
BROMOMETHANE	UG/KG			11 U			
VINYL CHLORIDE	UG/KG			11 U			
CHLOROETHANE	UG/KG			11 U			
METHYLENE CHLORIDE	UG/KG			11 U			
ACETONE	UG/KG			13 UJ			
CARBON DISULFIDE	UG/KG			11 U			
1,1-DICHLOROETHENE	UG/KG			11 U			
1,1-DICHLOROETHANE	UG/KG			11 U			
1,2-DICHLOROETHENE	UG/KG			11 U			
CHLOROFORM	UG/KG			11 U			
1,2-DICHLOROETHANE	UG/KG			11 UJ			
2-BUTANONE	UG/KG			11 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB04-02	6-203DDT-SB1-01	6-203DDT-SB10-01	6-203DDT-SB11-01	6-203DDT-SB12-01	6-203DDT-SB13-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/9/92	9/9/92	9/9/92	9/9/92	9/9/92
Lab id:	00484-03	00496-02	00496-15	00497-12	00497-14	00497-16
meter	Units					
<u>VOLATILES Cont.</u>						
- TRICHLOROETHANE	UG/KG		11 U			
BON TETRACHLORIDE	UG/KG		11 U			
MODICHLOROMETHANE	UG/KG		11 U			
DICHLOROPROPANE	UG/KG		11 U			
-1,3-DICHLOROPROPENE	UG/KG		11 U			
CHLOROETHENE	UG/KG		11 U			
ROMOCHLOROMETHANE	UG/KG		11 U			
-TRICHLOROETHANE	UG/KG		11 U			
IZENE	UG/KG		11 U			
NS-1,3-DICHLOROPROPENE	UG/KG		11 U			
MOFORM	UG/KG		11 U			
IETHYL-2-PENTANONE	UG/KG		11 U			
HEXANONE	UG/KG		11 U			
1,1,1-TRICHLOROETHENE	UG/KG		11 U			
1,1,2,2-TETRACHLOROETHANE	UG/KG		11 U			
TOLUENE	UG/KG		11 U			
CHLOROBENZENE	UG/KG		11 U			
ETHYLBENZENE	UG/KG		11 U			
STYRENE	UG/KG		11 U			
TOTAL XYLENES	UG/KG		11 U			
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG		360 U			
BIS(2-CHLOROETHYL) ETHER	UG/KG		360 U			
2-CHLOROPHENOL	UG/KG		360 U			
1,3-DICHLOROBENZENE	UG/KG		360 U			
1,4-DICHLOROBENZENE	UG/KG		360 U			
1,2-DICHLOROBENZENE	UG/KG		360 U			
2-METHYLPHENOL	UG/KG		360 U			
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG		360 U			
4-METHYLPHENOL	UG/KG		360 U			
N-NITROSODI-N-PROPYLAMINE	UG/KG		360 U			
HEXACHLOROETHANE	UG/KG		360 U			
NITROBENZENE	UG/KG		360 U			
ISOPHORONE	UG/KG		360 U			
2-NITROPHENOL	UG/KG		360 U			
2,4-DIMETHYLPHENOL	UG/KG		360 U			
BIS(2-CHLOROETHOXY) METHANE	UG/KG		360 U			
2,4-DICHLOROPHENOL	UG/KG		360 U			
1,2,4-TRICHLOROBENZENE	UG/KG		360 U			
NAPHTHALENE	UG/KG		360 U			
4-CHLORANILINE	UG/KG		360 U			
HEXACHLOROBUTADIENE	UG/KG		360 U			

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB04-02	6-203DDT-SB1-01	6-203DDT-SB10-01	6-203DDT-SB11-01	6-203DDT-SB12-01	6-203DDT-SB13-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/9/92	9/9/92	9/9/92	9/9/92	9/9/92
Lab Id:	00484-03	00496-02	00496-15	00497-12	00497-14	00497-16

meter

Units

SEMIVOLATILES Cont.		
CHLORO-3-METHYLPHENOL	UG/KG	360 U
ETHYLNAPHTHALENE	UG/KG	360 U
ACHLOROCYCLOPENTADIENE	UG/KG	360 U
-TRICHLOROPHENOL	UG/KG	360 U
-TRICHLOROPHENOL	UG/KG	860 U
HLORONAPHTHALENE	UG/KG	360 U
ITROANILINE	UG/KG	860 U
ETHYL PHTHALATE	UG/KG	360 U
NAPHTHYLENE	UG/KG	360 U
DINITROTOLUENE	UG/KG	360 U
ITROANILINE	UG/KG	860 U
NAPHTHENE	UG/KG	360 U
DINITROPHENOL	UG/KG	860 U
4-NITROPHENOL	UG/KG	860 U
DIBENZOFURAN	UG/KG	360 U
2,4-DINITROTOLUENE	UG/KG	360 U
DIETHYL PHTHALATE	UG/KG	360 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 UJ
FLUORENE	UG/KG	360 U
4-NITROANILINE	UG/KG	860 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	860 U
N-NITRISODIPHENYLAMINE	UG/KG	360 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U
HEXACHLOROBENZENE	UG/KG	360 U
PENTACHLOROPHENOL	UG/KG	860 U
PHENANTHRENE	UG/KG	360 U
ANTHRACENE	UG/KG	360 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U
FLUORANTHENE	UG/KG	360 U
CARBAZOLE	UG/KG	360 U
PYRENE	UG/KG	360 U
BUTYL BENZYL PHTHALATE	UG/KG	360 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U
BENZO(A)ANTHRACENE	UG/KG	360 U
CHRYSENE	UG/KG	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	240 J
DI-N-OCTYL PHTHALATE	UG/KG	360 U
BENZO(B)FLUORANTHENE	UG/KG	360 U
BENZO(K)FLUORANTHENE	UG/KG	360 U
BENZO(A)PYRENE	UG/KG	360 U
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U
DIBENZ(A,H)ANTHRACENE	UG/KG	360 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB14-01	6-203DDT-SB15-02	6-203DDT-SB16-01	6-203DDT-SB17-01	6-203DDT-SB17-02	6-203DDT-SB18-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/1/92	9/9/92	9/10/92	9/10/92	9/2/92
Lab Id:	00497-18	00485-05	00497-20	00503-02	00503-03	00485-08
meter	Units					
PESTICIDE/PCBS						
HA-BHC	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
TA-BHC	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
TA-BHC	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
MMA-BHC(LINDANE)	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
PACHLOR	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
DRIN	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
PACHLOR EPOXIDE	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
DOSULFAN I	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
ILDRIN	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
-DDE	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
DRIN	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
DOSULFAN II	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
-DDD	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
ENDOSULFAN SULFATE	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
4,4'-DDT	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
METHOXYCHLOR	UG/KG	19 UJ	20 U	20 U	18 U	18 U
ENDRIN KETONE	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
ENDRIN ALDEHYDE	UG/KG	3.6 UJ	4 U	3.8 U	3.6 U	3.6 U
ALPHA CHLORDANE	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.9 UJ	2 U	2 U	1.8 U	1.8 U
TOXAPHENE	UG/KG	190 UJ	200 U	200 U	180 U	180 U
PCB-1016	UG/KG					
PCB-1221	UG/KG					
PCB-1232	UG/KG					
PCB-1242	UG/KG					
PCB-1248	UG/KG					
PCB-1254	UG/KG					
PCB-1260	UG/KG					
VOLATILES						
CHLOROMETHANE	UG/KG					
BROMOMETHANE	UG/KG					
VINYL CHLORIDE	UG/KG					
CHLOROETHANE	UG/KG					
METHYLENE CHLORIDE	UG/KG					
ACETONE	UG/KG					
CARBON DISULFIDE	UG/KG					
1,1-DICHLOROETHENE	UG/KG					
1,1-DICHLOROETHANE	UG/KG					
1,2-DICHLOROETHENE	UG/KG					
CHLOROFORM	UG/KG					
1,2-DICHLOROETHANE	UG/KG					
2-BUTANONE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB14-01	6-203DDT-SB15-02	6-203DDT-SB16-01	6-203DDT-SB17-01	6-203DDT-SB17-02	6-203DDT-SB18-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/1/92	9/9/92	9/10/92	9/10/92	9/2/92
Lab Id:	00497-18	00485-05	00497-20	00503-02	00503-03	00485-08

meter Units

VOLATILES Cont.

-TRICHLOROETHANE	UG/KG
BON TETRACHLORIDE	UG/KG
MODICHLOROMETHANE	UG/KG
DICHLOROPROPANE	UG/KG
-1,3-DICHLOROPROPENE	UG/KG
HLOROETHENE	UG/KG
OMOCHLOROMETHANE	UG/KG
-TRICHLOROETHANE	UG/KG
ZENE	UG/KG
NS-1,3-DICHLOROPROPENE	UG/KG
MOFORM	UG/KG
ETHYL-2-PENTANONE	UG/KG
EXANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG

SEMIVOLATILES

PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
2-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB14-01	6-203DDT-SB15-02	6-203DDT-SB16-01	6-203DDT-SB17-01	6-203DDT-SB17-02	6-203DDT-SB18-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/1/92	9/9/92	9/10/92	9/10/92	9/2/92
Lab Id:	00497-18	00485-05	00497-20	00503-02	00503-03	00485-08

meter	Units
<u>SEMIVOLATILES Cont.</u>	
HOLORO-3-METHYLPHENOL	UG/KG
ETHYLNAPHTHALENE	UG/KG
ACHLOROCYCLOPENTADIENE	UG/KG
-TRICHLOROPHENOL	UG/KG
-TRICHLOROPHENOL	UG/KG
HLORONAPHTHALENE	UG/KG
ITROANILINE	UG/KG
ETHYL PHTHALATE	UG/KG
NAPHTHYLENE	UG/KG
DINITROTOLUENE	UG/KG
ITROANILINE	UG/KG
NAPHTHENE	UG/KG
DINITROPHENOL	UG/KG
4-NITROPHENOL	UG/KG
DIBENZOFURAN	UG/KG
2,4-DINITROTOLUENE	UG/KG
DIETHYL PHTHALATE	UG/KG
4-CHLOROPHENYL PHENYL ETHER	UG/KG
FLUORENE	UG/KG
4-NITROANILINE	UG/KG
4,6-DINITRO-2-METHYLPHENOL	UG/KG
N-NITRISODIPHENYLAMINE	UG/KG
4-BROMOPHENYL PHENYL ETHER	UG/KG
HEXACHLOROBENZENE	UG/KG
PENTACHLOROPHENOL	UG/KG
PHENANTHRENE	UG/KG
ANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(A,H)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB19-02	6-203DDT-SB2-01	6-203DDT-SB20-02	6-203DDT-SB21-02	6-203DDT-SB22-02	6-203DDT-SB23-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/9/92	9/1/92	9/2/92	9/2/92	9/2/92
Lab Id:	00485-10	00496-12	00485-12	00485-14	00485-17	00485-19
meter	Units					
PESTICIDE/PCBS						
PHA-BHC	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
PA-BHC	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
PTA-BHC	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
MMA-BHC(LINDANE)	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
PTACHLOR	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
DRIN	UG/KG	2.1 UJ	4.6 J	1.9 UJ	2 U	1.9 UJ
PTACHLOR EPOXIDE	UG/KG	2.1 UJ	6.4 J	1.9 UJ	2 U	1.9 UJ
DOSULFAN I	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
BLDRIN	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.7 U
-DDE	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.8 UJ
DRIN	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.8 UJ
DOSULFAN II	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.8 UJ
-DDD	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.8 UJ
DOSULFAN SULFATE	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.8 UJ
4,4'-DDT	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.8 UJ
METHOXYCHLOR	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
ENDRIN KETONE	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.8 UJ
ENDRIN ALDEHYDE	UG/KG	4.1 UJ	3.5 U	3.7 UJ	3.8 U	3.8 UJ
ALPHA CHLORDANE	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
GAMMA CHLORDANE	UG/KG	2.1 UJ	1.8 U	1.9 UJ	2 U	1.9 UJ
TOXAPHENE	UG/KG	210 UJ	180 U	190 UJ	200 U	190 UJ
PCB-1016	UG/KG					
PCB-1221	UG/KG					
PCB-1232	UG/KG					
PCB-1242	UG/KG					
PCB-1248	UG/KG					
PCB-1254	UG/KG					
PCB-1260	UG/KG					
VOLATILES						
CHLOROMETHANE	UG/KG					
BROMOMETHANE	UG/KG					
VINYL CHLORIDE	UG/KG					
CHLOROETHANE	UG/KG					
METHYLENE CHLORIDE	UG/KG					
ACETONE	UG/KG					
CARBON DISULFIDE	UG/KG					
1,1-DICHLOROETHENE	UG/KG					
1,1-DICHLOROETHANE	UG/KG					
1,2-DICHLOROETHENE	UG/KG					
CHLOROFORM	UG/KG					
1,2-DICHLOROETHANE	UG/KG					
2-BUTANONE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB19-02	6-203DDT-SB2-01	6-203DDT-SB20-02	6-203DDT-SB21-02	6-203DDT-SB22-02	6-203DDT-SB23-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/9/92	9/1/92	9/2/92	9/2/92	9/2/92
Lab Id:	00485-10	00496-12	00485-12	00485-14	00485-17	00485-19

eter Units

VOLATILES Cont.

TRICHLOROETHANE	UG/KG
ON TETRACHLORIDE	UG/KG
ODICHLOROMETHANE	UG/KG
ICHLOROPROPANE	UG/KG
1,3-DICHLOROPROPENE	UG/KG
ILOROETHENE	UG/KG
DMOCHLOROMETHANE	UG/KG
TRICHLOROETHANE	UG/KG
ENE	UG/KG
IS-1,3-DICHLOROPROPENE	UG/KG
FORM	UG/KG
ETHYL-2-PENTANONE	UG/KG
XANONE	UG/KG
TETRACHLOROETHENE	UG/KG
1,1,2,2-TETRACHLOROETHANE	UG/KG
TOLUENE	UG/KG
CHLOROBENZENE	UG/KG
ETHYLBENZENE	UG/KG
STYRENE	UG/KG
TOTAL XYLENES	UG/KG

SEMIVOLATILES

PHENOL	UG/KG
BIS(2-CHLOROETHYL) ETHER	UG/KG
2-CHLOROPHENOL	UG/KG
1,3-DICHLOROBENZENE	UG/KG
1,4-DICHLOROBENZENE	UG/KG
1,2-DICHLOROBENZENE	UG/KG
2-METHYLPHENOL	UG/KG
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG
4-METHYLPHENOL	UG/KG
N-NITROSODI-N-PROPYLAMINE	UG/KG
HEXACHLOROETHANE	UG/KG
NITROBENZENE	UG/KG
ISOPHORONE	UG/KG
2-NITROPHENOL	UG/KG
2,4-DIMETHYLPHENOL	UG/KG
BIS(2-CHLOROETHOXY) METHANE	UG/KG
2,4-DICHLOROPHENOL	UG/KG
1,2,4-TRICHLOROBENZENE	UG/KG
NAPHTHALENE	UG/KG
4-CHLORANILINE	UG/KG
HEXACHLOROBUTADIENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB19-02	6-203DDT-SB2-01	6-203DDT-SB20-02	6-203DDT-SB21-02	6-203DDT-SB22-02	6-203DDT-SB23-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	9/9/92	9/1/92	9/2/92	9/2/92	9/2/92
Lab Id:	00485-10	00496-12	00485-12	00485-14	00485-17	00485-19
meter	Units					
SEMIVOLATILES Cont.						
FLORO-3-METHYLPHENOL	UG/KG					
ETHYLNAPHTHALENE	UG/KG					
ACHLOROCYCLOPENTADIENE	UG/KG					
-TRICHLOROPHENOL	UG/KG					
-TRICHLOROPHENOL	UG/KG					
HLORONAPHTHALENE	UG/KG					
ITROANILINE	UG/KG					
ETHYL PHTHALATE	UG/KG					
NAPHTHYLENE	UG/KG					
DINITROTOLUENE	UG/KG					
ITROANILINE	UG/KG					
NAPHTHENE	UG/KG					
DINITROPHENOL	UG/KG					
4-NITROPHENOL	UG/KG					
DIBENZOFURAN	UG/KG					
2,4-DINITROTOLUENE	UG/KG					
DIETHYL PHTHALATE	UG/KG					
4-CHLOROPHENYL PHENYL ETHER	UG/KG					
FLUORENE	UG/KG					
4-NITROANILINE	UG/KG					
4,6-DINITRO-2-METHYLPHENOL	UG/KG					
N-NITRISODIPHENYLAMINE	UG/KG					
4-BROMOPHENYL PHENYL ETHER	UG/KG					
HEXACHLOROBENZENE	UG/KG					
PENTACHLOROPHENOL	UG/KG					
PHENANTHRENE	UG/KG					
ANTHRACENE	UG/KG					
DI-N-BUTYL PHTHALATE	UG/KG					
FLUORANTHENE	UG/KG					
CARBAZOLE	UG/KG					
PYRENE	UG/KG					
BUTYL BENZYL PHTHALATE	UG/KG					
3,3-DICHLOROBENZIDINE	UG/KG					
BENZO(A)ANTHRACENE	UG/KG					
CHRYSENE	UG/KG					
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					
DI-N-OCTYL PHTHALATE	UG/KG					
BENZO(B)FLUORANTHENE	UG/KG					
BENZO(K)FLUORANTHENE	UG/KG					
BENZO(A)PYRENE	UG/KG					
INDENO(1,2,3-CD) PYRENE	UG/KG					
DIBENZ(A,H)ANTHRACENE	UG/KG					
BENZO(G,H,I)PERYLENE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB24-02	6-203DDT-SB24-03	6-203DDT-SB25-02	6-203DDT-SB26-04	6-203DDT-SB27-03	6-203DDT-SB28-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/10/92	9/10/92	9/2/92	9/10/92	9/01/92	9/1/92
Lab Id:	00502-21	00502-22	00485-21	00502-25	00475-10	00485-23

Parameter	Units	6-203DDT-SB24-02	6-203DDT-SB24-03	6-203DDT-SB25-02	6-203DDT-SB26-04	6-203DDT-SB27-03	6-203DDT-SB28-02
<u>PESTICIDE/PCBS</u>							
A-BHC	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
-BHC	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
'A-BHC	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
MA-BHC(LINDANE)	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
ACHLOR	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
IIN	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
'ACHLOR EPOXIDE	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
SULFAN I	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
DRIN	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
DDE	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
IIN	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
SULFAN II	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
DD	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
ENDOSULFAN SULFATE	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
4,4'-DDT	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
METHOXYCHLOR	UG/KG	19 UJ	20 UJ	19 U	21 U	18 UR	19 U
ENDRIN KETONE	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
ENDRIN ALDEHYDE	UG/KG	3.6 UJ	4 UJ	3.8 U	4 U	3.6 UR	3.6 U
ALPHA CHLORDANE	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
GAMMA CHLORDANE	UG/KG	1.9 UJ	2 UJ	1.9 U	2.1 U	1.8 UR	1.9 U
TOXAPHENE	UG/KG	190 UJ	200 UJ	190 U	210 U	180 UR	190 U
PCB-1016	UG/KG	36 UJ	40 UJ		40 U		
PCB-1221	UG/KG	74 UJ	81 UJ		81 U		
PCB-1232	UG/KG	36 UJ	40 UJ		40 U		
PCB-1242	UG/KG	36 UJ	40 UJ		40 U		
PCB-1248	UG/KG	36 UJ	40 UJ		40 U		
PCB-1254	UG/KG	36 UJ	40 UJ		40 U		
PCB-1260	UG/KG	36 UJ	40 UJ		40 U		
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	11 U		12 U		
BROMOMETHANE	UG/KG	11 U	11 U		12 U		
VINYL CHLORIDE	UG/KG	11 U	11 U		12 U		
CHLOROETHANE	UG/KG	11 U	11 U		12 U		
METHYLENE CHLORIDE	UG/KG	11 U	11 U		12 U		
ACETONE	UG/KG	11 U	11 UJ		14 UJ		
CARBON DISULFIDE	UG/KG	11 U	11 U		12 U		
1,1-DICHLOROETHENE	UG/KG	11 U	11 U		12 U		
1,1-DICHLOROETHANE	UG/KG	11 U	11 U		12 U		
1,2-DICHLOROETHENE	UG/KG	11 U	11 U		12 U		
CHLOROFORM	UG/KG	11 U	11 U		12 U		
1,2-DICHLOROETHANE	UG/KG	11 UJ	11 U		12 U		
2-BUTANONE	UG/KG	11 U	11 U		12 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB24-02	6-203DDT-SB24-03	6-203DDT-SB25-02	6-203DDT-SB26-04	6-203DDT-SB27-03	6-203DDT-SB28-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/10/92	9/10/92	9/2/92	9/10/92	9/01/92	9/1/92
Lab Id:	00302-21	00302-22	00485-21	00502-23	00475-10	00485-23
meter	Units					
<u>VOLATILES Cont.</u>						
- TRICHLOROETHANE	UG/KG	11 U	11 U		12 U	
BON TETRACHLORIDE	UG/KG	11 U	11 U		12 U	
MODICHLOROMETHANE	UG/KG	11 U	11 U		12 U	
DICHLOROPROPANE	UG/KG	11 U	11 U		12 U	
-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U		12 U	
CHLOROETHENE	UG/KG	11 U	11 U		12 U	
ROMOCHLOROMETHANE	UG/KG	11 U	11 U		12 U	
- TRICHLOROETHANE	UG/KG	11 U	11 U		12 U	
IZENE	UG/KG	11 U	11 U		12 U	
NS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U		12 U	
MOFORM	UG/KG	11 U	11 U		12 U	
ETHYL-2-PENTANONE	UG/KG	11 U	11 U		12 U	
HEXANONE	UG/KG	11 U	11 U		12 U	
1,2,4-TRICHLOROETHENE	UG/KG	11 U	11 U		12 U	
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U		12 U	
TOLUENE	UG/KG	11 U	11 U		12 U	
CHLOROBENZENE	UG/KG	11 U	11 U		12 U	
ETHYLBENZENE	UG/KG	11 U	11 U		12 U	
STYRENE	UG/KG	11 U	11 U		12 U	
TOTAL XYLENES	UG/KG	11 U	11 U		12 U	
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	360 U	400 U		400 U	
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 U	400 U		400 U	
2-CHLOROPHENOL	UG/KG	360 U	400 U		400 U	
1,3-DICHLOROBENZENE	UG/KG	360 U	400 U		400 U	
1,4-DICHLOROBENZENE	UG/KG	360 U	400 U		400 U	
1,2-DICHLOROBENZENE	UG/KG	360 U	400 U		400 U	
2-METHYLPHENOL	UG/KG	360 U	400 U		400 U	
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 U	400 U		400 U	
4-METHYLPHENOL	UG/KG	360 U	400 U		400 U	
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	400 U		400 U	
HEXACHLOROETHANE	UG/KG	360 U	400 U		400 U	
NITROBENZENE	UG/KG	360 U	400 U		400 U	
ISOPHORONE	UG/KG	360 U	400 U		400 U	
2-NITROPHENOL	UG/KG	360 U	400 U		400 U	
2,4-DIMETHYLPHENOL	UG/KG	360 U	400 U		400 U	
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	400 U		400 U	
2,4-DICHLOROPHENOL	UG/KG	360 U	400 U		400 U	
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	400 U		400 U	
NAPHTHALENE	UG/KG	360 U	400 U		400 U	
4-CHLORANILINE	UG/KG	360 U	400 U		400 U	
HEXACHLOROBUTADIENE	UG/KG	360 U	400 U		400 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB24-02	6-203DDT-SB24-03	6-203DDT-SB25-02	6-203DDT-SB26-04	6-203DDT-SB27-03	6-203DDT-SB28-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/10/92	9/10/92	9/2/92	9/10/92	9/01/92	9/1/92
Lab Id:	00302-21	00502-22	00485-21	00302-25	00475-10	00485-23

meter

Units

SEMIVOLATILES Cont.

1,2-DICHLORO-3-METHYLPHENOL	UG/KG	360 U	400 U	400 U
1,3-DICHLORONAPHTHALENE	UG/KG	360 U	400 U	400 U
1,4-DICHLOROCYCLOPENTADIENE	UG/KG	360 U	400 U	400 U
1,2,4-TRICHLOROPHENOL	UG/KG	360 U	400 U	400 U
1,2,5-TRICHLOROPHENOL	UG/KG	870 U	960 U	970 U
1,2-DICHLORONAPHTHALENE	UG/KG	360 U	400 U	400 U
1,3-DICHLOROANILINE	UG/KG	870 U	960 U	970 U
1,2-DIETHYL PHTHALATE	UG/KG	360 U	400 U	400 U
1,2-DIETHYLENE	UG/KG	360 U	400 U	400 U
1,4-DINITROTOLUENE	UG/KG	360 U	400 U	400 U
1,3-DICHLOROANILINE	UG/KG	870 U	960 U	970 U
1,2-DIETHYLENE	UG/KG	360 U	400 U	400 U
1,4-DINITROPHENOL	UG/KG	870 U	960 U	970 U
1,2,4-TRICHLOROPHENOL	UG/KG	870 U	960 U	970 U
1,2-DIBENZOFURAN	UG/KG	360 U	400 U	400 U
2,4-DINITROTOLUENE	UG/KG	360 U	400 U	400 U
DIETHYL PHTHALATE	UG/KG	360 U	400 U	400 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	400 U	400 U
FLUORENE	UG/KG	360 U	400 U	400 U
4-NITROANILINE	UG/KG	870 U	960 U	970 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	870 U	960 U	970 U
N-NITRISODIPHENYLAMINE	UG/KG	360 U	400 U	400 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U	400 U	400 U
HEXACHLOROBENZENE	UG/KG	360 U	400 U	400 U
PENTACHLOROPHENOL	UG/KG	870 U	960 U	970 U
PHENANTHRENE	UG/KG	360 U	400 U	400 U
ANTHRACENE	UG/KG	360 U	400 U	400 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U	400 U	400 U
FLUORANTHENE	UG/KG	360 U	400 U	400 U
CARBAZOLE	UG/KG	360 U	400 U	400 U
PYRENE	UG/KG	360 U	400 U	400 U
BUTYL BENZYL PHTHALATE	UG/KG	360 U	400 U	400 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U	400 U	400 U
BENZO(A)ANTHRACENE	UG/KG	360 U	400 U	400 U
CHRYSENE	UG/KG	360 U	400 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	360 U	400 U	100 U
DI-N-OCTYL PHTHALATE	UG/KG	360 U	400 U	400 U
BENZO(B)FLUORANTHENE	UG/KG	360 U	400 U	400 U
BENZO(K)FLUORANTHENE	UG/KG	360 U	400 U	400 U
BENZO(A)PYRENE	UG/KG	360 U	400 U	400 U
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U	400 U	400 U
DIBENZ(A,H)ANTHRACENE	UG/KG	360 U	400 U	400 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U	400 U	400 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB29-03	6-203DDT-SB3-02	6-203DDT-SB30-02	6-203DDT-SB31-02	6-203DDT-SB32-03	6-203DDT-SB33-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/1/92	9/01/92	9/01/92	9/01/92	9/01/92	9/01/92
Lab Id:	00485-25	00474-10	00475-12	00475-14	00475-17	00475-19
meter	Units					
PESTICIDE/PCBS						
HA-BHC	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
A-BHC	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
TA-BHC	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
MA-BHC(LINDANE)	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
TACHLOR	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
RIN	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
TACHLOR EPOXIDE	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
OSULFAN I	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
LDRIN	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
DDE	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
DRIN	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
OSULFAN II	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
DDD	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
4,4'-DDT	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
METHOXYCHLOR	UG/KG	18 U	19 UJ	18 UR	19 UJ	18 UR
ENDRIN KETONE	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.6 UJ	3.5 UR	3.6 UJ	3.5 UR
ALPHA CHLORDANE	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
GAMMA CHLORDANE	UG/KG	1.8 U	1.9 UJ	1.8 UR	1.9 UJ	1.8 UR
TOXAPHENE	UG/KG	180 U	190 UJ	180 UR	190 UJ	180 UR
PCB-1016	UG/KG					
PCB-1221	UG/KG					
PCB-1232	UG/KG					
PCB-1242	UG/KG					
PCB-1248	UG/KG					
PCB-1254	UG/KG					
PCB-1260	UG/KG					
VOLATILES						
CHLOROMETHANE	UG/KG					
BROMOMETHANE	UG/KG					
VINYL CHLORIDE	UG/KG					
CHLOROETHANE	UG/KG					
METHYLENE CHLORIDE	UG/KG					
ACETONE	UG/KG					
CARBON DISULFIDE	UG/KG					
1,1-DICHLOROETHENE	UG/KG					
1,1-DICHLOROETHANE	UG/KG					
1,2-DICHLOROETHENE	UG/KG					
CHLOROFORM	UG/KG					
1,2-DICHLOROETHANE	UG/KG					
2-BUTANONE	UG/KG					

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB29-03	6-203DDT-SB3-02	6-203DDT-SB30-02	6-203DDT-SB31-02	6-203DDT-SB32-03	6-203DDT-SB33-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/1/92	9/01/92	9/01/92	9/01/92	9/01/92	9/01/92
Lab Id:	00485-25	00474-10	00475-12	00475-14	00475-17	00475-19

Parameter	Units
SEMIVOLATILES Cont.	
BROMO-3-METHYLPHENOL	UG/KG
DIMETHYLNAPHTHALENE	UG/KG
TETRACHLOROCYCLOPENTADIENE	UG/KG
1,2,4-TRICHLOROPHENOL	UG/KG
1,2,3-TRICHLOROPHENOL	UG/KG
1,2-DICHLORONAPHTHALENE	UG/KG
4-NITROANILINE	UG/KG
1,2-DIMETHYL PHTHALATE	UG/KG
1-NAPHTHYLENE	UG/KG
1,4-DINITROTOLUENE	UG/KG
2-NITROANILINE	UG/KG
1-NAPHTHENE	UG/KG
1,2-DINITROPHENOL	UG/KG
4-NITROPHENOL	UG/KG
DIBENZOFURAN	UG/KG
2,4-DINITROTOLUENE	UG/KG
DIETHYL PHTHALATE	UG/KG
4-CHLOROPHENYL PHENYL ETHER	UG/KG
FLUORENE	UG/KG
4-NITROANILINE	UG/KG
4,6-DINITRO-2-METHYLPHENOL	UG/KG
N-NITROSODIPHENYLAMINE	UG/KG
4-BROMOPHENYL PHENYL ETHER	UG/KG
HEXACHLOROBENZENE	UG/KG
PENTACHLOROPHENOL	UG/KG
PHENANTHRENE	UG/KG
ANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(A,H)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB34-03	6-203DDT-SB5-03	6-203DDT-SB6-01	6-203DDT-SB7-01	6-203DDT-SB8-01	6-203DDT-SB9-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/10/92	9/01/92	9/9/92	9/9/92	9/9/92	9/9/92
Lab Id:	00503-06	00474-12	00497-02	00497-04	00496-04	00497-10

meter

Units

PESTICIDE/PCBS

IA-BHC	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
A-BHC	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
FA-BHC	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
IMA-BHC(LINDANE)	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
FACHLOR	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
RIN	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
FACHLOR EPOXIDE	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
OSULFAN I	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
.DRIN	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
DDE	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
RIN	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
OSULFAN II	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
DDD	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
ENDOSULFAN SULFATE	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
4,4'-DDT	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
METHOXYCHLOR	UG/KG	20 U	18 U	18 UJ	18 UJ	19 UJ	18 UJ
ENDRIN KETONE	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
ENDRIN ALDEHYDE	UG/KG	3.8 U	3.6 U	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ
ALPHA CHLORDANE	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
GAMMA CHLORDANE	UG/KG	2 U	1.8 U	1.8 UJ	1.8 UJ	1.9 UJ	1.8 UJ
TOXAPHENE	UG/KG	200 U	180 U	180 UJ	180 UJ	190 UJ	180 UJ
PCB-1016	UG/KG					37 UJ	
PCB-1221	UG/KG					74 UJ	
PCB-1232	UG/KG					37 UJ	
PCB-1242	UG/KG					37 UJ	
PCB-1248	UG/KG					37 UJ	
PCB-1254	UG/KG					37 UJ	
PCB-1260	UG/KG					37 UJ	

VOLATILES

CHLOROMETHANE	UG/KG					11 U	
BROMOMETHANE	UG/KG					11 U	
VINYL CHLORIDE	UG/KG					11 U	
CHLOROETHANE	UG/KG					11 U	
METHYLENE CHLORIDE	UG/KG					11 U	
ACETONE	UG/KG					11 U	
CARBON DISULFIDE	UG/KG					11 U	
1,1-DICHLOROETHENE	UG/KG					11 U	
1,1-DICHLOROETHANE	UG/KG					11 U	
1,2-DICHLOROETHENE	UG/KG					11 U	
CHLOROFORM	UG/KG					11 U	
1,2-DICHLOROETHANE	UG/KG					11 UJ	
2-BUTANONE	UG/KG					11 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO--0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB34-03	6-203DDT-SB5-03	6-203DDT-SB6-01	6-203DDT-SB7-01	6-203DDT-SB8-01	6-203DDT-SB9-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/10/92	9/01/92	9/9/92	9/9/92	9/9/92	9/9/92
Lab Id:	00303-06	00474-12	00497-02	00497-04	00496-04	00497-10
meter	Units					
<u>VOLATILES Cont.</u>						
-TRICHLOROETHANE	UG/KG				11 U	
IBON TETRACHLORIDE	UG/KG				11 U	
MODICHLOROMETHANE	UG/KG				11 U	
DICHLOROPROPANE	UG/KG				11 U	
-1,3-DICHLOROPROPENE	UG/KG				11 U	
CHLOROETHENE	UG/KG				11 U	
ROMOCHLOROMETHANE	UG/KG				11 U	
1-TRICHLOROETHANE	UG/KG				11 U	
IZENE	UG/KG				11 U	
ANS-1,3-DICHLOROPROPENE	UG/KG				11 U	
DMOFORM	UG/KG				11 U	
METHYL-2-PENTANONE	UG/KG				11 U	
HEXANONE	UG/KG				11 U	
1,1,1-TRICHLOROETHENE	UG/KG				11 U	
1,1,2,2-TETRACHLOROETHANE	UG/KG				11 U	
TOLUENE	UG/KG				11 U	
CHLOROBENZENE	UG/KG				11 U	
ETHYLBENZENE	UG/KG				11 U	
STYRENE	UG/KG				11 U	
TOTAL XYLENES	UG/KG				11 U	
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG				370 U	
BIS(2-CHLOROETHYL) ETHER	UG/KG				370 U	
2-CHLOROPHENOL	UG/KG				370 U	
1,3-DICHLOROBENZENE	UG/KG				370 U	
1,4-DICHLOROBENZENE	UG/KG				370 U	
1,2-DICHLOROBENZENE	UG/KG				370 U	
2-METHYLPHENOL	UG/KG				370 U	
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG				370 U	
4-METHYLPHENOL	UG/KG				370 U	
N-NITROSODI-N-PROPYLAMINE	UG/KG				370 U	
HEXACHLOROETHANE	UG/KG				370 U	
NITROBENZENE	UG/KG				370 U	
ISOPHORONE	UG/KG				370 U	
2-NITROPHENOL	UG/KG				370 U	
2,4-DIMETHYLPHENOL	UG/KG				370 U	
BIS(2-CHLOROETHOXY) METHANE	UG/KG				370 U	
2,4-DICHLOROPHENOL	UG/KG				370 U	
1,2,4-TRICHLOROBENZENE	UG/KG				370 U	
NAPHTHALENE	UG/KG				370 U	
4-CHLORANILINE	UG/KG				370 U	
HEXACHLOROBUTADIENE	UG/KG				370 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203DDT-SB34-03	6-203DDT-SB5-03	6-203DDT-SB6-01	6-203DDT-SB7-01	6-203DDT-SB8-01	6-203DDT-SB9-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/10/92	9/01/92	9/9/92	9/9/92	9/9/92	9/9/92
Lab Id:	00503-06	00474-12	00497-02	00497-04	00496-04	00497-10

meter	Units					
SEMIVOLATILES Cont.						
HLORO-3-METHYLPHENOL	UG/KG					370 U
ETHYLNAPHTHALENE	UG/KG					370 U
ACHLOROCYCLOPENTADIENE	UG/KG					370 U
-TRICHLOROPHENOL	UG/KG					370 U
-TRICHLOROPHENOL	UG/KG					890 U
HLORONAPHTHALENE	UG/KG					370 U
ITROANILINE	UG/KG					890 U
ETHYL PHTHALATE	UG/KG					370 U
NAPHTHYLENE	UG/KG					370 U
DINITROTOLUENE	UG/KG					370 U
ITROANILINE	UG/KG					890 U
NAPHTHENE	UG/KG					370 U
DINITROPHENOL	UG/KG					890 U
4-NITROPHENOL	UG/KG					890 U
DIBENZOFURAN	UG/KG					370 U
2,4-DINITROTOLUENE	UG/KG					370 U
DIETHYL PHTHALATE	UG/KG					370 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG					370 UJ
FLUORENE	UG/KG					370 U
4-NITROANILINE	UG/KG					890 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG					890 U
N-NITRISODIPHENYLAMINE	UG/KG					370 U
4-BROMOPHENYL PHENYL ETHER	UG/KG					370 U
HEXACHLOROBENZENE	UG/KG					370 U
PENTACHLOROPHENOL	UG/KG					890 U
PHENANTHRENE	UG/KG					370 U
ANTHRACENE	UG/KG					370 U
DI-N-BUTYL PHTHALATE	UG/KG					370 U
FLUORANTHENE	UG/KG					370 U
CARBAZOLE	UG/KG					370 U
PYRENE	UG/KG					370 U
BUTYL BENZYL PHTHALATE	UG/KG					370 U
3,3-DICHLOROBENZIDINE	UG/KG					370 U
BENZO(A)ANTHRACENE	UG/KG					370 U
CHRYSENE	UG/KG					370 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG					370 U
DI-N-OCTYL PHTHALATE	UG/KG					370 U
BENZO(B)FLUORANTHENE	UG/KG					370 U
BENZO(K)FLUORANTHENE	UG/KG					370 U
BENZO(A)PYRENE	UG/KG					370 U
INDENO(1,2,3-CD) PYRENE	UG/KG					370 U
DIBENZ(AH)ANTHRACENE	UG/KG					370 U
BENZO(G,H,I)PERYLENE	UG/KG					370 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB21-02	6-203OSA-SB22-02	6-203OSA-SB23-02	6-203OSA-SB24-01	6-203OSA-SB25-03	6-203OSA-SB26-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92
Lab Id:	00467-02	00467-04	00467-06	00467-08	00467-10	00467-12
meter	Units					
<u>PESTICIDE/PCBS</u>						
HA-BHC	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
A-BHC	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
TA-BHC	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
MA-BHC(LINDANE)	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
TACHLOR	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
DRIN	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
TACHLOR EPOXIDE	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
OSULFAN I	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
LDRIN	UG/KG	3.4 UJ	220 J	3.6 U	3.7 U	3.6 U
DDE	UG/KG	3.4 UJ	34 U	8.9 J	3.7 U	3.6 U
DRIN	UG/KG	3.4 UJ	34 U	3.6 U	3.7 U	3.6 U
OSULFAN II	UG/KG	3.4 UJ	34 U	3.6 U	3.7 U	3.6 U
DDD	UG/KG	3.4 UJ	34 U	3.6 U	3.7 U	3.6 U
ENDOSULFAN SULFATE	UG/KG	3.4 UJ	34 U	3.6 U	3.7 U	3.6 U
4,4'-DDT	UG/KG	3.4 UJ	300 J	6.9	3.7 U	3.6 U
METHOXYCHLOR	UG/KG	17 UJ	1100 J	19 U	19 U	19 U
ENDRIN KETONE	UG/KG	3.4 UJ	34 U	3.6 U	3.7 U	3.6 U
ENDRIN ALDEHYDE	UG/KG	3.4 UJ	34 U	3.6 U	3.7 U	3.6 U
ALPHA CHLORDANE	UG/KG	1.7 UJ	18 U	1.9 U	1.9 U	1.9 U
GAMMA CHLORDANE	UG/KG	1.7 UJ	140 J	1.9 U	1.9 U	1.9 U
TOXAPHENE	UG/KG	170 UJ	1800 U	190 U	190 U	190 U
PCB-1016	UG/KG	34 UJ	340 U	36 U	37 U	36 U
PCB-1221	UG/KG	69 UJ	700 U	74 U	74 U	73 U
PCB-1232	UG/KG	34 UJ	340 U	36 U	37 U	36 U
PCB-1242	UG/KG	34 UJ	340 U	36 U	37 U	36 U
PCB-1248	UG/KG	34 UJ	340 U	36 U	37 U	36 U
PCB-1254	UG/KG	34 UJ	340 U	36 U	37 U	36 U
PCB-1260	UG/KG	34 UJ	29000 J	36 U	72	36 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
BROMOMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
VINYL CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	11 U
CHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	11 U
ACETONE	UG/KG	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U
CHLOROFORM	UG/KG	11 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB21-02	6-203OSA-SB22-02	6-203OSA-SB23-02	6-203OSA-SB24-01	6-203OSA-SB25-03	6-203OSA-SB26-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92
Lab Id:	00467-02	00467-04	00467-06	00467-08	00467-10	00467-12
meter	Units					
VOLATILES Cont.						
-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
BON TETRACHLORIDE	UG/KG	11 UJ	11 UJ	11 UJ	11 UJ	11 UJ
MODICHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	11 U	11 U
HLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U
OMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
ZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
NS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	11 U	11 U
MOFORM	UG/KG	11 U	11 U	11 U	11 U	11 U
ETHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	11 U	11 U
EXANONE	UG/KG	11 U	11 U	11 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
TOLUENE	UG/KG	11 U	11 U	11 U	11 U	11 U
CHLOROBENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
STYRENE	UG/KG	11 U	11 U	11 U	11 U	11 U
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	11 U	11 U
SEMIVOLATILES						
PHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	340 U	1000 U	370 U	370 U	360 U
2-CHLOROPHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
1,3-DICHLOROBENZENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
1,4-DICHLOROBENZENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
1,2-DICHLOROBENZENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
2-METHYLPHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	340 UJ	1000 U	370 U	370 U	360 U
4-METHYLPHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	340 U	1000 U	370 U	370 U	360 U
HEXACHLOROETHANE	UG/KG	340 U	1000 U	370 U	370 U	360 U
NITROBENZENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
ISOPHORONE	UG/KG	340 U	1000 U	370 U	370 U	360 U
2-NITROPHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
2,4-DIMETHYLPHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340 U	1000 U	370 U	370 U	360 U
2,4-DICHLOROPHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
1,2,4-TRICHLOROBENZENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
NAPHTHALENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
4-CHLORANILINE	UG/KG	340 U	1000 U	370 U	370 U	360 U
HEXACHLOROBUTADIENE	UG/KG	340 U	1000 U	370 U	370 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB21-02	6-203OSA-SB22-02	6-203OSA-SB23-02	6-203OSA-SB24-01	6-203OSA-SB25-03	6-203OSA-SB26-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92
Lab Id:	00467-02	00467-04	00467-06	00467-08	00467-10	00467-12
meter	Units					
SEMIVOLATILES Cont.						
CHLORO-3-METHYLPHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
METHYLNAPHTHALENE	UG/KG	340 U	1300	370 U	370 U	360 U
XACHLOROCYCLOPENTADIENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
5-TRICHLOROPHENOL	UG/KG	340 U	1000 U	370 U	370 U	360 U
5-TRICHLOROPHENOL	UG/KG	820 U	2500 U	890 U	890 U	880 U
CHLORONAPHTHALENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
NITROANILINE	UG/KG	820 U	2500 U	890 U	890 U	880 U
METHYL PHTHALATE	UG/KG	340 U	1000 U	370 U	370 U	360 U
ENAPHTHYLENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
-DINITROTOLUENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
NITROANILINE	UG/KG	820 U	2500 U	890 U	890 U	880 U
ENAPHTHENE	UG/KG	340 U	3200	370 U	370 U	360 U
-DINITROPHENOL	UG/KG	820 U	2500 U	890 U	890 U	880 U
-NITROPHENOL	UG/KG	820 U	2500 U	890 U	890 U	880 U
DIBENZOFURAN	UG/KG	340 U	3500	370 U	370 U	360 U
2,4-DINITROTOLUENE	UG/KG	340 U	1000 U	370 UJ	370 U	360 U
DIETHYL PHTHALATE	UG/KG	340 U	1000 U	370 U	370 U	360 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U	1000 U	370 U	370 U	360 U
FLUORENE	UG/KG	340 U	5100	370 U	370 U	360 U
4-NITROANILINE	UG/KG	820 U	2500 U	890 U	890 U	880 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	820 U	2500 U	890 U	890 U	880 U
N-NITROSODIPHENYLAMINE	UG/KG	340 U	1000 U	370 U	370 U	360 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	340 U	1000 U	370 U	370 U	360 U
HEXACHLOROBENZENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
PENTACHLOROPHENOL	UG/KG	820 U	2500 U	890 U	890 U	880 U
PHENANTHRENE	UG/KG	340 U	8700	370 U	370 U	360 U
ANTHRACENE	UG/KG	340 U	5700	370 U	370 U	360 U
DI-N-BUTYL PHTHALATE	UG/KG	340 U	1000 U	370 U	370 U	360 U
FLUORANTHENE	UG/KG	340 U	5000	370 U	370 U	360 U
CARBAZOLE	UG/KG	340 U	4300	370 U	370 U	360 U
PYRENE	UG/KG	340 U	3600	370 U	370 UJ	360 UJ
BUTYL BENZYL PHTHALATE	UG/KG	340 U	1000 U	370 U	370 U	360 U
3,3-DICHLOROBENZIDINE	UG/KG	340 U	1000 U	370 U	370 U	360 U
BENZO(A)ANTHRACENE	UG/KG	340 U	1000 J	370 U	370 U	360 U
CHRYSENE	UG/KG	340 U	1000 J	370 U	370 U	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	140 J	1000 U	77 J	370 UJ	360 UJ
DI-N-OCTYL PHTHALATE	UG/KG	340 U	1000 U	370 UJ	370 UJ	360 UJ
BENZO(B)FLUORANTHENE	UG/KG	340 U	500 J	370 U	370 U	360 U
BENZO(K)FLUORANTHENE	UG/KG	340 U	170 J	370 U	370 U	360 U
BENZO(A)PYRENE	UG/KG	340 U	210 J	370 U	370 U	360 U
INDENO(1,2,3-CD) PYRENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
DIBENZ(AH)ANTHRACENE	UG/KG	340 U	1000 U	370 U	370 U	360 U
BENZO(G,H,I)PERYLENE	UG/KG	340 U	1000 U	370 U	370 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO--0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB27-01	6-203OSA-SB28-03	6-203OSA-SB29-02	6-203OSA-SB30-01	6-203OSA-SB31-01	6-203OSA-SB32-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92
Lab Id:	00467-14	00467-16	00467-18	00467-21	00467-23	00467-25
meter	Units					
PESTICIDE/PCBS						
IA-BHC	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
A-BHC	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
GA-BHC	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
IMA-BHC(LINDANE)	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
FACHLOR	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
RIN	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
FACHLOR EPOXIDE	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
OSULFAN I	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
.DRIN	UG/KG	3.8 U	34 UJ	3.5 U	3.6 U	3.8 U
DDE	UG/KG	3.8 U	34 UJ	3.5 U	3.6 U	3.8 U
RIN	UG/KG	3.8 U	34 UJ	3.5 U	3.6 U	3.8 U
OSULFAN II	UG/KG	3.8 U	34 UJ	3.5 U	3.6 U	3.8 U
DDD	UG/KG	3.8 U	430 J	3.5 U	3.6 U	3.8 U
DIVL OSULFAN SULFATE	UG/KG	3.8 U	34 UJ	3.5 U	3.6 U	3.8 U
4,4'-DDT	UG/KG	3.8 U	34 UJ	3.5 U	3.6 U	3.8 U
METHOXYCHLOR	UG/KG	20 U	180 UJ	18 U	19 U	20 U
ENDRIN KETONE	UG/KG	3.8 U	34 UJ	3.5 U	3.6 U	3.8 U
ENDRIN ALDEHYDE	UG/KG	3.8 U	34 UJ	3.5 U	3.6 U	3.8 U
ALPHA CHLORDANE	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
GAMMA CHLORDANE	UG/KG	2 U	18 UJ	1.8 U	1.9 U	2 U
TOXAPHENE	UG/KG	200 U	1800 UJ	180 U	190 U	200 U
PCB-1016	UG/KG	38 U	340 UJ	35 U	36 U	38 U
PCB-1221	UG/KG	77 U	700 UJ	71 U	76 U	78 U
PCB-1232	UG/KG	38 U	340 UJ	35 U	36 U	38 U
PCB-1242	UG/KG	38 U	340 UJ	35 U	36 U	38 U
PCB-1248	UG/KG	38 U	340 UJ	35 U	36 U	38 U
PCB-1254	UG/KG	38 U	340 UJ	35 U	36 U	38 U
PCB-1260	UG/KG	38 U	340 UJ	35 U	36 U	38 U
VOLATILES						
CHLOROMETHANE	UG/KG	12 U	11 U	11 U	14 U	12 U
BROMOMETHANE	UG/KG	12 U	11 U	11 U	14 U	12 U
VINYL CHLORIDE	UG/KG	12 U	11 U	11 U	14 U	12 U
CHLOROETHANE	UG/KG	12 U	11 U	11 U	14 U	12 U
METHYLENE CHLORIDE	UG/KG	12 U	11 U	11 U	14 U	12 U
ACETONE	UG/KG	12 U	11 U	11 U	14 U	12 U
CARBON DISULFIDE	UG/KG	12 U	11 U	11 U	14 U	12 U
1,1-DICHLOROETHENE	UG/KG	12 U	11 U	11 U	14 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	11 U	11 U	14 U	12 U
1,2-DICHLOROETHENE	UG/KG	12 U	11 U	11 U	14 U	12 U
CHLOROFORM	UG/KG	12 U	11 U	11 U	14 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	11 U	11 U	14 U	12 U
2-BUTANONE	UG/KG	12 U	11 U	11 U	14 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB27-01	6-203OSA-SB28-03	6-203OSA-SB29-02	6-203OSA-SB30-01	6-203OSA-SB31-01	6-203OSA-SB32-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	
Lab Id:	00467-14	00467-16	00467-18	00467-21	00467-23	00467-25	
meter	Units						
<u>VOLATILES Cont.</u>							
1-TRICHLOROETHANE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUORONITROBENZENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUORODIBROMODICHLOROMETHANE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUORODICHLOROPROPANE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUORO-1,3-DICHLOROPROPENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROTRICHLOROETHENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROBROMOCHLOROMETHANE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUORO-2-TRICHLOROETHANE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUORONITROBENZENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUORO-1,3-DICHLOROPROPENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROMETHANOL	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROMETHYL-2-PENTANONE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROHXANONE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROTETRACHLOROETHENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUORO-1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROTOLUENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROCHLOROBENZENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROETHYLBENZENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROSTYRENE	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
PERFLUOROTOTAL XYLENES	UG/KG	12 U	11 U	11 U	14 U	11 U	12 U
<u>SEMIVOLATILES</u>							
PERFLUOROPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUOROBIS(2-CHLOROETHYL) ETHER	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-2-CHLOROPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-1,3-DICHLOROBENZENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-1,4-DICHLOROBENZENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-1,2-DICHLOROBENZENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-2-METHYLPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-4-METHYLPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORON-NITROSODI-N-PROPYLAMINE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUOROHXACHLOROETHANE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORONITROBENZENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUOROSOPHORONE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-2-NITROPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-2,4-DIMETHYLPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUOROBIS(2-CHLOROETHOXY) METHANE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-2,4-DICHLOROPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-1,2,4-TRICHLOROBENZENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORONAPHTHALENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUORO-4-CHLORANILINE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PERFLUOROHXACHLOROBUTADIENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB27-01	6-203OSA-SB28-03	6-203OSA-SB29-02	6-203OSA-SB30-01	6-203OSA-SB31-01	6-203OSA-SB32-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	
Lab Id:	00467-14	00467-16	00467-18	00467-21	00467-23	00467-25	
meter	Units						
<u>SEMIVOLATILES Cont.</u>							
HLORO-3-METHYLPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
ETHYLNAPHTHALENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
ACHLOROCYCLOPENTADIENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
-TRICHLOROPHENOL	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
-TRICHLOROPHENOL	UG/KG	920 U	830 U	840 U	910 U	870 U	920 U
HLORONAPHTHALENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
ITROANILINE	UG/KG	920 U	830 U	840 U	910 U	870 U	920 U
ETHYL PHTHALATE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
NAPHTHYLENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
DINITROTOLUENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
ITROANILINE	UG/KG	920 U	830 U	840 U	910 U	870 U	920 U
NAPHTHENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
DINITROPHENOL	UG/KG	920 U	830 U	840 U	910 U	870 U	920 U
ITROPHENOL	UG/KG	920 U	830 U	840 U	910 U	870 U	920 U
DIBENZOFURAN	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
2,4-DINITROTOLUENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
DIETHYL PHTHALATE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
FLUORENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
4-NITROANILINE	UG/KG	920 U	830 U	840 U	910 U	870 U	920 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	920 U	830 U	840 U	910 U	870 U	920 U
N-NITROSODIPHENYLAMINE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
HEXACHLOROBENZENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PENTACHLOROPHENOL	UG/KG	920 U	830 U	840 U	910 U	870 U	920 U
PHENANTHRENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
ANTHRACENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
DI-N-BUTYL PHTHALATE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
FLUORANTHENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
CARBAZOLE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
PYRENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
BUTYL BENZYL PHTHALATE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
1,3-DICHLOROBENZIDINE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
BENZO(A)ANTHRACENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
CHRYSENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
DI-N-OCTYL PHTHALATE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
BENZO(B)FLUORANTHENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
BENZO(K)FLUORANTHENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
BENZO(A)PYRENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
INDENO(1,2,3-CD) PYRENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
DIBENZ(A,H)ANTHRACENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U
BENZO(G,H,I)PERYLENE	UG/KG	380 U	340 U	350 U	370 U	360 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB33-02	6-203OSA-SB34-01	6-203OSA-SB35-02	6-203OSA-SB36-02	6-203OSA-SB37-02	6-203OSA-SB38-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	10/12/92
Lab Id:	00467-28	00467-30	00467-32	00467-34	00467-37	00573-02
meter	Units					
<u>PESTICIDE/PCBS</u>						
HA-BHC	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
A-BHC	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
TA-BHC	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
AMA-BHC(LINDANE)	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
TACHLOR	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
DRIN	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
TACHLOR EPOXIDE	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
DOSULFAN I	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
LDRIN	UG/KG	3.6 U	4.4	3.3 U	3.7 U	3.8 UJ
-DDE	UG/KG	3.6 U	4.9 J	24	3.7 U	3.8 UJ
DRIN	UG/KG	3.6 U	3.7 U	3.3 U	3.7 U	3.8 UJ
DOSULFAN II	UG/KG	3.6 U	3.7 U	3.3 U	3.7 U	3.8 UJ
-DDD	UG/KG	3.6 U	3.7 U	3.3 U	3.7 U	3.8 UJ
ENDOSULFAN SULFATE	UG/KG	3.6 U	3.7 U	3.3 U	3.7 U	3.8 UJ
4,4'-DDT	UG/KG	3.6 U	3.7 U	18	3.7 U	6.9 J
METHOXYCHLOR	UG/KG	18 U	19 U	17 U	19 U	19 UJ
ENDRIN KETONE	UG/KG	3.6 U	3.7 U	3.3 U	3.7 U	3.8 UJ
ENDRIN ALDEHYDE	UG/KG	3.6 U	3.7 U	3.3 U	3.7 U	3.8 UJ
ALPHA CHLORDANE	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
GAMMA CHLORDANE	UG/KG	1.8 U	1.9 U	1.7 U	1.9 U	1.9 UJ
TOXAPHENE	UG/KG	180 U	190 U	170 U	190 U	190 UJ
PCB-1016	UG/KG	36 U	37 U	33 U	37 U	38 UJ
PCB-1221	UG/KG	73 U	74 U	67 U	74 U	76 UJ
PCB-1232	UG/KG	36 U	37 U	33 U	37 U	38 UJ
PCB-1242	UG/KG	36 U	37 U	33 U	37 U	38 UJ
PCB-1248	UG/KG	36 U	37 U	33 U	37 U	38 UJ
PCB-1254	UG/KG	36 U	37 U	33 U	37 U	38 UJ
PCB-1260	UG/KG	36 U	37 U	33 U	37 U	38 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
BROMOMETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
VINYL CHLORIDE	UG/KG	11 UJ	11 UJ	10 UJ	11 UJ	11 U
CHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	10 U	11 U	11 U
ACETONE	UG/KG	11 UJ	11 UJ	120 J	11 UJ	6 J
CARBON DISULFIDE	UG/KG	11 U	11 U	10 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	10 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	10 U	11 U	11 U
CHLOROFORM	UG/KG	11 UJ	11 UJ	10 UJ	11 UJ	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
2-BUTANONE	UG/KG	11 U	11 U	10 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB33-02	6-203OSA-SB34-01	6-203OSA-SB35-02	6-203OSA-SB36-02	6-203OSA-SB37-02	6-203OSA-SB38-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	10/12/92
Lab Id:	00467-28	00467-30	00467-32	00467-34	00467-37	00573-02
Units						
<u>VOLATILES Cont.</u>						
TRICHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
ON TETRACHLORIDE	UG/KG	11 U	11 U	10 U	11 U	11 U
IODICHLOROMETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
ICHLOROPROPANE	UG/KG	11 U	11 U	10 U	11 U	11 U
,3-DICHLOROPROPENE	UG/KG	11 U	11 U	10 U	11 U	11 U
ILOROETHENE	UG/KG	11 U	11 U	10 U	11 U	11 U
MOCHLOROMETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
TRICHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
ENE	UG/KG	11 U	11 U	10 U	11 U	11 U
IS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	10 U	11 U	11 U
IOFORM	UG/KG	11 U	11 U	10 U	11 U	11 U
THYL-2-PENTANONE	UG/KG	11 U	11 U	10 U	11 U	11 U
XANONE	UG/KG	11 U	11 U	10 U	11 U	11 U
ETRACHLOROETHENE	UG/KG	11 U	11 U	10 U	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
TOLUENE	UG/KG	11 U	11 U	10 U	11 U	11 U
CHLOROBENZENE	UG/KG	11 U	11 U	10 U	11 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	10 U	11 U	11 U
STYRENE	UG/KG	11 U	11 U	10 U	11 U	11 U
TOTAL XYLENES	UG/KG	11 U	11 U	10 U	11 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
2-CHLOROPHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
1,3-DICHLOROBENZENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
1,4-DICHLOROBENZENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
1,2-DICHLOROBENZENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
2-METHYLPHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
4-METHYLPHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
HEXACHLOROETHANE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
NITROBENZENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
ISOPHORONE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
2-NITROPHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
2,4-DIMETHYLPHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
2,4-DICHLOROPHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
NAPHTHALENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
4-CHLORANILINE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
HEXACHLOROBUTADIENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB33-02	6-203OSA-SB34-01	6-203OSA-SB35-02	6-203OSA-SB36-02	6-203OSA-SB37-02	6-203OSA-SB38-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	10/12/92
Lab Id:	00467-28	00467-30	00467-32	00467-34	00467-37	00573-02
meter	Units					
SEMIVOLATILES Cont.						
HLORO-3-METHYLPHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
IETHYLNAPHTHALENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
ACHLOROCYCLOPENTADIENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
-TRICHLOROPHENOL	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
-TRICHLOROPHENOL	UG/KG	860 U	890 U	840 UJ	880 UJ	910 U
HLORONAPHTHALENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
ITROANILINE	UG/KG	860 U	890 U	840 UJ	880 UJ	910 U
ETHYL PHTHALATE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
NAPHTHYLENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
DINITROTOLUENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
ITROANILINE	UG/KG	860 U	890 U	840 UJ	880 UJ	910 U
INAPHTHENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
DINITROPHENOL	UG/KG	860 U	890 U	840 UJ	880 UJ	910 U
-NITROPHENOL	UG/KG	860 U	890 U	840 UJ	880 UJ	910 U
DIBENZOFURAN	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
2,4-DINITROTOLUENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
DIETHYL PHTHALATE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
FLUORENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
4-NITROANILINE	UG/KG	860 U	890 U	840 UJ	880 UJ	910 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	860 U	890 U	840 UJ	880 UJ	910 U
N-NITRISODIPHENYLAMINE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
HEXACHLOROBENZENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
PENTACHLOROPHENOL	UG/KG	860 UJ	890 UJ	840 UJ	880 UJ	910 U
PHENANTHRENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
ANTHRACENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
FLUORANTHENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
CARBAZOLE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
PYRENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BUTYL BENZYL PHTHALATE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BENZO(A)ANTHRACENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
CHRYSENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
DI-N-OCTYL PHTHALATE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BENZO(B)FLUORANTHENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BENZO(K)FLUORANTHENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BENZO(A)PYRENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
DIBENZ(A,H)ANTHRACENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U	370 U	350 UJ	360 UJ	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB39-04	6-203OSA-SB41-01	6-203OSA-SB41-04	6-203PCB-SB1-03	6-203PCB-SB10-03	6-203PCB-SB11-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/12/92	10/12/92	10/12/92	9/2/92	8/31/92	9/1/92
Lab Id:	00573-03	00573-07	00573-08	00484-05	00473-08	00485-39

ester	Units					
<u>PESTICIDE/PCBS</u>						
A-BHC	UG/KG	2 UJ	2.4 UJ	1.8 U		
-BHC	UG/KG	2 UJ	2.4 UJ	1.8 U		
A-BHC	UG/KG	2 UJ	4.9 J	1.8 U		
MA-BHC(LINDANE)	UG/KG	2 UJ	2.4 UJ	1.8 U		
ACHLOR	UG/KG	2 UJ	2.4 UJ	1.8 U		
IIN	UG/KG	2 UJ	2.4 UJ	1.8 U		
ACHLOR EPOXIDE	UG/KG	2 UJ	2.4 UJ	1.8 U		
SULFAN I	UG/KG	2 UJ	2.4 UJ	1.8 U		
DRIN	UG/KG	3.8 UJ	17 J	3.6 U		
DDE	UG/KG	3.8 UJ	4.6 UJ	12		
IIN	UG/KG	3.8 UJ	4.6 UJ	3.6 U		
SULFAN II	UG/KG	3.8 UJ	4.6 UJ	3.6 U		
DDD	UG/KG	3.8 UJ	21 J	31		
ENDOSULFAN SULFATE	UG/KG	3.8 UJ	4.6 UJ	3.6 U		
4,4'-DDT	UG/KG	3.8 UJ	4.6 UJ	3.6 U		
METHOXYCHLOR	UG/KG	20 UJ	24 UJ	18 U		
ENDRIN KETONE	UG/KG	3.8 UJ	4.6 UJ	3.6 U		
ENDRIN ALDEHYDE	UG/KG	3.8 UJ	4.6 UJ	3.6 U		
ALPHA CHLORDANE	UG/KG	2 UJ	2.4 UJ	1.8 U		
GAMMA CHLORDANE	UG/KG	2 UJ	2.4 UJ	1.8 U		
TOXAPHENE	UG/KG	200 UJ	240 UJ	180 U		
PCB-1016	UG/KG	38 UJ	46 UJ	36 U	42 U	36 UR 37 U
PCB-1221	UG/KG	78 UJ	93 UJ	73 U	85 U	73 UR 75 U
PCB-1232	UG/KG	38 UJ	46 UJ	36 U	42 U	36 UR 37 U
PCB-1242	UG/KG	38 UJ	46 UJ	36 U	42 U	36 UR 37 U
PCB-1248	UG/KG	38 UJ	46 UJ	36 U	42 U	36 UR 37 U
PCB-1254	UG/KG	38 UJ	46 UJ	36 U	42 U	36 UR 37 U
PCB-1260	UG/KG	38 UJ	46 UJ	36 U	42 U	36 UR 37 U

<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	12 U	12 UJ	11 UJ		
BROMOMETHANE	UG/KG	12 U	12 U	11 U		
VINYL CHLORIDE	UG/KG	12 U	12 U	11 U		
CHLOROETHANE	UG/KG	12 U	12 U	11 U		
METHYLENE CHLORIDE	UG/KG	12 U	12 U	11 U		
ACETONE	UG/KG	12 U	130	26		
CARBON DISULFIDE	UG/KG	12 U	12 U	11 U		
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	11 U		
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	11 U		
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	11 U		
CHLOROFORM	UG/KG	12 U	12 U	11 U		
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U		
2-BUTANONE	UG/KG	12 U	12 U	11 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB39-04	6-203OSA-SB41-01	6-203OSA-SB41-04	6-203PCB-SB1-03	6-203PCB-SB10-03	6-203PCB-SB11-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/12/92	10/12/92	10/12/92	9/2/92	8/31/92	9/1/92
Lab Id:	00573-03	00573-07	00573-08	00484-05	00473-08	00485-39
meter	Units					
<u>VOLATILES Cont.</u>						
-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U		
IBON TETRACHLORIDE	UG/KG	12 U	12 U	11 U		
MODICHLOROMETHANE	UG/KG	12 U	12 U	11 U		
DICHLOROPROPANE	UG/KG	12 U	12 U	11 U		
-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 U		
CHLOROETHENE	UG/KG	12 U	12 U	11 U		
ROMOCHLOROMETHANE	UG/KG	12 U	12 U	11 U		
-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U		
IZENE	UG/KG	12 U	12 U	11 U		
INS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 U		
MOFORM	UG/KG	12 U	12 U	11 U		
ETHYL-2-PENTANONE	UG/KG	12 U	12 U	11 U		
HEXANONE	UG/KG	12 U	12 U	11 U		
TETRACHLOROETHENE	UG/KG	12 U	12 U	11 U		
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	11 U		
TOLUENE	UG/KG	12 U	12 U	11 U		
CHLOROENZENE	UG/KG	12 U	12 U	11 U		
ETHYLBENZENE	UG/KG	12 U	12 U	11 U		
STYRENE	UG/KG	12 U	12 U	11 U		
TOTAL XYLENES	UG/KG	12 U	12 U	11 U		
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	380 U	920 UR	350 U		
BIS(2-CHLOROETHYL) ETHER	UG/KG	380 U	920 UR	350 U		
2-CHLOROPHENOL	UG/KG	380 U	920 UR	350 U		
1,3-DICHLOROBENZENE	UG/KG	380 U	920 UR	350 U		
1,4-DICHLOROBENZENE	UG/KG	380 U	920 UR	350 U		
1,2-DICHLOROBENZENE	UG/KG	380 U	200 J	350 U		
2-METHYLPHENOL	UG/KG	380 U	920 UR	350 U		
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	380 U	920 UR	350 U		
4-METHYLPHENOL	UG/KG	380 U	920 UR	350 U		
N-NITROSODI-N-PROPYLAMINE	UG/KG	380 U	920 UR	350 U		
HEXACHLOROETHANE	UG/KG	380 U	920 UR	350 U		
NITROBENZENE	UG/KG	380 UJ	920 UR	350 U		
ISOPHORONE	UG/KG	380 U	920 UR	350 U		
2-NITROPHENOL	UG/KG	380 U	920 UR	350 U		
2,4-DIMETHYLPHENOL	UG/KG	380 U	920 UR	350 U		
BIS(2-CHLOROETHOXY) METHANE	UG/KG	380 U	920 UR	350 U		
2,4-DICHLOROPHENOL	UG/KG	380 U	920 UR	350 U		
1,2,4-TRICHLOROBENZENE	UG/KG	380 U	920 UR	350 U		
NAPHTHALENE	UG/KG	380 U	1500 J	380		
4-CHLORANILINE	UG/KG	380 U	920 UR	350 U		
HEXACHLOROBUTADIENE	UG/KG	380 U	920 UR	350 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB39-04	6-203OSA-SB41-01	6-203OSA-SB41-04	6-203PCB-SB1-03	6-203PCB-SB10-03	6-203PCB-SB11-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/12/92	10/12/92	10/12/92	9/2/92	8/31/92	9/1/92
Lab Id:	00573-05	00573-07	00573-08	00484-05	00473-08	00485-39
Letter	Units					
SEMIVOLATILES Cont.						
ILORO-3-METHYLPHENOL	UG/KG	380 U	920 UR	350 U		
ETHYLNAPHTHALENE	UG/KG	380 U	2400 J	70 J		
ACHLOROCYCLOPENTADIENE	UG/KG	380 U	920 UR	350 U		
TRICHLOROPHENOL	UG/KG	380 U	920 UR	350 U		
TRICHLOROPHENOL	UG/KG	930 U	2200 UR	860 U		
ILORONAPHTHALENE	UG/KG	380 U	920 UR	350 U		
TROANILINE	UG/KG	930 UJ	2200 UR	860 U		
ETHYL PHTHALATE	UG/KG	380 U	920 UR	350 U		
NAPHTHYLENE	UG/KG	380 U	920 UR	350 U		
DINITROTOLUENE	UG/KG	380 U	920 UR	350 U		
TROANILINE	UG/KG	930 U	2200 UR	860 U		
NAPHTHENE	UG/KG	380 U	7700 J	350 U		
DINITROPHENOL	UG/KG	930 U	2200 UR	860 U		
4-NITROPHENOL	UG/KG	930 U	2200 UR	860 U		
DIBENZOFURAN	UG/KG	380 U	920 J	350 U		
2,4-DINITROTOLUENE	UG/KG	380 U	920 UR	350 U		
DIETHYL PHTHALATE	UG/KG	380 U	920 UR	350 U		
4-CHLOROPHENYL PHENYL ETHER	UG/KG	380 U	920 UR	350 U		
FLUORENE	UG/KG	380 U	810 J	350 U		
4-NITROANILINE	UG/KG	930 U	2200 UR	860 U		
4,6-DINITRO-2-METHYLPHENOL	UG/KG	930 U	2200 UR	860 U		
N-NITRISODIPHENYLAMINE	UG/KG	380 U	920 UR	350 U		
4-BROMOPHENYL PHENYL ETHER	UG/KG	380 U	920 UR	350 U		
HEXACHLOROENZENE	UG/KG	380 U	920 UR	350 U		
PENTACHLOROPHENOL	UG/KG	930 U	2200 UR	860 U		
PHENANTHRENE	UG/KG	380 U	920 UR	350 U		
ANTHRACENE	UG/KG	380 U	920 UR	350 U		
DI-N-BUTYL PHTHALATE	UG/KG	380 U	920 UR	350 U		
FLUORANTHENE	UG/KG	380 U	920 UR	350 U		
CARBAZOLE	UG/KG	380 U	690 J	350 U		
PYRENE	UG/KG	380 UJ	920 UR	350 U		
BUTYL BENZYL PHTHALATE	UG/KG	380 U	920 UR	350 U		
3,3-DICHLOROENZIDINE	UG/KG	380 U	920 UR	350 U		
BENZO(A)ANTHRACENE	UG/KG	380 U	920 UR	350 U		
CHRYSENE	UG/KG	380 U	920 UR	350 U		
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	380 U	920 UR	200 J		
DI-N-OCTYL PHTHALATE	UG/KG	380 U	920 UR	350 U		
BENZO(B)FLUORANTHENE	UG/KG	380 U	920 UR	350 U		
BENZO(K)FLUORANTHENE	UG/KG	380 U	920 UR	350 U		
BENZO(A)PYRENE	UG/KG	380 U	920 UR	350 U		
INDENO(1,2,3-CD) PYRENE	UG/KG	380 U	920 UR	350 U		
DIBENZ(AH)ANTHRACENE	UG/KG	380 U	920 UR	350 U		
BENZO(G,H,I)PERYLENE	UG/KG	380 U	920 UR	350 U		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJBUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB12-03	6-203PCB-SB13-03	6-203PCB-SB14-02	6-203PCB-SB14-04	6-203PCB-SB2-04	6-203PCB-SB3-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/1/92	9/01/92	8/31/92	8/31/92	8/31/92	9/2/92
Lab Id:	00472-06	00473-10	00472-09	00472-10	00472-02	00484-07
meter	Units					
<u>PESTICIDE/PCBS</u>						
PHA-BHC	UG/KG	1.7 UJ		1.8 U	1.8 U	
PA-BHC	UG/KG	1.7 UJ		1.8 U	1.8 U	
LTA-BHC	UG/KG	1.7 UJ		1.8 U	1.8 U	
MMA-BHC(LINDANE)	UG/KG	1.7 UJ		1.8 U	1.8 U	
PTACHLOR	UG/KG	1.7 UJ		1.8 U	1.8 U	
DRIN	UG/KG	1.7 UJ		1.8 U	1.8 U	
PTACHLOR EPOXIDE	UG/KG	1.7 UJ		1.8 U	1.8 U	
DOSULFAN I	UG/KG	1.7 UJ		1.8 U	1.8 U	
BLDRIN	UG/KG	3.3 UJ		3.5 U	3.5 U	
-DDE	UG/KG	3.3 UJ		3.5 U	3.5 U	
DRIN	UG/KG	3.3 UJ		3.5 U	3.5 U	
DOSULFAN II	UG/KG	3.3 UJ		3.5 U	3.5 U	
-DDD	UG/KG	3.3 UJ		3.5 U	3.5 U	
...DOSULFAN SULFATE	UG/KG	3.3 UJ		3.5 U	3.5 U	
4,4'-DDT	UG/KG	3.3 UJ		3.5 U	3.5 U	
METHOXYCHLOR	UG/KG	17 UJ		18 U	18 U	
ENDRIN KETONE	UG/KG	3.3 UJ		3.5 U	3.5 U	
ENDRIN ALDEHYDE	UG/KG	3.3 UJ		3.5 U	3.5 U	
ALPHA CHLORDANE	UG/KG	1.7 UJ		1.8 U	1.8 U	
GAMMA CHLORDANE	UG/KG	1.7 UJ		1.8 U	1.8 U	
TOXAPHENE	UG/KG	170 UJ		180 U	180 U	
PCB-1016	UG/KG	33 UJ	38 UR	35 U	35 U	38 UJ
PCB-1221	UG/KG	68 UJ	77 UR	72 U	71 U	77 UJ
PCB-1232	UG/KG	33 UJ	38 UR	35 U	35 U	38 UJ
PCB-1242	UG/KG	33 UJ	38 UR	35 U	35 U	38 UJ
PCB-1248	UG/KG	33 UJ	38 UR	35 U	35 U	38 UJ
PCB-1254	UG/KG	33 UJ	38 UR	35 U	35 U	38 UJ
PCB-1260	UG/KG	33 UJ	38 UR	35 U	35 U	38 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U		11 U	11 U	
BROMOMETHANE	UG/KG	11 UJ		11 UJ	11 UJ	
VINYL CHLORIDE	UG/KG	11 U		11 U	11 U	
CHLOROETHANE	UG/KG	11 U		11 U	11 U	
METHYLENE CHLORIDE	UG/KG	11 U		11 U	11 U	
ACETONE	UG/KG	11 UJ		11 UJ	11 UJ	
CARBON DISULFIDE	UG/KG	11 U		11 U	11 U	
1,1-DICHLOROETHENE	UG/KG	11 U		11 U	11 U	
1,1-DICHLOROETHANE	UG/KG	11 U		11 U	11 U	
1,2-DICHLOROETHENE	UG/KG	11 U		11 U	11 U	
CHLOROFORM	UG/KG	11 U		11 U	11 U	
1,2-DICHLOROETHANE	UG/KG	11 U		11 U	11 U	
2-BUTANONE	UG/KG	11 U		11 U	11 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB12-03	6-203PCB-SB13-03	6-203PCB-SB14-02	6-203PCB-SB14-04	6-203PCB-SB2-04	6-203PCB-SB3-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/1/92	9/01/92	8/31/92	8/31/92	8/31/92	9/2/92
Lab Id:	00472-06	00473-10	00472-09	00472-10	00472-02	00484-07
eter	Units					
<u>VOLATILES Cont.</u>						
TRICHLOROETHANE	UG/KG	11 U		11 U		11 U
ION TETRACHLORIDE	UG/KG	11 U		11 U		11 U
MONOCHLOROMETHANE	UG/KG	11 U		11 U		11 U
DICHLOROPROPANE	UG/KG	11 U		11 U		11 U
1,3-DICHLOROPROPENE	UG/KG	11 U		11 U		11 U
CHLOROETHENE	UG/KG	11 U		11 U		11 U
MONOCHLOROMETHANE	UG/KG	11 U		11 U		11 U
TRICHLOROETHANE	UG/KG	11 U		11 U		11 U
ETHENE	UG/KG	11 U		11 U		11 U
1,3-DICHLOROPROPENE	UG/KG	11 U		11 U		11 U
ACETONE	UG/KG	11 U		11 U		11 U
ETHYL-2-PENTANONE	UG/KG	11 U		11 U		11 U
HEXANONE	UG/KG	11 U		11 U		11 U
DIBROMOETHENE	UG/KG	11 U		11 U		11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U		11 U		11 U
TOLUENE	UG/KG	11 U		11 U		11 U
CHLOROBENZENE	UG/KG	11 U		11 U		11 U
ETHYLBENZENE	UG/KG	11 U		11 U		11 U
STYRENE	UG/KG	11 U		11 U		11 U
TOTAL XYLENES	UG/KG	11 U		11 U		11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	330 U		350 UJ		350 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG	330 U		350 UJ		350 UJ
2-CHLOROPHENOL	UG/KG	330 U		350 UJ		350 UJ
1,3-DICHLOROBENZENE	UG/KG	330 U		350 UJ		350 UJ
1,4-DICHLOROBENZENE	UG/KG	34 J		350 UJ		350 UJ
1,2-DICHLOROBENZENE	UG/KG	330 U		350 UJ		350 UJ
2-METHYLPHENOL	UG/KG	330 U		350 UJ		350 UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 U		350 UJ		350 UJ
4-METHYLPHENOL	UG/KG	330 U		350 UJ		350 UJ
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 U		350 UJ		350 UJ
HEXACHLOROETHANE	UG/KG	330 U		350 UJ		350 UJ
NITROBENZENE	UG/KG	330 U		350 UJ		350 UJ
ISOPHORONE	UG/KG	330 U		350 UJ		350 UJ
2-NITROPHENOL	UG/KG	330 U		350 UJ		350 UJ
2,4-DIMETHYLPHENOL	UG/KG	330 U		350 UJ		350 UJ
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 U		350 UJ		350 UJ
2,4-DICHLOROPHENOL	UG/KG	330 U		350 UJ		350 UJ
1,2,4-TRICHLOROBENZENE	UG/KG	330 U		350 UJ		350 UJ
NAPHTHALENE	UG/KG	330 U		350 UJ		350 UJ
4-CHLORANILINE	UG/KG	330 U		350 UJ		350 UJ
HEXACHLOROBUTADIENE	UG/KG	330 U		350 UJ		350 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB12-03	6-203PCB-SB13-03	6-203PCB-SB14-02	6-203PCB-SB14-04	6-203PCB-SB2-04	6-203PCB-SB3-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/1/92	9/01/92	8/31/92	8/31/92	8/31/92	9/2/92
Lab Id:	00472-06	00473-10	00472-09	00472-10	00472-02	00484-07
meter	Units					
SEMIVOLATILES Cont.						
HLORO-3-METHYLPHENOL	UG/KG	330 U	350 UJ	350 UJ		
ETHYLNAPHTHALENE	UG/KG	330 U	350 UJ	350 UJ		
ACHLOROCYCLOPENTADIENE	UG/KG	330 U	350 UJ	350 UJ		
1-TRICHLOROPHENOL	UG/KG	330 U	350 UJ	350 UJ		
1-TRICHLOROPHENOL	UG/KG	810 U	850 UJ	850 UJ		
HLORONAPHTHALENE	UG/KG	330 U	350 UJ	350 UJ		
ITROANILINE	UG/KG	810 U	850 UJ	850 UJ		
ETHYL PHTHALATE	UG/KG	330 U	350 UJ	350 UJ		
ENAPHTHYLENE	UG/KG	330 U	350 UJ	350 UJ		
DINITROTOLUENE	UG/KG	330 U	350 UJ	350 UJ		
ITROANILINE	UG/KG	810 U	850 UJ	850 UJ		
ENAPHTHENE	UG/KG	330 U	350 UJ	350 UJ		
DINITROPHENOL	UG/KG	810 U	850 UJ	850 UJ		
4-NITROPHENOL	UG/KG	810 U	850 UJ	850 UJ		
DIBENZOFURAN	UG/KG	330 U	350 UJ	350 UJ		
2,4-DINITROTOLUENE	UG/KG	330 U	350 UJ	350 UJ		
DIETHYL PHTHALATE	UG/KG	330 U	350 UJ	350 UJ		
4-CHLOROPHENYL PHENYL ETHER	UG/KG	330 U	350 UJ	350 UJ		
FLUORENE	UG/KG	330 U	350 UJ	350 UJ		
4-NITROANILINE	UG/KG	810 U	850 UJ	850 UJ		
4,6-DINITRO-2-METHYLPHENOL	UG/KG	810 U	850 UJ	850 UJ		
N-NITRISODIPHENYLAMINE	UG/KG	330 U	350 UJ	350 UJ		
4-BROMOPHENYL PHENYL ETHER	UG/KG	330 U	350 UJ	350 UJ		
HEXACHLOROBENZENE	UG/KG	330 U	350 UJ	350 UJ		
PENTACHLOROPHENOL	UG/KG	810 U	850 UJ	850 UJ		
PHENANTHRENE	UG/KG	330 U	350 UJ	350 UJ		
ANTHRACENE	UG/KG	330 U	350 UJ	350 UJ		
DI-N-BUTYL PHTHALATE	UG/KG	330 U	350 UJ	350 UJ		
FLUORANTHENE	UG/KG	330 U	350 UJ	350 UJ		
CARBAZOLE	UG/KG	330 U	350 UJ	350 UJ		
PYRENE	UG/KG	330 U	350 UJ	350 UJ		
BUTYL BENZYL PHTHALATE	UG/KG	330 U	350 UJ	350 UJ		
3,3-DICHLOROBENZIDINE	UG/KG	330 U	350 UJ	350 UJ		
BENZO(A)ANTHRACENE	UG/KG	330 U	350 UJ	350 UJ		
CHRYSENE	UG/KG	330 U	350 UJ	350 UJ		
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	330 U	350 UJ	350 UJ		
DI-N-OCTYL PHTHALATE	UG/KG	330 U	350 UJ	350 UJ		
BENZO(B)FLUORANTHENE	UG/KG	330 U	350 UJ	350 UJ		
BENZO(K)FLUORANTHENE	UG/KG	330 U	350 UJ	350 UJ		
BENZO(A)PYRENE	UG/KG	330 U	350 UJ	350 UJ		
INDENO(1,2,3-CD) PYRENE	UG/KG	330 U	350 UJ	350 UJ		
DIBENZ(A,H)ANTHRACENE	UG/KG	330 U	350 UJ	350 UJ		
BENZO(G,H,I)PERYLENE	UG/KG	330 U	350 UJ	350 UJ		

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB3-03	6-203PCB-SB4-03	6-203PCB-SB5-03	6-203PCB-SB6-03	6-203PCB-SB7-02	6-203PCB-SB7-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	8/31/92	9/1/92	9/01/92	9/2/92	9/2/92
Lab Id:	00484-08	00472-04	00485-31	00473-03	00485-34	00485-35

eter	Units						
<u>PESTICIDE/PCBS</u>							
'A-BHC	UG/KG						
'-BHC	UG/KG						
'A-BHC	UG/KG						
MA-BHC(LINDANE)	UG/KG						
'ACHLOR	UG/KG						
UN	UG/KG						
'ACHLOR EPOXIDE	UG/KG						
OSULFAN I	UG/KG						
DRIN	UG/KG						
ODE	UG/KG						
RIN	UG/KG						
OSULFAN II	UG/KG						
DD	UG/KG						
ENDOSULFAN SULFATE	UG/KG						
4,4'-DDT	UG/KG						
METHOXYCHLOR	UG/KG						
ENDRIN KETONE	UG/KG						
ENDRIN ALDEHYDE	UG/KG						
ALPHA CHLORDANE	UG/KG						
GAMMA CHLORDANE	UG/KG						
TOXAPHENE	UG/KG						
PCB-1016	UG/KG	35 U	36 U	35 U	35 UR	37 UJ	39 U
PCB-1221	UG/KG	71 U	73 U	71 U	71 UR	74 UJ	80 U
PCB-1232	UG/KG	35 U	36 U	35 U	35 UR	37 UJ	39 U
PCB-1242	UG/KG	35 U	36 U	35 U	35 UR	37 UJ	39 U
PCB-1248	UG/KG	35 U	36 U	35 U	35 UR	37 UJ	39 U
PCB-1254	UG/KG	35 U	36 U	35 U	35 UR	37 UJ	39 U
PCB-1260	UG/KG	35 U	36 U	35 U	35 UR	37 UJ	39 U

VOLATILES

CHLOROMETHANE	UG/KG
BROMOMETHANE	UG/KG
VINYL CHLORIDE	UG/KG
CHLOROETHANE	UG/KG
METHYLENE CHLORIDE	UG/KG
ACETONE	UG/KG
CARBON DISULFIDE	UG/KG
1,1-DICHLOROETHENE	UG/KG
1,1-DICHLOROETHANE	UG/KG
1,2-DICHLOROETHENE	UG/KG
CHLOROFORM	UG/KG
1,2-DICHLOROETHANE	UG/KG
2-BUTANONE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB3-03	6-203PCB-SB4-03	6-203PCB-SB5-03	6-203PCB-SB6-03	6-203PCB-SB7-02	6-203PCB-SB7-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	8/31/92	9/1/92	9/01/92	9/2/92	9/2/92
Lab Id:	00484-08	00472-04	00485-31	00473-03	00485-34	00485-35
meter	Units					
<u>VOLATILES Cont.</u>						
-TRICHLOROETHANE	UG/KG					
IBON TETRACHLORIDE	UG/KG					
MODICHLOROMETHANE	UG/KG					
DICHLOROPROPANE	UG/KG					
-1,3-DICHLOROPROPENE	UG/KG					
CHLOROETHENE	UG/KG					
ROMOCHLOROMETHANE	UG/KG					
-TRICHLOROETHANE	UG/KG					
IZENE	UG/KG					
NS-1,3-DICHLOROPROPENE	UG/KG					
MOFORM	UG/KG					
IETHYL-2-PENTANONE	UG/KG					
EXANONE	UG/KG					
TETRACHLOROETHENE	UG/KG					
1,1,2,2-TETRACHLOROETHANE	UG/KG					
TOLUENE	UG/KG					
CHLOROBENZENE	UG/KG					
ETHYLBENZENE	UG/KG					
STYRENE	UG/KG					
TOTAL XYLENES	UG/KG					
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG					
BIS(2-CHLOROETHYL) ETHER	UG/KG					
2-CHLOROPHENOL	UG/KG					
1,3-DICHLOROBENZENE	UG/KG					
1,4-DICHLOROBENZENE	UG/KG					
1,2-DICHLOROBENZENE	UG/KG					
2-METHYLPHENOL	UG/KG					
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG					
4-METHYLPHENOL	UG/KG					
N-NITROSODI-N-PROPYLAMINE	UG/KG					
HEXACHLOROETHANE	UG/KG					
NITROBENZENE	UG/KG					
ISOPHORONE	UG/KG					
2-NITROPHENOL	UG/KG					
2,4-DIMETHYLPHENOL	UG/KG					
BIS(2-CHLOROETHOXY) METHANE	UG/KG					
2,4-DICHLOROPHENOL	UG/KG					
1,2,4-TRICHLOROBENZENE	UG/KG					
NAPHTHALENE	UG/KG					
4-CHLORANILINE	UG/KG					
HEXACHLOROBUTADIENE	UG/KG					

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB3-03	6-203PCB-SB4-03	6-203PCB-SB5-03	6-203PCB-SB6-03	6-203PCB-SB7-02	6-203PCB-SB7-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/2/92	8/31/92	9/1/92	9/01/92	9/2/92	9/2/92
Lab Id:	00484-08	00472-04	00485-31	00473-03	00485-34	00485-35

Parameter	Units
<u>SEMIVOLATILES Cont.</u>	
1-CHLORO-3-METHYLPHENOL	UG/KG
ETHYLNAPHTHALENE	UG/KG
1,4-DICHLOROCYCLOPENTADIENE	UG/KG
1,2,4-TRICHLOROPHENOL	UG/KG
1,2,5-TRICHLOROPHENOL	UG/KG
1-CHLORONAPHTHALENE	UG/KG
4-NITROANILINE	UG/KG
ETHYL PHTHALATE	UG/KG
NAPHTHYLENE	UG/KG
DINITROTOLUENE	UG/KG
4-NITROANILINE	UG/KG
NAPHTHENE	UG/KG
DINITROPHENOL	UG/KG
4-NITROPHENOL	UG/KG
DIBENZOFURAN	UG/KG
2,4-DINITROTOLUENE	UG/KG
DIETHYL PHTHALATE	UG/KG
4-CHLOROPHENYL PHENYL ETHER	UG/KG
FLUORENE	UG/KG
4-NITROANILINE	UG/KG
4,6-DINITRO-2-METHYLPHENOL	UG/KG
N-NITRISODIPHENYLAMINE	UG/KG
4-BROMOPHENYL PHENYL ETHER	UG/KG
HEXACHLOROBENZENE	UG/KG
PENTACHLOROPHENOL	UG/KG
PHENANTHRENE	UG/KG
ANTHRACENE	UG/KG
DI-N-BUTYL PHTHALATE	UG/KG
FLUORANTHENE	UG/KG
CARBAZOLE	UG/KG
PYRENE	UG/KG
BUTYL BENZYL PHTHALATE	UG/KG
3,3-DICHLOROBENZIDINE	UG/KG
BENZO(A)ANTHRACENE	UG/KG
CHRYSENE	UG/KG
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG
DI-N-OCTYL PHTHALATE	UG/KG
BENZO(B)FLUORANTHENE	UG/KG
BENZO(K)FLUORANTHENE	UG/KG
BENZO(A)PYRENE	UG/KG
INDENO(1,2,3-CD) PYRENE	UG/KG
DIBENZ(A,H)ANTHRACENE	UG/KG
BENZO(G,H,I)PERYLENE	UG/KG

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB8-03	6-203PCB-SB9-02	6-GW11-01	6-GW11-02	6-GW15-02	6-GW15-03	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/1/92	9/01/92	10/10/92	10/10/92	10/11/92	10/11/92	
Lab Id:	00485-37	00473-05	00570-15	00570-16	00570-17	00570-18	
meter	Units						
PESTICIDE/PCBS							
PHA-BHC	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
PA-BHC	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
LTA-BHC	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
MMA-BHC(LINDANE)	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
PTACHLOR	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
DRIN	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
PTACHLOR EPOXIDE	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
DOSULFAN I	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
DELDRIN	UG/KG		3.8 U	3.6 U	3.4 UJ	3.9 U	
-DDE	UG/KG		3.8 U	3.6 U	3.4 UJ	3.9 U	
DRIN	UG/KG		3.8 U	3.6 U	3.4 UJ	3.9 U	
DOSULFAN II	UG/KG		3.8 U	3.6 U	3.4 UJ	3.9 U	
-DDD	UG/KG		3.8 U	3.6 U	3.4 UJ	3.9 U	
ENDOSULFAN SULFATE	UG/KG		3.8 U	3.6 U	3.4 UJ	3.9 U	
4,4'-DDT	UG/KG		3.6 J	3.6 U	3.4 UJ	3.9 U	
METHOXYCHLOR	UG/KG		19 U	18 U	18 UJ	20 U	
ENDRIN KETONE	UG/KG		3.8 U	3.6 U	3.4 UJ	3.9 U	
ENDRIN ALDEHYDE	UG/KG		3.8 U	3.6 U	3.4 UJ	3.9 U	
ALPHA CHLORDANE	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
GAMMA CHLORDANE	UG/KG		1.9 U	1.8 U	1.8 UJ	2 U	
TOXAPHENE	UG/KG		190 U	180 U	180 UJ	200 U	
PCB-1016	UG/KG	38 U	37 UJ	38 U	36 U	34 UJ	39 U
PCB-1221	UG/KG	76 U	75 UJ	76 U	73 U	70 UJ	80 U
PCB-1232	UG/KG	38 U	37 UJ	38 U	36 U	34 UJ	39 U
PCB-1242	UG/KG	38 U	37 UJ	38 U	36 U	34 UJ	39 U
PCB-1248	UG/KG	38 U	37 UJ	38 U	36 U	34 UJ	39 U
PCB-1254	UG/KG	38 U	37 UJ	38 U	36 U	34 UJ	39 U
PCB-1260	UG/KG	38 U	37 UJ	38 U	36 U	34 UJ	39 U
VOLATILES							
CHLOROMETHANE	UG/KG		12 U	11 U	11 U	12 UJ	
BROMOMETHANE	UG/KG		12 U	11 U	11 U	12 U	
VINYL CHLORIDE	UG/KG		12 U	11 U	11 U	12 U	
CHLOROETHANE	UG/KG		12 U	11 U	11 U	12 U	
METHYLENE CHLORIDE	UG/KG		12 U	11 U	11 U	12 U	
ACETONE	UG/KG		12 U	11 U	21	12 UJ	
CARBON DISULFIDE	UG/KG		12 U	11 U	11 U	12 U	
1,1-DICHLOROETHENE	UG/KG		12 U	11 U	11 U	12 U	
1,1-DICHLOROETHANE	UG/KG		12 U	11 U	11 U	12 U	
1,2-DICHLOROETHENE	UG/KG		12 U	11 U	11 U	12 U	
CHLOROFORM	UG/KG		12 U	11 U	11 U	12 U	
1,2-DICHLOROETHANE	UG/KG		12 U	11 U	11 U	12 U	
2-BUTANONE	UG/KG		12 U	11 U	11 U	12 U	

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203PCB-SB8-03	6-203PCB-SB9-02	6-GW11-01	6-GW11-02	6-GW15-02	6-GW15-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/1/92	9/01/92	10/10/92	10/10/92	10/11/92	10/11/92
Lab Id:	00485-37	00473-05	00570-15	00570-16	00570-17	00570-18
Parameter	Units					
<u>VOLATILES Cont.</u>						
TRICHLOROETHANE	UG/KG		12 U	11 U	11 U	12 U
PERFLUORON TETRACHLORIDE	UG/KG		12 U	11 U	11 U	12 U
MONOCHLOROMETHANE	UG/KG		12 U	11 U	11 U	12 U
DICHLOROPROPANE	UG/KG		12 U	11 U	11 U	12 U
1,3-DICHLOROPROPENE	UG/KG		12 U	11 U	11 U	12 U
PERFLUOROETHENE	UG/KG		12 U	11 U	11 U	12 U
PERFLUOROMETHANE	UG/KG		12 U	11 U	11 U	12 U
PERFLUOROTRICHOROETHANE	UG/KG		12 U	11 U	11 U	12 U
PERFLUOROLENE	UG/KG		12 U	11 U	11 U	12 U
PERFLUOROS-1,3-DICHLOROPROPENE	UG/KG		12 U	11 U	11 U	12 U
PERFLUOROMOFORM	UG/KG		12 U	11 U	11 U	12 U
PERFLUORETHYL-2-PENTANONE	UG/KG		12 U	11 U	11 U	12 U
PERFLUOROXANONE	UG/KG		12 U	11 U	11 U	12 U
TETRACHLOROETHENE	UG/KG		12 U	11 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG		12 U	11 U	11 U	12 U
TOLUENE	UG/KG		12 U	11 U	11 U	12 U
CHLOROBENZENE	UG/KG		12 U	11 U	11 U	12 U
ETHYLBENZENE	UG/KG		12 U	11 U	11 U	12 U
STYRENE	UG/KG		12 U	11 U	11 U	12 U
TOTAL XYLENES	UG/KG		12 U	11 U	11 U	12 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG		380 U	340 UR	340 U	390 U
BIS(2-CHLOROETHYL) ETHER	UG/KG		380 U	340 UR	340 U	390 U
2-CHLOROPHENOL	UG/KG		380 U	340 UR	340 U	390 U
1,3-DICHLOROBENZENE	UG/KG		380 U	340 UR	340 U	390 U
1,4-DICHLOROBENZENE	UG/KG		380 U	340 UR	340 U	390 U
1,2-DICHLOROBENZENE	UG/KG		380 U	340 UR	340 U	390 U
2-METHYLPHENOL	UG/KG		380 U	340 UR	340 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG		380 U	340 UR	340 U	390 U
4-METHYLPHENOL	UG/KG		380 U	340 UR	340 U	390 U
N-NITROSODI-N-PROPYLAMINE	UG/KG		380 U	340 UR	340 U	390 U
HEXACHLOROETHANE	UG/KG		380 U	340 UR	340 U	390 U
NITROBENZENE	UG/KG		380 U	340 UR	340 U	390 U
ISOPHORONE	UG/KG		380 U	340 UR	340 U	390 U
2-NITROPHENOL	UG/KG		380 U	340 UR	340 U	390 U
2,4-DIMETHYLPHENOL	UG/KG		380 U	340 UR	340 U	390 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG		380 U	340 UR	340 U	390 U
2,4-DICHLOROPHENOL	UG/KG		380 U	340 UR	340 U	390 U
1,2,4-TRICHLOROBENZENE	UG/KG		380 U	340 UR	340 U	390 U
NAPHTHALENE	UG/KG		78 J	340 UR	340 U	390 U
4-CHLORANILINE	UG/KG		380 U	340 UR	340 U	390 U
HEXACHLOROBUTADIENE	UG/KG		380 U	340 UR	340 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-203PCB-SB8-03	6-203PCB-SB9-02	6-GW11-01	6-GW11-02	6-GW15-02	6-GW15-03
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/1/92	9/01/92	10/10/92	10/10/92	10/11/92	10/11/92
	Lab Id:	00485-37	00473-05	00570-15	00570-16	00570-17	00570-18
meter	Units						
SEMIVOLATILES Cont.							
CHLORO-3-METHYLPHENOL	UG/KG			380 U	340 UR	340 U	390 U
METHYLNAPHTHALENE	UG/KG			160 J	340 UR	340 U	390 U
KACHLOROCYCLOPENTADIENE	UG/KG			380 U	340 UR	340 U	390 U
1-TRICHLOROPHENOL	UG/KG			380 U	340 UR	340 U	390 U
1-TRICHLOROPHENOL	UG/KG			910 U	820 UR	830 U	950 U
CHLORONAPHTHALENE	UG/KG			380 U	340 UR	340 U	390 U
NITROANILINE	UG/KG			910 U	820 UR	830 U	950 U
METHYL PHTHALATE	UG/KG			380 U	340 UR	340 U	390 U
1-NAPHTHYLENE	UG/KG			380 U	340 UR	340 U	390 U
1-DINITROTOLUENE	UG/KG			380 U	340 UR	340 U	390 U
NITROANILINE	UG/KG			910 U	820 UR	830 U	950 U
1-NAPHTHENE	UG/KG			380 U	340 UR	340 U	390 U
1-DINITROPHENOL	UG/KG			910 UJ	820 UR	830 UJ	950 UJ
4-NITROPHENOL	UG/KG			910 U	820 UR	830 U	950 U
DIBENZOFURAN	UG/KG			63 J	340 UR	340 U	390 U
2,4-DINITROTOLUENE	UG/KG			380 U	340 UR	340 U	390 U
DIETHYL PHTHALATE	UG/KG			380 U	340 UR	340 U	390 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG			380 U	340 UR	340 U	390 U
FLUORENE	UG/KG			380 U	340 UR	340 U	390 U
4-NITROANILINE	UG/KG			910 U	820 UR	830 U	950 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG			910 U	820 UR	830 U	950 U
N-NITRISODIPHENYLAMINE	UG/KG			380 U	340 UR	340 U	390 U
4-BROMOPHENYL PHENYL ETHER	UG/KG			380 U	340 UR	340 U	390 U
HEXACHLOROBENZENE	UG/KG			380 U	340 UR	340 U	390 U
PENTACHLOROPHENOL	UG/KG			910 UJ	820 UR	830 UJ	950 UJ
PHENANTHRENE	UG/KG			120 J	340 UR	340 U	390 U
ANTHRACENE	UG/KG			380 U	340 UR	340 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG			380 U	340 UR	340 U	390 U
FLUORANTHENE	UG/KG			380 U	340 UR	340 U	390 U
CARBAZOLE	UG/KG			380 U	340 UR	340 U	390 U
PYRENE	UG/KG			380 U	340 UR	340 U	390 U
BUTYL BENZYL PHTHALATE	UG/KG			380 U	340 UR	340 U	390 U
3,3-DICHLOROBENZIDINE	UG/KG			380 U	340 UR	340 U	390 U
BENZO(A)ANTHRACENE	UG/KG			380 U	340 UR	340 U	390 U
CHRYSENE	UG/KG			380 U	340 UR	340 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG			380 U	340 UR	340 U	390 U
DI-N-OCTYL PHTHALATE	UG/KG			380 U	340 UR	340 U	390 U
BENZO(B)FLUORANTHENE	UG/KG			380 UJ	340 UR	340 UJ	390 UJ
BENZO(K)FLUORANTHENE	UG/KG			380 U	340 UR	340 U	390 U
BENZO(A)PYRENE	UG/KG			380 U	340 UR	340 U	390 U
INDENO(1,2,3-CD) PYRENE	UG/KG			380 U	340 UR	340 U	390 U
DIBENZ(A,H)ANTHRACENE	UG/KG			380 U	340 UR	340 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG			380 U	340 UR	340 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW23-02	6-GW23-04
Depth:	N/A	N/A
Date Sampled:	10/12/92	10/12/92
Lab Id:	00570-32	00570-33

Parameter	Units	6-GW23-02	6-GW23-04
<u>PESTICIDE/PCBS</u>			
IA-BHC	UG/KG	2 U	2.2 U
1-BHC	UG/KG	2 U	2.2 U
VA-BHC	UG/KG	2 U	2.2 U
MA-BHC(LINDANE)	UG/KG	2 U	2.2 U
ACHLOR	UG/KG	2 U	2.2 U
RIN	UG/KG	2 U	2.2 U
ACHLOR EPOXIDE	UG/KG	2 U	2.2 U
OSULFAN I	UG/KG	2 U	2.2 U
DRIN	UG/KG	4 U	4.3 U
DDE	UG/KG	4 U	4.3 U
RIN	UG/KG	4 U	4.3 U
OSULFAN II	UG/KG	4 U	4.3 U
DDD	UG/KG	4 U	4.3 U
ENDOSULFAN SULFATE	UG/KG	4 U	4.3 U
4,4'-DDT	UG/KG	4 U	4.3 U
METHOXYCHLOR	UG/KG	20 U	22 U
ENDRIN KETONE	UG/KG	4 U	4.3 U
ENDRIN ALDEHYDE	UG/KG	4 U	4.3 U
ALPHA CHLORDANE	UG/KG	2 U	2.2 U
GAMMA CHLORDANE	UG/KG	2 U	2.2 U
TOXAPHENE	UG/KG	200 U	220 U
PCB-1016	UG/KG	40 U	43 U
PCB-1221	UG/KG	81 U	87 U
PCB-1232	UG/KG	40 U	43 U
PCB-1242	UG/KG	40 U	43 U
PCB-1248	UG/KG	40 U	43 U
PCB-1254	UG/KG	40 U	43 U
PCB-1260	UG/KG	40 U	43 U
<u>VOLATILES</u>			
CHLOROMETHANE	UG/KG	12 U	13 UJ
BROMOMETHANE	UG/KG	12 U	13 U
VINYL CHLORIDE	UG/KG	12 U	13 U
CHLOROETHANE	UG/KG	12 U	13 U
METHYLENE CHLORIDE	UG/KG	12 U	13 U
ACETONE	UG/KG	29	150 J
CARBON DISULFIDE	UG/KG	12 U	13 U
1,1-DICHLOROETHENE	UG/KG	12 U	13 U
1,1-DICHLOROETHANE	UG/KG	12 U	13 U
1,2-DICHLOROETHENE	UG/KG	12 U	13 U
CHLOROFORM	UG/KG	12 U	13 U
1,2-DICHLOROETHANE	UG/KG	12 U	13 U
2-BUTANONE	UG/KG	12 U	13 U

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW23-02	6-GW23-04
Depth:	N/A	N/A
Date Sampled:	10/12/92	10/12/92
Lab Id:	00570-32	00570-33

Parameter	Units	6-GW23-02	6-GW23-04
<u>VOLATILES Cont.</u>			
1-TRICHLOROETHANE	UG/KG	12 U	13 U
PERFLUOROBON TETRACHLORIDE	UG/KG	12 U	13 U
PERFLUORODIMODICHLOROMETHANE	UG/KG	12 U	13 U
PERFLUORODICHLOROPROPANE	UG/KG	12 U	13 U
PERFLUORO-1,3-DICHLOROPROPENE	UG/KG	12 U	13 U
PERFLUOROCYCLOHEXANE	UG/KG	12 U	13 U
PERFLUOROBROMOCHLOROMETHANE	UG/KG	12 U	13 U
2-TRICHLOROETHANE	UG/KG	12 U	13 U
PERFLUOROBENZENE	UG/KG	12 U	13 U
PERFLUOROBENZENE-1,3-DICHLOROPROPENE	UG/KG	12 U	13 U
PERFLUORODIMETHYLFORM	UG/KG	12 U	13 U
PERFLUOROMETHYL-2-PENTANONE	UG/KG	12 U	13 U
PERFLUOROHXANONE	UG/KG	12 U	13 U
PERFLUOROTRACHLOROETHENE	UG/KG	12 U	13 U
1,1,1,2-TETRACHLOROETHANE	UG/KG	12 U	13 U
TOLUENE	UG/KG	12 U	13 U
CHLOROBENZENE	UG/KG	12 U	13 U
ETHYLBENZENE	UG/KG	12 U	13 U
STYRENE	UG/KG	12 U	13 U
TOTAL XYLENES	UG/KG	12 U	13 U
<u>SEMIVOLATILES</u>			
PHENOL	UG/KG	400 U	420 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	400 U	420 U
2-CHLOROPHENOL	UG/KG	400 U	420 U
1,3-DICHLOROBENZENE	UG/KG	400 U	420 U
1,4-DICHLOROBENZENE	UG/KG	400 U	420 U
1,2-DICHLOROBENZENE	UG/KG	400 U	420 U
2-METHYLPHENOL	UG/KG	400 U	420 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	400 U	420 U
4-METHYLPHENOL	UG/KG	400 U	420 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	400 U	420 U
HEXACHLOROETHANE	UG/KG	400 U	420 U
NITROBENZENE	UG/KG	400 U	420 U
ISOPHORONE	UG/KG	400 U	420 U
2-NITROPHENOL	UG/KG	400 U	420 U
2,4-DIMETHYLPHENOL	UG/KG	400 U	420 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	400 U	420 U
2,4-DICHLOROPHENOL	UG/KG	400 U	420 U
1,2,4-TRICHLOROBENZENE	UG/KG	400 U	420 U
NAPHTHALENE	UG/KG	400 U	420 U
4-CHLORANILINE	UG/KG	400 U	420 U
HEXACHLOROBUTADIENE	UG/KG	400 U	420 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW23-02	6-GW23-04
Depth:	N/A	N/A
Date Sampled:	10/12/92	10/12/92
Lab Id:	00570-32	00570-33

Compound	Units	6-GW23-02	6-GW23-04
<u>SEMIVOLATILES Cont.</u>			
LORO-3-METHYLPHENOL	UG/KG	400 U	420 U
1-METHYLNAPHTHALENE	UG/KG	400 U	420 U
1,2-DICHLOROCYCLOPENTADIENE	UG/KG	400 U	420 U
TRICHLOROPHENOL	UG/KG	400 U	420 U
TRICHLOROPHENOL	UG/KG	960 U	1000 U
LORONAPHTHALENE	UG/KG	400 U	420 U
1-NITROANILINE	UG/KG	960 U	1000 U
1,2-DICHLOROPHTHALATE	UG/KG	400 U	420 U
1,4-DICHLOROPHTHALENE	UG/KG	400 U	420 U
1-NITROTOLUENE	UG/KG	400 U	420 U
1-NITROANILINE	UG/KG	960 U	1000 U
1-NITROPHENOL	UG/KG	400 U	420 U
1-NITROPHENOL	UG/KG	960 U	1000 U
4-NITROPHENOL	UG/KG	960 U	1000 U
DIBENZOFURAN	UG/KG	400 U	420 U
2,4-DINITROTOLUENE	UG/KG	400 U	420 U
DIETHYL PHTHALATE	UG/KG	400 U	420 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	400 U	420 U
FLUORENE	UG/KG	400 U	420 U
4-NITROANILINE	UG/KG	960 U	1000 U
4,4-DINITRO-2-METHYLPHENOL	UG/KG	960 U	1000 U
N-NITRISODIPHENYLAMINE	UG/KG	400 U	420 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	400 U	420 U
HEXACHLOROBENZENE	UG/KG	400 U	420 U
PENTACHLOROPHENOL	UG/KG	960 U	1000 U
PHENANTHRENE	UG/KG	400 U	420 U
ANTHRACENE	UG/KG	400 U	420 U
DI-N-BUTYL PHTHALATE	UG/KG	400 U	420 U
FLUORANTHENE	UG/KG	400 U	420 U
CARBAZOLE	UG/KG	400 U	420 U
PYRENE	UG/KG	400 U	420 U
BUTYL BENZYL PHTHALATE	UG/KG	400 U	420 U
3,3-DICHLOROBENZIDINE	UG/KG	400 U	420 U
BENZO(A)ANTHRACENE	UG/KG	400 U	420 U
CHRYSENE	UG/KG	400 U	420 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	400 U	420 U
DI-N-OCTYL PHTHALATE	UG/KG	400 U	420 U
BENZO(B)FLUORANTHENE	UG/KG	400 U	420 U
BENZO(K)FLUORANTHENE	UG/KG	400 U	420 U
BENZO(A)PYRENE	UG/KG	400 U	420 U
INDENO(1,2,3-CD) PYRENE	UG/KG	400 U	420 U
DIBENZ(A,H)ANTHRACENE	UG/KG	400 U	420 U
BENZO(G,H,I)PERYLENE	UG/KG	400 U	420 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
meter	Units					
<u>PESTICIDE/PCBS</u>						
HA-BHC	UG/KG	1.7 U	18 U	ND	ND	0/66
A-BHC	UG/KG	1.7 U	18 U	ND	ND	0/66
TA-BHC	UG/KG	1.7 U	18 U	4.9 J	4.9 J	6-203OSA-SB41-01 1/66
MA-BHC(LINDANE)	UG/KG	1.7 U	18 U	ND	ND	0/66
TACHLOR	UG/KG	1.7 U	18 U	ND	ND	0/66
RIN	UG/KG	1.7 U	18 U	4.6 J	4.6 J	6-203DDT-SB2-01 1/66
TACHLOR EPOXIDE	UG/KG	1.7 U	18 U	6.4 J	6.4 J	6-203DDT-SB2-01 1/66
SULFAN I	UG/KG	1.7 U	18 U	ND	ND	0/66
LDRIN	UG/KG	3.2 U	34 UJ	4.4	220 J	6-203OSA-SB22-02 4/66
DDE	UG/KG	3.2 U	34 U	4.9 J	470	6-203OSA-SB30-01 5/66
RIN	UG/KG	3.2 U	34 U	ND	ND	0/66
SULFAN II	UG/KG	3.2 U	34 U	ND	ND	0/66
DDD	UG/KG	3.2 U	34 U	21 J	430 J	6-203OSA-SB28-03 4/66
ENDOSULFAN SULPATE	UG/KG	3.2 U	34 U	ND	ND	0/66
4,4'-DDT	UG/KG	3.2 U	34 UJ	3.6 J	300 J	6-203OSA-SB22-02 6/66
METHOXYCHLOR	UG/KG	17 U	180 UJ	1100 J	1100 J	6-203OSA-SB22-02 1/66
ENDRIN KETONE	UG/KG	3.2 U	34 U	ND	ND	0/66
ENDRIN ALDEHYDE	UG/KG	3.2 U	34 U	ND	ND	0/66
ALPHA CHLORDANE	UG/KG	1.7 U	18 U	ND	ND	0/66
GAMMA CHLORDANE	UG/KG	1.7 U	18 UJ	140 J	140 J	6-203OSA-SB22-02 1/66
TOXAPHENE	UG/KG	170 U	1800 U	ND	ND	0/66
PCB-1016	UG/KG	33 U	340 U	ND	ND	0/49
PCB-1221	UG/KG	67 U	700 U	ND	ND	0/49
PCB-1232	UG/KG	33 U	340 U	ND	ND	0/49
PCB-1242	UG/KG	33 U	340 U	ND	ND	0/49
PCB-1248	UG/KG	33 U	340 U	ND	ND	0/49
PCB-1254	UG/KG	33 U	340 U	ND	ND	0/49
PCB-1260	UG/KG	33 U	340 UJ	20 J	29000 J	6-203OSA-SB22-02 3/49
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	10 U	14 U	ND	ND	0/35
BROMOMETHANE	UG/KG	10 U	14 U	ND	ND	0/35
VINYL CHLORIDE	UG/KG	10 UJ	14 U	ND	ND	0/35
CHLOROETHANE	UG/KG	10 U	14 U	ND	ND	0/35
METHYLENE CHLORIDE	UG/KG	10 U	14 U	ND	ND	0/35
ACETONE	UG/KG	11 U	31 U	6 J	150 J	6-GW23-04 7/35
CARBON DISULFIDE	UG/KG	10 U	14 U	ND	ND	0/35
1,1-DICHLOROETHENE	UG/KG	10 U	14 U	ND	ND	0/35
1,1-DICHLOROETHANE	UG/KG	10 U	14 U	ND	ND	0/35
1,2-DICHLOROETHENE	UG/KG	10 U	14 U	ND	ND	0/35
CHLOROFORM	UG/KG	10 UJ	14 U	ND	ND	0/35
1,2-DICHLOROETHANE	UG/KG	10 U	14 U	ND	ND	0/35
2-BUTANONE	UG/KG	10 U	14 U	ND	ND	0/35

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
eter	Units					
<u>VOLATILES Cont.</u>						
TRICHLOROETHANE	UG/KG	10 U	14 U	ND	ND	0/35
MON TETRACHLORIDE	UG/KG	10 U	14 U	ND	ND	0/35
DODICHLOROMETHANE	UG/KG	10 U	14 U	ND	ND	0/35
ICHLOROPROPANE	UG/KG	10 U	14 U	ND	ND	0/35
1,3-DICHLOROPROPENE	UG/KG	10 U	14 U	ND	ND	0/35
CHLOROETHENE	UG/KG	10 U	14 U	ND	ND	0/35
MONOCHLOROMETHANE	UG/KG	10 U	14 U	ND	ND	0/35
TRICHLOROETHANE	UG/KG	10 U	14 U	ND	ND	0/35
ENE	UG/KG	10 U	14 U	ND	ND	0/35
IS-1,3-DICHLOROPROPENE	UG/KG	10 U	14 U	ND	ND	0/35
MOFORM	UG/KG	10 U	14 U	ND	ND	0/35
ETHYL-2-PENTANONE	UG/KG	10 U	14 U	ND	ND	0/35
OXANONE	UG/KG	10 U	14 U	ND	ND	0/35
ACHLOROETHENE	UG/KG	10 U	14 U	ND	ND	0/35
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	14 U	ND	ND	0/35
TOLUENE	UG/KG	10 U	14 U	ND	ND	0/35
CHLOROBENZENE	UG/KG	10 U	14 U	ND	ND	0/35
ETHYLBENZENE	UG/KG	10 U	14 U	ND	ND	0/35
STYRENE	UG/KG	10 U	14 U	ND	ND	0/35
TOTAL XYLENES	UG/KG	10 U	14 U	ND	ND	0/35
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	330 U	1000 U	ND	ND	0/35
BIS(2-CHLOROETHYL) ETHER	UG/KG	330 U	1000 U	ND	ND	0/35
2-CHLOROPHENOL	UG/KG	330 U	1000 U	ND	ND	0/35
1,3-DICHLOROBENZENE	UG/KG	330 U	1000 U	ND	ND	0/35
1,4-DICHLOROBENZENE	UG/KG	340 U	1000 U	34 J	34 J	6-203PCB-SB12-03
1,2-DICHLOROBENZENE	UG/KG	330 U	1000 U	200 J	200 J	6-203OSA-SB41-01
2-METHYLPHENOL	UG/KG	330 U	1000 U	ND	ND	0/35
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 U	1000 U	ND	ND	0/35
4-METHYLPHENOL	UG/KG	330 U	1000 U	ND	ND	0/35
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 U	1000 U	ND	ND	0/35
HEXACHLOROETHANE	UG/KG	330 U	1000 U	ND	ND	0/35
NITROBENZENE	UG/KG	330 U	1000 U	ND	ND	0/35
ISOPHORONE	UG/KG	330 U	1000 U	ND	ND	0/35
2-NITROPHENOL	UG/KG	330 U	1000 U	ND	ND	0/35
2,4-DIMETHYLPHENOL	UG/KG	330 U	1000 U	ND	ND	0/35
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 U	1000 U	ND	ND	0/35
2,4-DICHLOROPHENOL	UG/KG	330 U	1000 U	ND	ND	0/35
1,2,4-TRICHLOROBENZENE	UG/KG	330 U	1000 U	ND	ND	0/35
NAPHTHALENE	UG/KG	330 U	1000 U	78 J	1500 J	6-203OSA-SB41-01
4-CHLORANILINE	UG/KG	330 U	1000 U	ND	ND	0/35
HEXACHLOROBTADIENE	UG/KG	330 U	1000 U	ND	ND	0/35

SITE 6 LOT 203 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	330 U	1000 U	ND	ND		0/35
2-METHYLNAPHTHALENE	UG/KG	330 U	420 U	70 J	2400 J	6-203OSA-SB41-01	4/35
HEXACHLOROCYCLOPENTADIENE	UG/KG	330 U	1000 U	ND	ND		0/35
2,4,6-TRICHLOROPHENOL	UG/KG	330 U	1000 U	ND	ND		0/35
2,4,5-TRICHLOROPHENOL	UG/KG	810 U	2500 U	ND	ND		0/35
2-CHLORONAPHTHALENE	UG/KG	330 U	1000 U	ND	ND		0/35
2-NITROANILINE	UG/KG	810 U	2500 U	ND	ND		0/35
DIMETHYL PHTHALATE	UG/KG	330 U	1000 U	ND	ND		0/35
ACENAPHTHYLENE	UG/KG	330 U	1000 U	ND	ND		0/35
2,6-DINITROTOLUENE	UG/KG	330 U	1000 U	ND	ND		0/35
3-NITROANILINE	UG/KG	810 U	2500 U	ND	ND		0/35
ACENAPHTHENE	UG/KG	330 U	420 U	3200	7700 J	6-203OSA-SB41-01	2/35
2,4-DINITROPHENOL	UG/KG	810 U	2500 U	ND	ND		0/35
4-NITROPHENOL	UG/KG	810 U	2500 U	ND	ND		0/35
DIBENZOFURAN	UG/KG	330 U	420 U	63 J	3500	6-203OSA-SB22-02	3/35
2,4-DINITROTOLUENE	UG/KG	330 U	1000 U	ND	ND		0/35
DIETHYL PHTHALATE	UG/KG	330 U	1000 U	ND	ND		0/35
4-CHLOROPHENYL PHENYL ETHER	UG/KG	330 U	1000 U	ND	ND		0/35
FLUORENE	UG/KG	330 U	420 U	810 J	5100	6-203OSA-SB22-02	2/35
4-NITROANILINE	UG/KG	810 U	2500 U	ND	ND		0/35
4,6-DINITRO-2-METHYLPHENOL	UG/KG	810 U	2500 U	ND	ND		0/35
N-NITROSODIPHENYLAMINE	UG/KG	330 U	1000 U	ND	ND		0/35
4-BROMOPHENYL PHENYL ETHER	UG/KG	330 U	1000 U	ND	ND		0/35
HEXACHLOROBENZENE	UG/KG	330 U	1000 U	ND	ND		0/35
PENTACHLOROPHENOL	UG/KG	810 U	2500 U	ND	ND		0/35
PHENANTHRENE	UG/KG	330 U	920 UR	120 J	8700	6-203OSA-SB22-02	2/35
ANTHRACENE	UG/KG	330 U	920 UR	5700	5700	6-203OSA-SB22-02	1/35
DI-N-BUTYL PHTHALATE	UG/KG	330 U	1000 U	ND	ND		0/35
FLUORANTHENE	UG/KG	330 U	920 UR	5000	5000	6-203OSA-SB22-02	1/35
CARBAZOLE	UG/KG	330 U	420 U	690 J	4300	6-203OSA-SB22-02	2/35
PYRENE	UG/KG	330 U	920 UR	3600	3600	6-203OSA-SB22-02	1/35
BUTYL BENZYL PHTHALATE	UG/KG	330 U	1000 U	ND	ND		0/35
3,3-DICHLOROBENZIDINE	UG/KG	330 U	1000 U	ND	ND		0/35
BENZO(A)ANTHRACENE	UG/KG	330 U	920 UR	1000 J	1000 J	6-203OSA-SB22-02	1/35
CHRYSENE	UG/KG	330 U	920 UR	1000 J	1000 J	6-203OSA-SB22-02	1/35
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	330 U	1000 U	77 J	240 J	6-203DDT-SB10-01	6/35
DI-N-OCTYL PHTHALATE	UG/KG	330 U	1000 U	ND	ND		0/35
BENZO(B)FLUORANTHENE	UG/KG	330 U	920 UR	500 J	500 J	6-203OSA-SB22-02	1/35
BENZO(K)FLUORANTHENE	UG/KG	330 U	920 UR	170 J	170 J	6-203OSA-SB22-02	1/35
BENZO(A)PYRENE	UG/KG	330 U	920 UR	210 J	210 J	6-203OSA-SB22-02	1/35
INDENO(1,2,3-CD) PYRENE	UG/KG	330 U	1000 U	ND	ND		0/35
DIBENZ(A,H)ANTHRACENE	UG/KG	330 U	1000 U	ND	ND		0/35
BENZO(G,H,I)PERYLENE	UG/KG	330 U	1000 U	ND	ND		0/35

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203DDT-SB10-01	6-203DDT-SB24-02	6-203DDT-SB24-03	6-203DDT-SB26-04	6-203DDT-SB8-01	6-203OSA-SB21-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/9/92	9/10/92	9/10/92	9/10/92	9/9/92	8/30/92
	Lab Id:	00496-15	00502-21	00502-22	00502-25	00496-04	00467-02
Parameter	Units						
ALUMINUM	MG/KG	2750	3700	1710	5330	3680	3900
ANTIMONY	MG/KG	3 U	2.9 UJ	2.8 UJ	3.4 UJ	2.6 U	9.2 UJ
ARSENIC	MG/KG	1.1 JB	0.54 UJ	0.67 UJ	0.57 UJ	0.78 JB	1.4 B
BARIUM	MG/KG	8.9 B	5.8 JB	4.2 U	7.2 JB	5.8 B	5.6 B
BERYLLIUM	MG/KG	0.06 U	0.06 UJ	0.06 UJ	0.1 B	0.06 U	0.19 U
CADMIUM	MG/KG	0.41 U	0.62 JB	0.6 U	0.72 U	0.65 JB	0.56 U
CALCIUM	MG/KG	75.5 U	63.3 JB	40.3 UJ	109 JB	330 B	314 B
CHROMIUM	MG/KG	3.4	4.1	1.7 B	4.1	3.7	4.9 J
COBALT	MG/KG	0.43 U	1.4 UJ	2 UJ	1.9 UJ	0.53 JB	1.1 U
COPPER	MG/KG	0.53 UJ	0.83 UJ	1 UJ	1.4 UJ	0.85 UJ	0.79 UJ
IRON	MG/KG	1090	1180	401	1080	665	2170
LEAD	MG/KG	2.4	2.7	2.6	3.7	2.9	3
MAGNESIUM	MG/KG	99.4 B	101 B	54.2 B	144 B	61.3 B	103 B
MANGANESE	MG/KG	2.2 B	1.4 JB	1.2 JB	2.2 JB	1.9 B	2.1 UJ
MERCURY	MG/KG	0.1 U	0.02 U	0.02 U	0.03 U	0.11 U	0.09 U
NICKEL	MG/KG	1.7 U	3.5 U	4.6 UJ	4.6 JB	1.5 JB	3.2 U
POTASSIUM	MG/KG	115 B	103 JB	78.2 JB	121 JB	81.6 B	131 B
SELENIUM	MG/KG	1.1 U	0.9 UJ	1.1 UJ	0.95 U	0.85 U	1 UJ
SILVER	MG/KG	0.43 UJ	2.1 UJ	2 UJ	2.4 UJ	0.37 UJ	1.9 U
SODIUM	MG/KG	31.1 UJ	43.7 JB	16.7 UJ	32.5 JB	43 UJ	21.4 UJ
THALLIUM	MG/KG	0.42 UJ	0.36 U	0.45 U	0.38 U	0.34 UJ	0.41 U
VANADIUM	MG/KG	3.7 JB	5.2 JB	1.4 JB	5.1 JB	3.1 JB	7.8 B
ZINC	MG/KG	1.8 U	9.1	1 U	3.4 U	1.6 U	1.6 B

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-203OSA-SB22-02	6-203OSA-SB23-02	6-203OSA-SB24-01	6-203OSA-SB25-03	6-203OSA-SB26-01	6-203OSA-SB27-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/31/92	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92
Lab Id:	00467-04	00467-06	00467-08	00467-10	00467-12	00467-14

Parameter	Units	6-203OSA-SB22-02	6-203OSA-SB23-02	6-203OSA-SB24-01	6-203OSA-SB25-03	6-203OSA-SB26-01	6-203OSA-SB27-01
ALUMINUM	MG/KG	292	4180	3980	4060	2370	3520
ANTIMONY	MG/KG	8.3 UJ	10.3 UJ	8.7 UJ	9.4 UJ	9.1 UJ	10.3 UJ
ARSENIC	MG/KG	0.57 U	1.2 B	1 B	1 B	0.86 B	1.6 B
BARIUM	MG/KG	3.5 U	7.3 B	5.1 B	4 U	4.9 B	4.4 U
BERYLLIUM	MG/KG	0.17 U	0.21 U	0.18 U	0.19 U	0.19 U	0.21 U
CADMIUM	MG/KG	0.51 U	0.63 U	0.85 UJ	0.65 UJ	0.56 U	0.96 UJ
CALCIUM	MG/KG	67.1 B	565 B	679 B	332 B	579 B	202 B
CHROMIUM	MG/KG	1.2 JB	4.6 J	4.7 J	5.6 J	3.5 J	6 J
COBALT	MG/KG	1 U	1.3 U	1.1 U	1.2 U	1.1 U	1.3 U
COPPER	MG/KG	0.67 U	0.84 U	1.7 UJ	0.9 UJ	0.8 UJ	0.84 U
IRON	MG/KG	1180	1260	2270	585	1080	548
LEAD	MG/KG	5.1	4.4	3.3	3.4	3.3	2.3
MAGNESIUM	MG/KG	9.1 B	130 B	123 B	76.3 B	79.3 B	63.8 B
MANGANESE	MG/KG	1.1 UJ	2.9 JB	7.2 J	1.3 UJ	2.7 JB	1.4 UJ
MERCURY	MG/KG	0.09 U	0.11 U	0.09 U	0.09 U	0.1 U	0.11 U
NICKEL	MG/KG	2.9 U	3.6 U	3 U	3.3 U	3.1 U	3.6 U
POTASSIUM	MG/KG	64.6 U	90.6 B	110 B	105 B	73.3 B	80.9 U
SELENIUM	MG/KG	0.95 UJ	0.85 UJ	0.93 U	0.99 UJ	1.1 UJ	0.96 UJ
SILVER	MG/KG	1.7 U	2.1 U	1.8 U	1.9 U	1.9 U	2.1 U
SODIUM	MG/KG	16.4 UJ	22.3 UJ	21.5 UJ	19.5 UJ	22.8 UJ	18.5 UJ
THALLIUM	MG/KG	0.38 U	0.34 U	0.37 U	0.39 U	0.42 U	0.38 U
VANADIUM	MG/KG	4.1 B	5.2 B	6.8 B	2.8 JB	4.1 B	3.1 JB
ZINC	MG/KG	1.6 B	3.6 B	7.9	1.4 B	1.8 B	2 B

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB28-03	6-203OSA-SB29-02	6-203OSA-SB30-01	6-203OSA-SB31-01	6-203OSA-SB32-02	6-203OSA-SB33-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/30/92	8/30/92	8/30/92	8/31/92	8/30/92
	Lab Id:	00467-16	00467-18	00467-21	00467-23	00467-25	00467-28
Parameter	Units						
ALUMINUM	MG/KG	957	1550	4780	4990	1970 J	3940
ANTIMONY	MG/KG	8.1 UJ	8.2 UJ	9.9 UJ	10.8 UJ	8.9 UJ	9.3 UJ
ARSENIC	MG/KG	0.62 U	0.58 U	3.9 J	0.91 B	0.6 UJ	0.95 B
BARIUM	MG/KG	3.5 U	3.5 U	54.4	6.1 B	3.8 U	7.9 B
BERYLLIUM	MG/KG	0.16 U	0.17 U	0.2 U	0.22 U	0.18 U	0.19 U
CADMIUM	MG/KG	0.49 U	0.5 U	0.92 B	0.66 U	0.54 U	0.57 U
CALCIUM	MG/KG	840	109 B	1020	65 B	20.4 U	1040
CHROMIUM	MG/KG	1.6 JB	1.4 JB	7.2 J	4.4 J	2.1 J	5.2 J
COBALT	MG/KG	0.99 U	1 U	1.2 U	1.3 U	1.1 U	1.1 U
COPPER	MG/KG	0.66 U	0.67 U	187	0.88 U	0.73 U	1.1 UJ
IRON	MG/KG	622	847	2200	632	289 J	1800
LEAD	MG/KG	1.6	1.5	111	4.1	2.5	2.7
MAGNESIUM	MG/KG	46.1 B	35.5 B	112 B	128 B	21.6 B	69.9 B
MANGANESE	MG/KG	3.3 J	1.8 UJ	113	2 B	0.67 B	1.6 UJ
MERCURY	MG/KG	0.1 U	0.1 U	0.97 J	0.09 U	0.1 U	0.1 U
NICKEL	MG/KG	2.8 U	2.9 U	3.4 U	3.7 U	3.1 U	3.2 U
POTASSIUM	MG/KG	63.2 U	64.3 U	88.2 B	132 B	69.5 U	72.6 U
SELENIUM	MG/KG	1 UJ	0.97 U	1.1 UJ	1 UJ	1 UJ	0.9 UJ
SILVER	MG/KG	1.6 U	1.7 U	2 U	2.2 U	1.8 U	1.9 U
SODIUM	MG/KG	15.6 UJ	14.4 UJ	18.5 B	13.5 B	9.1 U	22.6 UJ
THALLIUM	MG/KG	0.41 U	0.39 U	0.46 UJ	0.4 UJ	0.4 UJ	0.36 U
VANADIUM	MG/KG	2.1 JB	2.8 JB	8.1 B	4.1 B	0.99 B	7.3 B
ZINC	MG/KG	3.7	1.4 B	321	1.6 B	0.78 B	2 B

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB34-01	6-203OSA-SB35-02	6-203OSA-SB36-02	6-203OSA-SB37-02	6-203OSA-SB38-01	6-203OSA-SB39-04
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/30/92	8/30/92	8/31/92	10/12/92	10/12/92
	Lab Id:	00467-30	00467-32	00467-34	00467-37	00573-02	00573-05
Parameter	Units						
ALUMINUM	MG/KG	4450	2330	3010	1840	879	1570
ANTIMONY	MG/KG	8.7 UJ	8.2 UJ	9 UJ	9.6 UJ	10.8 U	10 U
ARSENIC	MG/KG	1.2 B	0.49 U	1.3 B	0.63 UJ	0.6 U	0.58 U
BARIUM	MG/KG	21 B	7.6 B	4.3 B	4.1 U	4.6 U	4.3 U
BERYLLIUM	MG/KG	0.18 U	0.17 U	0.18 U	0.2 U	0.22 U	0.2 UJ
CADMIUM	MG/KG	1 UJ	0.7 UJ	0.55 U	0.59 U	0.66 U	0.61 U
CALCIUM	MG/KG	494 B	221 B	20.3 U	196 B	184 B	675 B
CHROMIUM	MG/KG	9.7 J	3.3 J	4.5 J	3.8 J	1.8 U	3.3 U
COBALT	MG/KG	1.1 U	1 U	1.1 U	1.2 U	2 UJ	1.2 UJ
COPPER	MG/KG	4.2 UJ	8.2 J	0.74 U	1.2 B	1.3 UJ	2 UJ
IRON	MG/KG	2800	992	647	419	445	536
LEAD	MG/KG	6.7	27.7 J	2.3	2.9	21.9	1.5
MAGNESIUM	MG/KG	117 B	45.1 B	79 B	30.2 B	34.9 U	49.7 U
MANGANESE	MG/KG	12.5 J	21.9	1.6 UJ	2.7 B	1.1 U	1.6 U
MERCURY	MG/KG	0.09 U	0.1 U	0.1 U	0.09 U	0.02 U	0.02 U
NICKEL	MG/KG	3 U	2.9 U	3.1 U	3.3 U	3.7 U	3.5 U
POTASSIUM	MG/KG	138 B	64.4 U	164 B	75.2 U	87 UJ	132 UJ
SELENIUM	MG/KG	0.95 UJ	0.82 UJ	0.92 UJ	1 U	1 U	0.97 U
SILVER	MG/KG	1.8 U	1.7 U	1.8 U	2 U	2.2 U	2 U
SODIUM	MG/KG	21.7 UJ	18.4 UJ	19.8 UJ	9.8 U	28.8 UJ	37.3 UJ
THALLIUM	MG/KG	0.38 U	0.33 U	0.37 U	0.42 UJ	0.4 UJ	0.39 UJ
VANADIUM	MG/KG	7.9 B	2.8 JB	5.9 B	1.3 B	2.4 UJ	1.8 UJ
ZINC	MG/KG	35	89.8	1.9 B	2.1 B	2.6 U	1.6 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB41-01	6-203OSA-SB41-04	6-203PCB-SB12-03	6-203PCB-SB14-02	6-203PCB-SB14-04	6-GW11-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/12/92	10/12/92	9/01/92	8/31/92	8/31/92	10/10/92
	Lab Id:	00573-07	00573-08	00472-06	00472-09	00472-10	00570-15
Parameter	Units						
ALUMINUM	MG/KG	3880	1690	3140 J	3800 J	2920 J	2600
ANTIMONY	MG/KG	12.1 U	9.6 U	8 U	8.8 U	9.4 U	2.8 U
ARSENIC	MG/KG	23.9	0.59 U	0.51 UJ	0.58 U	0.53 UJ	1.4 JB
BARIUM	MG/KG	103	12.5 B	3.9 B	6 B	4 U	3.1 UJ
BERYLLIUM	MG/KG	2.7 J	0.2 UJ	0.16 U	0.18 U	0.19 U	0.06 B
CADMIUM	MG/KG	5.4	0.59 U	0.49 U	0.54 U	0.58 U	0.37 UJ
CALCIUM	MG/KG	940 B	2560	25.7 U	389 B	265 B	479 B
CHROMIUM	MG/KG	42.9	3.3 U	6.1	5.8	5.5	3.4
COBALT	MG/KG	4.7 UJ	1.8 UJ	0.98 U	1.1 U	1.2 U	0.39 UJ
COPPER	MG/KG	339	2.5 UJ	0.66 JB	0.72 U	4.3 JB	1.2 UJ
IRON	MG/KG	26000	1150	794 J	630 J	505 J	4900
LEAD	MG/KG	35.9	9	2.1	2.2	1.2 U	2.6
MAGNESIUM	MG/KG	226 B	317 B	90.9 B	118 B	146 B	39.3 B
MANGANESE	MG/KG	22	19.2	2.2 JB	4.5 J	2.5 JB	4.3
MERCURY	MG/KG	0.13 B	3	0.05 UJ	0.06 UJ	0.05 UJ	0.02 UJ
NICKEL	MG/KG	20.5	8.6 U	2.8 U	3.1 U	3.3 U	1.6 U
POTASSIUM	MG/KG	708 B	118 UJ	112 B	134 B	99.3 B	32.3 B
SELENIUM	MG/KG	5.7	0.99 U	0.85 UJ	0.86 UJ	0.88 UJ	1 U
SILVER	MG/KG	2.5 U	2 U	1.6 U	1.8 U	1.9 U	0.39 UJ
SODIUM	MG/KG	883 JB	49.7 UJ	18.5 UJ	21.9 UJ	22.3 UJ	17.7 UJ
THALLIUM	MG/KG	0.54 JB	0.4 UJ	0.34 U	0.34 U	0.35 U	0.4 UJ
VANADIUM	MG/KG	15.3 J	3.5 UJ	4.7 B	3.5 JB	2.3 JB	7.1 B
ZINC	MG/KG	330	367	7.5 U	1.9 U	1.6 U	1.6 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW11-02	6-GW15-02	6-GW15-03	6-GW23-02	6-GW23-04
	Depth:	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/10/92	10/11/92	10/11/92	10/12/92	10/12/92
	Lab Id:	00570-16	00570-17	00570-18	00570-32	00570-33
Parameter	Units					
ALUMINUM	MG/KG	5360	338	2740	1690	640
ANTIMONY	MG/KG	2.9 U	2.8 JB	2.8 U	3 U	3 U
ARSENIC	MG/KG	0.84 B	0.57 U	0.62 U	0.63 U	0.62 U
BARIUM	MG/KG	6.2 JB	1.1 UJ	5.6 JB	1.7 UJ	1 UJ
BERYLLIUM	MG/KG	0.08 B	0.06 U	0.06 U	0.06 U	0.07 U
CADMIUM	MG/KG	0.4 UJ	0.38 UJ	0.39 UJ	0.4 UJ	0.41 UJ
CALCIUM	MG/KG	565 B	82.3 U	351 B	44.2 U	18.8 U
CHROMIUM	MG/KG	3.5	1.4 B	3.6	2.1 B	0.78 U
COBALT	MG/KG	0.42 U	0.4 UJ	0.41 UJ	0.43 UJ	0.43 UJ
COPPER	MG/KG	1.3 UJ	0.38 U	0.69 UJ	0.4 U	0.45 JB
IRON	MG/KG	994	627	906	205 U	87.4 U
LEAD	MG/KG	3	1.2	3.2	2.1	1.5
MAGNESIUM	MG/KG	146 B	11.8 U	85.6 B	23.3 B	7.8 U
MANGANESE	MG/KG	2.1 B	1.4 B	1.8 B	0.59 U	0.88 U
MERCURY	MG/KG	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ
NICKEL	MG/KG	2.5 JB	1.6 U	1.6 U	1.7 UJ	1.7 UJ
POTASSIUM	MG/KG	119 B	17 B	103 B	64.9 B	13.9 U
SELENIUM	MG/KG	1 U	0.94 U	1 UJ	1.1 U	1 U
SILVER	MG/KG	0.42 UJ	0.4 UJ	0.41 UJ	0.43 UJ	0.43 UJ
SODIUM	MG/KG	25.2 UJ	19.3 UJ	21.6 UJ	12.3 UJ	17.9 UJ
THALLIUM	MG/KG	0.41 UJ	0.38 UJ	0.41 UJ	0.42 UJ	0.41 UJ
VANADIUM	MG/KG	4.4 B	1.5 B	2.9 B	1 B	0.41 B
ZINC	MG/KG	1.7 U	1.3 U	1.4 U	0.93 U	1.5 U

CLEJ-01272-3.13-08/20/93

SITE 6 LOT 203 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
ALUMINUM	MG/KG	NA	NA	292	5360	6-GW11-02	35/35
ANTIMONY	MG/KG	2.6 U	12.1 U	2.8 JB	2.8 JB	6-GW15-03	1/35
ARSENIC	MG/KG	0.49 U	0.67 UJ	0.78 JB	23.9	6-203OSA-SB41-01	16/35
BARIUM	MG/KG	1 UJ	4.6 U	3.9 B	103	6-203OSA-SB41-01	20/35
BERYLLIUM	MG/KG	0.06 U	0.22 U	0.06 B	2.7 J	6-203OSA-SB41-01	4/35
CADMIUM	MG/KG	0.37 UJ	1 UJ	0.62 JB	5.4	6-203OSA-SB41-01	4/35
CALCIUM	MG/KG	18.8 U	82.3 U	63.3 JB	2560	6-203OSA-SB41-04	27/35
CHROMIUM	MG/KG	0.78 U	3.3 U	1.2 JB	42.9	6-203OSA-SB41-01	31/35
COBALT	MG/KG	0.39 UJ	4.7 UJ	0.53 JB	0.53 JB	6-203DDT-SB8-01	1/35
COPPER	MG/KG	0.38 U	4.2 UJ	0.45 JB	339	6-203OSA-SB41-01	7/35
IRON	MG/KG	87.4 U	205 U	289 J	26000	6-203OSA-SB41-01	33/35
LEAD	MG/KG	1.2 U	1.2 U	1.2	111	6-203OSA-SB30-01	34/35
MAGNESIUM	MG/KG	7.8 U	49.7 U	9.1 B	317 B	6-203OSA-SB41-04	31/35
MANGANESE	MG/KG	0.59 U	2.1 UJ	0.67 B	113	6-203OSA-SB30-01	24/35
MERCURY	MG/KG	0.02 U	0.11 U	0.13 B	3	6-203OSA-SB41-04	3/35
NICKEL	MG/KG	1.6 U	8.6 U	1.5 JB	20.5	6-203OSA-SB41-01	4/35
POTASSIUM	MG/KG	13.9 U	132 UJ	17 B	708 B	6-203OSA-SB41-01	23/35
SELENIUM	MG/KG	0.82 UJ	1.1 U	5.7	5.7	6-203OSA-SB41-01	1/35
SILVER	MG/KG	0.37 UJ	2.5 U	ND	ND		0/35
SODIUM	MG/KG	9.1 U	49.7 UJ	13.5 B	883 JB	6-203OSA-SB41-01	5/35
THALLIUM	MG/KG	0.33 U	0.46 UJ	0.54 JB	0.54 JB	6-203OSA-SB41-01	1/35
VANADIUM	MG/KG	1.8 UJ	3.5 UJ	0.41 B	15.3 J	6-203OSA-SB41-01	32/35
ZINC	MG/KG	0.93 U	7.5 U	0.78 B	367	6-203OSA-SB41-04	20/35

CLEJ-01272-3.13-08/20/93

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**Site 6 (Wooded Areas and Ravine) and Site 82
Surface Soil, Organic and Inorganic**

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB1-00	6-201E-SB10-00	6-201E-SB11-00	6-201E-SB12-00	6-201E-SB13-00	6-201E-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/12/92	9/12/92	9/13/92	9/13/92	9/13/92
Lab Id:	00307-01	00307-20	00307-23	00510-01	00510-03	00510-06
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 UJ	1.7 UJ	1.8 UJ	17 U	1.8 UJ
BETA-BHC	UG/KG	1.8 U	1.7 U	1.8 U	17 U	1.8 UJ
DELTA-BHC	UG/KG	1.8 UJ	1.7 UJ	1.8 UJ	17 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	1.7 UJ	1.8 UJ	17 U	1.8 UJ
HEPTACHLOR	UG/KG	1.8 U	1.7 U	1.8 U	17 U	1.8 UJ
ALDRIN	UG/KG	1.8 U	1.7 U	1.8 U	17 U	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.7 U	1.8 U	17 U	1.8 UJ
ENDOSULFAN I	UG/KG	1.8 U	1.7 U	1.8 U	17 U	1.8 UJ
DIELDRIN	UG/KG	3.4 U	3.3 U	3.4 U	33 U	3.4 UJ
4,4'-DDE	UG/KG	3.4 U	3.3 U	3.4 U	130	3.4 UJ
ENDRIN	UG/KG	3.4 U	3.3 U	3.4 U	33 U	3.4 UJ
ENDOSULFAN II	UG/KG	3.4 U	3.3 U	3.4 U	33 U	3.4 UJ
4,4'-DDD	UG/KG	3.4 U	3.3 U	3.4 U	33 U	3.4 UJ
ENDOSULFAN SULFATE	UG/KG	3.4 U	3.3 U	3.4 U	33 U	3.4 UJ
4,4'-DDT	UG/KG	3.4 UJ	3.3 UJ	3.4 UJ	200	4.9 J
METHOXYCHLOR	UG/KG	18 U	17 U	18 U	170 U	18 UJ
ENDRIN KETONE	UG/KG	3.4 U	3.3 U	3.4 U	33 U	3.4 UJ
ENDRIN ALDEHYDE	UG/KG	3.4 U	3.3 U	3.4 U	33 U	3.4 UJ
ALPHA CHLORDANE	UG/KG	1.8 U	1.7 U	1.8 U	17 U	1.8 UJ
GAMMA CHLORDANE	UG/KG	1.8 U	1.7 U	1.8 U	17 U	1.8 UJ
TOXAPHENE	UG/KG	180 U	170 U	180 U	1700 U	180 UJ
PCB-1016	UG/KG	34 U	33 U	34 U	330 U	34 UJ
PCB-1221	UG/KG	70 U	67 U	69 U	680 U	69 UJ
PCB-1232	UG/KG	34 U	33 U	34 U	330 U	34 UJ
PCB-1242	UG/KG	34 U	33 U	34 U	330 U	34 UJ
PCB-1248	UG/KG	34 U	33 U	34 U	330 U	34 UJ
PCB-1254	UG/KG	34 U	33 U	34 U	330 U	34 UJ
PCB-1260	UG/KG	34 U	33 U	34 U	2500	34 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	10 U	10 U	11 U	10 U	11 UJ
BROMOMETHANE	UG/KG	10 U	10 U	11 U	10 U	11 UJ
VINYL CHLORIDE	UG/KG	10 UJ	10 U	11 U	10 U	11 U
CHLOROETHANE	UG/KG	10 U	10 U	11 U	10 U	11 U
METHYLENE CHLORIDE	UG/KG	10 U	10 U	11 U	10 U	11 U
ACETONE	UG/KG	10 U	10 U	11 U	10 U	11 U
CARBON DISULFIDE	UG/KG	10 U	10 U	11 U	10 U	11 U
1,1-DICHLOROETHENE	UG/KG	10 U	10 U	11 U	10 U	11 U
1,1-DICHLOROETHANE	UG/KG	10 U	10 UJ	11 UJ	10 UJ	11 U
1,2-DICHLOROETHENE	UG/KG	10 U	10 U	11 U	10 U	11 U
CHLOROFORM	UG/KG	10 U	10 U	11 U	10 U	11 U
1,2-DICHLOROETHANE	UG/KG	10 U	10 U	11 U	10 U	11 U
2-BUTANONE	UG/KG	10 U	10 U	11 U	10 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB1-00	6-201E-SB10-00	6-201E-SB11-00	6-201E-SB12-00	6-201E-SB13-00	6-201E-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/12/92	9/12/92	9/13/92	9/13/92	9/13/92
Lab Id:	00507-01	00507-20	00507-23	00510-01	00510-03	00510-06
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	10 U	10 U	11 U	10 U	11 U
CARBON TETRACHLORIDE	UG/KG	10 U	10 U	11 U	10 U	11 U
BROMODICHLOROMETHANE	UG/KG	10 U	10 U	11 U	10 U	11 U
1,2-DICHLOROPROPANE	UG/KG	10 U	10 U	11 U	10 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	10 UJ	10 U	11 U	10 U	11 U
TRICHLOROETHENE	UG/KG	10 U	10 U	11 U	10 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	10 U	10 U	11 U	10 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	10 U	10 U	11 U	10 U	11 U
BENZENE	UG/KG	10 U	10 U	11 U	10 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 UJ	10 U	11 U	10 U	11 U
BROMOFORM	UG/KG	10 U	10 U	11 U	10 U	11 U
4-METHYL-2-PENTANONE	UG/KG	10 U	10 U	11 U	10 U	11 U
2-HEXANONE	UG/KG	10 U	10 U	11 U	10 U	11 U
TETRACHLOROETHENE	UG/KG	10 U	10 U	11 UJ	10 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	10 U	11 U	10 U	11 U
TOLUENE	UG/KG	10 U	10 U	11 U	10 U	11 U
CHLOROBENZENE	UG/KG	10 U	10 U	11 U	10 U	11 U
ETHYLBENZENE	UG/KG	10 U	10 U	11 U	10 U	11 U
STYRENE	UG/KG	10 U	10 U	11 U	10 U	11 U
TOTAL XYLENES	UG/KG	10 U	10 U	11 U	10 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	340 U	330 UJ	340 UJ	340 U	390 U
2-CHLOROPHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
1,3-DICHLOROBENZENE	UG/KG	340 U	330 U	340 U	340 U	390 U
1,4-DICHLOROBENZENE	UG/KG	54 J	52 J	47 J	340 U	60 J
1,2-DICHLOROBENZENE	UG/KG	340 U	330 U	340 U	340 U	390 U
2-METHYLPHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	340 U	330 U	340 U	340 U	390 U
4-METHYLPHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	340 U	330 U	340 U	340 U	390 U
HEXACHLOROETHANE	UG/KG	340 U	330 U	340 U	340 U	390 U
NITROBENZENE	UG/KG	340 U	330 U	340 U	340 U	390 U
ISOPHORONE	UG/KG	340 U	330 U	340 U	340 U	390 U
2-NITROPHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
2,4-DIMETHYLPHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340 U	330 U	340 U	340 U	390 U
2,4-DICHLOROPHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
1,2,4-TRICHLOROBENZENE	UG/KG	340 U	330 U	340 U	340 U	390 U
NAPHTHALENE	UG/KG	340 U	330 U	340 U	340 U	390 U
4-CHLORANILINE	UG/KG	340 U	330 U	340 U	340 U	390 U
HEXACHLOROBUTADIENE	UG/KG	340 U	330 U	340 U	340 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB1-00	6-201E-SB10-00	6-201E-SB11-00	6-201E-SB12-00	6-201E-SB13-00	6-201E-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/12/92	9/12/92	9/13/92	9/13/92	9/13/92
Lab Id:	00507-01	00507-20	00507-23	00510-01	00510-03	00510-06
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
2-METHYLNAPHTHALENE	UG/KG	340 U	330 U	340 U	340 U	390 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U	330 U	340 U	340 U	390 U
2,4,6-TRICHLOROPHENOL	UG/KG	340 U	330 U	340 U	340 U	390 U
2,4,5-TRICHLOROPHENOL	UG/KG	830 U	790 U	820 U	820 U	940 U
2-CHLORONAPHTHALENE	UG/KG	340 U	330 U	340 U	340 U	390 U
2-NITROANILINE	UG/KG	830 U	790 U	820 U	820 U	940 U
DIMETHYL PHTHALATE	UG/KG	340 U	330 U	340 U	340 U	390 U
ACENAPHTHYLENE	UG/KG	340 U	330 U	340 U	340 U	390 U
2,6-DINITROTOLUENE	UG/KG	340 U	330 U	340 U	340 U	390 U
3-NITROANILINE	UG/KG	830 U	790 U	820 U	820 U	940 U
ACENAPHTHENE	UG/KG	340 U	330 U	340 U	340 U	390 U
2,4-DINITROPHENOL	UG/KG	830 U	790 U	820 U	820 U	940 U
4-NITROPHENOL	UG/KG	830 U	790 U	820 U	820 U	940 U
DIBENZOFURAN	UG/KG	340 U	330 U	340 U	340 U	390 U
2,4-DINITROTOLUENE	UG/KG	340 U	330 UJ	340 U	340 U	390 UJ
DIETHYL PHTHALATE	UG/KG	340 U	330 U	340 U	340 U	390 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U	330 U	340 U	340 U	390 U
FLUORENE	UG/KG	340 U	330 U	340 U	340 U	390 U
4-NITROANILINE	UG/KG	830 U	790 U	820 U	820 U	940 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	830 U	790 U	820 U	820 U	940 U
N-NITRISODIPHENYLAMINE	UG/KG	340 U	330 U	340 U	340 U	390 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	340 U	330 U	340 U	340 U	390 U
HEXACHLOROBENZENE	UG/KG	340 U	330 U	340 U	340 U	390 U
PENTACHLOROPHENOL	UG/KG	830 U	790 UJ	820 U	820 U	940 U
PHENANTHRENE	UG/KG	340 U	330 U	340 U	340 U	46 J
ANTHRACENE	UG/KG	340 U	330 U	340 U	340 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG	340 U	330 U	340 U	340 U	390 U
FLUORANTHENE	UG/KG	340 U	330 U	340 U	340 U	390 U
CARBAZOLE	UG/KG	340 U	330 U	340 U	340 U	390 U
PYRENE	UG/KG	340 UJ	330 UJ	340 U	340 U	390 UJ
BUTYL BENZYL PHTHALATE	UG/KG	340 U	330 UJ	340 U	340 U	390 U
3,3-DICHLOROENZIDINE	UG/KG	340 U	330 U	340 U	340 U	390 U
BENZO(A)ANTHRACENE	UG/KG	340 U	330 U	340 U	340 U	390 U
CHRYSENE	UG/KG	340 U	330 U	340 U	340 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	35 J	330 U	340 U	340 U	390 U
DI-N-OCTYL PHTHALATE	UG/KG	340 UJ	330 U	340 U	340 U	390 U
BENZO(B)FLUORANTHENE	UG/KG	340 U	330 U	340 U	340 U	68 J
BENZO(K)FLUORANTHENE	UG/KG	340 U	330 U	340 U	340 UJ	45 J
BENZO(A)PYRENE	UG/KG	340 U	330 U	340 U	340 U	67 J
INDENO(1,2,3-CD)PYRENE	UG/KG	340 U	330 U	340 U	340 U	45 J
DIBENZ(A,H)ANTHRACENE	UG/KG	340 U	330 U	340 U	340 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG	340 U	330 U	340 U	340 U	46 J

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB15-00	6-201E-SB16-00	6-201E-SB17-00	6-201E-SB18-00	6-201E-SB19-00	6-201E-SB2-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/13/92	9/13/92	9/13/92	9/13/92	9/15/92	9/11/92	
Lab Id:	00510-08	00510-10	00510-12	00510-14	00519-01	00507-03	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
BETA-BHC	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
DELTA-BHC	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
HEPTACHLOR	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
ALDRIN	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
ENDOSULFAN I	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
DIELDRIN	UG/KG	39 J	3.5 U	3.3 UJ	3.6 UJ	3.4 U	3.6 U
4,4'-DDE	UG/KG	81 J	3.5 U	3.3 UJ	3.6 UJ	12	3.6 U
ENDRIN	UG/KG	240 J	3.5 U	3.3 UJ	3.6 UJ	3.4 U	3.6 U
ENDOSULFAN II	UG/KG	34 UJ	3.5 U	3.3 UJ	3.6 UJ	3.4 U	3.6 U
4,4'-DDD	UG/KG	34 UJ	3.5 U	3.3 UJ	3.6 UJ	3.4 U	3.6 U
ENDOSULFAN SULFATE	UG/KG	34 UJ	3.5 U	3.3 UJ	3.6 UJ	3.4 U	3.6 U
4,4'-DDT	UG/KG	120 J	8.6	3.3 UJ	3.6 UJ	86 J	27 J
METHOXYCHLOR	UG/KG	180 UJ	18 U	17 UJ	19 UJ	17 U	18 U
ENDRIN KETONE	UG/KG	34 UJ	3.5 U	3.3 UJ	3.6 UJ	3.4 U	3.6 U
ENDRIN ALDEHYDE	UG/KG	34 UJ	3.5 U	3.3 UJ	3.6 UJ	3.4 U	3.6 U
ALPHA CHLORDANE	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
GAMMA CHLORDANE	UG/KG	18 UJ	1.8 U	1.7 UJ	1.9 UJ	1.7 U	1.8 UJ
TOXAPHENE	UG/KG	1800 UJ	180 U	170 UJ	190 UJ	170 U	180 U
PCB-1016	UG/KG	340 UJ	35 U	33 UJ	36 UJ	34 U	36 U
PCB-1221	UG/KG	690 UJ	71 U	68 UJ	73 UJ	68 U	72 U
PCB-1232	UG/KG	340 UJ	35 U	33 UJ	36 UJ	34 U	36 U
PCB-1242	UG/KG	340 UJ	35 U	33 UJ	36 UJ	34 U	36 U
PCB-1248	UG/KG	340 UJ	35 U	33 UJ	36 UJ	34 U	36 U
PCB-1254	UG/KG	340 UJ	35 U	33 UJ	36 UJ	34 U	36 U
PCB-1260	UG/KG	26000 J	35 U	33 UJ	150 J	34 U	36 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 UJ	11 U	11 UJ	10 U	11 UJ	11 U
BROMOMETHANE	UG/KG	11 UJ	11 U	11 UJ	10 U	11 U	11 U
VINYL CHLORIDE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 UJ
CHLOROETHANE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U
ACETONE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 UJ	11 U	10 UJ	11 UJ	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U
CHLOROFORM	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	10 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB15-00	6-201E-SB16-00	6-201E-SB17-00	6-201E-SB18-00	6-201E-SB19-00	6-201E-SB2-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/13/92	9/13/92	9/13/92	9/13/92	9/15/92	9/11/92
Lab Id:	00510-08	00510-10	00510-12	00510-14	00519-01	00507-03
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	10 U	11 U
CARBON TETRACHLORIDE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	10 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	10 U	11 U
TRICHLOROETHENE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
BENZENE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	10 U	11 U
BROMOFORM	UG/KG	11 U	11 U	11 U	10 U	11 UJ
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	10 U	11 U
2-HEXANONE	UG/KG	11 U	11 U	11 U	10 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	10 U	11 U
TOLUENE	UG/KG	11 U	11 U	11 U	10 U	11 U
CHLOROBENZENE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	10 U	11 U
STYRENE	UG/KG	11 U	11 U	11 U	10 U	11 UJ
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	10 U	11 UJ
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	340 U	350 U	340 UJ	360 U	340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	340 U	350 U	340 U	360 U	340 U
2-CHLOROPHENOL	UG/KG	340 U	350 U	340 U	360 U	340 U
1,3-DICHLOROBENZENE	UG/KG	340 U	350 U	340 U	360 U	340 U
1,4-DICHLOROBENZENE	UG/KG	340 U	350 U	340 U	360 U	340 U
1,2-DICHLOROBENZENE	UG/KG	340 U	350 U	340 U	360 U	340 U
2-METHYLPHENOL	UG/KG	340 U	350 U	340 U	360 UJ	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	340 U	350 U	340 U	360 U	340 U
4-METHYLPHENOL	UG/KG	340 U	350 UJ	340 UJ	360 UJ	340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	340 U	350 UJ	340 UJ	360 UJ	340 U
HEXACHLOROETHANE	UG/KG	340 U	350 U	340 U	360 U	340 U
NITROBENZENE	UG/KG	340 U	350 U	340 U	360 U	340 U
ISOPHORONE	UG/KG	340 U	350 U	340 U	360 U	340 U
2-NITROPHENOL	UG/KG	340 U	350 U	340 U	360 U	340 U
2,4-DIMETHYLPHENOL	UG/KG	340 U	350 U	340 U	360 U	340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340 U	350 U	340 U	360 U	340 U
2,4-DICHLOROPHENOL	UG/KG	340 U	350 U	340 U	360 U	340 U
1,2,4-TRICHLOROBENZENE	UG/KG	340 U	350 U	340 U	360 U	340 U
NAPHTHALENE	UG/KG	340 U	350 U	340 U	360 U	340 U
4-CHLORANILINE	UG/KG	340 U	350 U	340 U	360 U	340 U
HEXACHLOROBUTADIENE	UG/KG	340 U	350 U	340 U	360 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB15-00	6-201E-SB16-00	6-201E-SB17-00	6-201E-SB18-00	6-201E-SB19-00	6-201E-SB2-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/13/92	9/13/92	9/13/92	9/13/92	9/13/92	9/11/92	
Lab Id:	00510-08	00510-10	00510-12	00510-14	00519-01	00507-03	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
2-METHYLNAPHTHALENE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
2,4,6-TRICHLOROPHENOL	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
2,4,5-TRICHLOROPHENOL	UG/KG	820 U	850 U	820 U	870 U	820 U	870 U
2-CHLORONAPHTHALENE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
2-NITROANILINE	UG/KG	820 U	850 U	820 U	870 U	820 U	870 U
DIMETHYL PHTHALATE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
ACENAPHTHYLENE	UG/KG	340 U	350 U	340 U	360 U	84 J	360 U
2,6-DINITROTOLUENE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
3-NITROANILINE	UG/KG	820 U	850 U	820 U	870 U	820 U	870 U
ACENAPHTHENE	UG/KG	340 U	36 J	340 U	360 U	340 U	360 U
2,4-DINITROPHENOL	UG/KG	820 U	850 U	820 U	870 U	820 U	870 U
4-NITROPHENOL	UG/KG	820 U	850 U	820 U	870 U	820 UJ	870 U
DIBENZOFURAN	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
2,4-DINITROTOLUENE	UG/KG	340 U	350 U	340 U	360 UJ	340 U	360 U
DIETHYL PHTHALATE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
FLUORENE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
4-NITROANILINE	UG/KG	820 U	850 U	820 U	870 U	820 U	870 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	820 U	850 U	820 U	870 U	820 U	870 U
N-NITRISODIPHENYLAMINE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
HEXACHLOROBENZENE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
PENTACHLOROPHENOL	UG/KG	820 U	850 U	820 U	870 U	820 U	870 U
PHENANTHRENE	UG/KG	340 U	230 J	340 U	360 U	340 U	360 U
ANTHRACENE	UG/KG	340 U	41 J	340 U	360 U	340 U	360 U
DI-N-BUTYL PHTHALATE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
FLUORANTHENE	UG/KG	340 U	400	340 U	360 U	43 J	360 U
CARBAZOLE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
PYRENE	UG/KG	340 U	410	340 U	360 U	110 J	360 UJ
BUTYL BENZYL PHTHALATE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
3,3-DICHLOROBENZIDINE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 U
BENZO(A)ANTHRACENE	UG/KG	340 U	210 J	340 U	360 U	60 J	360 U
CHRYSENE	UG/KG	340 U	140 J	340 UJ	360 U	64 J	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	340 U	350 U	340 U	360 U	340 U	72 J
DI-N-OCTYL PHTHALATE	UG/KG	340 U	350 U	340 U	360 U	340 U	360 UJ
BENZO(B)FLUORANTHENE	UG/KG	340 U	240 J	340 U	360 U	130 J	360 U
BENZO(K)FLUORANTHENE	UG/KG	340 UJ	65 J	340 U	360 U	42 J	360 U
BENZO(A)PYRENE	UG/KG	340 U	150 J	340 U	360 U	140 J	360 U
INDENO(1,2,3-CD) PYRENE	UG/KG	340 U	350 U	340 U	360 U	140 J	360 U
DIBENZ(AH)ANTHRACENE	UG/KG	340 U	43 J	340 U	360 U	340 U	360 U
BENZO(G,H,I)PERYLENE	UG/KG	340 U	92 J	40 J	360 U	310 J	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB20-00	6-201E-SB21-00	6-201E-SB3-00	6-201E-SB4-00	6-201E-SB5-00	6-201E-SB5-00D	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/15/92	9/15/92	9/11/92	9/11/92	9/11/92	9/11/92	
Lab Id:	00319-04	00319-16	00307-05	00507-07	00307-09	00307-10	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 UJ	2 U	1.9 UJ	2 UJ	1.8 UJ	1.8 UJ
BETA-BHC	UG/KG	1.8 UJ	2 U	1.9 U	2 U	1.8 U	1.8 U
DELTA-BHC	UG/KG	1.8 UJ	2 U	1.9 UJ	2 UJ	1.8 UJ	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	2 U	1.9 UJ	2 UJ	1.8 UJ	1.8 UJ
HEPTACHLOR	UG/KG	1.8 UJ	2 U	1.9 U	2 U	1.8 U	1.8 U
ALDRIN	UG/KG	1.8 UJ	2 U	1.9 U	2 U	1.8 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	2 U	1.9 U	2 U	1.8 U	1.8 U
ENDOSULFAN I	UG/KG	1.8 UJ	2 U	1.9 U	2 U	1.8 U	1.8 U
DIELDRIN	UG/KG	3.4 UJ	3.8 U	3.6 U	3.9 U	3.6 U	3.5 U
4,4'-DDE	UG/KG	24 J	3.8 U	3.6 U	3.9 U	3.6 U	3.5 U
ENDRIN	UG/KG	3.4 UJ	3.8 U	3.6 U	3.9 U	3.6 U	3.5 U
ENDOSULFAN II	UG/KG	3.4 UJ	3.8 U	3.6 U	3.9 U	3.6 U	3.5 U
4,4'-DDD	UG/KG	3.4 UJ	3.8 U	3.6 U	3.9 U	3.6 U	3.5 U
ENDOSULFAN SULFATE	UG/KG	3.4 UJ	3.8 U	3.6 U	3.9 U	3.6 U	3.5 U
4,4'-DDT	UG/KG	17 J	3.8 U	3.6 UJ	3.9 UJ	3.6 UJ	3.5 UJ
METHOXYCHLOR	UG/KG	18 UJ	20 U	19 U	20 U	18 U	18 U
ENDRIN KETONE	UG/KG	3.4 UJ	3.8 U	3.6 U	3.9 U	3.6 U	3.5 U
ENDRIN ALDEHYDE	UG/KG	3.4 UJ	3.8 U	3.6 U	3.9 U	3.6 U	3.5 U
ALPHA CHLORDANE	UG/KG	1.8 UJ	2 U	1.9 U	2 U	1.8 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.8 UJ	2 U	1.9 U	2 U	1.8 U	1.8 U
TOXAPHENE	UG/KG	180 UJ	200 U	190 U	200 U	180 U	180 U
PCB-1016	UG/KG	34 UJ	38 U	36 U	39 U	36 U	35 U
PCB-1221	UG/KG	70 UJ	77 U	74 U	79 U	73 U	71 U
PCB-1232	UG/KG	34 UJ	38 U	36 U	39 U	36 U	35 U
PCB-1242	UG/KG	34 UJ	38 U	36 U	39 U	36 U	35 U
PCB-1248	UG/KG	34 UJ	38 U	36 U	39 U	36 U	35 U
PCB-1254	UG/KG	34 UJ	38 U	36 U	39 U	36 U	35 U
PCB-1260	UG/KG	34 UJ	290	36 U	39 U	36 U	35 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
BROMOMETHANE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
VINYL CHLORIDE	UG/KG	11 U	12 UJ	11 UJ	11 UJ	11 UJ	11 U
CHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
ACETONE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
CARBON DISULFIDE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	12 UJ	11 U	11 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
CHLOROFORM	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U
2-BUTANONE	UG/KG	11 U	12 U	11 U	11 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB20-00	6-201E-SB21-00	6-201E-SB3-00	6-201E-SB4-00	6-201E-SB5-00	6-201E-SB5-00D
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/15/92	9/15/92	9/11/92	9/11/92	9/11/92	9/11/92
Lab Id:	00519-04	00519-16	00507-05	00507-07	00507-09	00507-10
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	11 UJ
CARBON TETRACHLORIDE	UG/KG	11 U	12 U	11 U	11 U	11 UJ
BROMODICHLOROMETHANE	UG/KG	11 U	12 U	11 U	11 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	12 U	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	11 UJ	11 UJ	11 UJ
TRICHLOROETHENE	UG/KG	11 U	12 U	11 U	11 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	12 U	11 U	11 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	11 U
BENZENE	UG/KG	11 U	12 U	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	11 UJ	11 UJ	11 UJ
BROMOFORM	UG/KG	11 U	12 U	11 U	11 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	12 U	11 U	11 U	11 U
2-HEXANONE	UG/KG	11 U	12 U	11 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	12 U	11 U	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	11 U
TOLUENE	UG/KG	11 U	12 U	11 U	11 U	11 U
CHLOROBENZENE	UG/KG	11 U	12 U	11 U	11 U	11 U
ETHYLBENZENE	UG/KG	11 U	12 U	11 U	11 U	11 U
STYRENE	UG/KG	11 U	12 U	11 U	11 U	11 U
TOTAL XYLENES	UG/KG	11 U	12 U	11 U	11 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	350 U	380 U	370 U	390 U	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U	380 U	370 UJ	390 U	350 UJ
2-CHLOROPHENOL	UG/KG	350 U	380 U	370 U	390 U	350 U
1,3-DICHLOROBENZENE	UG/KG	350 U	380 U	370 U	390 U	350 U
1,4-DICHLOROBENZENE	UG/KG	350 U	380 U	370 U	390 U	350 U
1,2-DICHLOROBENZENE	UG/KG	350 U	380 U	370 U	390 U	350 U
2-METHYLPHENOL	UG/KG	350 U	380 U	370 U	390 UJ	350 U
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U	380 U	370 U	390 U	350 U
4-METHYLPHENOL	UG/KG	350 U	380 U	370 U	390 U	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U	380 U	370 U	390 U	350 U
HEXACHLOROETHANE	UG/KG	350 U	380 U	370 U	390 U	350 U
NITROBENZENE	UG/KG	350 U	380 U	370 U	390 U	350 U
ISOPHORONE	UG/KG	350 U	380 U	370 U	390 U	350 U
2-NITROPHENOL	UG/KG	350 U	380 U	370 U	390 U	350 U
2,4-DIMETHYLPHENOL	UG/KG	350 U	380 U	370 U	390 U	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U	380 U	370 U	390 U	350 U
2,4-DICHLOROPHENOL	UG/KG	350 U	380 U	370 U	390 U	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U	380 U	370 U	390 U	350 U
NAPHTHALENE	UG/KG	350 U	380 U	370 U	390 U	350 U
4-CHLORANILINE	UG/KG	350 U	380 U	370 U	390 U	350 U
HEXACHLOROBUTADIENE	UG/KG	350 U	380 U	370 U	390 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB20-00	6-201E-SB21-00	6-201E-SB3-00	6-201E-SB4-00	6-201E-SB5-00	6-201E-SB5-00D	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/15/92	9/15/92	9/11/92	9/11/92	9/11/92	9/11/92	
Lab Id:	00519-04	00519-16	00507-05	00507-07	00507-09	00507-10	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
2-METHYLNAPHTHALENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
2,4,5-TRICHLOROPHENOL	UG/KG	840 U	910 U	890 U	950 U	870 U	850 U
2-CHLORONAPHTHALENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
2-NITROANILINE	UG/KG	840 U	910 U	890 U	950 U	870 U	850 U
DIMETHYL PHTHALATE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
ACENAPHTHYLENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
2,6-DINITROTOLUENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
3-NITROANILINE	UG/KG	840 U	910 U	890 U	950 U	870 U	850 U
ACENAPHTHENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
2,4-DINITROPHENOL	UG/KG	840 U	910 U	890 U	950 U	870 U	850 U
4-NITROPHENOL	UG/KG	840 UJ	910 U	890 U	950 U	870 U	850 U
DIBENZOFURAN	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
2,4-DINITROTOLUENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
DIETHYL PHTHALATE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U	380 U	370 U	390 U	360 UJ	350 U
FLUORENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
4-NITROANILINE	UG/KG	840 U	910 U	890 UJ	950 U	870 U	850 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/KG	840 U	910 U	890 U	950 U	870 U	850 U
N-NITRISODIPHENYLAMINE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
HEXACHLOROBENZENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
PENTACHLOROPHENOL	UG/KG	840 UJ	910 U	890 U	950 U	870 U	850 U
PHENANTHRENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
ANTHRACENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
DI-N-BUTYL PHTHALATE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
FLUORANTHENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
CARBAZOLE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
PYRENE	UG/KG	350 UJ	380 U	370 UJ	390 U	360 UJ	350 UJ
BUTYL BENZYL PHTHALATE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
3,3-DICHLOROBENZIDINE	UG/KG	350 U	380 U	370 UJ	390 U	360 U	350 UJ
BENZO(A)ANTHRACENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
CHRYSENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 UJ	380 U	66 J	390 UJ	360 UJ	350 UJ
DI-N-OCTYL PHTHALATE	UG/KG	350 U	380 U	370 UJ	390 UJ	360 UJ	350 UJ
BENZO(B)FLUORANTHENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
BENZO(K)FLUORANTHENE	UG/KG	350 U	380 UJ	370 U	390 U	360 U	350 U
BENZO(A)PYRENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
INDENO(1,2,3-CD) PYRENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
DIBENZ(A,H)ANTHRACENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U
BENZO(G,H,I)PERYLENE	UG/KG	350 U	380 U	370 U	390 U	360 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB6-00	6-201E-SB7-00	6-201E-SB8-00	6-201E-SB9-00	6-201N-SB1-00	6-201N-SB10-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/12/92	9/12/92	9/12/92	9/11/92	9/11/92
Lab Id:	00507-12	00507-14	00507-16	00507-18	00502-01	00507-25
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 UJ	2 UJ	1.8 UJ	1.9 UJ	1.8 UJ
BETA-BHC	UG/KG	1.8 U	2 UJ	1.8 U	1.9 U	1.8 U
DELTA-BHC	UG/KG	1.8 UJ	2 UJ	1.8 UJ	1.9 UJ	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	2 UJ	1.8 UJ	1.9 UJ	1.8 UJ
HEPTACHLOR	UG/KG	1.8 U	2 UJ	1.8 U	1.9 U	1.8 U
ALDRIN	UG/KG	1.8 U	2 UJ	1.8 U	1.9 U	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	2 UJ	1.8 U	1.9 U	1.8 U
ENDOSULFAN I	UG/KG	1.8 U	2 UJ	1.8 U	1.9 U	1.8 U
DIELDRIN	UG/KG	3.5 U	3.9 UJ	3.4 U	3.7 U	3.6 U
4,4'-DDE	UG/KG	3.5 U	5 J	3.4 U	4.3 J	3.6 U
ENDRIN	UG/KG	3.5 U	3.9 UJ	3.4 U	3.7 U	3.6 U
ENDOSULFAN II	UG/KG	3.5 U	3.9 UJ	3.4 U	3.7 U	3.6 U
4,4'-DDD	UG/KG	3.5 U	3.9 UJ	3.4 U	3.7 U	3.6 U
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.9 UJ	3.4 U	3.7 U	3.6 U
4,4'-DDT	UG/KG	7.9 J	5.6 J	3.4 UJ	3.7 UJ	3.6 UJ
METHOXYCHLOR	UG/KG	18 U	20 UJ	18 U	19 U	18 U
ENDRIN KETONE	UG/KG	3.5 U	3.9 UJ	3.4 U	3.7 U	3.6 U
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.9 UJ	3.4 U	3.7 U	3.6 U
ALPHA CHLORDANE	UG/KG	1.8 U	2 UJ	1.8 U	1.9 U	1.8 U
GAMMA CHLORDANE	UG/KG	1.8 U	2 UJ	1.8 U	1.9 U	1.8 U
TOXAPHENE	UG/KG	180 U	200 UJ	180 U	190 U	180 U
PCB-1016	UG/KG	35 U	39 UJ	34 U	37 U	36 U
PCB-1221	UG/KG	71 U	80 UJ	70 U	75 U	73 U
PCB-1232	UG/KG	35 U	39 UJ	34 U	37 U	36 U
PCB-1242	UG/KG	35 U	39 UJ	34 U	37 U	36 U
PCB-1248	UG/KG	35 U	39 UJ	34 U	37 U	36 U
PCB-1254	UG/KG	35 U	39 UJ	34 U	37 U	36 U
PCB-1260	UG/KG	35 U	39 UJ	34 U	28 J	36 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U	11 U	10 U	11 UJ	11 U
BROMOMETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
VINYL CHLORIDE	UG/KG	11 U	11 U	10 U	11 U	11 U
CHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	10 U	11 U	11 U
ACETONE	UG/KG	11 U	11 U	10 U	11 U	13 U
CARBON DISULFIDE	UG/KG	11 U	11 U	10 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	10 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 UJ	10 UJ	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	10 U	11 U	11 U
CHLOROFORM	UG/KG	11 U	11 U	10 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	11 UJ
2-BUTANONE	UG/KG	11 U	11 U	10 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB6-00	6-201E-SB7-00	6-201E-SB8-00	6-201E-SB9-00	6-201N-SB1-00	6-201N-SB10-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/12/92	9/12/92	9/12/92	9/12/92	9/11/92	9/11/92	
Lab Id:	00507-12	00507-14	00507-16	00507-18	00502-01	00507-25	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	11 UJ	11 U	10 U	11 U	19 UJ	11 U
CARBON TETRACHLORIDE	UG/KG	11 UJ	11 U	10 U	11 U	19 UJ	11 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	10 U	11 U	19 UJ	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	11 U	10 U	11 UJ	19 U	11 U
TRICHLOROETHENE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	10 U	11 U	19 UJ	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
BENZENE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	11 U	10 U	11 UJ	19 UJ	11 U
BROMOFORM	UG/KG	11 U	11 U	10 U	11 U	19 UJ	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
2-HEXANONE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	10 U	11 U	19 UJ	11 UJ
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
TOLUENE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
CHLOROENZENE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
STYRENE	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
TOTAL XYLENES	UG/KG	11 U	11 U	10 U	11 U	19 U	11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 UJ	390 UJ	350 UJ	370 U	730 U	360 U
2-CHLOROPHENOL	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
1,3-DICHLOROBENZENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
1,4-DICHLOROBENZENE	UG/KG	350 U	390 U	58 J	57 J	730 U	360 U
1,2-DICHLOROBENZENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2-METHYLPHENOL	UG/KG	350 U	390 U	350 U	370 UJ	730 U	360 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
4-METHYLPHENOL	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
HEXACHLOROETHANE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
NITROBENZENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
ISOPHORONE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2-NITROPHENOL	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2,4-DIMETHYLPHENOL	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2,4-DICHLOROPHENOL	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
NAPHTHALENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
4-CHLORANILINE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
HEXACHLOROBUTADIENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB6-00	6-201E-SB7-00	6-201E-SB8-00	6-201E-SB9-00	6-201N-SB1-00	6-201N-SB10-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/12/92	9/12/92	9/12/92	9/12/92	9/11/92	9/11/92	
Lab Id:	00507-12	00507-14	00507-16	00507-18	00502-01	00507-25	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2-METHYLNAPHTHALENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2,4,5-TRICHLOROPHENOL	UG/KG	840 U	950 U	840 U	900 U	1800 U	880 U
2-CHLORONAPHTHALENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2-NITROANILINE	UG/KG	840 U	950 U	840 U	900 U	1800 U	880 U
DIMETHYL PHTHALATE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
ACENAPHTHYLENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2,6-DINITROTOLUENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
3-NITROANILINE	UG/KG	840 U	950 U	840 U	900 U	1800 U	880 U
ACENAPHTHENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2,4-DINITROPHENOL	UG/KG	840 U	950 U	840 U	900 U	1800 U	880 U
4-NITROPHENOL	UG/KG	840 U	950 U	840 U	900 U	1800 U	880 U
DIBENZOFURAN	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
2,4-DINITROTOLUENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
DIETHYL PHTHALATE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
FLUORENE	UG/KG	350 U	390 U	350 U	370 U	730 UJ	360 U
4-NITROANILINE	UG/KG	840 UJ	950 UJ	840 UJ	900 U	1800 U	880 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	840 U	950 U	840 U	900 U	1800 U	880 U
N-NITROSODIPHENYLAMINE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
HEXACHLOROBENZENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
PENTACHLOROPHENOL	UG/KG	840 U	950 U	840 U	900 U	1800 U	880 U
PHENANTHRENE	UG/KG	350 U	390 U	350 U	370 U	130 J	360 U
ANTHRACENE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
DI-N-BUTYL PHTHALATE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
FLUORANTHENE	UG/KG	350 U	390 U	350 U	370 U	380 J	360 U
CARBAZOLE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
PYRENE	UG/KG	350 UJ	390 UJ	350 UJ	370 U	390 J	360 U
BUTYL BENZYL PHTHALATE	UG/KG	350 U	390 U	350 U	370 U	730 U	360 U
3,3-DICHLOROBENZIDINE	UG/KG	350 UJ	390 UJ	350 UJ	370 U	730 U	360 U
BENZO(A)ANTHRACENE	UG/KG	350 U	390 U	350 U	370 U	150 J	360 U
CHRYSENE	UG/KG	350 U	390 U	350 U	370 U	180 J	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	52 J	150 J	60 J	53 J	730 UJ	360 U
DI-N-OCTYL PHTHALATE	UG/KG	350 UJ	390 UJ	350 UJ	370 UJ	730 UJ	360 U
BENZO(B)FLUORANTHENE	UG/KG	350 U	390 U	350 UJ	370 UJ	250 J	360 U
BENZO(K)FLUORANTHENE	UG/KG	350 U	390 U	350 UJ	370 UJ	81 J	360 U
BENZO(A)PYRENE	UG/KG	350 U	390 U	350 UJ	370 UJ	110 J	360 U
INDENO(1,2,3-CD) PYRENE	UG/KG	350 U	390 U	350 UJ	370 UJ	730 U	360 U
DIBENZ(A,H)ANTHRACENE	UG/KG	350 U	390 U	350 UJ	370 UJ	730 U	360 U
BENZO(G,H,I)PERYLENE	UG/KG	350 U	390 U	350 UJ	370 UJ	730 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB11-00	6-201N-SB12-00	6-201N-SB2-00	6-201N-SB3-00	6-201N-SB4-00	6-201N-SB5-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/13/92	10/13/92	9/10/92	9/10/92	9/10/92	9/10/92	
Lab Id:	00573-11	00573-13	00502-04	00502-06	00502-08	00502-10	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
BETA-BHC	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
DELTA-BHC	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
HEPTACHLOR	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
ALDRIN	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
ENDOSULFAN I	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
DIELDRIN	UG/KG	3.2 UJ	3.5 UJ	14 J	3.3 UJ	3.7 UJ	3.5 UJ
4,4'-DDE	UG/KG	3.2 UJ	3.5 UJ	3.5 UJ	2.2 J	3.7 UJ	3.5 UJ
ENDRIN	UG/KG	3.2 UJ	3.5 UJ	3.5 UJ	3.3 UJ	3.7 UJ	3.5 UJ
ENDOSULFAN II	UG/KG	3.2 UJ	3.5 UJ	3.5 UJ	3.3 UJ	3.7 UJ	3.5 UJ
4,4'-DDD	UG/KG	3.2 UJ	3.5 UJ	3.5 UJ	3.3 UJ	3.7 UJ	3.5 UJ
ENDOSULFAN SULFATE	UG/KG	3.2 UJ	3.5 UJ	3.5 UJ	3.3 UJ	3.7 UJ	3.5 UJ
4,4'-DDT	UG/KG	3.2 UJ	3.5 UJ	7.9 J	3.3 UJ	3.7 UJ	3.5 UJ
METHOXYCHLOR	UG/KG	17 UJ	18 UJ	18 UJ	17 UJ	19 UJ	18 UJ
ENDRIN KETONE	UG/KG	3.2 UJ	3.5 UJ	3.5 UJ	3.3 UJ	3.7 UJ	3.5 UJ
ENDRIN ALDEHYDE	UG/KG	3.2 UJ	3.5 UJ	3.5 UJ	3.3 UJ	3.7 UJ	3.5 UJ
ALPHA CHLORDANE	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
GAMMA CHLORDANE	UG/KG	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.9 UJ	1.8 UJ
TOXAPHENE	UG/KG	170 UJ	180 UJ	180 UJ	170 UJ	190 UJ	180 UJ
PCB-1016	UG/KG	32 UJ	35 UJ	35 UJ	33 UJ	37 UJ	35 UJ
PCB-1221	UG/KG	66 UJ	70 UJ	72 UJ	66 UJ	75 UJ	72 UJ
PCB-1232	UG/KG	32 UJ	35 UJ	35 UJ	33 UJ	37 UJ	35 UJ
PCB-1242	UG/KG	32 UJ	35 UJ	35 UJ	33 UJ	37 UJ	35 UJ
PCB-1248	UG/KG	32 UJ	35 UJ	35 UJ	33 UJ	37 UJ	35 UJ
PCB-1254	UG/KG	32 UJ	35 UJ	35 UJ	33 UJ	37 UJ	35 UJ
PCB-1260	UG/KG	32 UJ	35 UJ	35 UJ	33 UJ	37 UJ	35 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
BROMOMETHANE	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
VINYL CHLORIDE	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
CHLOROETHANE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
METHYLENE CHLORIDE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
ACETONE	UG/KG	5 J	5 J	11 U	10 U	11 U	10 U
CARBON DISULFIDE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
1,1-DICHLOROETHENE	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
1,1-DICHLOROETHANE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
1,2-DICHLOROETHENE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
CHLOROFORM	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
1,2-DICHLOROETHANE	UG/KG	10 U	11 U	11 UJ	10 UJ	11 UJ	10 UJ
2-BUTANONE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB11-00	6-201N-SB12-00	6-201N-SB2-00	6-201N-SB3-00	6-201N-SB4-00	6-201N-SB5-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/13/92	10/13/92	9/10/92	9/10/92	9/10/92	9/10/92	
Lab Id:	00573-11	00573-13	00502-04	00502-06	00502-08	00502-10	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
CARBON TETRACHLORIDE	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
BROMODICHLOROMETHANE	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
1,2-DICHLOROPROPANE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
TRICHLOROETHENE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
DIBROMOCHLOROMETHANE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
1,1,2-TRICHLOROETHANE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
BENZENE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
BROMOFORM	UG/KG	10 U	11 U	11 U	10 U	11 UJ	10 UJ
4-METHYL-2-PENTANONE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
2-HEXANONE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
TETRACHLOROETHENE	UG/KG	10 U	11 U	11 UJ	10 UJ	11 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
TOLUENE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
CHLOROBENZENE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
ETHYLBENZENE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
STYRENE	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
TOTAL XYLENES	UG/KG	10 U	11 U	11 U	10 U	11 U	10 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	320 UJ	350 U	350 U	330 U	370 U	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
2-CHLOROPHENOL	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
1,3-DICHLOROBENZENE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
1,4-DICHLOROBENZENE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
1,2-DICHLOROBENZENE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
2-METHYLPHENOL	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
4-METHYLPHENOL	UG/KG	320 UJ	350 U	350 U	330 U	370 U	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
HEXACHLOROETHANE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
NITROBENZENE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
ISOPHORONE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
2-NITROPHENOL	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
2,4-DIMETHYLPHENOL	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
2,4-DICHLOROPHENOL	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
NAPHTHALENE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
4-CHLORANILINE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U
HEXACHLOROBUTADIENE	UG/KG	320 U	350 U	350 U	330 U	370 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB11-00	6-201N-SB12-00	6-201N-SB2-00	6-201N-SB3-00	6-201N-SB4-00	6-201N-SB5-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/13/92	10/13/92	9/10/92	9/10/92	9/10/92	9/10/92
Lab Id:	00573-11	00573-13	00502-04	00502-06	00502-08	00502-10
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	320 U	350 U	350 U	330 U	350 U
2-METHYLNAPHTHALENE	UG/KG	320 U	350 U	350 U	330 U	350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	320 U	350 U	350 U	330 U	350 U
2,4,6-TRICHLOROPHENOL	UG/KG	320 U	350 U	350 U	330 U	350 U
2,4,5-TRICHLOROPHENOL	UG/KG	790 U	840 U	850 U	800 U	850 U
2-CHLORONAPHTHALENE	UG/KG	320 U	350 U	350 U	330 U	350 U
2-NITROANILINE	UG/KG	790 U	840 U	850 U	800 U	850 U
DIMETHYL PHTHALATE	UG/KG	320 U	350 U	350 U	330 U	350 U
ACENAPHTHYLENE	UG/KG	320 U	350 U	350 U	330 U	350 U
2,6-DINITROTOLUENE	UG/KG	320 U	350 UJ	350 U	330 U	350 U
3-NITROANILINE	UG/KG	790 U	840 U	850 U	800 U	850 U
ACENAPHTHENE	UG/KG	320 U	350 U	350 U	330 U	350 U
2,4-DINITROPHENOL	UG/KG	790 U	840 UJ	850 U	800 U	850 U
4-NITROPHENOL	UG/KG	790 U	840 U	850 UJ	800 U	850 U
DIBENZOFURAN	UG/KG	320 U	350 U	350 U	330 U	350 U
2,4-DINITROTOLUENE	UG/KG	320 UJ	350 U	350 U	330 U	350 U
DIETHYL PHTHALATE	UG/KG	320 U	350 U	350 U	330 U	350 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	320 U	350 U	350 U	330 U	350 U
FLUORENE	UG/KG	320 U	350 U	350 U	330 UJ	350 UJ
4-NITROANILINE	UG/KG	790 UJ	840 U	850 U	800 U	850 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	790 U	840 U	850 U	800 U	850 U
N-NITROSODIPHENYLAMINE	UG/KG	320 U	350 U	350 U	330 U	350 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	320 U	350 U	350 U	330 U	350 U
HEXACHLOROBENZENE	UG/KG	320 U	350 U	350 U	330 U	350 U
PENTACHLOROPHENOL	UG/KG	790 U	840 U	850 U	800 U	850 U
PHENANTHRENE	UG/KG	320 U	350 U	350 U	330 U	350 U
ANTHRACENE	UG/KG	320 U	350 U	350 U	330 U	350 U
DI-N-BUTYL PHTHALATE	UG/KG	320 U	350 U	350 U	330 U	350 U
FLUORANTHENE	UG/KG	320 U	350 U	350 U	330 U	350 U
CARBAZOLE	UG/KG	320 U	350 U	350 U	330 U	350 U
PYRENE	UG/KG	320 U	350 U	350 U	330 U	350 U
BUTYL BENZYL PHTHALATE	UG/KG	320 U	350 U	350 U	330 U	350 U
3,3-DICHLOROBENZIDINE	UG/KG	320 U	350 U	350 U	330 U	350 U
BENZO(A)ANTHRACENE	UG/KG	320 U	350 U	350 U	330 U	350 U
CHRYSENE	UG/KG	320 U	350 U	350 U	330 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	320 U	350 U	98 J	82 J	370 UJ
DI-N-OCTYL PHTHALATE	UG/KG	320 U	350 U	350 UJ	330 UJ	350 UJ
BENZO(B)FLUORANTHENE	UG/KG	320 U	350 U	350 U	330 U	350 U
BENZO(K)FLUORANTHENE	UG/KG	320 U	350 U	350 U	330 U	350 U
BENZO(A)PYRENE	UG/KG	320 U	350 U	350 U	330 U	350 U
INDENO(1,2,3-CD) PYRENE	UG/KG	320 U	350 U	350 U	330 U	350 U
DIBENZO(A,H)ANTHRACENE	UG/KG	320 U	350 U	350 U	330 U	350 U
BENZO(G,H,I)PERYLENE	UG/KG	320 U	350 U	350 U	330 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB6-00	6-201N-SB7-00	6-201N-SB8-00	6-201N-SB9-00	6-201S-SB1-00	6-201S-SB10-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/11/92	9/11/92	9/11/92	9/11/92	9/15/92	9/13/92	
Lab Id:	00502-12	00502-14	00502-16	00502-18	00519-07	00510-24	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
BETA-BHC	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
DELTA-BHC	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
GAMMA-BHC(LINDANE)	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
HEPTACHLOR	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
ALDRIN	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
HEPTACHLOR EPOXIDE	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
ENDOSULFAN I	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
DIELDRIN	UG/KG	82	61	25	8.4 J	3.6 UJ	4.1 UJ
4,4'-DDE	UG/KG	3.9 U	11 U	12 U	4.4 UJ	170 J	4.1 UJ
ENDRIN	UG/KG	3.9 U	11 U	12 U	4.4 UJ	3.6 UJ	4.1 UJ
ENDOSULFAN II	UG/KG	3.9 U	11 U	12 U	4.4 UJ	3.6 UJ	4.1 UJ
4,4'-DDD	UG/KG	3.9 U	11 U	12 U	4.4 UJ	10 J	4.1 UJ
ENDOSULFAN SULFATE	UG/KG	3.9 U	11 U	12 U	4.4 UJ	3.6 UJ	4.1 UJ
4,4'-DDT	UG/KG	3.9 U	11 U	15	4.7 J	150 J	4.1 UJ
METHOXYCHLOR	UG/KG	20 U	59 U	62 U	23 UJ	18 UJ	21 UJ
ENDRIN KETONE	UG/KG	3.9 U	11 U	12 U	4.4 UJ	3.6 UJ	4.1 UJ
ENDRIN ALDEHYDE	UG/KG	3.9 U	11 U	12 U	4.4 UJ	3.6 UJ	4.1 UJ
ALPHA CHLORDANE	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
GAMMA CHLORDANE	UG/KG	2 U	5.9 U	6.2 U	2.3 UJ	1.8 UJ	2.1 UJ
TOXAPHENE	UG/KG	200 U	590 U	620 U	230 UJ	180 UJ	210 UJ
PCB-1016	UG/KG	39 U	110 U	120 U	44 UJ	36 UJ	41 UJ
PCB-1221	UG/KG	79 U	230 U	250 U	90 UJ	72 UJ	83 UJ
PCB-1232	UG/KG	39 U	110 U	120 U	44 UJ	36 UJ	41 UJ
PCB-1242	UG/KG	39 U	110 U	120 U	44 UJ	36 UJ	41 UJ
PCB-1248	UG/KG	39 U	110 U	120 U	44 UJ	36 UJ	41 UJ
PCB-1254	UG/KG	39 U	110 U	120 U	44 UJ	36 UJ	41 UJ
PCB-1260	UG/KG	39 U	110 U	120 U	44 UJ	36 UJ	41 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	11 U	11 U	15 U	11 U	12 U
BROMOMETHANE	UG/KG	11 UJ	11 U	11 U	15 U	11 U	12 U
VINYL CHLORIDE	UG/KG	11 UJ	11 U	11 U	15 U	11 U	12 U
CHLOROETHANE	UG/KG	11 U	11 U	11 U	15 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	15 U	11 U	12 U
ACETONE	UG/KG	11 U	11 U	11 U	14 J	11 U	12 U
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	15 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 UJ	11 UJ	11 UJ	15 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	15 U	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	15 U	11 U	12 U
CHLOROFORM	UG/KG	11 UJ	11 U	11 U	15 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 UJ	11 U	11 U	15 UJ	11 U	12 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	15 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB6-00	6-201N-SB7-00	6-201N-SB8-00	6-201N-SB9-00	6-201S-SB1-00	6-201S-SB10-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/11/92	9/11/92	9/11/92	9/15/92	9/13/92
Lab Id:	00502-12	00502-14	00502-16	00502-18	00519-07	00510-24
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 UJ	11 U	11 U	15 U	11 U
CARBON TETRACHLORIDE	UG/KG	11 UJ	11 U	11 U	15 U	11 U
BROMODICHLOROMETHANE	UG/KG	11 UJ	11 U	11 U	15 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	15 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	15 U	11 U
TRICHLOROETHENE	UG/KG	11 U	11 U	11 U	15 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	15 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	15 U	11 U
BENZENE	UG/KG	11 U	11 U	11 U	15 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	11 U	11 U	15 U	11 U
BROMOFORM	UG/KG	11 UJ	11 U	11 U	15 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	15 U	11 U
2-HEXANONE	UG/KG	11 U	11 U	11 U	15 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	11 U	15 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	15 U	11 U
TOLUENE	UG/KG	11 U	11 U	11 U	15 U	11 U
CHLOROENZENE	UG/KG	11 U	11 U	11 U	15 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	15 U	11 U
STYRENE	UG/KG	11 U	11 U	11 U	15 U	11 U
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	15 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	390 U	390 U	400 U	440 U	360 U
2-CHLOROPHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U
1,3-DICHLOROBENZENE	UG/KG	390 U	390 U	400 U	440 U	360 U
1,4-DICHLOROBENZENE	UG/KG	42 J	390 U	400 U	440 U	360 U
1,2-DICHLOROBENZENE	UG/KG	390 U	390 U	400 U	440 U	360 U
2-METHYLPHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	390 U	390 U	400 U	440 U	360 U
4-METHYLPHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	390 U	390 U	400 U	440 U	360 U
HEXACHLOROETHANE	UG/KG	390 U	390 U	400 U	440 U	360 U
NITROBENZENE	UG/KG	390 U	390 U	400 U	440 U	360 U
ISOPHORONE	UG/KG	390 U	390 U	400 U	440 U	360 U
2-NITROPHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U
2,4-DIMETHYLPHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	390 U	390 U	400 U	440 U	360 U
2,4-DICHLOROPHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U
1,2,4-TRICHLOROBENZENE	UG/KG	390 U	390 U	400 U	440 U	360 U
NAPHTHALENE	UG/KG	390 U	390 U	400 U	440 U	360 U
4-CHLORANILINE	UG/KG	390 U	390 U	400 U	440 U	360 U
HEXACHLOROBUTADIENE	UG/KG	390 U	390 U	400 U	440 U	360 U

CLEJ-01272-3-13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB6-00	6-201N-SB7-00	6-201N-SB8-00	6-201N-SB9-00	6-201S-SB1-00	6-201S-SB10-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/11/92	9/11/92	9/11/92	9/11/92	9/15/92	9/13/92	
Lab Id:	00502-12	00502-14	00502-16	00502-18	00519-07	00510-24	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
2-METHYLNAPHTHALENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
2,4,6-TRICHLOROPHENOL	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
2,4,5-TRICHLOROPHENOL	UG/KG	940 U	940 U	980 U	1100 U	870 U	1000 U
2-CHLORONAPHTHALENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
2-NITROANILINE	UG/KG	940 U	940 U	980 U	1100 U	870 U	1000 U
DIMETHYL PHTHALATE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
ACENAPHTHYLENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
2,6-DINITROTOLUENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
3-NITROANILINE	UG/KG	940 U	940 U	980 U	1100 U	870 U	1000 U
ACENAPHTHENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 UJ
2,4-DINITROPHENOL	UG/KG	940 U	940 U	980 U	1100 U	870 U	1000 U
4-NITROPHENOL	UG/KG	940 UJ	940 UJ	980 U	1100 U	870 U	1000 U
DIBENZOFURAN	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
2,4-DINITROTOLUENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 UJ
DIETHYL PHTHALATE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 UJ
FLUORENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 UJ
4-NITROANILINE	UG/KG	940 U	940 U	980 U	1100 U	870 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	940 U	940 U	980 U	1100 U	870 U	1000 U
N-NITROSODIPHENYLAMINE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
HEXACHLOROBENZENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
PENTACHLOROPHENOL	UG/KG	940 U	940 U	980 U	1100 U	870 U	1000 U
PHENANTHRENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
ANTHRACENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
DI-N-BUTYL PHTHALATE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
FLUORANTHENE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
CARBAZOLE	UG/KG	390 U	390 U	400 U	440 U	360 U	410 U
PYRENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
BUTYL BENZYL PHTHALATE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
3,3-DICHLOROBENZIDINE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
BENZO(A)ANTHRACENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
CHRYSENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	65 J	47 J	400 U	200 J	59 J	410 U
DI-N-OCTYL PHTHALATE	UG/KG	390 UJ	390 UJ	400 U	440 UJ	360 U	410 U
BENZO(B)FLUORANTHENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
BENZO(K)FLUORANTHENE	UG/KG	390 U	390 U	400 U	440 UJ	360 UJ	410 U
BENZO(A)PYRENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
INDENO(1,2,3-CD)PYRENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
DIBENZ(AH)ANTHRACENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U
BENZO(G,H,I)PERYLENE	UG/KG	390 U	390 U	400 U	440 UJ	360 U	410 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201S-SB11-00	6-201S-SB12-00	6-201S-SB2-00	6-201S-SB3-00	6-201S-SB4-00	6-201S-SB5-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/13/92	9/13/92	9/15/92	9/15/92	9/15/92	9/14/92	
Lab Id:	00510-25	00511-01	00519-10	00519-11	00519-13	00510-16	
Parameter	Units						
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
BETA-BHC	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
DELTA-BHC	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
HEPTACHLOR	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
ALDRIN	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
ENDOSULFAN I	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
DIELDRIN	UG/KG	3.4 UJ	3.4 U	3.6 U	3.9 UJ	3.7 UJ	3.8 U
4,4'-DDE	UG/KG	16 J	24 J	4.4	11 J	25 J	20
ENDRIN	UG/KG	3.4 UJ	3.4 U	3.6 U	3.9 UJ	3.7 UJ	3.8 U
ENDOSULFAN II	UG/KG	3.4 UJ	3.4 U	3.6 U	3.9 UJ	3.7 UJ	3.8 U
4,4'-DDD	UG/KG	3.4 UJ	3.4 U	11	3.9 UJ	3.7 UJ	3.8 U
ENDOSULFAN SULFATE	UG/KG	3.4 UJ	3.4 U	3.6 U	3.9 UJ	3.7 UJ	3.8 U
4,4'-DDT	UG/KG	13 J	9.3	5.5	9.1 J	16 J	20 J
METHOXYCHLOR	UG/KG	18 UJ	17 U	18 U	20 UJ	19 UJ	20 U
ENDRIN KETONE	UG/KG	3.4 UJ	3.4 U	3.6 U	3.9 UJ	3.7 UJ	3.8 U
ENDRIN ALDEHYDE	UG/KG	3.4 UJ	3.4 U	3.6 U	3.9 UJ	3.7 UJ	3.8 U
ALPHA CHLORDANE	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
GAMMA CHLORDANE	UG/KG	1.8 UJ	1.7 U	1.8 U	2 UJ	1.9 UJ	2 U
TOXAPHENE	UG/KG	180 UJ	170 U	180 U	200 UJ	190 UJ	200 U
PCB-1016	UG/KG	34 UJ	34 U	36 U	39 UJ	37 UJ	38 U
PCB-1221	UG/KG	69 UJ	68 U	73 U	80 UJ	74 UJ	77 U
PCB-1232	UG/KG	34 UJ	34 U	36 U	39 UJ	37 UJ	38 U
PCB-1242	UG/KG	34 UJ	34 U	36 U	39 UJ	37 UJ	38 U
PCB-1248	UG/KG	34 UJ	34 U	36 U	39 UJ	37 UJ	38 U
PCB-1254	UG/KG	34 UJ	34 U	36 U	39 UJ	37 UJ	38 U
PCB-1260	UG/KG	34 UJ	34 U	36 U	39 UJ	37 UJ	38 U
VOLATILES							
CHLOROMETHANE	UG/KG	10 U	10 UJ	13 U	12 U	11 U	12 U
BROMOMETHANE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
VINYL CHLORIDE	UG/KG	10 U	10 UJ	13 U	12 UJ	11 U	12 U
CHLOROETHANE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	10 U	10 U	13 U	12 U	18 U	12 U
ACETONE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
CARBON DISULFIDE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	10 U	10 U	13 U	12 UJ	11 UJ	12 U
1,2-DICHLOROETHENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
CHLOROFORM	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
2-BUTANONE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201S-SB11-00	6-201S-SB12-00	6-201S-SB2-00	6-201S-SB3-00	6-201S-SB4-00	6-201S-SB5-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/13/92	9/13/92	9/15/92	9/15/92	9/15/92	9/14/92	
Lab Id:	00510-25	00511-01	00519-10	00519-11	00519-13	00510-16	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	10 UJ	10 U	13 U	12 U	11 U	12 U
CARBON TETRACHLORIDE	UG/KG	10 UJ	10 U	13 U	12 U	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	10 UJ	10 U	13 U	12 U	11 U	12 U
TRICHLOROETHENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
BENZENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 UJ	10 U	13 U	12 U	11 U	12 U
BROMOFORM	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
4-METHYL-2-PENTANONE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
2-HEXANONE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 UJ
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
TOLUENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
CHLOROBENZENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
ETHYLBENZENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
STYRENE	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
TOTAL XYLENES	UG/KG	10 U	10 U	13 U	12 U	11 U	12 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
2-CHLOROPHENOL	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
1,3-DICHLOROBENZENE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
1,4-DICHLOROBENZENE	UG/KG	340 U	340 U	360 U	390 U	360 U	47 J
1,2-DICHLOROBENZENE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
2-METHYLPHENOL	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
4-METHYLPHENOL	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
HEXACHLOROETHANE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
NITROBENZENE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
ISOPHORONE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
2-NITROPHENOL	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
2,4-DIMETHYLPHENOL	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
2,4-DICHLOROPHENOL	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
1,2,4-TRICHLOROBENZENE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
NAPHTHALENE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
4-CHLORANILINE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U
HEXACHLOROBUTADIENE	UG/KG	340 U	340 U	360 U	390 U	360 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201S-SB11-00	6-201S-SB12-00	6-201S-SB2-00	6-201S-SB3-00	6-201S-SB4-00	6-201S-SB5-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/13/92	9/13/92	9/15/92	9/15/92	9/15/92	9/14/92
Lab Id:	00510-25	00511-01	00519-10	00519-11	00519-13	00510-16
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	340 U	340 U	360 U	390 U	380 U
2-METHYLNAPHTHALENE	UG/KG	340 U	340 U	360 U	390 U	380 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U	340 U	360 U	390 U	380 U
2,4,6-TRICHLOROPHENOL	UG/KG	340 U	340 U	360 U	390 U	380 U
2,4,5-TRICHLOROPHENOL	UG/KG	820 U	820 U	870 U	950 U	930 U
2-CHLORONAPHTHALENE	UG/KG	340 U	340 U	360 U	390 U	380 U
2-NITROANILINE	UG/KG	820 U	820 U	870 U	950 U	930 U
DIMETHYL PHTHALATE	UG/KG	340 U	340 U	360 U	390 U	380 U
ACENAPHTHYLENE	UG/KG	340 U	340 U	360 U	390 U	380 U
2,6-DINITROTOLUENE	UG/KG	340 U	340 U	360 U	390 U	380 U
3-NITROANILINE	UG/KG	820 U	820 U	870 U	950 U	930 U
ACENAPHTHENE	UG/KG	340 UJ	340 U	360 U	390 U	380 U
2,4-DINITROPHENOL	UG/KG	820 U	820 U	870 U	950 U	930 U
4-NITROPHENOL	UG/KG	820 U	820 UJ	870 UJ	950 U	930 U
DIBENZOFURAN	UG/KG	340 U	340 U	360 U	390 U	380 U
2,4-DINITROTOLUENE	UG/KG	340 UJ	340 U	360 U	390 U	380 UJ
DIETHYL PHTHALATE	UG/KG	340 U	340 U	360 U	390 U	380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	340 UJ	340 UJ	360 U	390 U	380 U
FLUORENE	UG/KG	340 UJ	340 U	360 U	390 U	380 U
4-NITROANILINE	UG/KG	820 U	820 U	870 U	950 U	930 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	820 U	820 U	870 U	950 U	930 U
N-NITRISODIPHENYLAMINE	UG/KG	340 U	340 U	360 U	390 U	380 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	340 U	340 U	360 U	390 U	380 U
HEXACHLOROBENZENE	UG/KG	340 U	340 U	360 U	390 U	380 U
PENTACHLOROPHENOL	UG/KG	820 U	820 U	870 UJ	950 U	930 U
PHENANTHRENE	UG/KG	340 U	340 U	360 U	390 U	380 U
ANTHRACENE	UG/KG	340 U	340 U	360 U	390 U	380 U
DI-N-BUTYL PHTHALATE	UG/KG	340 U	340 U	360 U	390 U	380 U
FLUORANTHENE	UG/KG	59 J	340 U	360 U	390 U	380 U
CARBAZOLE	UG/KG	340 U	340 U	360 U	390 U	380 U
PYRENE	UG/KG	72 J	340 UJ	360 UJ	390 U	380 UJ
BUTYL BENZYL PHTHALATE	UG/KG	340 U	340 U	360 U	390 U	380 U
3,3-DICHLOROBENZIDINE	UG/KG	340 U	340 U	360 U	390 U	380 U
BENZO(A)ANTHRACENE	UG/KG	340 U	340 U	360 U	390 U	380 U
CHRYSENE	UG/KG	47 J	340 U	360 U	390 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	85 J	70 J	360 UJ	53 J	380 U
DI-N-OCTYL PHTHALATE	UG/KG	340 U	340 U	360 U	390 U	380 U
BENZO(B)FLUORANTHENE	UG/KG	60 J	340 U	360 U	390 U	380 U
BENZO(K)FLUORANTHENE	UG/KG	340 U	340 U	360 U	390 UJ	380 U
BENZO(A)PYRENE	UG/KG	340 U	340 U	360 U	390 U	380 U
INDENO(1,2,3-CD) PYRENE	UG/KG	340 U	340 U	360 U	390 U	380 U
DIBENZ(A,H)ANTHRACENE	UG/KG	340 U	340 U	360 U	390 U	380 U
BENZO(G,H,I)PERYLENE	UG/KG	340 U	340 U	360 U	390 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201S-SB6-00	6-201S-SB7-00	6-201S-SB8-00	6-201S-SB9-00	6-203OSA-SB1-00	6-203OSA-SB10-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/14/92	9/14/92	9/15/92	9/13/92	9/14/92	9/12/92	
Lab Id:	00510-18	00510-21	00519-15	00510-22	00511-03	00507-37	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 UJ
BETA-BHC	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 U
DELTA-BHC	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 UJ
GAMMA-BHC(LINDANE)	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 UJ
HEPTACHLOR	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 U
ALDRIN	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 U
ENDOSULFAN I	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 U
DIELDRIN	UG/KG	19 UJ	4.2 U	79 U	3.5 UJ	110 UJ	3.6 U
4,4'-DDE	UG/KG	110 J	9.5 J	4200	3.5 UJ	470 J	3.6 U
ENDRIN	UG/KG	19 UJ	4.2 U	79 U	3.5 UJ	110 UJ	3.6 U
ENDOSULFAN II	UG/KG	19 UJ	4.2 U	79 U	3.5 UJ	110 UJ	3.6 U
4,4'-DDD	UG/KG	19 UJ	4.2 U	12000	3.5 UJ	150 J	3.6 U
ENDOSULFAN SULFATE	UG/KG	19 UJ	4.2 U	79 U	3.5 UJ	110 UJ	3.6 U
4,4'-DDT	UG/KG	80 J	7.7	6400	3.5 UJ	530 J	3.6 UJ
METHOXYCHLOR	UG/KG	96 UJ	22 U	400 U	18 UJ	550 UJ	19 U
ENDRIN KETONE	UG/KG	19 UJ	4.2 U	79 U	3.5 UJ	110 UJ	3.6 U
ENDRIN ALDEHYDE	UG/KG	19 UJ	4.2 U	79 U	3.5 UJ	110 UJ	3.6 U
ALPHA CHLORDANE	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 U
GAMMA CHLORDANE	UG/KG	9.6 UJ	2.2 U	40 U	1.8 UJ	55 UJ	1.9 U
TOXAPHENE	UG/KG	960 UJ	220 U	4000 U	180 UJ	5500 UJ	190 U
PCB-1016	UG/KG	190 UJ	42 U	790 U	35 UJ	1100 UJ	36 U
PCB-1221	UG/KG	380 UJ	86 U	1600 U	72 UJ	2200 UJ	73 U
PCB-1232	UG/KG	190 UJ	42 U	790 U	35 UJ	1100 UJ	36 U
PCB-1242	UG/KG	190 UJ	42 U	790 U	35 UJ	1100 UJ	36 U
PCB-1248	UG/KG	190 UJ	42 U	790 U	35 UJ	1100 UJ	36 U
PCB-1254	UG/KG	190 UJ	42 U	790 U	35 UJ	1100 UJ	36 U
PCB-1260	UG/KG	190 UJ	42 U	790 U	35 UJ	1100 UJ	36 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
BROMOMETHANE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
VINYL CHLORIDE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
CHLOROETHANE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	16 U	43 U	11 U	33 U	11 U
ACETONE	UG/KG	11 U	16 U	27 U	11 U	33 UJ	11 U
CARBON DISULFIDE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	16 U	27 UJ	11 UJ	33 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
CHLOROFORM	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U
2-BUTANONE	UG/KG	11 U	16 U	27 U	11 U	33 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201S-SB6-00	6-201S-SB7-00	6-201S-SB8-00	6-201S-SB9-00	6-203OSA-SB1-00	6-203OSA-SB10-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/14/92	9/14/92	9/13/92	9/13/92	9/14/92	9/12/92
Lab Id:	00510-18	00510-21	00519-15	00510-22	00511-03	00507-37
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	16 U	27 U	11 U	33 UJ
CARBON TETRACHLORIDE	UG/KG	11 U	16 U	27 U	11 U	33 UJ
BROMODICHLOROMETHANE	UG/KG	11 U	16 U	27 U	11 U	33 U
1,2-DICHLOROPROPANE	UG/KG	11 U	16 U	27 U	11 U	33 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	16 U	27 U	11 U	33 U
TRICHLOROETHENE	UG/KG	11 U	16 U	27 U	11 U	33 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	16 U	27 U	11 U	33 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	16 U	27 U	11 U	33 U
BENZENE	UG/KG	11 U	16 U	27 U	11 U	33 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	16 U	27 U	11 U	33 U
BROMOFORM	UG/KG	11 U	16 U	27 U	11 U	33 U
4-METHYL-2-PENTANONE	UG/KG	11 U	16 U	27 U	11 U	33 U
2-HEXANONE	UG/KG	11 U	16 U	27 U	11 U	33 U
TETRACHLOROETHENE	UG/KG	11 UJ	16 UJ	27 U	11 UJ	33 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	16 U	27 U	11 U	33 U
TOLUENE	UG/KG	11 U	16 U	27 U	11 U	33 U
CHLOROENZENE	UG/KG	11 U	16 U	27 U	11 U	33 U
ETHYLBENZENE	UG/KG	11 U	16 U	27 U	11 U	33 U
STYRENE	UG/KG	11 U	16 U	27 U	11 U	33 U
TOTAL XYLENES	UG/KG	11 U	16 U	27 U	11 U	33 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	370 U	420 U	790 U	350 U	1100 U
2-CHLOROPHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
1,3-DICHLOROBENZENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
1,4-DICHLOROBENZENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
1,2-DICHLOROBENZENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
2-METHYLPHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	370 U	420 U	790 U	350 U	1100 U
4-METHYLPHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	370 U	420 U	790 U	350 U	1100 U
HEXACHLOROETHANE	UG/KG	370 U	420 U	790 U	350 U	1100 U
NITROBENZENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
ISOPHORONE	UG/KG	370 U	420 U	790 U	350 U	1100 U
2-NITROPHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
2,4-DIMETHYLPHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	370 U	420 U	790 U	350 U	1100 U
2,4-DICHLOROPHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
1,2,4-TRICHLOROBENZENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
NAPHTHALENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
4-CHLORANILINE	UG/KG	370 U	420 U	790 U	350 U	1100 U
HEXACHLOROBUTADIENE	UG/KG	370 U	420 U	790 U	350 U	1100 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201S-SB6-00	6-201S-SB7-00	6-201S-SB8-00	6-201S-SB9-00	6-203OSA-SB1-00	6-203OSA-SB10-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/14/92	9/14/92	9/15/92	9/13/92	9/14/92	9/12/92
Lab Id:	00510-18	00510-21	00519-15	00510-22	00511-03	00507-37
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
2-METHYLNAPHTHALENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
2,4,6-TRICHLOROPHENOL	UG/KG	370 U	420 U	790 U	350 U	1100 U
2,4,5-TRICHLOROPHENOL	UG/KG	900 U	1000 U	1900 U	860 U	2600 U
2-CHLORONAPHTHALENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
2-NITROANILINE	UG/KG	900 U	1000 U	1900 U	860 U	2600 U
DIMETHYL PHTHALATE	UG/KG	370 U	420 U	790 U	350 U	1100 U
ACENAPHTHYLENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
2,6-DINITROTOLUENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
3-NITROANILINE	UG/KG	900 U	1000 U	1900 U	860 U	2600 U
ACENAPHTHENE	UG/KG	370 U	420 U	790 U	350 UJ	1100 U
2,4-DINITROPHENOL	UG/KG	900 U	1000 U	1900 U	860 U	2600 U
4-NITROPHENOL	UG/KG	900 U	1000 UJ	1900 U	860 U	2600 UJ
DIBENZOFURAN	UG/KG	370 U	420 U	790 U	350 U	1100 U
2,4-DINITROTOLUENE	UG/KG	370 U	420 U	790 U	350 UJ	1100 U
DIETHYL PHTHALATE	UG/KG	370 U	420 U	790 U	350 U	1100 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	370 U	420 UJ	790 U	350 UJ	1100 U
FLUORENE	UG/KG	370 U	420 U	790 U	350 UJ	1100 U
4-NITROANILINE	UG/KG	900 U	1000 U	1900 U	860 U	2600 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	900 U	1000 U	1900 U	860 U	2600 U
N-NITRISODIPHENYLAMINE	UG/KG	370 U	420 U	790 U	350 U	1100 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	370 U	420 U	790 U	350 U	1100 U
HEXACHLOROBENZENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
PENTACHLOROPHENOL	UG/KG	900 U	1000 U	1900 U	860 U	2600 U
PHENANTHRENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
ANTHRACENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
DI-N-BUTYL PHTHALATE	UG/KG	370 U	420 U	790 U	350 U	1100 U
FLUORANTHENE	UG/KG	370 U	420 U	790 U	350 U	300 J
CARBAZOLE	UG/KG	370 U	420 U	790 U	350 U	1100 U
PYRENE	UG/KG	370 UJ	420 UJ	790 U	350 U	270 J
BUTYL BENZYL PHTHALATE	UG/KG	370 U	420 U	790 U	350 U	140 J
3,3-DICHLOROBENZIDINE	UG/KG	370 U	420 U	790 U	350 U	1100 U
BENZO(A)ANTHRACENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
CHRYSENE	UG/KG	370 U	420 U	790 U	350 U	1100 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	370 U	130 J	120 J	350 U	180 J
DI-N-OCTYL PHTHALATE	UG/KG	370 U	420 U	790 U	350 U	1100 UJ
BENZO(B)FLUORANTHENE	UG/KG	370 U	420 U	54 J	350 U	140 J
BENZO(K)FLUORANTHENE	UG/KG	370 U	420 U	790 UJ	350 U	1100 UJ
BENZO(A)PYRENE	UG/KG	370 U	420 U	790 U	350 U	1100 UJ
INDENO(1,2,3-CD) PYRENE	UG/KG	370 U	420 U	790 U	350 U	1100 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	370 U	420 U	790 U	350 U	1100 UJ
BENZO(G,H,I)PERYLENE	UG/KG	370 U	420 U	790 U	350 U	1100 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB11-00	6-203OSA-SB12-00	6-203OSA-SB13-00	6-203OSA-SB14-00	6-203OSA-SB15-00	6-203OSA-SB16-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/9/92	9/13/92	9/13/92	9/11/92	9/11/92
Lab Id:	00507-40	00496-17	00511-16	00511-19	00507-42	00507-45
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 UJ	2.5 U	1.8 UJ	1.9 UJ	1.7 U
BETA-BHC	UG/KG	1.8 U	2.5 U	1.8 UJ	1.9 UJ	1.7 U
DELTA-BHC	UG/KG	1.8 UJ	2.5 U	1.8 UJ	1.9 UJ	1.7 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	2.5 U	1.8 UJ	1.9 UJ	1.7 U
HEPTACHLOR	UG/KG	1.8 U	2.5 U	1.8 UJ	1.9 UJ	1.7 U
ALDRIN	UG/KG	1.8 U	2.5 U	1.8 UJ	1.9 UJ	1.7 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	2.5 U	1.8 UJ	1.9 UJ	1.7 U
ENDOSULFAN I	UG/KG	1.8 U	2.5 U	1.8 UJ	1.9 UJ	1.7 U
DIELDRIN	UG/KG	3.6 U	4.8 U	9.2 J	38 J	6.4
4,4'-DDE	UG/KG	3.6 U	15 J	3.8 J	3.8 UJ	3.4 U
ENDRIN	UG/KG	3.6 U	4.8 U	3.5 UJ	3.8 UJ	3.4 U
ENDOSULFAN II	UG/KG	3.6 U	4.8 U	3.5 UJ	3.8 UJ	3.4 U
4,4'-DDD	UG/KG	3.6 U	4.8 U	3.5 UJ	3.8 UJ	3.4 U
ENDOSULFAN SULFATE	UG/KG	3.6 U	4.8 U	3.5 UJ	3.8 UJ	3.4 U
4,4'-DDT	UG/KG	3.6 UJ	5.9 J	3.5 UJ	3.8 UJ	5.8
METHOXYCHLOR	UG/KG	18 U	25 U	18 UJ	19 UJ	17 U
ENDRIN KETONE	UG/KG	3.6 U	4.8 U	3.5 UJ	3.8 UJ	3.4 U
ENDRIN ALDEHYDE	UG/KG	3.6 U	4.8 U	3.5 UJ	3.8 UJ	3.4 U
ALPHA CHLORDANE	UG/KG	1.8 U	2.5 U	1.8 UJ	1.9 UJ	1.7 U
GAMMA CHLORDANE	UG/KG	1.8 U	2.5 U	1.8 UJ	1.9 UJ	1.7 U
TOXAPHENE	UG/KG	180 U	250 U	180 UJ	190 UJ	170 U
PCB-1016	UG/KG	36 U	48 U	35 UJ	38 UJ	34 U
PCB-1221	UG/KG	73 U	97 U	70 UJ	77 UJ	68 U
PCB-1232	UG/KG	36 U	48 U	35 UJ	38 UJ	34 U
PCB-1242	UG/KG	36 U	48 U	35 UJ	38 UJ	34 U
PCB-1248	UG/KG	36 U	48 U	35 UJ	38 UJ	34 U
PCB-1254	UG/KG	36 U	48 U	35 UJ	38 UJ	34 U
PCB-1260	UG/KG	36 U	48 U	35 UJ	38 UJ	34 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	10 U	620 J	11 UJ	11 U	11 U
BROMOMETHANE	UG/KG	10 U	670 J	11 U	11 U	11 U
VINYL CHLORIDE	UG/KG	10 U	910 U	11 UJ	11 U	11 U
CHLOROETHANE	UG/KG	10 U	910 U	11 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	10 U	970 U	11 U	11 U	11 U
ACETONE	UG/KG	11 U	910 U	11 U	11 UJ	11 U
CARBON DISULFIDE	UG/KG	10 U	910 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	10 U	910 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	10 U	910 U	11 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	10 U	910 U	11 U	11 U	11 U
CHLOROFORM	UG/KG	10 U	910 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	10 U	910 U	11 U	11 U	11 U
2-BUTANONE	UG/KG	10 U	1700 U	11 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB11-00	6-203OSA-SB12-00	6-203OSA-SB13-00	6-203OSA-SB14-00	6-203OSA-SB15-00	6-203OSA-SB16-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/9/92	9/13/92	9/13/92	9/11/92	9/11/92
Lab Id:	00307-40	00496-17	00511-16	00511-19	00507-42	00307-45
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	10 U	910 U	11 U	11 U	10 U
CARBON TETRACHLORIDE	UG/KG	10 U	910 U	11 U	11 U	10 U
BROMODICHLOROMETHANE	UG/KG	10 U	910 U	11 U	11 U	10 U
1,2-DICHLOROPROPANE	UG/KG	10 U	910 U	11 U	11 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/KG	10 UJ	910 U	11 U	11 U	10 UJ
TRICHLOROETHENE	UG/KG	10 U	910 U	11 U	11 U	10 U
DIBROMOCHLOROMETHANE	UG/KG	10 U	910 U	11 U	11 U	10 U
1,1,2-TRICHLOROETHANE	UG/KG	10 U	910 U	11 U	11 U	10 U
BENZENE	UG/KG	10 U	910 U	11 U	11 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 UJ	910 U	11 U	11 UJ	10 UJ
BROMOFORM	UG/KG	10 U	910 U	11 U	11 U	10 U
4-METHYL-2-PENTANONE	UG/KG	10 U	910 U	11 U	11 U	10 U
2-HEXANONE	UG/KG	10 U	910 U	11 U	11 U	10 U
TETRACHLOROETHENE	UG/KG	10 U	7000 J	11 U	11 UJ	10 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	910 U	11 U	11 U	10 U
TOLUENE	UG/KG	10 U	120 J	11 U	11 U	10 U
CHLOROENZENE	UG/KG	10 U	910 U	11 U	11 U	10 U
ETHYLBENZENE	UG/KG	10 U	910 U	11 U	11 U	10 U
STYRENE	UG/KG	10 U	910 U	11 U	11 U	10 U
TOTAL XYLENES	UG/KG	10 U	910 U	11 U	11 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 UJ	470 U	350 U	380 U	330 UJ
2-CHLOROPHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
1,3-DICHLOROBENZENE	UG/KG	360 U	470 U	350 U	380 U	330 U
1,4-DICHLOROBENZENE	UG/KG	360 U	74 J	350 U	380 U	330 U
1,2-DICHLOROBENZENE	UG/KG	360 U	470 U	350 U	380 U	330 U
2-METHYLPHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 U	470 U	350 U	380 U	330 U
4-METHYLPHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	470 U	350 U	380 U	330 U
HEXACHLOROETHANE	UG/KG	360 U	470 U	350 U	380 U	330 U
NITROBENZENE	UG/KG	360 U	470 U	350 U	380 U	330 U
ISOPHORONE	UG/KG	360 U	470 U	350 U	380 U	330 U
2-NITROPHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
2,4-DIMETHYLPHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	470 U	350 U	380 U	330 U
2,4-DICHLOROPHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	470 U	350 U	380 U	330 U
NAPHTHALENE	UG/KG	360 U	470 U	350 U	380 U	330 U
4-CHLORANILINE	UG/KG	360 U	470 U	350 U	380 U	330 U
HEXACHLOROBUTADIENE	UG/KG	360 U	470 U	350 U	380 U	330 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB11-00	6-203OSA-SB12-00	6-203OSA-SB13-00	6-203OSA-SB14-00	6-203OSA-SB15-00	6-203OSA-SB16-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/9/92	9/13/92	9/13/92	9/11/92	9/11/92
Lab Id:	00507-40	00496-17	00511-16	00511-19	00507-42	00507-45
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
2-METHYLNAPHTHALENE	UG/KG	360 U	470 U	350 U	380 U	330 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	360 U	470 U	350 U	380 U	330 U
2,4,6-TRICHLOROPHENOL	UG/KG	360 U	470 U	350 U	380 U	330 U
2,4,5-TRICHLOROPHENOL	UG/KG	870 U	1100 U	850 U	920 U	800 U
2-CHLORONAPHTHALENE	UG/KG	360 U	470 U	350 U	380 U	330 U
2-NITROANILINE	UG/KG	870 U	1100 U	850 U	920 U	800 U
DIMETHYL PHTHALATE	UG/KG	360 U	470 U	350 U	380 U	330 U
ACENAPHTHYLENE	UG/KG	360 U	470 U	350 U	380 U	330 U
2,6-DINITROTOLUENE	UG/KG	360 U	470 U	350 U	380 U	330 U
3-NITROANILINE	UG/KG	870 U	1100 U	850 U	920 U	800 U
ACENAPHTHENE	UG/KG	360 U	470 U	350 U	380 U	330 U
2,4-DINITROPHENOL	UG/KG	870 U	1100 U	850 U	920 U	800 U
4-NITROPHENOL	UG/KG	870 U	1100 U	850 UJ	920 UJ	800 U
DIBENZOFURAN	UG/KG	360 U	470 U	350 U	380 U	330 U
2,4-DINITROTOLUENE	UG/KG	360 U	470 U	350 U	380 U	330 UJ
DIETHYL PHTHALATE	UG/KG	360 U	470 U	350 U	380 U	330 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	470 U	350 UJ	380 U	330 U
FLUORENE	UG/KG	360 U	470 U	350 U	380 U	330 U
4-NITROANILINE	UG/KG	870 U	1100 U	850 U	920 U	800 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	870 U	1100 U	850 U	920 U	800 U
N-NITRISODIPHENYLAMINE	UG/KG	360 U	470 U	350 U	380 U	330 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U	470 U	350 U	380 U	330 U
HEXACHLOROBENZENE	UG/KG	360 U	470 U	350 U	380 U	330 U
PENTACHLOROPHENOL	UG/KG	870 U	1100 U	850 U	920 U	800 UJ
PHENANTHRENE	UG/KG	360 U	470 U	350 U	380 U	330 U
ANTHRACENE	UG/KG	360 U	470 U	350 U	380 U	330 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U	470 U	350 U	380 U	330 U
FLUORANTHENE	UG/KG	360 U	470 U	350 U	380 U	380
CARBAZOLE	UG/KG	360 U	470 U	350 U	380 U	330 U
PYRENE	UG/KG	360 U	470 U	350 UJ	380 U	470
BUTYL BENZYL PHTHALATE	UG/KG	360 U	470 U	350 U	380 U	330 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U	470 U	350 U	380 U	330 U
BENZO(A)ANTHRACENE	UG/KG	360 U	470 U	350 U	380 U	320 J
CHRYSENE	UG/KG	360 U	470 U	350 U	380 U	240 J
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	360 U	56 J	350 UJ	53 J	330 U
DI-N-OCTYL PHTHALATE	UG/KG	360 U	470 U	350 U	380 U	330 U
BENZO(B)FLUORANTHENE	UG/KG	360 U	470 U	350 U	380 U	440
BENZO(K)FLUORANTHENE	UG/KG	360 U	470 U	350 U	380 U	110 J
BENZO(A)PYRENE	UG/KG	360 U	470 U	350 U	380 U	250 J
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U	470 U	350 U	380 U	210 J
DIBENZ(AH)ANTHRACENE	UG/KG	360 U	470 U	350 U	380 U	330 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U	470 U	350 U	380 U	330 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB17-00	6-203OSA-SB18-00	6-203OSA-SB19-00	6-203OSA-SB2-00	6-203OSA-SB20-00	6-203OSA-SB3-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92	9/12/92
Lab Id:	00496-05	00496-08	00511-21	00511-05	00511-23	00507-28
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 UJ
BETA-BHC	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 U
DELTA-BHC	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 UJ
HEPTACHLOR	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 U
ALDRIN	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 U
ENDOSULFAN I	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 U
DIELDRIN	UG/KG	3.4 U	3.4 U	3.7 UJ	3.7 UJ	3.4 U
4,4'-DDE	UG/KG	3.4 U	3.4 U	3.7 UJ	3.7 UJ	4.1
ENDRIN	UG/KG	3.4 U	3.4 U	3.7 UJ	3.7 UJ	3.4 U
ENDOSULFAN II	UG/KG	3.4 U	3.4 U	3.7 UJ	3.7 UJ	3.4 U
4,4'-DDD	UG/KG	3.4 U	3.4 U	3.7 UJ	3.7 UJ	3.4 U
ENDOSULFAN SULFATE	UG/KG	3.4 U	3.4 U	3.7 UJ	3.7 UJ	3.4 U
4,4'-DDT	UG/KG	3.4 J	3.4 U	3.7 UJ	3.7 UJ	11 J
METHOXYCHLOR	UG/KG	18 U	18 U	19 UJ	19 UJ	18 U
ENDRIN KETONE	UG/KG	3.4 U	3.4 U	3.7 UJ	3.7 UJ	3.4 U
ENDRIN ALDEHYDE	UG/KG	3.4 U	3.4 U	3.7 UJ	3.7 UJ	3.4 U
ALPHA CHLORDANE	UG/KG	3.6 J	1.8 U	1.9 UJ	1.9 UJ	1.8 U
GAMMA CHLORDANE	UG/KG	1.8 U	1.8 U	1.9 UJ	1.9 UJ	1.8 U
TOXAPHENE	UG/KG	180 U	180 U	190 UJ	190 UJ	180 U
PCB-1016	UG/KG	34 U	34 U	37 UJ	37 UJ	34 U
PCB-1221	UG/KG	69 U	70 U	76 UJ	75 UJ	70 U
PCB-1232	UG/KG	34 U	34 U	37 UJ	37 UJ	34 U
PCB-1242	UG/KG	34 U	34 U	37 UJ	37 UJ	34 U
PCB-1248	UG/KG	34 U	34 U	37 UJ	37 UJ	34 U
PCB-1254	UG/KG	34 U	34 U	37 UJ	37 UJ	34 U
PCB-1260	UG/KG	34 U	34 U	37 UJ	37 UJ	34 U
VOLATILES						
CHLOROMETHANE	UG/KG	11 U	10 U	11 U	12 UJ	11 U
BROMOMETHANE	UG/KG	11 U	10 U	11 U	12 U	11 U
VINYL CHLORIDE	UG/KG	11 U	10 U	11 U	12 U	11 U
CHLOROETHANE	UG/KG	11 U	10 U	11 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	10 U	11 U	12 U	11 U
ACETONE	UG/KG	11 UJ	10 U	11 UJ	12 U	11 U
CARBON DISULFIDE	UG/KG	11 U	10 U	11 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	10 U	11 U	12 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	10 U	11 U	12 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	10 U	11 U	12 U	11 U
CHLOROFORM	UG/KG	11 U	10 U	11 U	12 U	11 UJ
1,2-DICHLOROETHANE	UG/KG	11 U	10 UJ	11 U	12 U	11 U
2-BUTANONE	UG/KG	11 U	10 U	11 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB17-00	6-203OSA-SB18-00	6-203OSA-SB19-00	6-203OSA-SB2-00	6-203OSA-SB20-00	6-203OSA-SB3-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92	9/12/92
Lab Id:	00496-05	00496-08	00511-21	00511-05	00511-23	00507-28
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	10 U	11 U	12 U	11 U
CARBON TETRACHLORIDE	UG/KG	11 U	10 U	11 U	12 U	11 U
BROMODICHLOROMETHANE	UG/KG	11 U	10 U	11 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	10 U	11 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	10 U	11 U	12 U	11 U
TRICHLOROETHENE	UG/KG	11 U	10 U	11 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	10 U	11 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	10 U	11 U	12 U	11 U
BENZENE	UG/KG	11 U	10 U	11 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	10 U	11 U	12 U	11 U
BROMOFORM	UG/KG	11 U	10 U	11 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	10 U	11 U	12 U	11 U
2-HEXANONE	UG/KG	11 U	10 U	11 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	10 U	11 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	10 U	11 U	12 U	11 U
TOLUENE	UG/KG	11 U	10 U	11 U	12 U	11 U
CHLOROBENZENE	UG/KG	11 U	10 U	11 U	12 U	11 U
ETHYLBENZENE	UG/KG	11 U	10 U	11 U	12 U	11 U
STYRENE	UG/KG	11 U	10 U	11 U	12 U	11 U
TOTAL XYLENES	UG/KG	11 U	10 U	11 U	12 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	330 U	340 U	370 U	370 U	370 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	330 U	340 U	370 U	370 U	370 U
2-CHLOROPHENOL	UG/KG	330 U	340 U	370 U	370 U	370 U
1,3-DICHLOROBENZENE	UG/KG	330 U	340 U	370 U	370 U	370 U
1,4-DICHLOROBENZENE	UG/KG	330 U	340 U	370 U	370 U	370 U
1,2-DICHLOROBENZENE	UG/KG	330 U	340 U	370 U	370 U	370 U
2-METHYLPHENOL	UG/KG	330 U	340 U	370 U	370 U	370 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 U	340 U	370 U	370 U	370 U
4-METHYLPHENOL	UG/KG	330 U	340 U	370 U	370 U	370 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 U	340 U	370 U	370 U	370 U
HEXACHLOROETHANE	UG/KG	330 U	340 U	370 U	370 U	370 U
NITROBENZENE	UG/KG	330 U	340 U	370 U	370 U	370 U
ISOPHORONE	UG/KG	330 U	340 U	370 U	370 U	370 U
2-NITROPHENOL	UG/KG	330 U	340 U	370 U	370 U	370 U
2,4-DIMETHYLPHENOL	UG/KG	330 U	340 U	370 U	370 U	370 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 U	340 U	370 U	370 U	370 U
2,4-DICHLOROPHENOL	UG/KG	330 U	340 U	370 U	370 U	370 U
1,2,4-TRICHLOROBENZENE	UG/KG	330 U	340 U	370 U	370 U	370 U
NAPHTHALENE	UG/KG	330 U	340 U	370 U	370 U	370 U
4-CHLORANILINE	UG/KG	330 U	340 U	370 U	370 U	370 U
HEXACHLOROBUTADIENE	UG/KG	330 U	340 U	370 U	370 U	370 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB17-00	6-203OSA-SB18-00	6-203OSA-SB19-00	6-203OSA-SB2-00	6-203OSA-SB20-00	6-203OSA-SB3-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92	9/12/92
Lab Id:	00496-05	00496-08	00511-21	00511-05	00511-23	00507-28
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	330 U	340 U	370 U	370 U	350 U
2-METHYLNAPHTHALENE	UG/KG	330 U	340 U	370 U	370 U	350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	330 U	340 U	370 U	370 U	350 U
2,4,6-TRICHLOROPHENOL	UG/KG	330 U	340 U	370 U	370 U	350 U
2,4,5-TRICHLOROPHENOL	UG/KG	810 U	820 U	900 U	890 U	840 U
2-CHLORONAPHTHALENE	UG/KG	330 U	340 U	370 U	370 U	350 U
2-NITROANILINE	UG/KG	810 U	820 U	900 U	890 U	840 U
DIMETHYL PHTHALATE	UG/KG	330 U	340 U	370 U	370 U	350 U
ACENAPHTHYLENE	UG/KG	330 U	340 U	370 U	370 U	350 U
2,6-DINITROTOLUENE	UG/KG	330 U	340 U	370 U	370 U	350 U
3-NITROANILINE	UG/KG	810 U	820 U	900 U	890 U	840 U
ACENAPHTHENE	UG/KG	330 U	340 U	370 U	370 U	350 U
2,4-DINITROPHENOL	UG/KG	810 U	820 U	900 U	890 U	840 U
4-NITROPHENOL	UG/KG	810 U	820 U	900 U	890 U	840 U
DIBENZOFURAN	UG/KG	330 U	340 U	370 U	370 U	350 U
2,4-DINITROTOLUENE	UG/KG	330 U	340 U	370 U	370 U	350 U
DIETHYL PHTHALATE	UG/KG	330 U	340 U	370 U	370 U	350 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	330 U	340 U	370 U	370 U	350 U
FLUORENE	UG/KG	330 U	340 U	370 U	370 U	350 U
4-NITROANILINE	UG/KG	810 U	820 U	900 U	890 U	840 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	810 U	820 U	900 U	890 U	840 U
N-NITROSODIPHENYLAMINE	UG/KG	330 U	340 U	370 U	370 U	350 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	330 U	340 U	370 U	370 U	350 U
HEXACHLOROBENZENE	UG/KG	330 U	340 U	370 U	370 U	350 U
PENTACHLOROPHENOL	UG/KG	810 U	820 U	900 U	890 U	840 U
PHENANTHRENE	UG/KG	330 U	340 U	370 U	370 U	350 U
ANTHRACENE	UG/KG	330 U	340 U	370 U	370 U	350 U
DI-N-BUTYL PHTHALATE	UG/KG	330 U	340 U	370 U	370 U	350 U
FLUORANTHENE	UG/KG	330 U	340 U	370 U	370 U	350 U
CARBAZOLE	UG/KG	330 U	340 U	370 U	370 U	350 U
PYRENE	UG/KG	330 U	340 U	370 U	370 U	350 U
BUTYL BENZYL PHTHALATE	UG/KG	330 U	340 U	370 U	370 U	350 U
3,3-DICHLOROBENZIDINE	UG/KG	330 U	340 U	370 U	370 U	350 U
BENZO(A)ANTHRACENE	UG/KG	330 U	340 U	370 U	370 U	350 U
CHRYSENE	UG/KG	330 U	340 U	370 U	370 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	330 U	340 U	48 J	87 J	350 U
DI-N-OCTYL PHTHALATE	UG/KG	330 U	340 U	370 U	370 U	350 U
BENZO(B)FLUORANTHENE	UG/KG	330 U	340 U	370 U	370 U	350 U
BENZO(K)FLUORANTHENE	UG/KG	330 U	340 U	370 U	370 U	350 U
BENZO(A)PYRENE	UG/KG	330 U	340 U	370 U	370 U	350 U
INDENO(1,2,3-CD) PYRENE	UG/KG	330 U	340 U	370 U	370 U	350 U
DIBENZ(A,H)ANTHRACENE	UG/KG	330 U	340 U	370 U	370 U	350 U
BENZO(G,H,I)PERYLENE	UG/KG	330 U	340 U	370 U	370 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB4-00	6-203OSA-SB5-00	6-203OSA-SB6-00	6-203OSA-SB7-00	6-203OSA-SB8-00	6-203OSA-SB9-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/11/92	9/10/92	9/14/92	9/13/92	9/13/92
Lab Id:	00507-32	00507-35	00496-16	00511-07	00511-09	00511-13
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.9 UJ	1.8 UJ	4.9 U	18 UJ	2.2 UR
BETA-BHC	UG/KG	1.9 U	1.8 U	4.9 U	18 UJ	2.2 UR
DELTA-BHC	UG/KG	1.9 UJ	1.8 UJ	4.9 U	18 UJ	2.2 UR
GAMMA-BHC(LINDANE)	UG/KG	1.9 UJ	1.8 UJ	4.9 U	18 UJ	2.2 UR
HEPTACHLOR	UG/KG	1.9 U	1.8 U	4.9 U	18 UJ	2.2 UR
ALDRIN	UG/KG	1.9 U	1.8 U	4.9 U	18 UJ	2.2 UR
HEPTACHLOR EPOXIDE	UG/KG	1.9 U	1.8 U	4.9 U	18 UJ	2.2 UR
ENDOSULFAN I	UG/KG	1.9 U	1.8 U	4.9 U	18 UJ	2.2 UR
DIELDRIN	UG/KG	3.6 U	3.5 U	9.6 U	35 UJ	4.3 UR
4,4'-DDE	UG/KG	3.6 U	3.5 U	9.6 U	170 J	4.3 UR
ENDRIN	UG/KG	3.6 U	3.5 U	9.6 U	35 UJ	4.3 UR
ENDOSULFAN II	UG/KG	3.6 U	3.5 U	9.6 U	35 UJ	4.3 UR
4,4'-DDD	UG/KG	3.6 U	3.5 U	9.6 U	35 UJ	4.3 UR
ENDOSULFAN SULFATE	UG/KG	3.6 U	3.5 U	9.6 U	35 UJ	4.3 UR
4,4'-DDT	UG/KG	3.6 UJ	3.5 UJ	9.6 U	180 J	4.3 UR
METHOXYCHLOR	UG/KG	19 U	18 U	49 U	180 UJ	22 UR
ENDRIN KETONE	UG/KG	3.6 U	3.5 U	9.6 U	35 UJ	4.3 UR
ENDRIN ALDEHYDE	UG/KG	3.6 U	3.5 U	9.6 U	35 UJ	4.3 UR
ALPHA CHLORDANE	UG/KG	1.9 U	1.8 U	4.9 U	18 UJ	2.2 UR
GAMMA CHLORDANE	UG/KG	1.9 U	1.8 U	4.9 U	18 UJ	2.2 UR
TOXAPHENE	UG/KG	190 U	180 U	490 U	1800 UJ	220 UR
PCB-1016	UG/KG	36 U	35 U	96 U	350 UJ	43 UR
PCB-1221	UG/KG	74 U	71 U	190 U	710 UJ	87 UR
PCB-1232	UG/KG	36 U	35 U	96 U	350 UJ	43 UR
PCB-1242	UG/KG	36 U	35 U	96 U	350 UJ	43 UR
PCB-1248	UG/KG	36 U	35 U	96 U	350 UJ	43 UR
PCB-1254	UG/KG	36 U	35 U	96 U	350 UJ	43 UR
PCB-1260	UG/KG	36 U	35 U	96 U	350 UJ	43 UR
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U	11 U	9800	11 U	11 U
BROMOMETHANE	UG/KG	11 U	11 U	3700 J	11 U	11 U
VINYL CHLORIDE	UG/KG	11 U	11 U	4000 U	11 U	11 U
CHLOROETHANE	UG/KG	11 U	11 U	4000 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	4000 U	11 U	11 U
ACETONE	UG/KG	11 U	11 U	4000 U	11 U	11 UJ
CARBON DISULFIDE	UG/KG	11 U	11 U	4000 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	4000 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	4000 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	1500 J	11 U	11 U
CHLOROFORM	UG/KG	11 UJ	11 UJ	4000 U	11 UJ	11 U
1,2-DICHLOROETHANE	UG/KG	11 UJ	11 UJ	4000 U	11 U	11 U
2-BUTANONE	UG/KG	11 U	11 U	4000 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB4-00	6-203OSA-SB5-00	6-203OSA-SB6-00	6-203OSA-SB7-00	6-203OSA-SB8-00	6-203OSA-SB9-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/11/92	9/10/92	9/14/92	9/13/92	9/13/92
Lab Id:	00507-32	00507-35	00496-16	00511-07	00511-09	00511-13
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	2 J	1 J	4000 U	11 UJ	11 U
CARBON TETRACHLORIDE	UG/KG	11 U	11 U	4000 U	11 UJ	11 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	4000 U	11 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	4000 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	4000 U	11 U	11 U
TRICHLOROETHENE	UG/KG	11 U	11 U	4600	11 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	4000 U	11 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	4000 U	11 U	11 U
BENZENE	UG/KG	11 U	11 U	850 J	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	4000 U	11 U	11 U
BROMOFORM	UG/KG	11 U	11 U	4000 U	11 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	4000 U	11 U	11 U
2-HEXANONE	UG/KG	11 U	11 U	4000 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	2600 J	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	55000	11 U	11 U
TOLUENE	UG/KG	11 U	11 U	4000 U	11 U	11 U
CHLOROBENZENE	UG/KG	11 U	11 U	4000 U	11 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	4000 U	11 U	11 U
STYRENE	UG/KG	11 U	11 U	4000 U	11 U	2 J
TOTAL XYLENES	UG/KG	11 U	11 U	4000 U	11 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	360 U	350 U	950 U	350 U	430 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 U	350 UJ	950 U	350 U	430 U
2-CHLOROPHENOL	UG/KG	360 U	350 U	950 U	350 U	430 U
1,3-DICHLOROBENZENE	UG/KG	360 U	350 U	950 U	350 U	430 U
1,4-DICHLOROBENZENE	UG/KG	360 U	350 U	950 U	350 U	430 U
1,2-DICHLOROBENZENE	UG/KG	360 U	350 U	950 U	350 U	430 U
2-METHYLPHENOL	UG/KG	360 U	350 U	950 U	350 U	430 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 U	350 U	950 U	350 U	430 U
4-METHYLPHENOL	UG/KG	360 U	350 U	120 J	350 U	430 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	350 U	950 UJ	350 U	430 U
HEXACHLOROETHANE	UG/KG	360 U	350 U	950 U	350 U	430 U
NITROBENZENE	UG/KG	360 U	350 U	950 UJ	350 U	430 U
ISOPHORONE	UG/KG	360 U	350 U	950 UJ	350 U	430 U
2-NITROPHENOL	UG/KG	360 U	350 U	950 U	350 U	430 U
2,4-DIMETHYLPHENOL	UG/KG	360 U	350 U	950 U	350 U	430 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	350 U	950 U	350 U	430 U
2,4-DICHLOROPHENOL	UG/KG	360 U	350 U	950 U	350 U	430 U
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	350 U	950 U	350 U	430 U
NAPHTHALENE	UG/KG	360 U	350 U	950 U	350 U	430 U
4-CHLORANILINE	UG/KG	360 U	350 U	950 U	350 U	430 U
HEXACHLOROBUTADIENE	UG/KG	360 U	350 U	950 U	350 U	430 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB4-00	6-203OSA-SB5-00	6-203OSA-SB6-00	6-203OSA-SB7-00	6-203OSA-SB8-00	6-203OSA-SB9-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/11/92	9/10/92	9/14/92	9/13/92	9/13/92
Lab Id:	00507-32	00507-35	00496-16	00511-07	00511-09	00511-13
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	360 U	350 U	950 U	350 U	330 U
2-METHYLNAPHTHALENE	UG/KG	360 U	350 U	950 U	350 U	330 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	360 U	350 U	950 U	350 U	330 U
2,4,6-TRICHLOROPHENOL	UG/KG	360 U	350 U	950 U	350 U	330 U
2,4,5-TRICHLOROPHENOL	UG/KG	870 U	850 U	2300 U	850 U	810 U
2-CHLORONAPHTHALENE	UG/KG	360 U	350 U	950 U	350 U	330 U
2-NITROANILINE	UG/KG	870 U	850 U	2300 U	850 U	810 U
DIMETHYL PHTHALATE	UG/KG	360 U	350 U	950 U	350 U	330 U
ACENAPHTHYLENE	UG/KG	360 U	350 U	950 U	350 U	330 U
2,6-DINITROTOLUENE	UG/KG	360 UJ	350 U	950 U	350 U	330 U
3-NITROANILINE	UG/KG	870 U	850 U	2300 U	850 U	810 U
ACENAPHTHENE	UG/KG	360 U	350 U	950 U	350 U	330 U
2,4-DINITROPHENOL	UG/KG	870 U	850 U	2300 U	850 U	810 U
4-NITROPHENOL	UG/KG	870 U	850 U	2300 U	850 UJ	810 UJ
DIBENZOFURAN	UG/KG	360 U	350 U	950 U	350 U	330 U
2,4-DINITROTOLUENE	UG/KG	360 UJ	350 U	950 U	350 U	330 U
DIETHYL PHTHALATE	UG/KG	360 U	350 U	950 U	350 U	330 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	350 U	950 U	350 U	330 UJ
FLUORENE	UG/KG	360 U	350 U	950 U	350 U	330 U
4-NITROANILINE	UG/KG	870 U	850 U	2300 U	850 U	810 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	870 U	850 U	2300 U	850 U	810 U
N-NITRISODIPHENYLAMINE	UG/KG	360 U	350 U	950 U	350 U	330 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U	350 U	950 U	350 U	330 U
HEXACHLOROBENZENE	UG/KG	360 UJ	350 U	950 U	350 U	330 U
PENTACHLOROPHENOL	UG/KG	870 UJ	850 U	2300 U	850 U	810 U
PHENANTHRENE	UG/KG	360 U	350 U	950 U	350 U	330 U
ANTHRACENE	UG/KG	360 U	350 U	950 U	350 U	330 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U	350 U	950 U	350 U	330 U
FLUORANTHENE	UG/KG	360 U	350 U	950 U	65 J	330 U
CARBAZOLE	UG/KG	360 U	350 U	950 U	350 U	330 U
PYRENE	UG/KG	360 U	350 U	950 U	87 J	330 UJ
BUTYL BENZYL PHTHALATE	UG/KG	360 U	350 U	950 U	350 U	330 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U	350 U	950 U	350 U	330 U
BENZO(A)ANTHRACENE	UG/KG	360 U	350 U	950 U	58 J	330 U
CHRYSENE	UG/KG	360 U	350 U	950 U	50 J	330 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	360 U	350 U	190 J	110 J	330 UJ
DI-N-OCTYL PHTHALATE	UG/KG	360 U	350 U	950 U	350 U	330 U
BENZO(B)FLUORANTHENE	UG/KG	360 U	350 U	950 U	80 J	330 U
BENZO(K)FLUORANTHENE	UG/KG	360 U	350 U	950 U	350 U	330 U
BENZO(A)PYRENE	UG/KG	360 U	350 U	950 U	40 J	330 U
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U	350 U	950 U	350 U	330 U
DIBENZ(AH)ANTHRACENE	UG/KG	360 U	350 U	950 U	350 U	330 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U	350 U	950 U	350 U	330 U

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB1-00	6-RAV-SB10-00	6-RAV-SB11-00	6-RAV-SB12-00	6-RAV-SB13-00	6-RAV-SB14-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/10/92	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	
Lab Id:	00502-26	00512-14	00512-17	00512-19	00512-22	00512-24	
Parameter	Units						
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
BETA-BHC	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
DELTA-BHC	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
HEPTACHLOR	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
ALDRIN	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
ENDOSULFAN I	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
DIELDRIN	UG/KG	3.5 UJ	12 J	87 J	18 UR	4.1 UR	36 U
4,4'-DDE	UG/KG	3.5 UJ	220 J	7.1 UR	140 J	4.1 UR	200
ENDRIN	UG/KG	3.5 UJ	7.5 UJ	7.1 UR	18 UR	5.6 J	36 U
ENDOSULFAN II	UG/KG	3.5 UJ	7.5 UJ	7.1 UR	18 UR	4.1 UR	36 U
4,4'-DDD	UG/KG	3.5 UJ	19 J	7.1 UR	18 UR	4.1 UR	36 U
ENDOSULFAN SULFATE	UG/KG	3.5 UJ	7.5 UJ	7.1 UR	18 UR	4.1 UR	36 U
4,4'-DDT	UG/KG	3.5 UJ	510 J	7.1 UR	130 J	4.1 UR	240 J
METHOXYCHLOR	UG/KG	18 UJ	39 UJ	37 UR	92 UR	21 UR	190 U
ENDRIN KETONE	UG/KG	3.5 UJ	7.5 UJ	7.1 UR	18 UR	4.1 UR	36 U
ENDRIN ALDEHYDE	UG/KG	3.5 UJ	7.5 UJ	7.1 UR	18 UR	4.1 UR	36 U
ALPHA CHLORDANE	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
GAMMA CHLORDANE	UG/KG	1.8 UJ	3.9 UJ	3.7 UR	9.2 UR	2.1 UR	19 U
TOXAPHENE	UG/KG	180 UJ	390 UJ	370 UR	920 UR	210 UR	1900 U
PCB-1016	UG/KG	35 UJ	75 UJ	71 UR	180 UR	41 UR	360 U
PCB-1221	UG/KG	71 UJ	150 UJ	140 UR	360 UR	83 UR	730 U
PCB-1232	UG/KG	35 UJ	75 UJ	71 UR	180 UR	41 UR	360 U
PCB-1242	UG/KG	35 UJ	75 UJ	71 UR	180 UR	41 UR	360 U
PCB-1248	UG/KG	35 UJ	75 UJ	71 UR	180 UR	41 UR	360 U
PCB-1254	UG/KG	35 UJ	75 UJ	71 UR	180 UR	41 UR	360 U
PCB-1260	UG/KG	35 UJ	180 J	71 UR	180 UR	41 UR	360 U
VOLATILES							
CHLOROMETHANE	UG/KG	11 U	12 UJ	11 U	11 UJ	13 U	12 UJ
BROMOMETHANE	UG/KG	11 U	12 U	11 U	11 U	13 U	12 U
VINYL CHLORIDE	UG/KG	11 U	12 UJ	11 U	11 U	13 U	12 U
CHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	13 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	12 U	11 U	11 U	53 UJ	12 U
ACETONE	UG/KG	11 UJ	12 U	11 U	11 U	13 U	12 U
CARBON DISULFIDE	UG/KG	11 U	12 U	11 U	11 U	13 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	12 U	11 U	11 U	13 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	12 U	11 U	11 UJ	13 U	12 UJ
1,2-DICHLOROETHENE	UG/KG	11 U	12 U	11 U	11 U	13 U	12 U
CHLOROFORM	UG/KG	11 U	12 U	11 U	11 U	13 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	13 UJ	12 U
2-BUTANONE	UG/KG	11 U	12 U	11 U	11 U	13 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB1-00	6-RAV-SB10-00	6-RAV-SB11-00	6-RAV-SB12-00	6-RAV-SB13-00	6-RAV-SB14-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/10/92	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92
Lab Id:	00502-26	00512-14	00512-17	00512-19	00512-22	00512-24
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	13 U
CARBON TETRACHLORIDE	UG/KG	11 U	12 U	11 U	11 UJ	13 U
BROMODICHLOROMETHANE	UG/KG	11 U	12 U	11 U	11 UJ	13 U
1,2-DICHLOROPROPANE	UG/KG	11 U	12 U	11 U	11 U	13 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 UJ	11 U	11 U	13 U
TRICHLOROETHENE	UG/KG	11 U	12 U	11 U	11 UJ	13 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	12 U	11 U	11 UJ	13 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	12 U	11 U	11 UJ	13 U
BENZENE	UG/KG	11 U	12 U	11 U	11 UJ	13 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	12 UJ	11 U	11 U	13 U
BROMOFORM	UG/KG	11 U	12 U	11 U	11 UJ	13 U
4-METHYL-2-PENTANONE	UG/KG	11 U	12 U	11 U	11 U	13 U
2-HEXANONE	UG/KG	11 U	12 U	11 U	11 U	13 UJ
TETRACHLOROETHENE	UG/KG	11 U	12 U	11 U	11 UJ	13 UJ
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	12 U	11 U	11 U	13 UJ
TOLUENE	UG/KG	11 U	12 U	11 U	11 U	13 UJ
CHLOROENZENE	UG/KG	11 U	12 U	11 U	11 UJ	13 UJ
ETHYLBENZENE	UG/KG	11 U	12 U	11 U	11 U	13 UJ
STYRENE	UG/KG	11 U	12 U	11 U	11 UJ	13 UJ
TOTAL XYLENES	UG/KG	11 U	12 U	11 U	11 UJ	13 UJ
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	350 U	370 U	380 U	350 UJ	410 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U	370 U	380 U	350 U	410 U
2-CHLOROPHENOL	UG/KG	350 U	370 U	380 U	350 U	410 U
1,3-DICHLOROBENZENE	UG/KG	350 U	370 U	380 U	350 U	410 U
1,4-DICHLOROBENZENE	UG/KG	350 U	370 U	380 U	350 U	60 J
1,2-DICHLOROBENZENE	UG/KG	350 U	370 U	380 U	350 U	410 U
2-METHYLPHENOL	UG/KG	350 U	370 U	380 U	350 U	410 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U	370 U	380 U	350 U	410 U
4-METHYLPHENOL	UG/KG	350 U	370 U	380 U	350 U	410 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U	370 U	380 U	350 U	410 U
HEXACHLOROETHANE	UG/KG	350 U	370 U	380 U	350 U	410 U
NITROBENZENE	UG/KG	350 U	370 U	380 U	350 U	410 U
ISOPHORONE	UG/KG	350 U	370 U	380 U	350 U	410 U
2-NITROPHENOL	UG/KG	350 U	370 U	380 U	350 U	410 U
2,4-DIMETHYLPHENOL	UG/KG	350 U	370 U	380 U	350 U	410 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U	370 U	380 U	350 U	410 U
2,4-DICHLOROPHENOL	UG/KG	350 U	370 U	380 U	350 U	410 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U	370 U	380 U	350 U	410 U
NAPHTHALENE	UG/KG	350 U	370 U	380 U	350 U	410 U
4-CHLORANILINE	UG/KG	350 U	370 U	380 U	350 U	410 U
HEXACHLOROBUTADIENE	UG/KG	350 U	370 U	380 U	350 U	410 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB1-00	6-RAV-SB10-00	6-RAV-SB11-00	6-RAV-SB12-00	6-RAV-SB13-00	6-RAV-SB14-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/10/92	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	
Lab Id:	00502-26	00512-14	00512-17	00512-19	00512-22	00512-24	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
2-METHYLNAPHTHALENE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
2,4,5-TRICHLOROPHENOL	UG/KG	850 U	910 U	920 U	860 U	1000 U	880 U
2-CHLORONAPHTHALENE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
2-NITROANILINE	UG/KG	850 U	910 U	920 U	860 U	1000 U	880 U
DIMETHYL PHTHALATE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
ACENAPHTHYLENE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
2,6-DINITROTOLUENE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
3-NITROANILINE	UG/KG	850 U	910 U	920 U	860 U	1000 U	880 U
ACENAPHTHENE	UG/KG	350 U	370 U	380 U	350 U	410 U	370
2,4-DINITROPHENOL	UG/KG	850 U	910 U	920 U	860 U	1000 U	880 U
4-NITROPHENOL	UG/KG	850 U	910 U	920 U	860 U	1000 U	880 U
DIBENZOFURAN	UG/KG	350 U	370 U	380 U	350 U	410 U	120 J
2,4-DINITROTOLUENE	UG/KG	350 UJ	370 U	380 U	350 U	410 U	360 U
DIETHYL PHTHALATE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 UJ	370 U	380 U	350 U	410 U	360 U
FLUORENE	UG/KG	350 UJ	370 U	380 U	350 U	410 U	200 J
4-NITROANILINE	UG/KG	850 U	910 U	920 U	860 U	1000 U	880 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	850 U	910 U	920 U	860 U	1000 U	880 U
N-NITRISODIPHENYLAMINE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
HEXACHLOROBENZENE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
PENTACHLOROPHENOL	UG/KG	850 U	910 U	920 U	860 UJ	1000 UJ	880 UJ
PHENANTHRENE	UG/KG	350 U	370 U	91 J	350 U	410 U	1500
ANTHRACENE	UG/KG	350 U	370 U	170 J	350 U	410 U	260 J
DI-N-BUTYL PHTHALATE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
FLUORANTHENE	UG/KG	350 UJ	83 J	2000 J	350 U	410 U	1400
CARBAZOLE	UG/KG	350 U	370 U	380 U	350 U	410 U	190 J
PYRENE	UG/KG	350 U	110 J	2700	350 U	410 U	1600
BUTYL BENZYL PHTHALATE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
3,3-DICHLOROBENZIDINE	UG/KG	350 U	370 U	380 U	350 U	410 U	360 U
BENZO(A)ANTHRACENE	UG/KG	350 U	59 J	2200	350 U	410 U	750
CHRYSENE	UG/KG	350 U	59 J	1600	350 U	410 U	590
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 U	75 J	59 J	350 U	320 J	71 J
DI-N-OCTYL PHTHALATE	UG/KG	350 UJ	370 U	380 U	350 U	410 U	360 U
BENZO(B)FLUORANTHENE	UG/KG	350 U	95 J	2200	350 U	410 U	970
BENZO(K)FLUORANTHENE	UG/KG	350 U	25 J	490	350 U	410 U	260 J
BENZO(A)PYRENE	UG/KG	350 U	50 J	1500	350 U	410 U	600
INDENO(1,2,3-CD) PYRENE	UG/KG	350 U	370 U	1300	350 U	410 U	360 U
DIBENZ(A,H)ANTHRACENE	UG/KG	350 U	370 UJ	380 J	350 U	410 U	360 U
BENZO(G,H,I)PERYLENE	UG/KG	350 U	370 UJ	1300 J	350 U	410 U	430

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB15-00	6-RAV-SB16-00	6-RAV-SB2-00	6-RAV-SB3-00	6-RAV-SB4-00	6-RAV-SB4A-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/09/92	10/09/92	9/10/92	9/11/92	9/11/92	9/14/92	
Lab Id:	00570-05	00570-07	00502-28	00502-30	00502-33	00512-01	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
BETA-BHC	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
DELTA-BHC	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
GAMMA-BHC(LINDANE)	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
HEPTACHLOR	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
ALDRIN	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
HEPTACHLOR EPOXIDE	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
ENDOSULFAN I	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
DIELDRIN	UG/KG	14 J	5.8 U	4 UJ	3.4 U	4.6	6.8 U
4,4'-DDE	UG/KG	17 J	7.5	4 UJ	3.4 U	3.4 U	49
ENDRIN	UG/KG	9.9 UJ	5.8 U	4 UJ	3.4 U	3.4 U	6.8 U
ENDOSULFAN II	UG/KG	9.9 UJ	5.8 U	4 UJ	3.4 U	3.4 U	6.8 U
4,4'-DDD	UG/KG	9.9 UJ	5.8 U	4 UJ	3.4 U	3.4 U	6.8 U
ENDOSULFAN SULFATE	UG/KG	9.9 UJ	5.8 U	4 UJ	3.4 U	3.4 U	6.8 U
4,4'-DDT	UG/KG	73 J	25	4 UJ	3.4 U	3.4 U	71 J
METHOXYCHLOR	UG/KG	51 UJ	30 U	20 UJ	18 U	17 U	35 U
ENDRIN KETONE	UG/KG	9.9 UJ	5.8 U	4 UJ	3.4 U	3.4 U	6.8 U
ENDRIN ALDEHYDE	UG/KG	9.9 UJ	5.8 U	4 UJ	3.4 U	3.4 U	6.8 U
ALPHA CHLORDANE	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
GAMMA CHLORDANE	UG/KG	5.1 UJ	3 U	2 UJ	1.8 U	1.7 U	3.5 U
TOXAPHENE	UG/KG	510 UJ	300 U	200 UJ	180 U	170 U	350 U
PCB-1016	UG/KG	99 UJ	58 U	40 UJ	34 U	34 U	68 U
PCB-1221	UG/KG	200 UJ	120 U	80 UJ	69 U	69 U	140 U
PCB-1232	UG/KG	99 UJ	58 U	40 UJ	34 U	34 U	68 U
PCB-1242	UG/KG	99 UJ	58 U	40 UJ	34 U	34 U	68 U
PCB-1248	UG/KG	99 UJ	58 U	40 UJ	34 U	34 U	68 U
PCB-1254	UG/KG	99 UJ	58 U	40 UJ	34 U	34 U	68 U
PCB-1260	UG/KG	99 UJ	58 U	40 UJ	34 U	34 U	68 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 UJ
BROMOMETHANE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
VINYL CHLORIDE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
CHLOROETHANE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
METHYLENE CHLORIDE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
ACETONE	UG/KG	16 U	21 U	12 UJ	10 U	10 UJ	11 U
CARBON DISULFIDE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
1,1-DICHLOROETHENE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
1,1-DICHLOROETHANE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
1,2-DICHLOROETHENE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
CHLOROFORM	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
1,2-DICHLOROETHANE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U
2-BUTANONE	UG/KG	16 U	21 U	12 U	10 U	10 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB15-00	6-RAV-SB16-00	6-RAV-SB2-00	6-RAV-SB3-00	6-RAV-SB4-00	6-RAV-SB4A-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/09/92	10/09/92	9/10/92	9/11/92	9/11/92	9/14/92
Lab Id:	00570-05	00570-07	00502-28	00502-30	00502-33	00512-01
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	16 U	21 U	12 U	10 U	11 U
CARBON TETRACHLORIDE	UG/KG	16 U	21 U	12 U	10 U	11 UJ
BROMODICHLOROMETHANE	UG/KG	16 U	21 U	12 U	10 U	11 U
1,2-DICHLOROPROPANE	UG/KG	16 U	21 U	12 U	10 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	16 U	21 U	12 U	10 U	11 UJ
TRICHLOROETHENE	UG/KG	16 U	21 U	12 U	10 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	16 U	21 U	12 U	10 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	16 U	21 U	12 U	10 U	11 U
BENZENE	UG/KG	16 U	21 U	12 U	10 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	16 U	21 U	12 UJ	10 UJ	11 UJ
BROMOFORM	UG/KG	16 U	21 U	12 U	10 U	11 U
4-METHYL-2-PENTANONE	UG/KG	16 UJ	21 U	12 U	10 U	11 U
2-HEXANONE	UG/KG	16 UJ	21 U	12 U	10 U	11 U
TETRACHLOROETHENE	UG/KG	16 UJ	21 U	12 U	10 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	16 UJ	21 U	12 U	10 U	11 U
TOLUENE	UG/KG	16 UJ	21 U	12 U	10 U	11 U
CHLOROBENZENE	UG/KG	16 UJ	21 U	12 U	10 U	11 U
ETHYLBENZENE	UG/KG	16 UJ	21 U	12 U	10 U	11 U
STYRENE	UG/KG	16 UJ	21 U	12 U	10 U	11 U
TOTAL XYLENES	UG/KG	16 UJ	21 U	12 U	10 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	490 U	590 UR	400 U	340 U	340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	490 U	590 UR	400 U	340 U	340 U
2-CHLOROPHENOL	UG/KG	490 U	590 UR	400 U	340 U	340 U
1,3-DICHLOROBENZENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
1,4-DICHLOROBENZENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
1,2-DICHLOROBENZENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
2-METHYLPHENOL	UG/KG	490 U	590 UR	400 U	340 U	340 U
2,2'-OXYBIS (1-CHLOROPROPANE)	UG/KG	490 U	590 UR	400 U	340 U	340 U
4-METHYLPHENOL	UG/KG	490 UJ	590 UR	400 U	340 U	340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	490 U	590 UR	400 U	340 U	340 U
HEXACHLOROETHANE	UG/KG	490 U	590 UR	400 U	340 U	340 U
NITROBENZENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
ISOPHORONE	UG/KG	490 U	590 UR	400 U	340 U	340 U
2-NITROPHENOL	UG/KG	490 U	590 UR	400 U	340 U	340 U
2,4-DIMETHYLPHENOL	UG/KG	490 U	590 UR	400 U	340 U	340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	490 U	590 UR	400 U	340 U	340 U
2,4-DICHLOROPHENOL	UG/KG	490 U	590 UR	400 U	340 U	340 U
1,2,4-TRICHLOROBENZENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
NAPHTHALENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
4-CHLORANILINE	UG/KG	490 U	590 UR	400 U	340 U	340 U
HEXACHLOROBUTADIENE	UG/KG	490 U	590 UR	400 U	340 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB15-00	6-RAV-SB16-00	6-RAV-SB2-00	6-RAV-SB3-00	6-RAV-SB4-00	6-RAV-SB4A-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/09/92	10/09/92	9/10/92	9/11/92	9/11/92	9/14/92
Lab Id:	00570-05	00570-07	00502-28	00502-30	00502-33	00512-01
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	490 U	590 UR	400 U	340 U	340 U
2-METHYLNAPHTHALENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
2,4,6-TRICHLOROPHENOL	UG/KG	490 U	590 UR	400 U	340 U	340 U
2,4,5-TRICHLOROPHENOL	UG/KG	1200 U	1400 UR	970 U	820 U	820 UJ
2-CHLORONAPHTHALENE	UG/KG	490 U	590 UR	400 U	340 U	340 UJ
2-NITROANILINE	UG/KG	1200 U	1400 UR	970 U	820 U	820 U
DIMETHYL PHTHALATE	UG/KG	490 U	590 UR	400 U	340 U	340 U
ACENAPHTHYLENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
2,6-DINITROTOLUENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
3-NITROANILINE	UG/KG	1200 U	1400 UR	970 U	820 U	820 U
ACENAPHTHENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
2,4-DINITROPHENOL	UG/KG	1200 UJ	1400 UR	970 UJ	820 UJ	820 U
4-NITROPHENOL	UG/KG	1200 U	1400 UR	970 UJ	820 UJ	820 U
DIBENZOFURAN	UG/KG	490 U	590 UR	400 U	340 U	340 U
2,4-DINITROTOLUENE	UG/KG	490 U	590 UR	400 U	340 U	340 UJ
DIETHYL PHTHALATE	UG/KG	490 U	590 UR	400 U	340 U	340 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	490 U	590 UR	400 U	340 U	340 UJ
FLUORENE	UG/KG	490 U	590 UR	400 UJ	340 UJ	340 U
4-NITROANILINE	UG/KG	1200 U	1400 UR	970 U	820 U	820 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1200 U	1400 UR	970 U	820 U	820 U
N-NITRIDIPHENYLAMINE	UG/KG	490 U	590 UR	400 U	340 U	340 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	490 U	590 UR	400 U	340 U	340 U
HEXACHLOROBENZENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
PENTACHLOROPHENOL	UG/KG	1200 U	1400 UR	970 U	820 U	820 UJ
PHENANTHRENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
ANTHRACENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
DI-N-BUTYL PHTHALATE	UG/KG	490 U	590 UR	400 U	340 U	340 U
FLUORANTHENE	UG/KG	490 U	590 UR	400 U	340 U	340 UJ
CARBAZOLE	UG/KG	490 U	590 UR	400 U	340 U	340 U
PYRENE	UG/KG	490 UJ	590 UR	400 UJ	340 UJ	340 U
BUTYL BENZYL PHTHALATE	UG/KG	490 U	590 UR	400 U	340 U	340 U
3,3-DICHLOROBENZIDINE	UG/KG	490 U	590 UR	400 U	340 U	340 U
BENZO(A)ANTHRACENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
CHRYSENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	52 J	69 J	400 UJ	340 UJ	340 U
DI-N-OCTYL PHTHALATE	UG/KG	490 UJ	590 UR	400 U	340 U	340 UJ
BENZO(B)FLUORANTHENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
BENZO(K)FLUORANTHENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
BENZO(A)PYRENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
INDENO(1,2,3-CD) PYRENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
DIBENZ(A,H)ANTHRACENE	UG/KG	490 U	590 UR	400 U	340 U	340 U
BENZO(G,H,I)PERYLENE	UG/KG	490 U	590 UR	400 U	340 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO--0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB5-00	6-RAV-SB6-00	6-RAV-SB7-00	6-RAV-SB8-00	6-RAV-SB9-00	
Depth:	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	
Lab Id:	00512-03	00512-06	00512-08	00512-10	00512-12	
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
BETA-BHC	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
DELTA-BHC	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
GAMMA-BHC(LINDANE)	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
HEPTACHLOR	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
ALDRIN	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
HEPTACHLOR EPOXIDE	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
ENDOSULFAN I	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
DIELDRIN	UG/KG	35 U	45 J	3.6 UR	3.4 UJ	4 U
4,4'-DDE	UG/KG	130	27 J	20 J	3.4 UJ	4 U
ENDRIN	UG/KG	35 U	8 UJ	3.6 UR	3.4 UJ	4 U
ENDOSULFAN II	UG/KG	35 U	8 UJ	3.6 UR	3.4 UJ	4 U
4,4'-DDD	UG/KG	35 U	14 J	3.6 UR	3.4 UJ	4 U
ENDOSULFAN SULFATE	UG/KG	35 U	8 UJ	3.6 UR	3.4 UJ	4 U
4,4'-DDT	UG/KG	260 J	98 J	25 J	3.4 UJ	4 U
METHOXYCHLOR	UG/KG	180 U	41 UJ	19 UR	18 UJ	20 U
ENDRIN KETONE	UG/KG	35 U	8 UJ	3.6 UR	3.4 UJ	4 U
ENDRIN ALDEHYDE	UG/KG	35 U	8 UJ	3.6 UR	3.4 UJ	4 U
ALPHA CHLORDANE	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
GAMMA CHLORDANE	UG/KG	18 U	4.1 UJ	1.9 UR	1.8 UJ	2 U
TOXAPHENE	UG/KG	1800 U	410 UJ	190 UR	180 UJ	200 U
PCB-1016	UG/KG	350 U	80 UJ	36 UR	34 UJ	40 U
PCB-1221	UG/KG	710 U	160 UJ	74 UR	69 UJ	80 U
PCB-1232	UG/KG	350 U	80 UJ	36 UR	34 UJ	40 U
PCB-1242	UG/KG	350 U	80 UJ	36 UR	34 UJ	40 U
PCB-1248	UG/KG	350 U	80 UJ	36 UR	34 UJ	40 U
PCB-1254	UG/KG	350 U	80 UJ	36 UR	34 UJ	40 U
PCB-1260	UG/KG	350 U	80 UJ	36 UR	34 UJ	40 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 UJ	13 UJ	11 UJ	11 UJ	12 UJ
BROMOMETHANE	UG/KG	11 U	13 U	11 U	11 U	12 U
VINYL CHLORIDE	UG/KG	11 U	13 U	11 U	11 UJ	12 UJ
CHLOROETHANE	UG/KG	11 U	13 U	11 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	13 U	11 U	11 U	12 U
ACETONE	UG/KG	11 U	19 U	11 U	11 U	12 U
CARBON DISULFIDE	UG/KG	11 U	13 U	11 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	13 U	11 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	13 U	11 U	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	13 U	11 U	11 U	12 U
CHLOROFORM	UG/KG	11 U	13 U	11 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	13 U	11 U	11 U	12 U
2-BUTANONE	UG/KG	11 U	13 U	11 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB5-00	6-RAV-SB6-00	6-RAV-SB7-00	6-RAV-SB8-00	6-RAV-SB9-00	
Depth:	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	
Lab Id:	00512-03	00512-06	00512-08	00512-10	00512-12	
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	13 U	11 U	11 U	2 J
CARBON TETRACHLORIDE	UG/KG	11 UJ	13 UJ	11 U	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	11 U	13 U	11 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	11 U	13 U	11 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	13 UJ	11 UJ	11 UJ	12 UJ
TRICHLOROETHENE	UG/KG	11 U	13 U	11 U	11 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	13 U	11 U	11 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	13 U	11 U	11 U	12 U
BENZENE	UG/KG	11 U	13 U	11 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	13 UJ	11 UJ	11 UJ	12 UJ
BROMOFORM	UG/KG	11 U	13 U	11 U	11 U	12 U
4-METHYL-2-PENTANONE	UG/KG	11 U	13 U	11 U	11 U	12 U
2-HEXANONE	UG/KG	11 U	13 U	11 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	11 U	13 U	11 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	13 U	11 U	11 U	12 U
TOLUENE	UG/KG	11 U	13 U	11 U	11 U	12 U
CHLOROETHYLENE	UG/KG	11 U	13 U	11 U	11 U	12 U
ETHYLBENZENE	UG/KG	11 U	13 U	11 U	11 U	12 U
STYRENE	UG/KG	11 U	13 U	11 U	11 U	12 U
TOTAL XYLENES	UG/KG	11 U	13 U	11 U	11 U	12 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	37 J	160 J	360 U	33 J	120 J
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U	400 U	360 U	340 U	400 U
2-CHLOROPHENOL	UG/KG	350 U	400 U	360 U	340 U	400 U
1,3-DICHLOROBENZENE	UG/KG	350 U	400 U	360 U	340 U	400 U
1,4-DICHLOROBENZENE	UG/KG	350 U	400 U	360 U	340 U	400 U
1,2-DICHLOROBENZENE	UG/KG	350 U	400 U	360 U	340 U	400 U
2-METHYLPHENOL	UG/KG	350 U	400 U	360 U	340 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U	400 U	360 U	340 U	400 U
4-METHYLPHENOL	UG/KG	350 U	400 U	360 U	340 U	400 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U	400 U	360 U	340 U	400 U
HEXACHLOROETHANE	UG/KG	350 U	400 U	360 U	340 U	400 U
NITROBENZENE	UG/KG	350 U	400 U	360 U	340 U	400 U
ISOPHORONE	UG/KG	350 U	400 U	360 U	340 U	400 U
2-NITROPHENOL	UG/KG	350 U	400 U	360 U	340 U	400 U
2,4-DIMETHYLPHENOL	UG/KG	350 U	400 U	360 U	340 U	400 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U	400 U	360 U	340 U	400 U
2,4-DICHLOROPHENOL	UG/KG	350 U	400 U	360 U	340 U	400 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U	400 U	360 U	340 U	400 U
NAPHTHALENE	UG/KG	350 U	140 J	360 U	340 U	400 U
4-CHLORANILINE	UG/KG	350 U	400 U	360 U	340 U	400 U
HEXACHLOROBTADIENE	UG/KG	350 U	400 U	360 U	340 U	400 U

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB5-00	6-RAV-SB6-00	6-RAV-SB7-00	6-RAV-SB8-00	6-RAV-SB9-00	
Depth:	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	
Lab Id:	00512-03	00512-06	00512-08	00512-10	00512-12	
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	350 U	400 U	360 U	340 U	400 U
2-METHYLNAPHTHALENE	UG/KG	350 U	42 J	360 U	340 U	400 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U	400 U	360 U	340 U	400 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 U	400 U	360 U	340 U	400 U
2,4,5-TRICHLOROPHENOL	UG/KG	850 UJ	980 U	870 U	830 U	960 U
2-CHLORONAPHTHALENE	UG/KG	350 UJ	400 U	360 U	340 U	400 U
2-NITROANILINE	UG/KG	850 U	980 U	870 U	830 U	960 U
DIMETHYL PHTHALATE	UG/KG	350 U	400 U	360 U	340 U	400 U
ACENAPHTHYLENE	UG/KG	350 U	400 U	360 U	340 U	400 U
2,6-DINITROTOLUENE	UG/KG	350 U	400 U	360 U	340 U	400 U
3-NITROANILINE	UG/KG	850 U	980 U	870 U	830 U	960 U
ACENAPHTHENE	UG/KG	350 U	150 J	360 U	340 U	400 U
2,4-DINITROPHENOL	UG/KG	850 U	980 U	870 U	830 U	960 U
4-NITROPHENOL	UG/KG	850 U	980 U	870 U	830 U	960 U
DIBENZOFURAN	UG/KG	350 U	82 J	360 U	340 U	400 U
2,4-DINITROTOLUENE	UG/KG	350 U	400 U	360 U	340 U	400 U
DIETHYL PHTHALATE	UG/KG	350 U	400 U	360 U	340 U	400 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U	400 U	360 U	340 U	400 U
FLUORENE	UG/KG	350 U	130 J	360 U	340 U	400 U
4-NITROANILINE	UG/KG	850 U	980 U	870 U	830 U	960 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	850 U	980 U	870 U	830 U	960 U
N-NITRISODIPHENYLAMINE	UG/KG	350 U	400 U	360 U	340 U	400 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 U	400 U	360 U	340 U	400 U
HEXACHLOROBENZENE	UG/KG	350 U	400 U	360 U	340 U	400 U
PENTACHLOROPHENOL	UG/KG	850 UJ	980 U	870 U	830 U	960 U
PHENANTHRENE	UG/KG	350 U	980	47 J	340 U	400 U
ANTHRACENE	UG/KG	350 U	190 J	360 U	340 U	400 U
DI-N-BUTYL PHTHALATE	UG/KG	350 U	400 U	360 U	340 U	400 U
FLUORANTHENE	UG/KG	74 J	580	90 J	340 UJ	400 UJ
CARBAZOLE	UG/KG	350 U	73 J	360 U	340 U	400 U
PYRENE	UG/KG	120 J	1100 J	110 J	340 U	400 UJ
BUTYL BENZYL PHTHALATE	UG/KG	350 U	400 UJ	360 U	340 U	400 UJ
3,3-DICHLOROBENZIDINE	UG/KG	350 U	400 UJ	360 U	340 U	400 UJ
BENZO(A)ANTHRACENE	UG/KG	39 J	490 J	59 J	340 U	400 UJ
CHRYSENE	UG/KG	44 J	440 J	56 J	340 U	400 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	60 J	87 J	360 U	340 U	400 U
DI-N-OCTYL PHTHALATE	UG/KG	350 U	400 U	360 U	340 U	400 U
BENZO(B)FLUORANTHENE	UG/KG	350 U	460	88 J	340 U	400 U
BENZO(K)FLUORANTHENE	UG/KG	350 UJ	140 J	360 U	340 U	400 U
BENZO(A)PYRENE	UG/KG	350 U	330 J	48 J	340 U	400 U
INDENO(1,2,3-CD) PYRENE	UG/KG	350 U	400 J	360 U	340 U	400 U
DIBENZ(A,H)ANTHRACENE	UG/KG	350 U	85 J	360 UJ	340 UJ	400 UJ
BENZO(G,H,I)PERYLENE	UG/KG	350 U	390 J	360 UJ	340 UJ	400 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	1.7 UJ	55 UJ	ND	ND		0/83
BETA-BHC	UG/KG	1.7 U	55 UJ	ND	ND		0/83
DELTA-BHC	UG/KG	1.7 UJ	55 UJ	ND	ND		0/83
GAMMA-BHC(LINDANE)	UG/KG	1.7 UJ	55 UJ	ND	ND		0/83
HEPTACHLOR	UG/KG	1.7 U	55 UJ	ND	ND		0/83
ALDRIN	UG/KG	1.7 U	55 UJ	ND	ND		0/83
HEPTACHLOR EPOXIDE	UG/KG	1.7 U	55 UJ	ND	ND		0/83
ENDOSULFAN I	UG/KG	1.7 U	55 UJ	ND	ND		0/83
DIELDRIN	UG/KG	3.2 UJ	110 UJ	4.6	87 J	6-RAV-SB11-00	15/83
4,4'-DDE	UG/KG	3.2 UJ	12 U	2.2 J	4200	6-201S-SB8-00	34/83
ENDRIN	UG/KG	3.2 UJ	110 UJ	5.6 J	240 J	6-201E-SB15-00	2/83
ENDOSULFAN II	UG/KG	3.2 UJ	110 UJ	ND	ND		0/83
4,4'-DDD	UG/KG	3.2 UJ	36 U	10 J	12000	6-201S-SB8-00	6/83
ENDOSULFAN SULFATE	UG/KG	3.2 UJ	110 UJ	ND	ND		0/83
4,4'-DDT	UG/KG	3.2 UJ	11 U	3.4 J	6400	6-201S-SB8-00	40/83
METHOXYCHLOR	UG/KG	17 U	550 UJ	ND	ND		0/83
ENDRIN KETONE	UG/KG	3.2 UJ	110 UJ	ND	ND		0/83
ENDRIN ALDEHYDE	UG/KG	3.2 UJ	110 UJ	ND	ND		0/83
ALPHA CHLORDANE	UG/KG	1.7 U	55 UJ	3.6 J	3.6 J	6-203OSA-SB17-00	1/83
GAMMA CHLORDANE	UG/KG	1.7 U	55 UJ	ND	ND		0/83
TOXAPHENE	UG/KG	170 U	5500 UJ	ND	ND		0/83
PCB-1016	UG/KG	32 UJ	1100 UJ	ND	ND		0/83
PCB-1221	UG/KG	66 UJ	2200 UJ	ND	ND		0/83
PCB-1232	UG/KG	32 UJ	1100 UJ	ND	ND		0/83
PCB-1242	UG/KG	32 UJ	1100 UJ	ND	ND		0/83
PCB-1248	UG/KG	32 UJ	1100 UJ	ND	ND		0/83
PCB-1254	UG/KG	32 UJ	1100 UJ	ND	ND		0/83
PCB-1260	UG/KG	32 UJ	1100 UJ	28 J	26000 J	6-201E-SB15-00	7/83
VOLATILES							
CHLOROMETHANE	UG/KG	10 U	33 U	620 J	9800	6-203OSA-SB6-00	2/83
BROMOMETHANE	UG/KG	10 U	33 U	670 J	3700 J	6-203OSA-SB6-00	2/83
VINYL CHLORIDE	UG/KG	10 UJ	4000 U	ND	ND		0/83
CHLOROETHANE	UG/KG	10 U	4000 U	ND	ND		0/83
METHYLENE CHLORIDE	UG/KG	10 U	4000 U	ND	ND		0/83
ACETONE	UG/KG	10 U	4000 U	5 J	14 J	6-201N-SB9-00	3/83
CARBON DISULFIDE	UG/KG	10 U	4000 U	ND	ND		0/83
1,1-DICHLOROETHENE	UG/KG	10 U	4000 U	ND	ND		0/83
1,1-DICHLOROETHANE	UG/KG	10 U	4000 U	ND	ND		0/83
1,2-DICHLOROETHENE	UG/KG	10 U	910 U	1500 J	1500 J	6-203OSA-SB6-00	1/83
CHLOROFORM	UG/KG	10 U	4000 U	ND	ND		0/83
1,2-DICHLOROETHANE	UG/KG	10 U	4000 U	ND	ND		0/83
2-BUTANONE	UG/KG	10 U	4000 U	ND	ND		0/83

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	Depth:	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	LOCATION OF	FREQUENCY
Date Sampled:	Lab Id:	NONDETECTED	NONDETECTED	DETECTED	DETECTED	MAXIMUM	OF
Parameter	Units					DETECTED	DETECTION
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	10 U	4000 U	1 J	2 J	6-RAV-SB9-00	3/83
CARBON TETRACHLORIDE	UG/KG	10 U	4000 U	ND	ND		0/83
BROMODICHLOROMETHANE	UG/KG	10 U	4000 U	ND	ND		0/83
1,2-DICHLOROPROPANE	UG/KG	10 U	4000 U	ND	ND		0/83
CIS-1,3-DICHLOROPROPENE	UG/KG	10 UJ	4000 U	ND	ND		0/83
TRICHLOROETHENE	UG/KG	10 U	910 U	4600	4600	6-203OSA-SB6-00	1/83
DIBROMOCHLOROMETHANE	UG/KG	10 U	4000 U	ND	ND		0/83
1,1,2-TRICHLOROETHANE	UG/KG	10 U	4000 U	ND	ND		0/83
BENZENE	UG/KG	10 U	910 U	850 J	850 J	6-203OSA-SB6-00	1/83
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 UJ	4000 U	ND	ND		0/83
BROMOFORM	UG/KG	10 U	4000 U	ND	ND		0/83
4-METHYL-2-PENTANONE	UG/KG	10 U	4000 U	ND	ND		0/83
2-HEXANONE	UG/KG	10 U	4000 U	ND	ND		0/83
TETRACHLOROETHENE	UG/KG	10 U	33 U	2600 J	7000 J	6-203OSA-SB12-00	2/83
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	910 U	55000	55000	6-203OSA-SB6-00	1/83
TOLUENE	UG/KG	10 U	4000 U	120 J	120 J	6-203OSA-SB12-00	1/83
CHLOROBENZENE	UG/KG	10 U	4000 U	ND	ND		0/83
ETHYLBENZENE	UG/KG	10 U	4000 U	ND	ND		0/83
STYRENE	UG/KG	10 U	4000 U	2 J	2 J	6-203OSA-SB9-00	1/83
TOTAL XYLENES	UG/KG	10 U	4000 U	ND	ND		0/83
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	320 UJ	1100 U	37 J	160 J	6-RAV-SB6-00	4/83
BIS(2-CHLOROETHYL) ETHER	UG/KG	320 U	1100 U	ND	ND		0/83
2-CHLOROPHENOL	UG/KG	320 U	1100 U	ND	ND		0/83
1,3-DICHLOROBENZENE	UG/KG	320 U	1100 U	ND	ND		0/83
1,4-DICHLOROBENZENE	UG/KG	320 U	1100 U	39 J	74 J	6-203OSA-SB12-00	11/83
1,2-DICHLOROBENZENE	UG/KG	320 U	1100 U	ND	ND		0/83
2-METHYLPHENOL	UG/KG	320 U	1100 U	ND	ND		0/83
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	320 U	1100 U	ND	ND		0/83
4-METHYLPHENOL	UG/KG	320 UJ	1100 U	120 J	120 J	6-203OSA-SB6-00	1/83
N-NITROSODI-N-PROPYLAMINE	UG/KG	320 U	1100 U	ND	ND		0/83
HEXACHLOROETHANE	UG/KG	320 U	1100 U	ND	ND		0/83
NITROBENZENE	UG/KG	320 U	1100 U	ND	ND		0/83
ISOPHORONE	UG/KG	320 U	1100 U	ND	ND		0/83
2-NITROPHENOL	UG/KG	320 U	1100 U	ND	ND		0/83
2,4-DIMETHYLPHENOL	UG/KG	320 U	1100 U	ND	ND		0/83
BIS(2-CHLOROETHOXY) METHANE	UG/KG	320 U	1100 U	ND	ND		0/83
2,4-DICHLOROPHENOL	UG/KG	320 U	1100 U	ND	ND		0/83
1,2,4-TRICHLOROBENZENE	UG/KG	320 U	1100 U	ND	ND		0/83
NAPHTHALENE	UG/KG	320 U	1100 U	71 J	140 J	6-RAV-SB6-00	2/83
4-CHLORANILINE	UG/KG	320 U	1100 U	ND	ND		0/83
HEXACHLOROBUTADIENE	UG/KG	320 U	1100 U	ND	ND		0/83

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	320 U	1100 U	ND	ND		0/83
2-METHYLNAPHTHALENE	UG/KG	320 U	1100 U	42 J	42 J	6-RAV-SB6-00	1/83
HEXACHLOROCYCLOPENTADIENE	UG/KG	320 U	1100 U	ND	ND		0/83
2,4,6-TRICHLOROPHENOL	UG/KG	320 U	1100 U	ND	ND		0/83
2,4,5-TRICHLOROPHENOL	UG/KG	790 U	2600 U	ND	ND		0/83
2-CHLORONAPHTHALENE	UG/KG	320 U	1100 U	ND	ND		0/83
2-NITROANILINE	UG/KG	790 U	2600 U	ND	ND		0/83
DIMETHYL PHTHALATE	UG/KG	320 U	1100 U	ND	ND		0/83
ACENAPHTHYLENE	UG/KG	320 U	1100 U	84 J	84 J	6-201E-SB19-00	1/83
2,6-DINITROTOLUENE	UG/KG	320 U	1100 U	ND	ND		0/83
3-NITROANILINE	UG/KG	790 U	2600 U	ND	ND		0/83
ACENAPHTHENE	UG/KG	320 U	1100 U	36 J	370	6-RAV-SB14-00	3/83
2,4-DINITROPHENOL	UG/KG	790 U	2600 U	ND	ND		0/83
4-NITROPHENOL	UG/KG	790 U	2600 UJ	ND	ND		0/83
DIBENZOFURAN	UG/KG	320 U	1100 U	82 J	120 J	6-RAV-SB14-00	2/83
2,4-DINITROTOLUENE	UG/KG	320 UJ	1100 U	ND	ND		0/83
DIETHYL PHTHALATE	UG/KG	320 U	1100 U	ND	ND		0/83
4-CHLOROPHENYL PHENYL ETHER	UG/KG	320 U	1100 U	ND	ND		0/83
FLUORENE	UG/KG	320 U	1100 U	130 J	200 J	6-RAV-SB14-00	2/83
4-NITROANILINE	UG/KG	790 U	2600 U	ND	ND		0/83
4,6-DINITRO-2-METHYLPHENOL	UG/KG	790 U	2600 U	ND	ND		0/83
N-NITROSODIPHENYLAMINE	UG/KG	320 U	1100 U	ND	ND		0/83
4-BROMOPHENYL PHENYL ETHER	UG/KG	320 U	1100 U	ND	ND		0/83
HEXACHLOROBENZENE	UG/KG	320 U	1100 U	ND	ND		0/83
PENTACHLOROPHENOL	UG/KG	790 UJ	2600 U	ND	ND		0/83
PHENANTHRENE	UG/KG	320 U	1100 U	46 J	1500	6-RAV-SB14-00	7/83
ANTHRACENE	UG/KG	320 U	1100 U	41 J	260 J	6-RAV-SB14-00	4/83
DI-N-BUTYL PHTHALATE	UG/KG	320 U	1100 U	ND	ND		0/83
FLUORANTHENE	UG/KG	320 U	950 U	40 J	2000 J	6-RAV-SB11-00	15/83
CARBAZOLE	UG/KG	320 U	1100 U	73 J	190 J	6-RAV-SB14-00	2/83
PYRENE	UG/KG	320 U	950 U	72 J	2700	6-RAV-SB11-00	13/83
BUTYL BENZYL PHTHALATE	UG/KG	320 U	950 U	140 J	140 J	6-203OSA-SB1-00	1/83
3,3-DICHLOROBENZIDINE	UG/KG	320 U	1100 U	ND	ND		0/83
BENZO(A)ANTHRACENE	UG/KG	320 U	1100 U	39 J	2200	6-RAV-SB11-00	11/83
CHRYSENE	UG/KG	320 U	1100 U	44 J	1600	6-RAV-SB11-00	12/83
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	320 U	730 UJ	35 J	320 J	6-RAV-SB13-00	35/83
DI-N-OCTYL PHTHALATE	UG/KG	320 U	1100 UJ	40 J	40 J	6-201E-SB14-00	1/83
BENZO(B)FLUORANTHENE	UG/KG	320 U	950 U	54 J	2200	6-RAV-SB11-00	14/83
BENZO(K)FLUORANTHENE	UG/KG	320 U	1100 UJ	25 J	490	6-RAV-SB15-00	9/83
BENZO(A)PYRENE	UG/KG	320 U	1100 UJ	40 J	1500	6-RAV-SB11-00	11/83
INDENO(1,2,3-CD) PYRENE	UG/KG	320 U	1100 UJ	45 J	1300	6-RAV-SB11-00	5/83
DIBENZ(A,H)ANTHRACENE	UG/KG	320 U	1100 UJ	43 J	380 J	6-RAV-SB11-00	3/83
BENZO(G,H,I)PERYLENE	UG/KG	320 U	1100 UJ	40 J	1300 J	6-RAV-SB11-00	7/83

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201E-SB1-00	6-201E-SB10-00	6-201E-SB11-00	6-201E-SB12-00	6-201E-SB13-00	6-201E-SB14-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/11/92	9/12/92	9/12/92	9/13/92	9/13/92	9/13/92
	Lab Id:	00507-01	00507-20	00507-23	00510-01	00510-03	00510-06
Parameter	Units						
ALUMINUM	MG/KG	1100 J	255 J	1390 J	792	2490	769
ANTIMONY	MG/KG	2.8 U	2.4 U	2.7 U	2.4 U	3.2 U	2.5 U
ARSENIC	MG/KG	0.44 U	0.47 U	1.7	1 JB	0.64 U	0.48 U
BARIUM	MG/KG	4 JB	6.1 JB	14.6 JB	8.3 B	10.3 B	3.9 B
BERYLLIUM	MG/KG	0.06 UJ	0.05 UJ	0.18 B	0.05 U	0.07 U	0.05 U
CADMIUM	MG/KG	0.59 JB	0.33 U	0.7 UJ	0.33 U	0.44 U	0.34 U
CALCIUM	MG/KG	296 JB	493 JB	48400 J	58500	884 B	485 B
CHROMIUM	MG/KG	0.72 UJ	0.62 UJ	3.8	3.5 J	1.4 JB	0.64 UJ
COBALT	MG/KG	0.4 U	0.34 U	0.52 B	0.34 UJ	0.46 UJ	0.36 UJ
COPPER	MG/KG	1.2 UJ	0.69 UJ	2.5 UJ	2 JB	0.89 JB	0.65 JB
IRON	MG/KG	208 UJ	274 J	1220 J	1110	620	336
LEAD	MG/KG	7.1	4.2 U	4 U	30.1	13.4 J	8
MAGNESIUM	MG/KG	32.4 B	32.2 B	725 B	908	78.2 JB	30.3 JB
MANGANESE	MG/KG	3.9 UJ	8.3 J	30.4 J	12.6	7.4 J	3.5
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.02 U	0.03 B	0.02 U
NICKEL	MG/KG	1.6 UJ	1.4 UJ	1.5 UJ	1.4 U	1.8 U	1.4 U
POTASSIUM	MG/KG	23.1 JB	15 JB	175 B	84.3 B	66.7 B	23.1 B
SELENIUM	MG/KG	0.73 U	0.78 U	0.75 UJ	0.88 UJ	1.1 UJ	0.79 U
SILVER	MG/KG	0.43 UJ	0.34 U	0.52 UJ	0.59 U	0.61 U	0.36 U
SODIUM	MG/KG	15.1 UJ	13.4 UJ	81.6 UJ	128 JB	25.6 UJ	18.6 UJ
THALLIUM	MG/KG	0.29 UJ	0.31 U	0.3 UJ	0.35 UJ	0.43 U	0.32 U
VANADIUM	MG/KG	1.5 JB	1.7 JB	8.1 JB	2.7 B	3.7 B	1.3 B
ZINC	MG/KG	3.9 U	2.6 U	3.8 U	10.6	5.9	2.7 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-201E-SB15-00	6-201E-SB16-00	6-201E-SB17-00	6-201E-SB18-00	6-201E-SB19-00	6-201E-SB2-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/13/92	9/13/92	9/13/92	9/13/92	9/15/92	9/11/92	
Lab Id:	00510-08	00510-10	00510-12	00510-14	00519-01	00507-03	
Parameter	Units						
ALUMINUM	MG/KG	1570	750	250	709	571 J	241 J
ANTIMONY	MG/KG	2.1 U	3 U	2 U	2.7 U	2.9 U	2.9 U
ARSENIC	MG/KG	0.8 JB	0.49 U	0.55 U	0.82 B	0.76 B	0.57 U
BARIUM	MG/KG	18.1 B	5.5 B	2 JB	3.9 B	2.9 JB	7.9 JB
BERYLLIUM	MG/KG	0.06 U	0.06 U	0.04 U	0.07 U	0.36 U	0.06 UJ
CADMIUM	MG/KG	0.53 JB	0.4 U	0.27 U	0.37 U	0.39 U	0.4 U
CALCIUM	MG/KG	47400	581 B	22300	75100	65500 J	157 JB
CHROMIUM	MG/KG	3.8 J	1.3 JB	0.95 JB	3.1 J	2.3 U	0.75 UJ
COBALT	MG/KG	0.3 UJ	0.96 JB	0.29 UJ	0.39 UJ	0.41 U	0.42 U
COPPER	MG/KG	2.6 JB	1.2 JB	0.39 JB	1.2 JB	0.89 JB	1.5 UJ
IRON	MG/KG	1630	407	279	1010	793 J	254 UJ
LEAD	MG/KG	96.1	8.6	2.1	11.4	2.5 J	4.2 U
MAGNESIUM	MG/KG	763	31.9 JB	384 B	1100	849 JB	23.5 B
MANGANESE	MG/KG	13.8	4.6	3.6	41.5	12.1 J	0.92 UJ
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.7 U	1.7 U	1.1 U	1.7 U	1.6 U	1.6 UJ
POTASSIUM	MG/KG	109 B	31.9 B	32.5 B	135 B	84 B	21.6 JB
SELENIUM	MG/KG	1 U	0.82 U	0.92 U	1.1 UJ	0.93 UJ	0.94 U
SILVER	MG/KG	0.64 U	1.1 U	0.51 U	0.39 U	0.5 UJ	0.43 UJ
SODIUM	MG/KG	107 JB	15.5 UJ	39.3 UJ	129 JB	126 UJ	19.6 UJ
THALLIUM	MG/KG	0.41 UJ	0.35 B	0.37 U	0.44 UJ	0.38 UJ	0.38 UJ
VANADIUM	MG/KG	4.7 B	1.7 B	0.74 B	3.6 B	2.1 JB	1.4 JB
ZINC	MG/KG	17.8	4.2 B	2.8 U	6.6	4.2 U	1.8 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201E-SB20-00	6-201E-SB21-00	6-201E-SB3-00	6-201E-SB4-00	6-201E-SB5-00	6-201E-SB6-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/15/92	9/15/92	9/11/92	9/11/92	9/11/92	9/12/92
	Lab Id:	00519-04	00519-16	00507-05	00507-07	00507-09	00507-12
Parameter	Units						
ALUMINUM	MG/KG	540 J	1100 J	1080 J	258 J	177 J	664 J
ANTIMONY	MG/KG	2.8 UJ	3.3 U	2.5 U	2.6 U	2.9 U	2.5 U
ARSENIC	MG/KG	0.53 U	0.68 U	0.66 U	0.5 U	0.47 U	0.59 U
BARIUM	MG/KG	12.2 B	3.9 JB	14.5 JB	1.1 JB	3.1 JB	8.1 JB
BERYLLIUM	MG/KG	0.06 U	0.39 UJ	0.05 UJ	0.06 UJ	0.06 UJ	0.05 UJ
CADMIUM	MG/KG	0.44 JB	0.45 U	0.34 U	0.36 U	0.4 U	0.34 U
CALCIUM	MG/KG	312 JB	39700 J	434 JB	27.8 UJ	117 UJ	1010 J
CHROMIUM	MG/KG	1.5 U	3.8 U	0.64 UJ	0.68 UJ	0.76 UJ	0.64 UJ
COBALT	MG/KG	0.39 U	0.47 U	0.36 U	0.38 U	0.42 U	0.36 U
COPPER	MG/KG	3.9 JB	1.5 UJ	1.7 UJ	0.37 UJ	0.41 UJ	4.3 B
IRON	MG/KG	322 J	844 J	331 J	62.1 UJ	205 UJ	505 J
LEAD	MG/KG	12.9 J	9 J	5.9	1.2 U	2.2 U	11.1
MAGNESIUM	MG/KG	19 UJ	624 JB	33.8 B	3.7 U	9.9 U	110 B
MANGANESE	MG/KG	5.4 J	26.8 J	1.3 UJ	0.11 UJ	7.4 J	7 J
MERCURY	MG/KG	0.02 U	0.02 U	0.14	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.8 JB	1.9 U	1.4 UJ	1.5 UJ	1.7 UJ	1.4 UJ
POTASSIUM	MG/KG	16.9 JB	129 B	28.9 JB	12 U	13.5 U	39.4 B
SELENIUM	MG/KG	0.88 U	1.1 U	1.1 UJ	0.83 U	0.79 U	0.98 U
SILVER	MG/KG	0.39 UJ	1.4 UJ	0.36 U	0.39 UJ	0.42 U	0.36 U
SODIUM	MG/KG	17.7 UJ	80.1 UJ	16.5 UJ	12.9 UJ	11.5 UJ	16.8 UJ
THALLIUM	MG/KG	0.35 UJ	0.46 UJ	0.44 U	0.33 U	0.32 U	0.39 UJ
VANADIUM	MG/KG	1.4 UJ	4.3 JB	1.5 JB	0.36 JB	1.3 JB	1.9 JB
ZINC	MG/KG	5.4 U	6.5 U	1.8 U	0.69 U	1.6 U	3 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201E-SB7-00	6-201E-SB8-00	6-201E-SB9-00	6-201N-SB1-00	6-201N-SB10-00	6-201N-SB11-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/12/92	9/12/92	9/12/92	9/11/92	9/11/92	10/13/92
	Lab Id:	00507-14	00507-16	00507-18	00502-01	00507-25	00573-11
Parameter	Units						
ALUMINUM	MG/KG	711 J	1360 J	3030 J	14700	501 J	1120
ANTIMONY	MG/KG	2.7 U	2.8 U	2.4 U	5.5 U	2.8 U	9.4 U
ARSENIC	MG/KG	0.65 U	0.49 B	4.6	26.3	0.63 U	0.56 U
BARIUM	MG/KG	11.9 JB	6.2 JB	51.8 J	737	2.5 JB	4 U
BERYLLIUM	MG/KG	0.06 UJ	0.06 UJ	0.39 B	2.2	0.06 UJ	0.19 U
CADMIUM	MG/KG	0.37 U	0.38 U	0.57 JB	3.9	0.38 U	0.57 U
CALCIUM	MG/KG	878 JB	232 JB	1730 J	18000	74.9 UJ	178 B
CHROMIUM	MG/KG	0.71 UJ	0.72 UJ	2.9	19.2	0.72 B	0.95 U
COBALT	MG/KG	0.39 U	0.41 B	1.3 B	9 B	0.4 UJ	1.7 UJ
COPPER	MG/KG	1.4 UJ	1.3 UJ	9	66.4	0.38 U	1.1 UJ
IRON	MG/KG	325 J	565 J	2470 J	13500	323 J	525
LEAD	MG/KG	7.1	0.16 U	9.4	90.8	3 U	2
MAGNESIUM	MG/KG	67.2 B	36.6 B	140 B	732 B	10.3 U	23.3 U
MANGANESE	MG/KG	5.4 UJ	3.2 UJ	9.5 J	119	1 U	3.1
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.44	0.02 U	0.02 U
NICKEL	MG/KG	1.5 UJ	1.6 UJ	2.3 B	16.4 U	1.6 UJ	3.2 U
POTASSIUM	MG/KG	74 B	40.3 B	338 B	796 B	12.7 U	73.1 U
SELENIUM	MG/KG	1.1 U	0.81 U	1.2	3.3 J	1.1 U	0.94 U
SILVER	MG/KG	0.49 UJ	0.4 U	0.34 U	3.9 U	0.43 UJ	1.9 U
SODIUM	MG/KG	21.8 UJ	16 UJ	95.4 UJ	461 JB	14 UJ	39.3 UJ
THALLIUM	MG/KG	0.43 UJ	0.32 U	0.42 UJ	0.77 U	0.42 UJ	0.38 UJ
VANADIUM	MG/KG	2 JB	2.6 JB	8.8	35.2	1.6 UJ	2.1 UJ
ZINC	MG/KG	4.2 U	1.5 U	5 U	194	1.3 U	1.1 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201N-SB12-00	6-201N-SB2-00	6-201N-SB3-00	6-201N-SB4-00	6-201N-SB5-00	6-201N-SB6-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/13/92	9/10/92	9/10/92	9/10/92	9/10/92	9/11/92
	Lab Id:	00573-13	00502-04	00502-06	00502-08	00502-10	00502-12
Parameter	Units						
ALUMINUM	MG/KG	90.5 U	408	477	2980	1330	642
ANTIMONY	MG/KG	9.6 U	2.4 U	2.5 U	3.1 U	2.4 U	2.9 U
ARSENIC	MG/KG	0.58 U	0.5 U	0.55 U	0.62 U	0.35 U	0.62 U
BARIUM	MG/KG	4.1 U	4.5 JB	3.7 U	6 B	3.6 JB	6.2 B
BERYLLIUM	MG/KG	0.2 U	0.05 U	0.05 U	0.07 B	0.05 U	0.06 B
CADMIUM	MG/KG	0.59 U	0.7 JB	0.53 JB	1.1 J	0.85 J	0.83 JB
CALCIUM	MG/KG	108 B	469 B	306 B	59.6 B	501 B	535 B
CHROMIUM	MG/KG	0.98 U	0.63 U	0.74 U	2.4	1.6 B	1.5 B
COBALT	MG/KG	1.8 UJ	1 U	1.2 UJ	1.3 U	1.2 UJ	1.5 UJ
COPPER	MG/KG	1.2 UJ	3.7 U	9.2	4.4 U	1.2 UJ	2.3 UJ
IRON	MG/KG	160	261	387	1510	704	353
LEAD	MG/KG	3	6.8	12.1	7.1	4.9	12.3
MAGNESIUM	MG/KG	20.2 U	31.8 B	23.5 B	60.9 B	35.9 B	46.8 B
MANGANESE	MG/KG	2 U	6.5	9.2	12	3.4	6
MERCURY	MG/KG	0.02 U	0.07 B	0.04 B	0.04 B	0.03 B	0.08 B
NICKEL	MG/KG	3.3 U	3 UJ	3.7 UJ	3.8 U	2.9 U	3.5 U
POTASSIUM	MG/KG	75 U	70.5 JB	78.4 JB	84.9 U	64.9 U	79.4 U
SELENIUM	MG/KG	0.97 U	0.84 UJ	0.91 U	1 U	0.91 U	1 U
SILVER	MG/KG	2 U	1.7 U	1.8 U	2.2 U	1.7 U	2.1 U
SODIUM	MG/KG	31.7 UJ	19.4 JB	18.8 JB	36.6 JB	22.5 JB	19.7 JB
THALLIUM	MG/KG	0.39 U	0.34 U	0.36 U	0.41 U	0.36 U	0.41 U
VANADIUM	MG/KG	1.6 UJ	0.87 U	1.2 JB	4.9 JB	2.2 JB	1.5 JB
ZINC	MG/KG	1.6 U	8.6	23.7	14	3.6 U	6.2

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201N-SB7-00	6-201N-SB8-00	6-201N-SB9-00	6-201S-SB1-00	6-201S-SB10-00	6-201S-SB11-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/11/92	9/11/92	9/11/92	9/15/92	9/13/92	9/13/92
	Lab Id:	00502-14	00502-16	00502-18	00519-07	00510-24	00510-25
Parameter	Units						
ALUMINUM	MG/KG	569	208	976	1350 J	3240	624
ANTIMONY	MG/KG	3 U	2.5 U	3.5 U	5 UJ	3 U	2.8 U
ARSENIC	MG/KG	0.63 U	0.61 U	0.83 U	2 B	0.67 U	0.54 JB
BARIUM	MG/KG	5.2 B	3.7 U	26.6 B	6.9 B	5.9 B	3.5 B
BERYLLIUM	MG/KG	0.07 U	0.05 U	0.09 B	0.43 UJ	0.06 U	0.06 U
CADMIUM	MG/KG	1.1 J	0.53 JB	1 JB	1.2 J	0.41 U	0.38 U
CALCIUM	MG/KG	546 B	176 B	668 B	174000 J	128 B	7050
CHROMIUM	MG/KG	0.82 B	0.63 U	0.93 B	10.2	2.7	2.8
COBALT	MG/KG	2 UJ	1.2 UJ	1.8 UJ	0.39 U	0.43 UJ	0.4 UJ
COPPER	MG/KG	1.7 UJ	1.1 UJ	3.5 U	5.1	1.1 U	1.3 U
IRON	MG/KG	334	113	651	3940 J	1260	602
LEAD	MG/KG	10.6	4.3	7.9	62.3 J	3	15
MAGNESIUM	MG/KG	23.1 B	12.3 B	130 B	2380 J	70.3 B	180 B
MANGANESE	MG/KG	2.4 B	1.1 JB	5.1	34.8 J	2.3 B	5.1
MERCURY	MG/KG	0.06 B	0.05 B	0.09 B	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	3.7 U	3 U	5.3 UJ	2.8 B	1.7 U	1.6 U
POTASSIUM	MG/KG	83.3 U	67.1 U	97.1 U	250 B	62.9 B	29.8 B
SELENIUM	MG/KG	1 UJ	1 U	1.4 U	1.1 J	1.1 UJ	0.9
SILVER	MG/KG	2.2 U	1.8 U	2.5 U	1.2 UJ	0.45 U	0.48 U
SODIUM	MG/KG	10.9 U	9.6 JB	70.7 JB	332 UJ	12.4 UJ	24.4 UJ
THALLIUM	MG/KG	0.42 U	0.41 U	0.55 U	0.42 UJ	0.45 U	1.5 U
VANADIUM	MG/KG	1.3 JB	0.88 U	1.8 JB	6.4 B	3.3 B	2 B
ZINC	MG/KG	5.2	5.3	5.6	52.2 J	1.7 B	13.1

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201S-SB12-00	6-201S-SB2-00	6-201S-SB3-00	6-201S-SB4-00	6-201S-SB5-00	6-201S-SB6-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/13/92	9/15/92	9/15/92	9/15/92	9/14/92	9/14/92
	Lab Id:	00511-01	00519-10	00519-11	00519-13	00510-16	00510-18
Parameter	Units						
ALUMINUM	MG/KG	547 J	1040 J	3380 J	709 J	1310	947 J
ANTIMONY	MG/KG	2.7 UJ	3.4 U	2.9 UJ	2.8 U	2.7 U	3 U
ARSENIC	MG/KG	0.49 U	0.65 UJ	0.72 B	0.55 U	0.68 U	0.47 U
BARIUM	MG/KG	9.8 JB	5.4 B	4.9 B	18.8 B	27.4 B	10.1 B
BERYLLIUM	MG/KG	0.35 UJ	0.45 UJ	0.41 UJ	0.38 UJ	0.06 U	0.07 U
CADMIUM	MG/KG	0.37 U	0.46 U	0.4 U	0.38 U	0.37 U	0.41 U
CALCIUM	MG/KG	1950 J	222 JB	236 JB	1340 J	2850	185 B
CHROMIUM	MG/KG	1.3 B	2.1 U	3.8 U	2.2 U	0.78 JB	0.85 JB
COBALT	MG/KG	0.39 U	0.48 U	0.46 U	0.4 U	0.39 UJ	0.43 UJ
COPPER	MG/KG	1.9 JB	0.77 UJ	0.73 UJ	0.99 UJ	1.6 JB	0.52 JB
IRON	MG/KG	382 J	645 J	879 J	926 J	1350	258
LEAD	MG/KG	12.6	6.7 J	5.5 J	48 J	25.5	3.9
MAGNESIUM	MG/KG	72.3 JB	42.7 JB	103 JB	56.8 JB	120 B	34.7 JB
MANGANESE	MG/KG	7.4 J	4 J	3.8 J	6 J	32.9	2.1 B
MERCURY	MG/KG	0.02 U	0.05 U	0.05 U	0.05 U	0.03 B	0.02 B
NICKEL	MG/KG	1.5 U	1.9 U	1.7 U	1.6 U	1.5 U	1.7 U
POTASSIUM	MG/KG	26.3 JB	46.6 JB	92.8 B	52.8 B	87.2 B	41.7 B
SELENIUM	MG/KG	0.82 U	1.1 U	1.1 U	0.92 U	1.1 U	0.78 U
SILVER	MG/KG	0.4 UJ	1.1 UJ	1.1 UJ	1 UJ	0.86 U	0.67 U
SODIUM	MG/KG	18.1 UJ	29.2 UJ	25 UJ	24.6 UJ	22.8 UJ	16.3 UJ
THALLIUM	MG/KG	0.33 UJ	0.44 UJ	0.44 UJ	0.37 UJ	0.45 U	0.31 U
VANADIUM	MG/KG	1.2 JB	2.7 JB	6.4 B	2.7 JB	3.9 B	1 B
ZINC	MG/KG	11 J	3.4 UJ	4.1 UJ	8.8 J	10.8	4.1 B

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201S-SB7-00	6-201S-SB8-00	6-201S-SB9-00	6-203OSA-SB1-00	6-203OSA-SB10-00	6-203OSA-SB11-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/14/92	9/15/92	9/14/92	9/14/92	9/12/92	9/11/92
	Lab Id:	00510-21	00519-15	00510-22	00511-03	00507-37	00507-40
Parameter	Units						
ALUMINUM	MG/KG	846	8910 J	265	19200 J	1110	384
ANTIMONY	MG/KG	3.5 U	6.4 U	2.6 U	13.2 JB	2.4 U	2.9 U
ARSENIC	MG/KG	0.56 U	1.2 U	0.55 U	7.7	1.1 B	0.46 U
BARIUM	MG/KG	13.8 B	42.2 B	3.7 B	134 J	5.6 JB	4.9 JB
BERYLLIUM	MG/KG	0.07 U	1 UJ	0.06 U	1.8 UJ	0.05 UJ	0.06 UJ
CADMIUM	MG/KG	0.47 U	1.4 JB	0.35 U	9.2 J	0.32 U	0.4 U
CALCIUM	MG/KG	625 B	7090 J	144 B	13300 J	166 JB	28.5 UJ
CHROMIUM	MG/KG	0.89 U	10.7 U	0.67 U	29	1.4 B	1.3 B
COBALT	MG/KG	0.49 UJ	1.1 U	0.37 UJ	3.1 B	0.34 UJ	0.42 UJ
COPPER	MG/KG	0.81 U	5.6 B	0.35 U	104 J	0.94 UJ	0.8 UJ
IRON	MG/KG	379	4500 J	153	13200 J	802 J	303 J
LEAD	MG/KG	3.7	50.4 J	2.2	218	6.3	4 U
MAGNESIUM	MG/KG	77.6 B	348 JB	15.1 JB	1040 JB	53 B	15.9 U
MANGANESE	MG/KG	1.6 B	8.7 J	2.5 B	381 J	9.7 J	2.6 UJ
MERCURY	MG/KG	0.02 U	0.12 U	0.02 U	0.9	0.02 U	0.02 U
NICKEL	MG/KG	2 U	3.6 U	1.5 U	14 B	1.3 UJ	1.6 UJ
POTASSIUM	MG/KG	63.5 B	231 B	15.5 B	787 B	54.8 B	32.1 JB
SELENIUM	MG/KG	0.93 UJ	2 UJ	0.92 UJ	2.4 UJ	1.1 U	0.77 U
SILVER	MG/KG	0.71 U	2.8 UJ	0.57 U	2.3 UJ	0.64 UJ	0.69 UJ
SODIUM	MG/KG	45.4 JB	69.6 UJ	17.7 UJ	809 JB	13.8 UJ	16.6 UJ
THALLIUM	MG/KG	0.37 U	0.81 UJ	0.37 U	0.96 UJ	0.42 UJ	0.31 UJ
VANADIUM	MG/KG	2.2 B	15.4 B	0.82 B	35.5	2.8 JB	2 UJ
ZINC	MG/KG	3.1 B	38.4 J	1.6 B	675 J	2.2 U	1.5 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB12-00	6-203OSA-SB13-00	6-203OSA-SB14-00	6-203OSA-SB15-00	6-203OSA-SB16-00	6-203OSA-SB17-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/9/92	9/13/92	9/13/92	9/11/92	9/11/92	9/9/92
	Lab Id:	00496-17	00511-16	00511-19	00507-42	00507-45	00496-05
Parameter	Units						
ALUMINUM	MG/KG	7400	749 J	1880 J	2290	1990	1640
ANTIMONY	MG/KG	3.9 U	2.5 UJ	2.4 UJ	2.7 U	2.4 U	2.7 U
ARSENIC	MG/KG	18.7 J	0.63 U	0.54 U	0.81 B	1.4 B	1.1 JB
BARIUM	MG/KG	892	2.6 UJ	7.9 JB	5.7 JB	34.1	20.3 B
BERYLLIUM	MG/KG	2	0.34 UJ	0.37 UJ	0.06 UJ	0.05 UJ	0.09 B
CADMIUM	MG/KG	2.2 J	0.33 U	0.33 U	0.57 JB	0.4 JB	0.44 JB
CALCIUM	MG/KG	1820	65.5 UJ	120 JB	81.6 UJ	14800 J	10000
CHROMIUM	MG/KG	9.5	0.77 B	1.6 B	1.8 B	2.5	2.2
COBALT	MG/KG	6.2 B	0.35 U	0.35 U	0.39 UJ	0.34 B	0.39 U
COPPER	MG/KG	45.5	0.72 JB	0.97 JB	0.73 UJ	2.7 UJ	1.7 UJ
IRON	MG/KG	11400	620 J	1050 J	1100	1540	1440
LEAD	MG/KG	12.5	11	8	2.6 U	7.8	5.3
MAGNESIUM	MG/KG	439 B	25.4 UJ	64 JB	50.8 B	311 B	205 B
MANGANESE	MG/KG	52.5	1.8 UJ	10.5 J	7.2 J	12.6 J	9.3
MERCURY	MG/KG	0.34 U	0.02 U	0.02 B	0.04 B	0.34	0.11 U
NICKEL	MG/KG	13.9	1.4 U	1.4 U	1.5 UJ	1.3 UJ	1.5 U
POTASSIUM	MG/KG	661 B	25.4 JB	61.4 JB	38.9 B	88.5 B	76.6 B
SELENIUM	MG/KG	5.8	1 UJ	0.9 U	1 U	0.93 U	0.89 U
SILVER	MG/KG	0.56 UJ	0.73 UJ	0.89 UJ	0.39 U	0.34 U	0.39 UJ
SODIUM	MG/KG	162 UJ	18.4 UJ	16 UJ	15.4 UJ	28.1 UJ	39.6 UJ
THALLIUM	MG/KG	0.53 U	0.42 U	0.36 U	0.41 U	0.37 UJ	0.36 UJ
VANADIUM	MG/KG	30.1	3 JB	4.3 JB	3.7 JB	4.3 JB	3.6 JB
ZINC	MG/KG	16.8 U	2 UJ	3 UJ	5.4 U	11.9	36.7

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB18-00	6-203OSA-SB19-00	6-203OSA-SB2-00	6-203OSA-SB20-00	6-203OSA-SB3-00	6-203OSA-SB4-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/9/92	9/13/92	9/13/92	9/13/92	9/12/92	9/12/92
	Lab Id:	00496-08	00511-21	00511-05	00511-23	00507-28	00507-32
Parameter	Units						
ALUMINUM	MG/KG	1840	4030 J	2610 J	967 J	1320	2990
ANTIMONY	MG/KG	2.4 U	3 UJ	3.1 UJ	2.9 UJ	2.8 U	2.7 U
ARSENIC	MG/KG	0.73 JB	1.2 B	0.76 B	0.69 B	0.73 B	1.3 B
BARIUM	MG/KG	3.7 JB	4.6 JB	15.4 JB	9.6 JB	6.2 B	6.5 B
BERYLLIUM	MG/KG	0.05 U	0.44 UJ	0.47 UJ	0.41 UJ	0.06 UJ	0.06 UJ
CADMIUM	MG/KG	0.43 JB	0.41 U	0.42 U	0.77 JB	0.48 UJ	0.39 UJ
CALCIUM	MG/KG	745 B	193 JB	266 JB	1020 J	68.1 UJ	51.5 UJ
CHROMIUM	MG/KG	2	4.2	2.7	2.6	1 B	1.8 B
COBALT	MG/KG	0.34 U	0.43 U	0.44 U	0.41 U	0.4 UJ	0.38 UJ
COPPER	MG/KG	1.2 UJ	1.5 U	1.3 JB	10	1.1 UJ	0.46 UJ
IRON	MG/KG	1400	2390 J	1360 J	934 J	654 J	1260 J
LEAD	MG/KG	3.5	4.3	10.1	40.3	6.6	4.2 U
MAGNESIUM	MG/KG	48.2 B	119 B	97.2 JB	85.2 B	33.7 B	50.6 B
MANGANESE	MG/KG	4.6	2.9 JB	8.7 J	13.2 J	7.8 J	3.8 UJ
MERCURY	MG/KG	0.12 U	0.02 U	0.03 B	0.04 B	0.02 U	0.02 U
NICKEL	MG/KG	1.3 U	1.7 U	1.7 U	1.6 U	1.6 UJ	1.5 UJ
POTASSIUM	MG/KG	34.6 B	97.5 B	82.7 JB	44.6 JB	37.2 JB	30.4 JB
SELENIUM	MG/KG	0.84 U	1.1 U	1.2 U	0.95 U	1 U	1.1 U
SILVER	MG/KG	0.34 UJ	0.92 UJ	0.71 UJ	0.95 UJ	0.7 UJ	0.38 U
SODIUM	MG/KG	38 UJ	20.5 UJ	27.4 UJ	28.3 UJ	18.9 UJ	12.3 UJ
THALLIUM	MG/KG	0.33 UJ	0.43 UJ	0.48 U	0.38 UJ	0.4 U	0.43 UJ
VANADIUM	MG/KG	3.5 JB	8.5 B	3.8 JB	2.7 JB	2.1 JB	4 JB
ZINC	MG/KG	11.7 U	3.2 UJ	3.4 UJ	61.8 J	4.2 U	1.7 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-203OSA-SB5-00	6-203OSA-SB6-00	6-203OSA-SB7-00	6-203OSA-SB8-00	6-203OSA-SB9-00	6-RAV-SB1-00	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/11/92	9/10/92	9/14/92	9/13/92	9/13/92	9/10/92	
Lab Id:	00507-35	00496-16	00511-07	00511-09	00511-13	00502-26	
Parameter	Units						
ALUMINUM	MG/KG	1600	2800	3040 J	3800 J	2350 J	1140
ANTIMONY	MG/KG	2.9 U	2.6 U	3.5 JB	2.4 UJ	3 UJ	2.8 UJ
ARSENIC	MG/KG	0.7 B	0.59 UJ	1.5 B	0.71 B	1.3 B	0.53 UJ
BARIUM	MG/KG	6 B	19.4 B	22.7 JB	7 JB	11.6 JB	5.7 JB
BERYLLIUM	MG/KG	0.06 UJ	0.53 B	0.42 UJ	0.38 UJ	0.45 UJ	0.06 UJ
CADMIUM	MG/KG	0.39 U	0.48 JB	1.8 J	0.33 U	0.41 U	0.38 U
CALCIUM	MG/KG	49.8 UJ	230 B	1060 J	68.1 UJ	149 JB	64.6 JB
CHROMIUM	MG/KG	0.74 U	2.1	4.6	2.5	1.5 B	1.9 B
COBALT	MG/KG	0.41 UJ	0.54 JB	0.37 U	0.34 U	0.43 U	0.4 U
COPPER	MG/KG	0.65 UJ	1 UJ	17.6 J	0.69 JB	0.8 JB	0.6 UJ
IRON	MG/KG	912 J	601	2580 J	1750 J	960 J	851
LEAD	MG/KG	4.6 U	3.8	45.2	6.1	7	5.4
MAGNESIUM	MG/KG	33.8 B	28.9 U	98.7 JB	95.2 JB	59.7 JB	34.8 B
MANGANESE	MG/KG	3.8 UJ	1.4 B	72.3 J	8.6 J	20 J	2.6 JB
MERCURY	MG/KG	0.03 B	0.13 U	0.16	0.02 U	0.04 B	0.03 U
NICKEL	MG/KG	1.6 UJ	2.8 JB	1.5 U	1.4 U	1.7 U	1.6 U
POTASSIUM	MG/KG	33.2 JB	22.8 B	86.8 B	65.8 JB	40.5 JB	33.3 JB
SELENIUM	MG/KG	1 U	0.99 UJ	1.1 U	0.75 U	1 U	0.88 UJ
SILVER	MG/KG	0.63 UJ	0.54 U	0.81 UJ	0.62 UJ	1 UJ	0.47 JB
SODIUM	MG/KG	21.9 UJ	62.6 UJ	21.6 UJ	17.4 UJ	21.6 UJ	26.2 JB
THALLIUM	MG/KG	0.42 UJ	0.4 U	0.43 UJ	0.3 U	0.42 U	0.35 U
VANADIUM	MG/KG	2.9 JB	2.9 JB	6.6 B	5.6 B	3.2 JB	1.9 JB
ZINC	MG/KG	1.7 U	3.8 U	139 J	3.5 UJ	2.8 UJ	2.6 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-RAV-SB10-00	6-RAV-SB11-00	6-RAV-SB12-00	6-RAV-SB13-00	6-RAV-SB14-00	6-RAV-SB15-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	10/09/92
Lab Id:	00512-14	00512-17	00512-19	00512-22	00512-24	00570-05
Parameter	Units					
ALUMINUM	MG/KG	5200	2830	1860	3670	6660
ANTIMONY	MG/KG	4.3 UJ	2.6 UJ	3 UJ	6 UJ	3 UJ
ARSENIC	MG/KG	1.9 JB	0.6 U	0.97 B	17.4	2.1
BARIUM	MG/KG	34.8 B	7.2 B	16.3 B	398	48.6
BERYLLIUM	MG/KG	0.19 U	0.07 U	0.06 U	0.98 B	0.17 B
CADMIUM	MG/KG	2.4 J	0.35 U	0.4 U	51.9	1.6 J
CALCIUM	MG/KG	2640	137 B	407 B	3900	1990
CHROMIUM	MG/KG	10.2	4.3	2.7	34.6	6.6
COBALT	MG/KG	0.45 UJ	0.37 UJ	0.42 UJ	13.7	1.2 B
COPPER	MG/KG	27.7	1.7 JB	7	0.49 U	21.7
IRON	MG/KG	5040	1890	1650 J	149000	2860
LEAD	MG/KG	57.6 J	13.1 J	14.7 J	1710	60.8
MAGNESIUM	MG/KG	205 B	95.7 B	65.3 B	1110 B	164 B
MANGANESE	MG/KG	128	7.3	25.2	700	93.6
MERCURY	MG/KG	0.45 J	0.04 JB	0.07 JB	3.9	0.14
NICKEL	MG/KG	2.8 B	1.5 U	2 B	79.4	3.3 B
POTASSIUM	MG/KG	173 B	91.7 B	94.8 B	342 B	171 B
SELENIUM	MG/KG	1.1 UJ	0.92 U	1 U	4.5	1.1 U
SILVER	MG/KG	0.45 UJ	0.37 UJ	0.42 UJ	2.7 UJ	0.61 UJ
SODIUM	MG/KG	30.2 UJ	43.4 UJ	31.3 UJ	97.5 JB	40.8 UJ
THALLIUM	MG/KG	0.45 UJ	0.37 UJ	0.42 UJ	0.57 JB	0.44 U
VANADIUM	MG/KG	12.2 J	7.7 JB	5 JB	35.7	8.5 JB
ZINC	MG/KG	169	5.9	52.7	16600	145

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-RAV-SB6-00	6-RAV-SB7-00	6-RAV-SB8-00	6-RAV-SB9-00
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92
	Lab Id:	00512-06	00512-08	00512-10	00512-12
Parameter	Units				
ALUMINUM	MG/KG	2060	2080	297	294
ANTIMONY	MG/KG	3.1 UJ	8.3 UJ	2.8 UJ	3.3 UJ
ARSENIC	MG/KG	0.82 B	1.3 B	0.57 U	0.59 U
BARIUM	MG/KG	23.6 B	44.2	2.6 JB	6.8 JB
BERYLLIUM	MG/KG	0.1 U	0.16 U	0.06 U	0.07 U
CADMIUM	MG/KG	0.46 JB	1.5 J	0.39 U	0.45 U
CALCIUM	MG/KG	2350	3280	40 U	162 B
CHROMIUM	MG/KG	3.2	10.9	0.73 U	0.85 U
COBALT	MG/KG	0.44 UJ	0.76 JB	0.41 UJ	0.47 UJ
COPPER	MG/KG	5.7 J	17.1	0.39 U	0.55 JB
IRON	MG/KG	1470	5180	286	192
LEAD	MG/KG	48.1 J	30.4 J	8 J	2.4 J
MAGNESIUM	MG/KG	223 B	250 B	14.3 U	104 B
MANGANESE	MG/KG	12.6	48.9	5.6	5
MERCURY	MG/KG	0.49 J	0.31 J	0.02 JB	0.04 JB
NICKEL	MG/KG	3 B	2.5 B	1.6 U	1.9 U
POTASSIUM	MG/KG	197 B	217 B	24.5 JB	29.5 JB
SELENIUM	MG/KG	1.1 UJ	1.1 UJ	1 U	1.2 U
SILVER	MG/KG	0.44 UJ	0.38 UJ	0.41 UJ	0.47 UJ
SODIUM	MG/KG	38.7 UJ	45.4 UJ	20.1 UJ	27.3 UJ
THALLIUM	MG/KG	0.43 UJ	0.42 UJ	0.41 UJ	0.48 UJ
VANADIUM	MG/KG	8.8 JB	5.6 JB	1.8 UJ	1 UJ
ZINC	MG/KG	44.4	109	1.5 U	1.2 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-RAV-SB16-00	6-RAV-SB2-00	6-RAV-SB3-00	6-RAV-SB4-00	6-RAV-SB4A-00	6-RAV-SB5-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/09/92	9/10/92	9/11/92	9/11/92	9/14/92	9/14/92
	Lab Id:	00570-07	00502-28	00502-30	00502-33	00512-01	00512-03
Parameter	Units						
ALUMINUM	MG/KG	8290	1240	2530	601	917	2330
ANTIMONY	MG/KG	6.2 U	2.6 UJ	2.7 UJ	2.7 UJ	2.8 UJ	2.9 UJ
ARSENIC	MG/KG	21.8	0.49 UJ	0.58 UJ	0.56 UJ	0.48 UJ	0.69 JB
BARIUM	MG/KG	1410	26.3 B	5.2 BJ	2.9 JB	4.7 JB	7.7 B
BERYLLIUM	MG/KG	2.2 B	0.06 UJ	0.06 UJ	0.06 UJ	0.06 U	0.06 U
CADMIUM	MG/KG	0.84 UJ	0.36 U	0.58 JB	0.36 U	0.39 U	0.39 U
CALCIUM	MG/KG	3120	263 JB	61.5 JB	38.9 UJ	173 B	293 B
CHROMIUM	MG/KG	9	1.6 B	2.9	1.3 B	0.82 B	3.3
COBALT	MG/KG	6.7 B	0.38 U	0.39 U	0.38 U	0.41 UJ	0.41 UJ
COPPER	MG/KG	35	1.4 UJ	0.91 UJ	0.59 UJ	4.4 JB	2.3 JB
IRON	MG/KG	7380	836	1300	471	1150	1530
LEAD	MG/KG	27.3	8.8	3.5	10.7 J	10.5 J	7.8 J
MAGNESIUM	MG/KG	551 B	40.4 B	49.1 B	19.6 B	31.1 B	90.6 B
MANGANESE	MG/KG	69.7	7.9	4.4 J	2.8 JB	23.1	25.3
MERCURY	MG/KG	0.1 B	0.04 U	0.03 U	0.02 U	0.06 JB	0.11 J
NICKEL	MG/KG	15.2 B	1.5 U	1.5 U	1.5 U	1.7 B	1.6 U
POTASSIUM	MG/KG	2560	65.5 JB	49 JB	31.7 JB	32.6 JB	89.5 B
SELENIUM	MG/KG	5.3	0.82 UJ	0.97 U	0.93 U	1 U	1 U
SILVER	MG/KG	0.88 UJ	0.38 UJ	0.49 JB	0.38 UJ	0.41 UJ	0.41 UJ
SODIUM	MG/KG	205 UJ	30 JB	28 JB	30.8 JB	15.4 UJ	18.9 UJ
THALLIUM	MG/KG	0.82 UJ	0.33 U	0.39 U	0.37 U	0.41 UJ	0.41 UJ
VANADIUM	MG/KG	28.3	2.9 JB	3.8 JB	1.8 JB	2.1 UJ	5.3 JB
ZINC	MG/KG	73.6	3.5 U	3.7 U	3.8 U	45.5	26.1

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Units	Sample No:	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	LOCATION OF	FREQUENCY
		Depth:	NONDETECTED	NONDETECTED	DETECTED	DETECTED	MAXIMUM	OF
		Date Sampled:					DETECTED	DETECTION
		Lab Id:						
ALUMINUM	MG/KG		90.5 U	90.5 U	177 J	19200 J	6-203OSA-SB1-00	81/82
ANTIMONY	MG/KG		2 U	9.6 U	3.5 JB	13.2 JB	6-203OSA-SB1-00	2/82
ARSENIC	MG/KG		0.44 U	1.2 U	0.49 B	26.3	6-201N-SB1-00	36/82
BARIUM	MG/KG		2.6 UJ	4.1 U	1.1 JB	1410	6-RAV-SB16-00	77/82
BERYLLIUM	MG/KG		0.04 U	1.8 UJ	0.06 B	2.2	6-RAV-SB16-00	13/82
CADMIUM	MG/KG		0.27 U	0.84 UJ	0.4 JB	51.9	6-RAV-SB13-00	30/82
CALCIUM	MG/KG		27.8 UJ	117 UJ	39.6 B	174000 J	6-201S-SB1-00	70/82
CHROMIUM	MG/KG		0.62 UJ	10.7 U	0.72 B	54.6	6-RAV-SB13-00	55/82
COBALT	MG/KG		0.29 UJ	2 UJ	0.34 B	13.7	6-RAV-SB13-00	14/82
COPPER	MG/KG		0.35 U	4.4 U	0.39 JB	348	6-RAV-SB15-00	38/82
IRON	MG/KG		62.1 UJ	254 UJ	113	149000	6-RAV-SB13-00	78/82
LEAD	MG/KG		0.16 U	4.6 U	2	1710	6-RAV-SB13-00	71/82
MAGNESIUM	MG/KG		3.7 U	28.9 U	12.3 B	2580 J	6-201S-SB1-00	72/82
MANGANESE	MG/KG		0.11 UJ	5.4 UJ	1.1 JB	700	6-RAV-SB13-00	70/82
MERCURY	MG/KG		0.02 U	0.34 U	0.02 B	3.9	6-RAV-SB13-00	35/82
NICKEL	MG/KG		1.1 U	16.4 U	1.7 B	79.4	6-RAV-SB13-00	15/82
POTASSIUM	MG/KG		12 U	97.1 U	15 JB	2560	6-RAV-SB16-00	71/82
SELENIUM	MG/KG		0.73 U	2.4 UJ	0.9	5.8	6-203OSA-SB12-00	8/82
SILVER	MG/KG		0.34 U	3.9 U	0.47 JB	0.49 JB	6-RAV-SB3-00	2/82
SODIUM	MG/KG		10.9 U	332 UJ	9.6 JB	809 JB	6-203OSA-SB1-00	18/82
THALLIUM	MG/KG		0.29 UJ	1.5 U	0.35 B	0.57 JB	6-RAV-SB13-00	2/82
VANADIUM	MG/KG		0.87 U	2.1 UJ	0.36 JB	35.7	6-RAV-SB13-00	72/82
ZINC	MG/KG		0.69 U	16.8 U	1.6 B	16600	6-RAV-SB13-00	39/82

CLEJ-01272-3.13-08/20/93

L.6

**Site 6 (Wooded Areas and Ravine) and Site 82
Subsurface Soil, Organic and Inorganic**

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB1-01	6-201E-SB10-01	6-201E-SB11-01	6-201E-SB12-01	6-201E-SB13-02	6-201E-SB14-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/12/92	9/12/92	9/13/92	9/13/92	9/13/92
Lab Id:	00507-02	00507-22	00507-24	00510-02	00510-05	00510-07
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	2 UJ	1.8 UJ	1.9 UJ	2 UJ	2 UJ
BETA-BHC	UG/KG	2 U	1.8 U	1.9 U	2 UJ	2 UJ
DELTA-BHC	UG/KG	2 UJ	1.8 UJ	1.9 UJ	2 UJ	2 UJ
GAMMA-BHC(LINDANE)	UG/KG	2 UJ	1.8 UJ	1.9 UJ	2 UJ	2 UJ
HEPTACHLOR	UG/KG	2 U	1.8 U	1.9 U	2 UJ	2 UJ
ALDRIN	UG/KG	2 U	1.8 U	1.9 U	2 UJ	2 UJ
HEPTACHLOR EPOXIDE	UG/KG	2 U	1.8 U	1.9 U	2 UJ	2 UJ
ENDOSULFAN I	UG/KG	2 U	1.8 U	1.9 U	2 UJ	2 UJ
DIELDRIN	UG/KG	3.9 U	3.5 U	3.8 U	3.8 UJ	4 UJ
4,4'-DDE	UG/KG	3.9 U	3.5 U	3.8 U	3.8 UJ	4 UJ
ENDRIN	UG/KG	3.9 U	3.5 U	3.8 U	3.8 UJ	4 UJ
ENDOSULFAN II	UG/KG	3.9 U	3.5 U	3.8 U	3.8 UJ	4 UJ
4,4'-DDD	UG/KG	3.9 U	3.5 U	3.8 U	3.8 UJ	4 UJ
ENDOSULFAN SULFATE	UG/KG	3.9 U	3.5 U	3.8 U	3.8 UJ	4 UJ
4,4'-DDT	UG/KG	3.9 UJ	3.5 UJ	3.8 UJ	3.8 UJ	4 UJ
METHOXYCHLOR	UG/KG	20 U	18 U	19 U	20 UJ	20 UJ
ENDRIN KETONE	UG/KG	3.9 U	3.5 U	3.8 U	3.8 UJ	4 UJ
ENDRIN ALDEHYDE	UG/KG	3.9 U	3.5 U	3.8 U	3.8 UJ	4 UJ
ALPHA CHLORDANE	UG/KG	2 U	1.8 U	1.9 U	2 UJ	2 UJ
GAMMA CHLORDANE	UG/KG	2 U	1.8 U	1.9 U	2 UJ	2 UJ
TOXAPHENE	UG/KG	200 U	180 U	190 U	200 UJ	200 UJ
PCB-1016	UG/KG	39 U	35 U	38 U	38 UJ	40 UJ
PCB-1221	UG/KG	79 U	72 U	76 U	77 UJ	81 UJ
PCB-1232	UG/KG	39 U	35 U	38 U	38 UJ	40 UJ
PCB-1242	UG/KG	39 U	35 U	38 U	38 UJ	40 UJ
PCB-1248	UG/KG	39 U	35 U	38 U	38 UJ	40 UJ
PCB-1254	UG/KG	39 U	35 U	38 U	38 UJ	40 UJ
PCB-1260	UG/KG	46 J	35 U	38 U	38 UJ	40 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 UJ
BROMOMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 UJ
VINYL CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	11 U
CHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
ACETONE	UG/KG	11 U	19 U	16 U	11 U	12 U
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 UJ	11 UJ	11 UJ	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U
CHLOROFORM	UG/KG	11 U	11 U	11 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201E-SB1-01	6-201E-SB10-01	6-201E-SB11-01	6-201E-SB12-01	6-201E-SB13-02	6-201E-SB14-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/12/92	9/12/92	9/13/92	9/13/92	9/13/92
Lab Id:	00507-02	00507-22	00507-24	00510-02	00510-05	00510-07
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 UJ	1 J	11 U	11 U	11 U
CARBON TETRACHLORIDE	UG/KG	11 UJ	11 U	11 U	11 U	11 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	11 U	11 U	11 U	11 U
TRICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
BENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	11 U	11 U	11 U	11 U
BROMOFORM	UG/KG	11 U	11 U	11 U	11 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	11 U	11 U
2-HEXANONE	UG/KG	11 U	11 U	11 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 UJ	11 UJ	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U
TOLUENE	UG/KG	11 U	2 J	11 U	11 U	11 U
CHLOROBENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U
STYRENE	UG/KG	11 U	11 U	11 U	11 U	11 U
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	11 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	390 U	350 U	370 U	380 U	380 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG	390 U	350 U	370 U	380 U	380 U
2-CHLOROPHENOL	UG/KG	390 U	350 U	370 U	380 U	380 U
1,3-DICHLOROBENZENE	UG/KG	390 U	350 U	370 U	380 U	380 U
1,4-DICHLOROBENZENE	UG/KG	390 U	49 J	370 U	380 U	380 U
1,2-DICHLOROBENZENE	UG/KG	390 U	350 U	370 U	380 U	380 U
2-METHYLPHENOL	UG/KG	390 U	350 U	370 U	380 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	390 U	350 U	370 U	380 U	380 U
4-METHYLPHENOL	UG/KG	390 U	350 U	370 U	380 U	380 UJ
N-NITROSODI-N-PROPYLAMINE	UG/KG	390 U	350 U	370 U	380 U	380 UJ
HEXACHLOROETHANE	UG/KG	390 U	350 U	370 U	380 U	380 U
NITROBENZENE	UG/KG	390 U	350 U	370 U	380 U	380 U
ISOPHORONE	UG/KG	390 U	350 U	370 U	380 U	380 U
2-NITROPHENOL	UG/KG	390 U	350 U	370 U	380 U	380 U
2,4-DIMETHYLPHENOL	UG/KG	390 U	350 U	370 U	380 U	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	390 U	350 U	370 U	380 U	380 U
2,4-DICHLOROPHENOL	UG/KG	390 U	350 U	370 U	380 U	380 U
1,2,4-TRICHLOROBENZENE	UG/KG	390 U	350 U	370 U	380 U	380 U
NAPHTHALENE	UG/KG	390 U	350 U	370 U	380 U	380 U
4-CHLORANILINE	UG/KG	390 U	350 U	370 U	380 U	380 U
HEXACHLOROBUTADIENE	UG/KG	390 U	350 U	370 U	380 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB1-01	6-201E-SB10-01	6-201E-SB11-01	6-201E-SB12-01	6-201E-SB13-02	6-201E-SB14-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/11/92	9/12/92	9/12/92	9/13/92	9/13/92	9/13/92	
Lab Id:	00507-02	00507-22	00507-24	00510-02	00510-05	00510-07	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
2-METHYLNAPHTHALENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
2,4,6-TRICHLOROPHENOL	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
2,4,5-TRICHLOROPHENOL	UG/KG	940 U	860 U	900 U	920 U	980 U	930 U
2-CHLORONAPHTHALENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
2-NITROANILINE	UG/KG	940 U	860 U	900 U	920 U	980 U	930 U
DIMETHYL PHTHALATE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
ACENAPHTHYLENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
2,6-DINITROTOLUENE	UG/KG	390 U	350 U	370 UJ	380 U	400 U	380 U
3-NITROANILINE	UG/KG	940 U	860 U	900 U	920 U	980 U	930 U
ACENAPHTHENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
2,4-DINITROPHENOL	UG/KG	940 U	860 U	900 U	920 U	980 U	930 U
4-NITROPHENOL	UG/KG	940 U	860 U	900 U	920 U	980 U	930 U
DIBENZOFURAN	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
2,4-DINITROTOLUENE	UG/KG	390 U	350 U	370 UJ	380 U	400 U	380 U
DIETHYL PHTHALATE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
FLUORENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
4-NITROANILINE	UG/KG	940 U	860 U	900 U	920 U	980 U	930 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	940 U	860 U	900 U	920 U	980 U	930 U
N-NITROSODIPHENYLAMINE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
HEXACHLOROBENZENE	UG/KG	390 U	350 U	370 UJ	380 U	400 U	380 U
PENTACHLOROPHENOL	UG/KG	940 U	860 U	900 UJ	920 U	980 U	930 U
PHENANTHRENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
ANTHRACENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
DI-N-BUTYL PHTHALATE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
FLUORANTHENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
CARBAZOLE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
PYRENE	UG/KG	390 U	350 UJ	370 U	380 UJ	400 U	380 U
BUTYL BENZYL PHTHALATE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
3,3-DICHLOROBENZIDINE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
BENZO(A)ANTHRACENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
CHRYSENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	1200 J	350 U	370 U	380 U	390 U	380 U
DI-N-OCTYL PHTHALATE	UG/KG	390 UJ	350 U	370 U	380 U	400 U	380 U
BENZO(B)FLUORANTHENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
BENZO(K)FLUORANTHENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
BENZO(A)PYRENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
INDENO(1,2,3-CD) PYRENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
DIBENZ(A,H)ANTHRACENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U
BENZO(G,H,I)PERYLENE	UG/KG	390 U	350 U	370 U	380 U	400 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB15-01	6-201E-SB16-02	6-201E-SB17-02	6-201E-SB18-01	6-201E-SB19-02	6-201E-SB2-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/13/92	9/13/92	9/13/92	9/13/92	9/15/92	9/11/92
Lab Id:	00510-09	00510-11	00510-13	00510-15	00519-03	00507-04
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 UJ
BETA-BHC	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 U
DELTA-BHC	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 UJ
GAMMA-BHC(LINDANE)	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 UJ
HEPTACHLOR	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 U
ALDRIN	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 U
ENDOSULFAN I	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 U
DIELDRIN	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 U
4,4'-DDE	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 U
ENDRIN	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 U
ENDOSULFAN II	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 U
4,4'-DDD	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 U
ENDOSULFAN SULFATE	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 U
4,4'-DDT	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 UJ
METHOXYCHLOR	UG/KG	20 UJ	20 U	18 UR	17 UJ	19 U
ENDRIN KETONE	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 U
ENDRIN ALDEHYDE	UG/KG	4 UJ	3.8 U	3.6 UR	3.3 UJ	3.8 U
ALPHA CHLORDANE	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 U
GAMMA CHLORDANE	UG/KG	2 UJ	2 U	1.8 UR	1.7 UJ	1.9 U
TOXAPHENE	UG/KG	200 UJ	200 U	180 UR	170 UJ	190 U
PCB-1016	UG/KG	40 UJ	38 U	36 UR	33 UJ	38 U
PCB-1221	UG/KG	80 UJ	78 U	72 UR	68 UJ	77 U
PCB-1232	UG/KG	40 UJ	38 U	36 UR	33 UJ	38 U
PCB-1242	UG/KG	40 UJ	38 U	36 UR	33 UJ	38 U
PCB-1248	UG/KG	40 UJ	38 U	36 UR	33 UJ	38 U
PCB-1254	UG/KG	40 UJ	38 U	36 UR	33 UJ	38 U
PCB-1260	UG/KG	40 UJ	38 U	71 J	83 J	37 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 UJ	11 UJ	12 UJ	11 U	12 U
BROMOMETHANE	UG/KG	11 UJ	11 UJ	12 UJ	11 U	12 U
VINYL CHLORIDE	UG/KG	11 U	11 U	12 U	11 U	12 UJ
CHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	12 U	11 U	12 U
ACETONE	UG/KG	11 U	25 U	12 U	11 U	12 U
CARBON DISULFIDE	UG/KG	11 U	11 U	12 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	12 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	12 U	11 UJ	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	12 U	11 U	12 U
CHLOROFORM	UG/KG	11 U	11 U	12 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	12 U
2-BUTANONE	UG/KG	11 U	11 U	12 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-201E-SB15-01	6-201E-SB16-02	6-201E-SB17-02	6-201E-SB18-01	6-201E-SB19-02	6-201E-SB2-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/13/92	9/13/92	9/13/92	9/13/92	9/13/92	9/11/92
	Lab Id:	00510-09	00510-11	00510-13	00510-15	00519-03	00507-04
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
CARBON TETRACHLORIDE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
TRICHLOROETHENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
BENZENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
BROMOFORM	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
2-HEXANONE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
TOLUENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
CHLOROENZENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
ETHYLBENZENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
STYRENE	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
TOTAL XYLENES	UG/KG	11 U	11 U	12 U	11 U	11 U	12 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2-CHLOROPHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
1,3-DICHLOROBENZENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
1,4-DICHLOROBENZENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
1,2-DICHLOROBENZENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2-METHYLPHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2,2'-OXYBIS (1-CHLOROPROPANE)	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
4-METHYLPHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
HEXACHLOROETHANE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
NITROBENZENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
ISOPHORONE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2-NITROPHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2,4-DIMETHYLPHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2,4-DICHLOROPHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
1,2,4-TRICHLOROBENZENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
NAPHTHALENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
4-CHLORANILINE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
HEXACHLOROBTADIENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB15-01	6-201E-SB16-02	6-201E-SB17-02	6-201E-SB18-01	6-201E-SB19-02	6-201E-SB2-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/13/92	9/13/92	9/13/92	9/13/92	9/15/92	9/11/92	
Lab Id:	00510-09	00510-11	00510-13	00510-15	00519-03	00507-04	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2-METHYLNAPHTHALENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2,4,6-TRICHLOROPHENOL	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2,4,5-TRICHLOROPHENOL	UG/KG	950 U	920 U	860 U	810 UR	890 U	930 U
2-CHLORONAPHTHALENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2-NITROANILINE	UG/KG	950 U	920 U	860 U	810 UR	890 U	930 U
DIMETHYL PHTHALATE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
ACENAPHTHYLENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2,6-DINITROTOLUENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
3-NITROANILINE	UG/KG	950 U	920 U	860 U	810 UR	890 U	930 U
ACENAPHTHENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2,4-DINITROPHENOL	UG/KG	950 U	920 U	860 U	810 UR	890 U	930 U
4-NITROPHENOL	UG/KG	950 U	920 U	860 U	810 UR	890 U	930 U
DIBENZOFURAN	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
2,4-DINITROTOLUENE	UG/KG	390 UJ	380 U	360 U	330 UR	370 U	380 U
DIETHYL PHTHALATE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
FLUORENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
4-NITROANILINE	UG/KG	950 U	920 U	860 U	810 UR	890 U	930 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	950 U	920 U	860 U	810 UR	890 U	930 U
N-NITROSODIPHENYLAMINE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
HEXACHLOROBENZENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
PENTACHLOROPHENOL	UG/KG	950 U	920 U	860 U	810 UR	890 UJ	930 U
PHENANTHRENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
ANTHRACENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
DI-N-BUTYL PHTHALATE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
FLUORANTHENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
CARBAZOLE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
PYRENE	UG/KG	390 UJ	380 U	360 U	330 UR	370 UJ	380 U
BUTYL BENZYL PHTHALATE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
3,3-DICHLOROBENZIDINE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
BENZO(A)ANTHRACENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
CHRYSENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	390 U	380 U	360 U	330 UR	370 UJ	160 J
DI-N-OCTYL PHTHALATE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 UJ
BENZO(B)FLUORANTHENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 UJ
BENZO(K)FLUORANTHENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 UJ
BENZO(A)PYRENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 UJ
INDENO(1,2,3-CD) PYRENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 UJ
BENZO(G,H,I)PERYLENE	UG/KG	390 U	380 U	360 U	330 UR	370 U	380 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB20-02	6-201E-SB3-01	6-201E-SB4-01	6-201E-SB5-01	6-201E-SB6-02	6-201E-SB7-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/13/92	9/11/92	9/11/92	9/11/92	9/12/92	9/12/92
Lab Id:	00519-06	00507-06	00507-08	00507-11	00507-13	00507-15
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.8 U	1.9 UJ	1.9 UJ	2 UJ	2 UJ
BETA-BHC	UG/KG	1.8 U	1.9 U	1.9 U	2 U	2 U
DELTA-BHC	UG/KG	1.8 U	1.9 UJ	1.9 UJ	2 UJ	2 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.9 UJ	1.9 UJ	2 UJ	2 UJ
HEPTACHLOR	UG/KG	1.8 U	1.9 U	1.9 U	2 U	2 U
ALDRIN	UG/KG	1.8 U	1.9 U	1.9 U	2 U	2 U
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.9 U	1.9 U	2 U	2 U
ENDOSULFAN I	UG/KG	1.8 U	1.9 U	1.9 U	2 U	2 U
DIELDRIN	UG/KG	3.6 U	3.6 U	3.7 U	3.8 U	4 U
4,4'-DDE	UG/KG	3.6 U	3.6 U	3.7 U	3.8 U	4 U
ENDRIN	UG/KG	3.6 U	3.6 U	3.7 U	3.8 U	4 U
ENDOSULFAN II	UG/KG	3.6 U	3.6 U	3.7 U	3.8 U	4 U
4,4'-DDD	UG/KG	3.6 U	3.6 U	3.7 U	3.8 U	4 U
ENDOSULFAN SULFATE	UG/KG	3.6 U	3.6 U	3.7 U	3.8 U	4 U
4,4'-DDT	UG/KG	3.6 U	3.6 UJ	3.7 UJ	3.8 UJ	4 UJ
METHOXYCHLOR	UG/KG	18 U	19 U	19 U	20 U	20 U
ENDRIN KETONE	UG/KG	3.6 U	3.6 U	3.7 U	3.8 U	4 U
ENDRIN ALDEHYDE	UG/KG	3.6 U	3.6 U	3.7 U	3.8 U	4 U
ALPHA CHLORDANE	UG/KG	1.8 U	1.9 U	1.9 U	2 U	2 U
GAMMA CHLORDANE	UG/KG	1.8 U	1.9 U	1.9 U	2 U	2 U
TOXAPHENE	UG/KG	180 U	190 U	190 U	200 U	200 U
PCB-1016	UG/KG	36 U	36 U	37 U	38 U	40 U
PCB-1221	UG/KG	73 U	73 U	76 U	77 U	81 U
PCB-1232	UG/KG	36 U	36 U	37 U	38 U	40 U
PCB-1242	UG/KG	36 U	36 U	37 U	38 U	40 U
PCB-1248	UG/KG	36 U	36 U	37 U	38 U	40 U
PCB-1254	UG/KG	36 U	36 U	37 U	38 U	40 U
PCB-1260	UG/KG	36 U	36 U	37 U	100	40 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	10 U	11 U	11 U	12 U	12 U
BROMOMETHANE	UG/KG	10 U	11 U	11 U	12 U	12 U
VINYL CHLORIDE	UG/KG	10 U	11 UJ	11 U	12 U	12 U
CHLOROETHANE	UG/KG	10 U	11 U	11 U	12 U	12 U
METHYLENE CHLORIDE	UG/KG	10 U	11 U	11 U	12 U	12 U
ACETONE	UG/KG	10 U	11 U	11 U	12 U	12 U
CARBON DISULFIDE	UG/KG	10 U	11 U	11 U	12 U	12 U
1,1-DICHLOROETHENE	UG/KG	10 U	11 U	11 U	12 U	12 U
1,1-DICHLOROETHANE	UG/KG	10 U	11 U	11 U	12 U	12 U
1,2-DICHLOROETHENE	UG/KG	10 U	11 U	11 U	12 U	12 U
CHLOROFORM	UG/KG	10 U	11 U	11 U	12 U	12 U
1,2-DICHLOROETHANE	UG/KG	10 U	11 U	11 U	12 U	12 U
2-BUTANONE	UG/KG	10 U	11 U	11 U	12 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB20-02	6-201E-SB3-01	6-201E-SB4-01	6-201E-SB5-01	6-201E-SB6-02	6-201E-SB7-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/15/92	9/11/92	9/11/92	9/11/92	9/12/92	9/12/92
Lab Id:	00519-06	00507-06	00507-08	00507-11	00507-13	00507-15
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	10 U	11 U	11 UJ	12 UJ	11 U
CARBON TETRACHLORIDE	UG/KG	10 U	11 U	11 UJ	12 UJ	11 U
BROMODICHLOROMETHANE	UG/KG	10 U	11 U	11 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	10 U	11 U	11 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	10 U	11 UJ	11 UJ	12 UJ	11 U
TRICHLOROETHENE	UG/KG	10 U	11 U	11 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	10 U	11 U	11 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	10 U	11 U	11 U	12 U	11 U
BENZENE	UG/KG	10 U	11 U	11 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U	11 UJ	11 UJ	12 UJ	11 U
BROMOFORM	UG/KG	10 U	11 U	11 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	10 U	11 U	11 U	12 U	11 U
2-HEXANONE	UG/KG	10 U	11 U	11 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	10 U	11 U	11 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	11 U	11 U	12 U	11 U
TOLUENE	UG/KG	10 U	11 U	11 U	12 U	11 U
CHLOROENZENE	UG/KG	10 U	11 U	11 U	12 U	11 U
ETHYLBENZENE	UG/KG	10 U	11 U	11 U	12 U	11 U
STYRENE	UG/KG	10 U	11 U	11 U	12 U	11 U
TOTAL XYLENES	UG/KG	10 U	11 U	11 U	12 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 U	360 UJ	370 U	380 UJ	400 UJ
2-CHLOROPHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
1,3-DICHLOROBENZENE	UG/KG	360 U	360 U	370 U	380 U	400 U
1,4-DICHLOROBENZENE	UG/KG	360 U	360 U	370 U	380 U	50 J
1,2-DICHLOROBENZENE	UG/KG	360 U	360 U	370 U	380 U	400 U
2-METHYLPHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 U	360 U	370 U	380 U	400 U
4-METHYLPHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	360 U	370 U	380 U	400 U
HEXACHLOROETHANE	UG/KG	360 U	360 U	370 U	380 U	400 U
NITROBENZENE	UG/KG	360 U	360 U	370 U	380 U	400 U
ISOPHORONE	UG/KG	360 U	360 U	370 U	380 U	400 U
2-NITROPHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
2,4-DIMETHYLPHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	360 U	370 U	380 U	400 U
2,4-DICHLOROPHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	360 U	370 U	380 U	400 U
NAPHTHALENE	UG/KG	360 U	360 U	370 U	380 U	400 U
4-CHLORANILINE	UG/KG	360 U	360 U	370 U	380 U	400 U
HEXACHLOROBUTADIENE	UG/KG	360 U	360 U	370 U	380 U	400 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	6-201E-SB20-02	6-201E-SB3-01	6-201E-SB4-01	6-201E-SB5-01	6-201E-SB6-02	6-201E-SB7-01
Sample No:	6-201E-SB20-02	6-201E-SB3-01	6-201E-SB4-01	6-201E-SB5-01	6-201E-SB6-02	6-201E-SB7-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/15/92	9/11/92	9/11/92	9/11/92	9/12/92	9/12/92
Lab Id:	00519-06	00507-06	00507-08	00507-11	00507-13	00507-15
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
2-METHYLNAPHTHALENE	UG/KG	360 U	360 U	370 U	380 U	400 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	360 U	360 U	370 U	380 U	400 U
2,4,6-TRICHLOROPHENOL	UG/KG	360 U	360 U	370 U	380 U	400 U
2,4,5-TRICHLOROPHENOL	UG/KG	870 U	880 U	910 U	920 U	960 U
2-CHLORONAPHTHALENE	UG/KG	360 U	360 U	370 U	380 U	400 U
2-NITROANILINE	UG/KG	870 U	880 U	910 U	920 U	960 U
DIMETHYL PHTHALATE	UG/KG	360 U	360 U	370 U	380 U	400 U
ACENAPHTHYLENE	UG/KG	360 U	360 U	370 U	380 U	400 U
2,6-DINITROTOLUENE	UG/KG	360 U	360 U	370 U	380 U	400 U
3-NITROANILINE	UG/KG	870 U	880 U	910 U	920 U	960 U
ACENAPHTHENE	UG/KG	360 U	360 U	370 U	380 U	400 U
2,4-DINITROPHENOL	UG/KG	870 U	880 U	910 UJ	920 U	960 U
4-NITROPHENOL	UG/KG	870 U	880 U	910 UJ	920 U	960 U
DIBENZOFURAN	UG/KG	360 U	360 U	370 U	380 U	400 U
2,4-DINITROTOLUENE	UG/KG	360 U	360 U	370 U	380 U	400 U
DIETHYL PHTHALATE	UG/KG	360 U	360 U	370 U	380 U	400 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	360 U	370 U	380 U	400 U
FLUORENE	UG/KG	360 U	360 U	370 UJ	380 U	400 U
4-NITROANILINE	UG/KG	870 U	880 UJ	910 U	920 UJ	960 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/KG	870 U	880 U	910 U	920 U	960 U
N-NITRISODIPHENYLAMINE	UG/KG	360 U	360 U	370 U	380 U	400 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U	360 U	370 U	380 U	400 U
HEXACHLOROBENZENE	UG/KG	360 U	360 U	370 U	380 U	400 U
PENTACHLOROPHENOL	UG/KG	870 U	880 U	910 U	920 U	960 U
PHENANTHRENE	UG/KG	360 U	360 U	370 U	380 U	400 U
ANTHRACENE	UG/KG	360 U	360 U	370 U	380 U	400 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U	360 U	370 U	380 U	400 U
FLUORANTHENE	UG/KG	360 U	360 U	370 U	380 U	400 U
CARBAZOLE	UG/KG	360 U	360 U	370 U	380 U	400 U
PYRENE	UG/KG	360 U	360 UJ	370 UJ	380 UJ	400 UJ
BUTYL BENZYL PHTHALATE	UG/KG	360 U	360 U	370 U	380 U	400 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U	360 UJ	370 U	380 UJ	400 UJ
BENZO(A)ANTHRACENE	UG/KG	360 U	360 U	370 U	380 U	400 U
CHRYSENE	UG/KG	360 U	360 U	370 U	380 U	400 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	360 U	360 UJ	370 UJ	380 UJ	400 UJ
DI-N-OCTYL PHTHALATE	UG/KG	360 U	360 UJ	370 U	380 UJ	400 UJ
BENZO(B)FLUORANTHENE	UG/KG	360 U	360 U	370 U	380 UJ	400 U
BENZO(K)FLUORANTHENE	UG/KG	360 UJ	360 U	370 U	380 UJ	400 U
BENZO(A)PYRENE	UG/KG	360 U	360 U	370 U	380 UJ	400 U
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U	360 U	370 U	380 UJ	400 U
DIBENZ(A,H)ANTHRACENE	UG/KG	360 U	360 U	370 U	380 UJ	400 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U	360 U	370 U	380 UJ	400 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB8-01	6-201E-SB9-01	6-201N-SB1-01	6-201N-SB10-02	6-201N-SB11-07	6-201N-SB12-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/12/92	9/11/92	9/11/92	10/13/92	10/13/92
Lab Id:	00507-17	00507-19	00502-02	00507-27	00573-12	00573-14
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/KG	1.9 UJ	1.8 UJ	1.9 UR	1.8 UJ	1.9 U
BETA-BHC	UG/KG	1.9 U	1.8 U	1.9 UR	1.8 U	1.9 U
DELTA-BHC	UG/KG	1.9 UJ	1.8 UJ	1.9 UR	1.8 UJ	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	1.9 UJ	1.8 UJ	1.9 UR	1.8 UJ	1.9 U
HEPTACHLOR	UG/KG	1.9 U	1.8 U	1.9 UR	1.8 U	1.9 U
ALDRIN	UG/KG	1.9 U	1.8 U	1.9 UR	1.8 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	1.9 U	1.8 U	1.9 UR	1.8 U	1.9 U
ENDOSULFAN I	UG/KG	1.9 U	1.8 U	1.9 UR	1.8 U	1.9 U
DIELDRIN	UG/KG	3.7 U	3.5 U	3.7 UR	3.4 U	3.8 U
4,4'-DDE	UG/KG	3.7 U	3.5 U	3.7 UR	3.4 U	3.8 U
ENDRIN	UG/KG	3.7 U	3.5 U	3.7 UR	3.4 U	3.8 U
ENDOSULFAN II	UG/KG	3.7 U	3.5 U	3.7 UR	3.4 U	3.8 U
4,4'-DDD	UG/KG	3.7 U	3.5 U	3.7 UR	3.4 U	3.8 U
ENDOSULFAN SULFATE	UG/KG	3.7 U	3.5 U	3.7 UR	3.4 U	3.8 U
4,4'-DDT	UG/KG	3.7 UJ	3.5 UJ	3.7 UR	3.4 UJ	5.9
METHOXYCHLOR	UG/KG	19 U	18 U	19 UR	18 U	19 U
ENDRIN KETONE	UG/KG	3.7 U	3.5 U	3.7 UR	3.4 U	3.8 U
ENDRIN ALDEHYDE	UG/KG	3.7 U	3.5 U	3.7 UR	3.4 U	3.8 U
ALPHA CHLORDANE	UG/KG	1.9 U	1.8 U	1.9 UR	1.8 U	1.9 U
GAMMA CHLORDANE	UG/KG	1.9 U	1.8 U	1.9 UR	1.8 U	1.9 U
TOXAPHENE	UG/KG	190 U	180 U	190 UR	180 U	190 U
PCB-1016	UG/KG	37 U	35 U	37 UR	34 U	38 U
PCB-1221	UG/KG	76 U	70 U	75 UR	70 U	77 U
PCB-1232	UG/KG	37 U	35 U	37 UR	34 U	38 U
PCB-1242	UG/KG	37 U	35 U	37 UR	34 U	38 U
PCB-1248	UG/KG	37 U	35 U	37 UR	34 U	38 U
PCB-1254	UG/KG	37 U	35 U	37 UR	34 U	38 U
PCB-1260	UG/KG	37 U	35 U	37 UR	34 U	38 U
VOLATILES						
CHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
BROMOMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
VINYL CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
CHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
ACETONE	UG/KG	11 U	11 U	11 U	11 U	27
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 UJ	11 UJ	11 U	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U
CHLOROFORM	UG/KG	11 U	11 U	11 U	11 UJ	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	11 UJ	11 UJ	12 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201E-SB8-01	6-201E-SB9-01	6-201N-SB1-01	6-201N-SB10-02	6-201N-SB11-07	6-201N-SB12-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/12/92	9/11/92	9/11/92	10/13/92	10/13/92
Lab Id:	00507-17	00507-19	00502-02	00507-27	00573-12	00573-14
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
CARBON TETRACHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	11 U	12 U
TRICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
BENZENE	UG/KG	11 U	11 U	11 U	1 J	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	11 U	12 U
BROMOFORM	UG/KG	11 U	11 U	11 U	11 U	12 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	11 U	12 U
2-HEXANONE	UG/KG	11 U	11 U	11 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	11 UJ	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
TOLUENE	UG/KG	11 U	11 U	11 U	1 J	12 U
CHLOROBENZENE	UG/KG	11 U	11 U	11 U	11 U	12 U
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	11 U	12 U
STYRENE	UG/KG	11 U	11 U	11 U	11 U	12 U
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	11 U	12 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	380 U	350 U	370 U	350 U	390 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG	380 U	350 U	370 U	350 U	390 U
2-CHLOROPHENOL	UG/KG	380 U	350 U	370 U	350 U	390 U
1,3-DICHLOROBENZENE	UG/KG	380 U	350 U	370 U	350 U	390 U
1,4-DICHLOROBENZENE	UG/KG	380 U	350 U	370 U	350 U	390 U
1,2-DICHLOROBENZENE	UG/KG	380 U	350 U	370 U	350 U	390 U
2-METHYLPHENOL	UG/KG	380 U	350 U	370 U	350 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	380 U	350 U	370 U	350 U	390 U
4-METHYLPHENOL	UG/KG	380 U	350 U	370 U	350 U	390 UJ
N-NITROSODI-N-PROPYLAMINE	UG/KG	380 U	350 U	370 U	350 U	390 U
HEXACHLOROETHANE	UG/KG	380 U	350 U	370 U	350 U	390 U
NITROBENZENE	UG/KG	380 U	350 U	370 U	350 U	390 U
ISOPHORONE	UG/KG	380 U	350 U	370 U	350 U	390 U
2-NITROPHENOL	UG/KG	380 U	350 U	370 U	350 U	390 U
2,4-DIMETHYLPHENOL	UG/KG	380 U	350 U	370 U	350 U	390 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	380 U	350 U	370 U	350 U	390 U
2,4-DICHLOROPHENOL	UG/KG	380 U	350 U	370 U	350 U	390 U
1,2,4-TRICHLOROBENZENE	UG/KG	380 U	350 U	370 U	350 U	390 U
NAPHTHALENE	UG/KG	380 U	350 U	370 U	350 U	390 U
4-CHLORANILINE	UG/KG	380 U	350 U	370 U	350 U	390 U
HEXACHLOROBUTADIENE	UG/KG	380 U	350 U	370 U	350 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201E-SB8-01	6-201E-SB9-01	6-201N-SB1-01	6-201N-SB10-02	6-201N-SB11-07	6-201N-SB12-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/12/92	9/11/92	9/11/92	10/13/92	10/13/92
Lab Id:	00507-17	00507-19	00502-02	00507-27	00573-12	00573-14
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	380 U	350 U	370 U	350 U	390 U
2-METHYLNAPHTHALENE	UG/KG	380 U	350 U	370 U	350 U	390 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
2,4,6-TRICHLOROPHENOL	UG/KG	380 U	350 UJ	370 U	350 U	390 U
2,4,5-TRICHLOROPHENOL	UG/KG	910 U	840 UJ	890 U	840 U	950 U
2-CHLORONAPHTHALENE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
2-NITROANILINE	UG/KG	910 U	840 UJ	890 U	840 U	950 U
DIMETHYL PHTHALATE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
ACENAPHTHYLENE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
2,6-DINITROTOLUENE	UG/KG	380 U	350 UJ	370 U	350 UJ	390 U
3-NITROANILINE	UG/KG	910 U	840 UJ	890 U	840 U	950 U
ACENAPHTHENE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
2,4-DINITROPHENOL	UG/KG	910 U	840 UJ	890 U	840 U	950 U
4-NITROPHENOL	UG/KG	910 U	840 UJ	890 U	840 U	950 U
DIBENZOFURAN	UG/KG	380 U	350 UJ	370 U	350 U	390 U
2,4-DINITROTOLUENE	UG/KG	380 U	350 UJ	370 U	350 UJ	390 UJ
DIETHYL PHTHALATE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	380 U	350 UJ	370 U	350 U	390 U
FLUORENE	UG/KG	380 U	350 UJ	370 UJ	350 U	390 U
4-NITROANILINE	UG/KG	910 U	840 UJ	890 U	840 U	950 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/KG	910 U	840 UJ	890 U	840 U	950 U
N-NITRISODIPHENYLAMINE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	380 U	350 UJ	370 U	350 U	390 U
HEXACHLOROBENZENE	UG/KG	380 U	350 UJ	370 U	350 UJ	390 U
PENTACHLOROPHENOL	UG/KG	910 U	840 UJ	890 U	840 UJ	950 U
PHENANTHRENE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
ANTHRACENE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
FLUORANTHENE	UG/KG	380 U	350 UJ	370 U	350 U	390 U
CARBAZOLE	UG/KG	380 U	350 U	370 U	350 U	390 U
PYRENE	UG/KG	380 U	350 U	370 UJ	350 U	390 U
BUTYL BENZYL PHTHALATE	UG/KG	380 U	350 U	370 UJ	350 U	390 U
3,3-DICHLOROBENZIDINE	UG/KG	380 U	350 U	370 UJ	350 U	390 U
BENZO(A)ANTHRACENE	UG/KG	380 U	350 U	370 UJ	350 U	390 U
CHRYSENE	UG/KG	380 U	350 U	370 UJ	350 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	380 U	350 U	370 UJ	350 U	390 U
DI-N-OCTYL PHTHALATE	UG/KG	380 UJ	350 U	370 UJ	350 U	390 U
BENZO(B)FLUORANTHENE	UG/KG	380 UJ	350 U	370 UJ	350 U	390 U
BENZO(K)FLUORANTHENE	UG/KG	380 UJ	350 U	370 UJ	350 U	390 U
BENZO(A)PYRENE	UG/KG	380 UJ	350 U	370 UJ	350 U	390 U
INDENO(1,2,3-CD) PYRENE	UG/KG	380 UJ	350 U	370 UJ	350 U	390 U
DIBENZ(A,H)ANTHRACENE	UG/KG	380 UJ	350 U	370 UJ	350 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG	380 UJ	350 U	370 UJ	350 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201N-SB2-01	6-201N-SB3-01	6-201N-SB4-01	6-201N-SB5-03	6-201N-SB6-01	6-201N-SB7-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/10/92	9/10/92	9/10/92	9/10/92	9/11/92	9/11/92	
Lab Id:	00502-05	00502-07	00502-09	00502-11	00502-13	00502-15	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
BETA-BHC	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
DELTA-BHC	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
HEPTACHLOR	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
ALDRIN	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.9 UJ	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
ENDOSULFAN I	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
DIELDRIN	UG/KG	3.7 U	3.7 UJ	3.3 U	3.5 UJ	12 UJ	3.8 UJ
4,4'-DDE	UG/KG	3.7 U	3.7 UJ	3.5	3.5 UJ	12 UJ	3.8 UJ
ENDRIN	UG/KG	3.7 U	3.7 UJ	3.3 U	3.5 UJ	12 UJ	3.8 UJ
ENDOSULFAN II	UG/KG	3.7 U	3.7 UJ	3.3 U	3.5 UJ	12 UJ	3.8 UJ
4,4'-DDD	UG/KG	3.7 U	3.7 UJ	3.3 U	3.5 UJ	12 UJ	3.8 UJ
ENDOSULFAN SULFATE	UG/KG	3.7 U	3.7 UJ	3.3 U	3.5 UJ	12 UJ	3.8 UJ
4,4'-DDT	UG/KG	3.7 U	3.7 UJ	3.3 U	3.5 UJ	12 UJ	3.8 UJ
METHOXYCHLOR	UG/KG	19 U	19 UJ	17 U	18 UJ	61 UJ	20 UJ
ENDRIN KETONE	UG/KG	3.7 U	3.7 UJ	3.3 U	3.5 UJ	12 UJ	3.8 UJ
ENDRIN ALDEHYDE	UG/KG	3.7 U	3.7 UJ	3.3 U	3.5 UJ	12 UJ	3.8 UJ
ALPHA CHLORDANE	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
GAMMA CHLORDANE	UG/KG	1.9 U	1.9 UJ	1.7 U	1.8 UJ	6.1 UJ	2 UJ
TOXAPHENE	UG/KG	190 U	190 UJ	170 U	180 UJ	610 UJ	200 UJ
PCB-1016	UG/KG	37 U	37 UJ	33 U	35 UJ	120 UJ	38 UJ
PCB-1221	UG/KG	75 U	74 UJ	68 U	70 UJ	240 UJ	77 UJ
PCB-1232	UG/KG	37 U	37 UJ	33 U	35 UJ	120 UJ	38 UJ
PCB-1242	UG/KG	37 U	37 UJ	33 U	35 UJ	120 UJ	38 UJ
PCB-1248	UG/KG	37 U	37 UJ	33 U	35 UJ	120 UJ	38 UJ
PCB-1254	UG/KG	37 U	37 UJ	33 U	35 UJ	120 UJ	38 UJ
PCB-1260	UG/KG	37 U	37 UJ	33 U	35 UJ	120 UJ	38 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
BROMOMETHANE	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 U
VINYL CHLORIDE	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 U
CHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
ACETONE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
CARBON DISULFIDE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 UJ
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
CHLOROFORM	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 U
1,2-DICHLOROETHANE	UG/KG	11 UJ	11 UJ	12 UJ	11 UJ	12 UJ	12 U
2-BUTANONE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB2-01	6-201N-SB3-01	6-201N-SB4-01	6-201N-SB5-03	6-201N-SB6-01	6-201N-SB7-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/10/92	9/10/92	9/10/92	9/10/92	9/11/92	9/11/92	
Lab Id:	00502-05	00502-07	00502-09	00502-11	00502-13	00502-15	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 U
CARBON TETRACHLORIDE	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
TRICHLOROETHENE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
BENZENE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 U
BROMOFORM	UG/KG	11 U	11 UJ	12 UJ	11 UJ	12 UJ	12 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
2-HEXANONE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
TETRACHLOROETHENE	UG/KG	11 UJ	11 U	12 U	11 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
TOLUENE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
CHLOROBENZENE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
ETHYLBENZENE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
STYRENE	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
TOTAL XYLENES	UG/KG	11 U	11 U	12 U	11 U	12 U	12 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
2-CHLOROPHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
1,3-DICHLOROBENZENE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
1,4-DICHLOROBENZENE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
1,2-DICHLOROBENZENE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
2-METHYLPHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
4-METHYLPHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
HEXACHLOROETHANE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
NITROBENZENE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
ISOPHORONE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
2-NITROPHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
2,4-DIMETHYLPHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
2,4-DICHLOROPHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
1,2,4-TRICHLOROBENZENE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
NAPHTHALENE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
4-CHLORANILINE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U
HEXACHLOROBUTADIENE	UG/KG	370 U	360 U	330 U	350 U	390 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB2-01	6-201N-SB3-01	6-201N-SB4-01	6-201N-SB5-03	6-201N-SB6-01	6-201N-SB7-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/10/92	9/10/92	9/10/92	9/10/92	9/11/92	9/11/92
Lab Id:	00502-05	00502-07	00502-09	00502-11	00502-13	00502-15
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U
2-METHYLNAPHTHALENE	UG/KG	370 U	360 U	330 U	350 U	390 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	370 U	360 U	330 U	350 U	390 U
2,4,6-TRICHLOROPHENOL	UG/KG	370 U	360 U	330 U	350 U	390 U
2,4,5-TRICHLOROPHENOL	UG/KG	900 U	880 U	810 U	850 U	950 U
2-CHLORONAPHTHALENE	UG/KG	370 U	360 U	330 U	350 U	390 U
2-NITROANILINE	UG/KG	900 U	880 U	810 U	850 U	950 U
DIMETHYL PHTHALATE	UG/KG	370 U	360 U	330 U	350 U	390 U
ACENAPHTHYLENE	UG/KG	370 U	360 U	330 U	350 U	390 U
2,6-DINITROTOLUENE	UG/KG	370 U	360 U	330 U	350 U	390 U
3-NITROANILINE	UG/KG	900 U	880 U	810 U	850 U	950 U
ACENAPHTHENE	UG/KG	370 U	360 U	330 U	350 U	390 U
2,4-DINITROPHENOL	UG/KG	900 U	880 U	810 U	850 U	950 U
4-NITROPHENOL	UG/KG	900 U	880 UJ	810 UJ	850 U	950 UJ
DIBENZOFURAN	UG/KG	370 U	360 U	330 U	350 U	390 U
2,4-DINITROTOLUENE	UG/KG	370 U	360 U	330 U	350 U	390 U
DIETHYL PHTHALATE	UG/KG	370 U	360 U	330 U	350 U	390 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	370 U	360 U	330 U	350 U	390 U
FLUORENE	UG/KG	370 UJ	360 U	330 U	350 UJ	390 U
4-NITROANILINE	UG/KG	900 U	880 U	810 U	850 U	950 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	900 U	880 U	810 U	850 U	950 U
N-NITRISODIPHENYLAMINE	UG/KG	370 U	360 U	330 U	350 U	390 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	370 U	360 U	330 U	350 U	390 U
HEXACHLOROBENZENE	UG/KG	370 U	360 U	330 U	350 U	390 U
PENTACHLOROPHENOL	UG/KG	900 U	880 U	810 U	850 U	950 U
PHENANTHRENE	UG/KG	370 U	360 U	330 U	350 U	390 U
ANTHRACENE	UG/KG	370 U	360 U	330 U	350 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG	370 U	360 U	330 U	350 U	390 U
FLUORANTHENE	UG/KG	370 U	360 U	330 U	350 U	390 U
CARBAZOLE	UG/KG	370 U	360 U	330 U	350 U	390 U
PYRENE	UG/KG	370 U	360 U	330 U	350 U	390 U
BUTYL BENZYL PHTHALATE	UG/KG	370 U	360 U	330 U	350 U	390 U
3,3-DICHLOROBENZIDINE	UG/KG	370 U	360 U	330 U	350 U	390 U
BENZO(A)ANTHRACENE	UG/KG	370 U	360 U	330 U	350 U	390 U
CHRYSENE	UG/KG	370 U	360 U	330 U	350 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	370 UJ	360 UJ	330 UJ	89 J	390 UJ
DI-N-OCTYL PHTHALATE	UG/KG	370 UJ	360 UJ	330 UJ	350 UJ	390 UJ
BENZO(B)FLUORANTHENE	UG/KG	370 U	360 U	330 U	350 U	390 U
BENZO(K)FLUORANTHENE	UG/KG	370 U	360 U	330 U	350 U	390 U
BENZO(A)PYRENE	UG/KG	370 U	360 U	330 U	350 U	390 U
INDENO(1,2,3-CD) PYRENE	UG/KG	370 U	360 U	330 U	350 U	390 U
DIBENZ(A,H)ANTHRACENE	UG/KG	370 U	360 U	330 U	350 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG	370 U	360 U	330 U	350 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201N-SB8-01	6-201N-SB9-01	6-201S-SB1-01	6-201S-SB11-01	6-201S-SB12-01	6-201S-SB3-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/11/92	9/11/92	9/15/92	9/13/92	9/13/92	9/15/92	
Lab Id:	00502-17	00502-19	00519-09	00510-26	00511-02	00519-12	
Parameter	Units						
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
BETA-BHC	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
DELTA-BHC	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
GAMMA-BHC(LINDANE)	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
HEPTACHLOR	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
ALDRIN	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
HEPTACHLOR EPOXIDE	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
ENDOSULFAN I	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
DIELDRIN	UG/KG	3.9 U	20 U	4 U	3.5 U	3.9 UR	3.9 UJ
4,4'-DDE	UG/KG	3.9 U	20 U	5.3	3.5 U	3.9 UR	3.9 UJ
ENDRIN	UG/KG	3.9 U	20 U	4 U	3.5 U	3.9 UR	3.9 UJ
ENDOSULFAN II	UG/KG	3.9 U	20 U	4 U	3.5 U	3.9 UR	3.9 UJ
4,4'-DDD	UG/KG	3.9 U	20 U	4 U	3.5 U	3.9 UR	3.9 UJ
ENDOSULFAN SULFATE	UG/KG	3.9 U	20 U	4 U	3.5 U	3.9 UR	3.9 UJ
4,4'-DDT	UG/KG	3.9 U	20 U	4 U	3.5 U	3.9 UR	3.9 UJ
METHOXYCHLOR	UG/KG	20 U	100 U	20 U	18 U	20 UR	20 UJ
ENDRIN KETONE	UG/KG	3.9 U	20 U	4 U	3.5 U	3.9 UR	3.9 UJ
ENDRIN ALDEHYDE	UG/KG	3.9 U	20 U	4 U	3.5 U	3.9 UR	3.9 UJ
ALPHA CHLORDANE	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
GAMMA CHLORDANE	UG/KG	2 U	10 U	2 U	1.8 U	2 UR	2 UJ
TOXAPHENE	UG/KG	200 U	1000 U	200 U	180 U	200 UR	200 UJ
PCB-1016	UG/KG	39 U	200 U	40 U	35 U	39 UR	39 UJ
PCB-1221	UG/KG	78 U	410 U	81 U	72 U	80 UR	80 UJ
PCB-1232	UG/KG	39 U	200 U	40 U	35 U	39 UR	39 UJ
PCB-1242	UG/KG	39 U	200 U	40 U	35 U	39 UR	39 UJ
PCB-1248	UG/KG	39 U	200 U	40 U	35 U	39 UR	39 UJ
PCB-1254	UG/KG	39 U	200 U	40 U	35 U	39 UR	39 UJ
PCB-1260	UG/KG	39 U	200 U	40 U	35 U	39 UR	39 UJ
VOLATILES							
CHLOROMETHANE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
BROMOMETHANE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
VINYL CHLORIDE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
CHLOROETHANE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
METHYLENE CHLORIDE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
ACETONE	UG/KG	12 U	9 J	12 U	11 U	12 UJ	11 U
CARBON DISULFIDE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
1,1-DICHLOROETHENE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
1,1-DICHLOROETHANE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
1,2-DICHLOROETHENE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
CHLOROFORM	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U
1,2-DICHLOROETHANE	UG/KG	12 UJ	14 UJ	12 U	11 U	12 UJ	11 U
2-BUTANONE	UG/KG	12 U	14 U	12 U	11 U	12 UJ	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201N-SB8-01	6-201N-SB9-01	6-201S-SB1-01	6-201S-SB11-01	6-201S-SB12-01	6-201S-SB3-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/11/92	9/11/92	9/15/92	9/13/92	9/13/92	9/13/92	
Lab Id:	00502-17	00502-19	00519-09	00510-26	00511-02	00519-12	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	14 U	12 U	11 UJ	12 U	11 U
CARBON TETRACHLORIDE	UG/KG	12 U	14 U	12 U	11 UJ	12 U	11 U
BROMODICHLOROMETHANE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	14 U	12 U	11 UJ	12 U	11 U
TRICHLOROETHENE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
BENZENE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	14 U	12 U	11 UJ	12 U	11 U
BROMOFORM	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
2-HEXANONE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
TOLUENE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
CHLOROENZENE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
ETHYLBENZENE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
STYRENE	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
TOTAL XYLENES	UG/KG	12 U	14 U	12 U	11 U	12 U	11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
2-CHLOROPHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
1,3-DICHLOROBENZENE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
1,4-DICHLOROBENZENE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
1,2-DICHLOROBENZENE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
2-METHYLPHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
4-METHYLPHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
HEXACHLOROETHANE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
NITROBENZENE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
ISOPHORONE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
2-NITROPHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
2,4-DIMETHYLPHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
2,4-DICHLOROPHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
1,2,4-TRICHLOROBENZENE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
NAPHTHALENE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
4-CHLORANILINE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U
HEXACHLOROBUTADIENE	UG/KG	390 U	2100 U	400 U	360 U	390 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-201N-SB8-01	6-201N-SB9-01	6-201S-SB1-01	6-201S-SB11-01	6-201S-SB12-01	6-201S-SB3-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/11/92	9/15/92	9/13/92	9/13/92	9/15/92
Lab Id:	00502-17	00502-19	00519-09	00510-26	00511-02	00519-12
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U
2-METHYLNAPHTHALENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
2,4,6-TRICHLOROPHENOL	UG/KG	390 U	2100 U	400 U	360 U	390 U
2,4,5-TRICHLOROPHENOL	UG/KG	940 U	5200 U	960 U	860 U	950 U
2-CHLORONAPHTHALENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
2-NITROANILINE	UG/KG	940 U	5200 U	960 U	860 U	950 U
DIMETHYL PHTHALATE	UG/KG	390 U	2100 U	400 U	360 U	390 U
ACENAPHTHYLENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
2,6-DINITROTOLUENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
3-NITROANILINE	UG/KG	940 U	5200 U	960 U	860 U	950 U
ACENAPHTHENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
2,4-DINITROPHENOL	UG/KG	940 U	5200 U	960 U	860 U	950 U
4-NITROPHENOL	UG/KG	940 U	5200 U	960 U	860 U	950 U
DIBENZOFURAN	UG/KG	390 U	2100 U	400 U	360 U	390 U
2,4-DINITROTOLUENE	UG/KG	390 UJ	2100 UJ	400 U	360 UJ	390 U
DIETHYL PHTHALATE	UG/KG	390 U	2100 U	400 U	360 U	390 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	390 UJ	2100 UJ	400 U	360 UJ	390 U
FLUORENE	UG/KG	390 UJ	2100 UJ	400 U	360 UJ	390 U
4-NITROANILINE	UG/KG	940 U	5200 U	960 U	860 U	950 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	940 U	5200 U	960 U	860 U	950 U
N-NITRISODIPHENYLAMINE	UG/KG	390 U	2100 U	400 U	360 U	390 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	390 U	2100 U	400 U	360 U	390 U
HEXACHLOROBENZENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
PENTACHLOROPHENOL	UG/KG	940 U	5200 U	960 U	860 U	950 U
PHENANTHRENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
ANTHRACENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG	390 U	2100 U	400 U	360 U	390 U
FLUORANTHENE	UG/KG	390 UJ	2100 UJ	400 U	360 U	390 U
CARBAZOLE	UG/KG	390 U	2100 U	400 U	360 U	390 U
PYRENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
BUTYL BENZYL PHTHALATE	UG/KG	390 U	2100 U	400 U	360 U	390 U
3,3-DICHLOROBENZIDINE	UG/KG	390 U	2100 U	400 U	360 U	390 U
BENZO(A)ANTHRACENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
CHRYSENE	UG/KG	390 U	2100 U	400 U	360 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	390 U	2100 U	400 U	210 J	390 U
DI-N-OCTYL PHTHALATE	UG/KG	390 UJ	2100 UJ	400 U	360 U	390 U
BENZO(B)FLUORANTHENE	UG/KG	390 UJ	2100 U	400 U	360 U	390 U
BENZO(K)FLUORANTHENE	UG/KG	390 UJ	2100 U	400 UJ	360 U	390 U
BENZO(A)PYRENE	UG/KG	390 UJ	2100 U	400 U	360 U	390 U
INDENO(1,2,3-CD)PYRENE	UG/KG	390 UJ	2100 U	400 U	360 U	390 U
DIBENZ(A,H)ANTHRACENE	UG/KG	390 UJ	2100 U	400 U	360 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG	390 UJ	2100 U	400 U	360 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-201S-SB4-01	6-201S-SB5-01	6-201S-SB6-01	6-201S-SB9-01	6-203OSA-SB10-04	6-203OSA-SB10-06	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/15/92	9/14/92	9/14/92	9/13/92	9/12/92	9/12/92	
Lab Id:	00519-14	00510-17	00510-20	00510-23	00507-38	00507-39	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 UJ	1.9 UJ
BETA-BHC	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 U	1.9 U
DELTA-BHC	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 UJ	1.9 UJ
GAMMA-BHC(LINDANE)	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 UJ	1.9 UJ
HEPTACHLOR	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 U	1.9 U
ALDRIN	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 U	1.9 U
ENDOSULFAN I	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 U	1.9 U
DIELDRIN	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 U	3.6 U
4,4'-DDE	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 U	3.6 U
ENDRIN	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 U	3.6 U
ENDOSULFAN II	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 U	3.6 U
4,4'-DDD	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 U	3.6 U
ENDOSULFAN SULFATE	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 U	3.6 U
4,4'-DDT	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 UJ	3.6 UJ
METHOXYCHLOR	UG/KG	20 U	21 UJ	20 U	20 U	22 U	19 U
ENDRIN KETONE	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 U	3.6 U
ENDRIN ALDEHYDE	UG/KG	3.8 U	4 UJ	3.9 U	3.9 U	4.3 U	3.6 U
ALPHA CHLORDANE	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 U	1.9 U
GAMMA CHLORDANE	UG/KG	2 U	2.1 UJ	2 U	2 U	2.2 U	1.9 U
TOXAPHENE	UG/KG	200 U	210 UJ	200 U	200 U	220 U	190 U
PCB-1016	UG/KG	38 U	40 UJ	39 U	39 U	43 U	36 U
PCB-1221	UG/KG	78 U	82 UJ	80 U	79 U	87 U	73 U
PCB-1232	UG/KG	38 U	40 UJ	39 U	39 U	43 U	36 U
PCB-1242	UG/KG	38 U	40 UJ	39 U	39 U	43 U	36 U
PCB-1248	UG/KG	38 U	40 UJ	39 U	39 U	43 U	36 U
PCB-1254	UG/KG	38 U	40 UJ	39 U	39 U	43 U	36 U
PCB-1260	UG/KG	38 U	40 UJ	39 U	39 U	43 U	36 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
BROMOMETHANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
VINYL CHLORIDE	UG/KG	11 UJ	12 U	10 U	11 U	12 U	11 U
CHLOROETHANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
ACETONE	UG/KG	11 U	12 U	10 U	11 U	25 U	21 U
CARBON DISULFIDE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 UJ	12 UJ	10 UJ	11 U	12 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
CHLOROFORM	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
2-BUTANONE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO--0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-201S-SB4-01	6-201S-SB5-01	6-201S-SB6-01	6-201S-SB9-01	6-203OSA-SB10-04	6-203OSA-SB10-06
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/13/92	9/14/92	9/14/92	9/13/92	9/12/92	9/12/92
	Lab Id:	00519-14	00510-17	00510-20	00510-23	00507-38	00507-39
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	11 U	12 U	10 U	11 UJ	12 U	11 U
CARBON TETRACHLORIDE	UG/KG	11 U	12 U	10 U	11 UJ	12 U	11 U
BROMODICHLOROMETHANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	10 U	11 UJ	12 UJ	11 UJ
TRICHLOROETHENE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
BENZENE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	10 U	11 UJ	12 UJ	11 UJ
BROMOFORM	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
2-HEXANONE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
TOLUENE	UG/KG	11 U	12 U	2 J	11 U	12 U	11 U
CHLOROBENZENE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
ETHYLBENZENE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
STYRENE	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
TOTAL XYLENES	UG/KG	11 U	12 U	10 U	11 U	12 U	11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	380 U	400 U	400 U	390 U	430 U	360 UJ
2-CHLOROPHENOL	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
1,3-DICHLOROBENZENE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
1,4-DICHLOROBENZENE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
1,2-DICHLOROBENZENE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
2-METHYLPHENOL	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	380 U	400 U	400 U	390 U	430 UJ	360 U
4-METHYLPHENOL	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	380 U	400 U	400 U	390 U	430 UJ	360 U
HEXACHLOROETHANE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
NITROBENZENE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
ISOPHORONE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
2-NITROPHENOL	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
2,4-DIMETHYLPHENOL	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
2,4-DICHLOROPHENOL	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
1,2,4-TRICHLOROBENZENE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
NAPHTHALENE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
4-CHLORANILINE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U
HEXACHLOROBUTADIENE	UG/KG	380 U	400 U	400 U	390 U	430 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-2015-SB4-01	6-2015-SB5-01	6-2015-SB6-01	6-2015-SB9-01	6-203OSA-SB10-04	6-203OSA-SB10-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/15/92	9/14/92	9/14/92	9/13/92	9/12/92	9/12/92
Lab Id:	00519-14	00510-17	00510-20	00510-23	00507-38	00507-39
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	380 U	400 U	400 U	390 U	360 U
2-METHYLNAPHTHALENE	UG/KG	380 U	400 U	400 U	390 U	360 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	380 U	400 U	400 U	390 U	360 U
2,4,6-TRICHLOROPHENOL	UG/KG	380 U	400 U	400 U	390 U	360 U
2,4,5-TRICHLOROPHENOL	UG/KG	930 U	980 U	960 U	940 U	870 U
2-CHLORONAPHTHALENE	UG/KG	380 U	400 U	400 U	390 U	360 U
2-NITROANILINE	UG/KG	930 U	980 U	960 U	940 U	870 U
DIMETHYL PHTHALATE	UG/KG	380 U	400 U	400 U	390 U	360 U
ACENAPHTHYLENE	UG/KG	380 U	400 U	400 U	390 U	360 U
2,6-DINITROTOLUENE	UG/KG	380 U	400 U	400 U	390 U	360 U
3-NITROANILINE	UG/KG	930 U	980 U	960 U	940 U	870 U
ACENAPHTHENE	UG/KG	380 U	400 U	400 U	390 U	360 U
2,4-DINITROPHENOL	UG/KG	930 U	980 U	960 U	940 U	870 U
4-NITROPHENOL	UG/KG	930 U	980 U	960 U	940 U	870 U
DIBENZOFURAN	UG/KG	380 U	400 U	400 U	390 U	360 U
2,4-DINITROTOLUENE	UG/KG	380 U	400 U	400 U	390 U	360 U
DIETHYL PHTHALATE	UG/KG	380 U	400 U	400 U	390 U	360 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	380 U	400 U	400 U	390 U	360 U
FLUORENE	UG/KG	380 U	400 U	400 U	390 U	360 U
4-NITROANILINE	UG/KG	930 U	980 U	960 U	940 U	870 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	930 U	980 U	960 U	940 U	870 U
N-NITROSODIPHENYLAMINE	UG/KG	380 U	400 U	400 U	390 U	360 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	380 U	400 U	400 U	390 U	360 U
HEXACHLOROBENZENE	UG/KG	380 U	400 U	400 U	390 U	360 U
PENTACHLOROPHENOL	UG/KG	930 U	980 U	960 U	940 U	870 U
PHENANTHRENE	UG/KG	380 U	400 U	400 U	390 U	360 U
ANTHRACENE	UG/KG	380 U	400 U	400 U	390 U	360 U
DI-N-BUTYL PHTHALATE	UG/KG	380 U	400 U	400 U	390 U	360 U
FLUORANTHENE	UG/KG	380 U	400 U	400 U	390 U	360 U
CARBAZOLE	UG/KG	380 U	400 U	400 U	390 U	360 U
PYRENE	UG/KG	380 U	400 U	400 U	390 U	360 U
BUTYL BENZYL PHTHALATE	UG/KG	380 U	400 U	400 U	390 U	360 U
3,3-DICHLOROBENZIDINE	UG/KG	380 U	400 U	400 U	390 U	360 U
BENZO(A)ANTHRACENE	UG/KG	380 U	400 U	400 U	390 U	360 U
CHRYSENE	UG/KG	380 U	400 U	400 U	390 U	360 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	44 J	400 U	400 U	69 J	360 U
DI-N-OCTYL PHTHALATE	UG/KG	380 UJ	400 U	400 U	390 U	360 U
BENZO(B)FLUORANTHENE	UG/KG	380 UJ	400 U	400 U	390 U	360 U
BENZO(K)FLUORANTHENE	UG/KG	380 UJ	400 UJ	400 U	390 U	360 U
BENZO(A)PYRENE	UG/KG	380 UJ	400 U	400 U	390 U	360 U
INDENO(1,2,3-CD) PYRENE	UG/KG	380 UJ	400 U	400 U	390 U	360 U
DIBENZ(A,H)ANTHRACENE	UG/KG	380 UJ	400 U	400 U	390 U	360 U
BENZO(G,H,I)PERYLENE	UG/KG	380 UJ	400 U	400 U	390 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB11-02	6-203OSA-SB12-01	6-203OSA-SB12-08	6-203OSA-SB13-05	6-203OSA-SB13-12	6-203OSA-SB14-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92
Lab Id:	00507-41	00496-19	00496-20	00511-17	00511-18	00511-20
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
BETA-BHC	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
DELTA-BHC	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
HEPTACHLOR	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
ALDRIN	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
ENDOSULFAN I	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
DIELDRIN	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
4,4'-DDE	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
ENDRIN	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
ENDOSULFAN II	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
4,4'-DDD	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
ENDOSULFAN SULFATE	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
4,4'-DDT	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
METHOXYCHLOR	UG/KG	17 U	78 UJ	20 U	19 UJ	20 UJ
ENDRIN KETONE	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
ENDRIN ALDEHYDE	UG/KG	3.4 U	15 UJ	3.9 U	3.6 UJ	3.8 UJ
ALPHA CHLORDANE	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
GAMMA CHLORDANE	UG/KG	1.7 U	7.8 UJ	2 U	1.9 UJ	2 UJ
TOXAPHENE	UG/KG	170 U	780 UJ	200 U	190 UJ	200 UJ
PCB-1016	UG/KG	34 U	150 UJ	39 U	36 UJ	39 UJ
PCB-1221	UG/KG	69 U	310 UJ	79 U	73 UJ	78 UJ
PCB-1232	UG/KG	34 U	150 UJ	39 U	36 UJ	39 UJ
PCB-1242	UG/KG	34 U	150 UJ	39 U	36 UJ	39 UJ
PCB-1248	UG/KG	34 U	150 UJ	39 U	36 UJ	39 UJ
PCB-1254	UG/KG	34 U	150 UJ	39 U	36 UJ	39 UJ
PCB-1260	UG/KG	34 U	150 UJ	39 U	36 UJ	39 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U	2000 U	12 U	11 UJ	12 U
BROMOMETHANE	UG/KG	11 U	750 J	12 U	11 U	12 U
VINYL CHLORIDE	UG/KG	11 U	2000 U	12 U	11 U	12 U
CHLOROETHANE	UG/KG	11 U	2000 U	12 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	2000 U	12 U	11 U	12 U
ACETONE	UG/KG	33 U	4800	12 U	11 U	12 UJ
CARBON DISULFIDE	UG/KG	11 U	2000 U	12 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	2000 U	12 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	2000 U	12 U	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	2000 U	12 U	11 U	12 U
CHLOROFORM	UG/KG	11 U	2000 U	12 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	2000 U	12 U	11 U	12 U
2-BUTANONE	UG/KG	11 U	2000 U	12 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB11-02	6-203OSA-SB12-01	6-203OSA-SB12-08	6-203OSA-SB13-05	6-203OSA-SB13-12	6-203OSA-SB14-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92
Lab Id:	00507-41	00496-19	00496-20	00511-17	00511-18	00511-20
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	2000 U	12 UJ	11 U	12 U
CARBON TETRACHLORIDE	UG/KG	11 U	2000 U	12 UJ	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	11 U	2000 U	12 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	11 U	2000 U	12 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	2000 U	12 UJ	11 U	12 U
TRICHLOROETHENE	UG/KG	11 U	2000 U	12 U	11 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	2000 U	12 U	11 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	2000 U	12 U	11 U	12 U
BENZENE	UG/KG	11 U	2000 U	12 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	2000 U	12 UJ	11 U	12 U
BROMOFORM	UG/KG	11 U	2000 U	12 U	11 U	12 U
4-METHYL-2-PENTANONE	UG/KG	11 U	2000 U	12 U	11 U	12 U
2-HEXANONE	UG/KG	11 U	2000 U	12 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	11 U	11000	9 J	11 U	12 UJ
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	2000 U	12 U	11 U	12 U
TOLUENE	UG/KG	11 U	2000 U	12 U	11 U	12 U
CHLOROENZENE	UG/KG	11 U	2000 U	12 U	11 U	12 U
ETHYLBENZENE	UG/KG	11 U	2000 U	12 U	11 U	12 U
STYRENE	UG/KG	11 U	2000 U	12 U	11 U	12 U
TOTAL XYLENES	UG/KG	11 U	2000 U	12 U	11 U	12 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	340 U	1500 U	400 U	360 U	380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	340 U	1500 U	400 U	360 U	380 U
2-CHLOROPHENOL	UG/KG	340 U	1500 U	400 U	360 U	380 U
1,3-DICHLOROENZENE	UG/KG	340 U	1500 U	400 U	360 U	380 U
1,4-DICHLOROENZENE	UG/KG	340 U	300 J	400 U	360 U	380 U
1,2-DICHLOROENZENE	UG/KG	340 U	1500 U	400 U	360 U	380 U
2-METHYLPHENOL	UG/KG	340 U	1500 U	400 U	360 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	340 U	1500 U	400 U	360 U	380 U
4-METHYLPHENOL	UG/KG	340 U	1500 U	400 U	360 U	380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	340 U	1500 UJ	400 UJ	360 U	380 U
HEXACHLOROETHANE	UG/KG	340 U	1500 U	400 U	360 U	380 U
NITROENZENE	UG/KG	340 U	1500 UJ	400 UJ	360 U	380 U
ISOPHORONE	UG/KG	340 U	1500 UJ	400 U	360 U	380 U
2-NITROPHENOL	UG/KG	340 U	1500 U	400 U	360 U	380 U
2,4-DIMETHYLPHENOL	UG/KG	340 U	1500 U	400 U	360 U	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340 U	1500 U	400 U	360 U	380 U
2,4-DICHLOROPHENOL	UG/KG	340 U	1500 U	400 U	360 U	380 U
1,2,4-TRICHLOROENZENE	UG/KG	340 U	1500 U	400 U	360 U	380 U
NAPHTHALENE	UG/KG	340 U	1500 U	400 U	360 U	380 U
4-CHLORANILINE	UG/KG	340 U	1500 U	400 U	360 U	380 U
HEXACHLOROBUTADIENE	UG/KG	340 U	1500 U	400 U	360 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB11-02	6-203OSA-SB12-01	6-203OSA-SB12-08	6-203OSA-SB13-05	6-203OSA-SB13-12	6-203OSA-SB14-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92
Lab Id:	00507-41	00496-19	00496-20	00511-17	00511-18	00511-20
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	340 U	1500 U	400 U	360 U	390 U
2-METHYLNAPHTHALENE	UG/KG	340 U	1500 U	400 U	360 U	390 UJ
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
2,4,6-TRICHLOROPHENOL	UG/KG	340 U	1500 U	400 U	360 U	390 U
2,4,5-TRICHLOROPHENOL	UG/KG	820 UJ	3700 U	960 U	880 U	940 U
2-CHLORONAPHTHALENE	UG/KG	340 UJ	1500 U	400 U	360 U	390 U
2-NITROANILINE	UG/KG	820 U	3700 U	960 U	880 U	940 U
DIMETHYL PHTHALATE	UG/KG	340 U	1500 U	400 U	360 U	390 U
ACENAPHTHYLENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
2,6-DINITROTOLUENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
3-NITROANILINE	UG/KG	820 U	3700 U	960 U	880 U	940 U
ACENAPHTHENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
2,4-DINITROPHENOL	UG/KG	820 U	3700 U	960 U	880 U	940 U
4-NITROPHENOL	UG/KG	820 U	3700 U	960 U	880 UJ	940 UJ
DIBENZOFURAN	UG/KG	340 U	1500 U	400 U	360 U	390 U
2,4-DINITROTOLUENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
DIETHYL PHTHALATE	UG/KG	340 U	1500 U	400 U	360 U	390 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U	1500 U	400 U	360 U	390 U
FLUORENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
4-NITROANILINE	UG/KG	820 U	3700 U	960 U	880 U	940 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	820 U	3700 U	960 U	880 U	940 U
N-NITROSODIPHENYLAMINE	UG/KG	340 U	1500 U	400 U	360 U	390 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	340 U	1500 U	400 U	360 U	390 U
HEXACHLOROBENZENE	UG/KG	340 U	1500 U	400 U	360 U	390 UJ
PENTACHLOROPHENOL	UG/KG	820 UJ	3700 U	960 U	880 U	940 U
PHENANTHRENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
ANTHRACENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG	340 U	1500 U	400 U	360 U	390 U
FLUORANTHENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
CARBAZOLE	UG/KG	340 U	1500 U	400 U	360 U	390 U
PYRENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
BUTYL BENZYL PHTHALATE	UG/KG	340 U	1500 U	400 U	360 U	390 U
3,3-DICHLOROBENZIDINE	UG/KG	340 U	1500 U	400 U	360 U	390 U
BENZO(A)ANTHRACENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
CHRYSENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	340 U	510 J	160 J	62 J	74 J
DI-N-OCTYL PHTHALATE	UG/KG	340 U	1500 U	400 U	360 U	390 U
BENZO(B)FLUORANTHENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
BENZO(K)FLUORANTHENE	UG/KG	340 UJ	1500 U	400 U	360 U	390 U
BENZO(A)PYRENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
INDENO(1,2,3-CD) PYRENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
DIBENZ(A,H)ANTHRACENE	UG/KG	340 U	1500 U	400 U	360 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG	340 U	1500 U	400 U	360 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB15-02	6-203OSA-SB15-06	6-203OSA-SB16-03	6-203OSA-SB16-07	6-203OSA-SB17-04	6-203OSA-SB17-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/11/92	9/11/92	9/11/92	9/9/92	9/9/92
Lab Id:	00507-43	00507-44	00507-46	00507-47	00496-06	00496-07
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 U	1.8 UJ
BETA-BHC	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 UJ	1.8 UJ
DELTA-BHC	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 U	1.8 UJ
HEPTACHLOR	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 UJ	1.8 UJ
ALDRIN	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 UJ	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 UJ	1.8 UJ
ENDOSULFAN I	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 UJ	1.8 UJ
DIELDRIN	UG/KG	3.7 UJ	3.4 U	3.7 UJ	3.6 UJ	3.4 UJ
4,4'-DDE	UG/KG	8.3 J	3.4 U	3.7 UJ	3.6 UJ	3.4 UJ
ENDRIN	UG/KG	3.7 UJ	3.4 U	3.7 UJ	3.6 UJ	3.4 UJ
ENDOSULFAN II	UG/KG	3.7 UJ	3.4 U	3.7 UJ	3.6 UJ	3.4 UJ
4,4'-DDD	UG/KG	3.7 UJ	3.4 U	3.7 UJ	3.6 UJ	3.4 UJ
ENDOSULFAN SULFATE	UG/KG	3.7 UJ	3.4 U	3.7 UJ	3.6 UJ	3.4 UJ
4,4'-DDT	UG/KG	9.9 J	3.4 U	4 J	3.6 UJ	3.4 UJ
METHOXYCHLOR	UG/KG	19 UJ	18 U	19 UJ	18 UJ	18 UJ
ENDRIN KETONE	UG/KG	3.7 UJ	3.4 U	3.7 UJ	3.6 UJ	3.4 UJ
ENDRIN ALDEHYDE	UG/KG	3.7 UJ	3.4 U	3.7 UJ	3.6 UJ	3.4 UJ
ALPHA CHLORDANE	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 UJ	1.8 UJ
GAMMA CHLORDANE	UG/KG	1.9 UJ	1.8 U	1.9 UJ	1.8 UJ	1.8 UJ
TOXAPHENE	UG/KG	190 UJ	180 U	190 UJ	180 UJ	180 UJ
PCB-1016	UG/KG	37 UJ	34 U	37 UJ	36 UJ	34 UJ
PCB-1221	UG/KG	75 UJ	70 U	75 UJ	73 UJ	70 UJ
PCB-1232	UG/KG	37 UJ	34 U	37 UJ	36 UJ	34 UJ
PCB-1242	UG/KG	37 UJ	34 U	37 UJ	36 UJ	34 UJ
PCB-1248	UG/KG	37 UJ	34 U	37 UJ	36 UJ	34 UJ
PCB-1254	UG/KG	37 UJ	34 U	37 UJ	36 UJ	34 UJ
PCB-1260	UG/KG	37 UJ	34 U	37 UJ	36 UJ	34 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	27 U	11 U	11 U	11 U	11 U
BROMOMETHANE	UG/KG	27 U	11 U	11 U	11 U	11 U
VINYL CHLORIDE	UG/KG	27 U	11 U	11 U	11 U	11 U
CHLOROETHANE	UG/KG	27 U	11 U	11 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	27 U	11 U	11 U	11 U	11 U
ACETONE	UG/KG	510 J	11 U	11 U	11 U	11 U
CARBON DISULFIDE	UG/KG	27 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	27 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	27 UJ	11 U	11 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	27 U	11 U	11 U	11 U	11 U
CHLOROFORM	UG/KG	27 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	27 U	11 U	11 U	11 UJ	11 UJ
2-BUTANONE	UG/KG	27 U	11 U	11 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB15-02	6-203OSA-SB15-06	6-203OSA-SB16-03	6-203OSA-SB16-07	6-203OSA-SB17-04	6-203OSA-SB17-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/11/92	9/11/92	9/11/92	9/9/92	9/9/92
Lab Id:	00507-43	00507-44	00507-46	00507-47	00496-06	00496-07
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	27 U	11 U	11 U	11 U	11 U
CARBON TETRACHLORIDE	UG/KG	27 U	11 U	11 U	11 U	11 U
BROMODICHLOROMETHANE	UG/KG	27 U	11 U	11 U	11 U	11 U
1,2-DICHLOROPROPANE	UG/KG	27 U	11 U	11 U	11 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	27 U	11 U	11 UJ	11 U	11 U
TRICHLOROETHENE	UG/KG	27 U	11 U	11 U	11 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	27 U	11 U	11 U	11 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	27 U	11 U	11 U	11 U	11 U
BENZENE	UG/KG	27 U	11 U	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	27 U	11 U	11 UJ	11 U	11 U
BROMOFORM	UG/KG	27 U	11 U	11 U	11 U	11 U
4-METHYL-2-PENTANONE	UG/KG	27 U	11 U	11 U	11 U	11 U
2-HEXANONE	UG/KG	27 U	11 U	11 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	27 U	11 UJ	11 U	11 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	27 U	11 U	11 U	11 U	11 U
TOLUENE	UG/KG	27 U	11 U	11 U	11 U	11 U
CHLOROENZENE	UG/KG	27 U	11 U	11 U	11 U	11 U
ETHYLBENZENE	UG/KG	27 U	11 U	11 U	11 U	11 U
STYRENE	UG/KG	27 U	11 U	11 U	11 U	11 U
TOTAL XYLENES	UG/KG	27 U	11 U	11 U	11 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	370 UJ	340 U	370 U	360 U	340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	370 U	340 UJ	370 U	360 UJ	340 U
2-CHLOROPHENOL	UG/KG	370 U	340 U	370 U	360 U	340 U
1,3-DICHLOROBENZENE	UG/KG	370 U	340 U	370 U	360 U	340 U
1,4-DICHLOROBENZENE	UG/KG	370 U	340 U	370 U	360 U	340 U
1,2-DICHLOROBENZENE	UG/KG	370 U	340 U	370 U	360 U	340 U
2-METHYLPHENOL	UG/KG	370 U	340 U	370 U	360 U	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	370 U	340 U	370 U	360 U	340 U
4-METHYLPHENOL	UG/KG	370 UJ	340 U	370 U	360 U	340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	370 U	340 U	370 U	360 U	340 U
HEXACHLOROETHANE	UG/KG	370 U	340 U	370 U	360 U	340 U
NITROBENZENE	UG/KG	370 U	340 U	370 U	360 U	340 U
ISOPHORONE	UG/KG	370 UJ	340 U	370 U	360 U	340 U
2-NITROPHENOL	UG/KG	370 U	340 U	370 U	360 U	340 U
2,4-DIMETHYLPHENOL	UG/KG	370 U	340 U	370 U	360 U	340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	370 U	340 U	370 U	360 U	340 U
2,4-DICHLOROPHENOL	UG/KG	370 U	340 U	370 U	360 U	340 U
1,2,4-TRICHLOROBENZENE	UG/KG	370 U	340 U	370 U	360 U	340 U
NAPHTHALENE	UG/KG	370 U	340 U	370 U	360 U	340 U
4-CHLORANILINE	UG/KG	370 U	340 U	370 U	360 U	340 U
HEXACHLOROBUTADIENE	UG/KG	370 U	340 U	370 U	360 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB15-02	6-203OSA-SB15-06	6-203OSA-SB16-03	6-203OSA-SB16-07	6-203OSA-SB17-04	6-203OSA-SB17-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/11/92	9/11/92	9/11/92	9/9/92	9/9/92
Lab Id:	00507-43	00507-44	00507-46	00507-47	00496-06	00496-07
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	370 U	340 U	370 U	360 U	340 U
2-METHYLNAPHTHALENE	UG/KG	370 U	340 U	370 U	360 U	340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	370 U	340 U	370 U	360 U	340 U
2,4,6-TRICHLOROPHENOL	UG/KG	370 U	340 U	370 U	360 U	340 U
2,4,5-TRICHLOROPHENOL	UG/KG	910 U	830 U	890 U	870 U	830 U
2-CHLORONAPHTHALENE	UG/KG	340 U	340 U	370 U	360 U	340 U
2-NITROANILINE	UG/KG	910 U	830 U	890 U	870 U	830 U
DIMETHYL PHTHALATE	UG/KG	370 U	340 U	370 U	360 U	340 U
ACENAPHTHYLENE	UG/KG	370 U	340 U	370 U	360 U	340 U
2,6-DINITROTOLUENE	UG/KG	370 U	340 U	370 U	360 U	340 U
3-NITROANILINE	UG/KG	910 U	830 U	890 U	870 U	830 U
ACENAPHTHENE	UG/KG	370 U	340 U	370 U	360 U	340 U
2,4-DINITROPHENOL	UG/KG	910 U	830 U	890 U	870 U	830 U
4-NITROPHENOL	UG/KG	910 U	830 U	890 U	870 U	830 U
DIBENZOFURAN	UG/KG	370 U	340 U	370 U	360 U	340 U
2,4-DINITROTOLUENE	UG/KG	370 U	340 U	370 U	360 U	340 U
DIETHYL PHTHALATE	UG/KG	370 U	340 U	370 U	360 U	340 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	370 U	340 U	370 U	360 U	340 U
FLUORENE	UG/KG	370 U	340 U	370 U	360 U	340 U
4-NITROANILINE	UG/KG	910 U	830 U	890 U	870 U	830 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	910 U	830 U	890 U	870 U	830 U
N-NITROSODIPHENYLAMINE	UG/KG	370 U	340 U	370 U	360 U	340 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	370 U	340 U	370 U	360 U	340 U
HEXACHLOROBENZENE	UG/KG	370 U	340 U	370 U	360 U	340 U
PENTACHLOROPHENOL	UG/KG	910 U	830 U	890 U	870 U	830 U
PHENANTHRENE	UG/KG	370 U	340 U	370 U	360 U	340 U
ANTHRACENE	UG/KG	370 U	340 U	370 U	360 U	340 U
DI-N-BUTYL PHTHALATE	UG/KG	370 U	340 U	370 U	360 U	340 U
FLUORANTHENE	UG/KG	370 U	340 U	370 U	360 U	340 U
CARBAZOLE	UG/KG	370 U	340 U	370 U	360 U	340 U
PYRENE	UG/KG	370 U	340 U	370 U	360 U	340 U
BUTYL BENZYL PHTHALATE	UG/KG	370 U	340 U	370 U	360 U	340 U
3,3-DICHLOROBENZIDINE	UG/KG	370 U	340 U	370 U	360 U	340 U
BENZO(A)ANTHRACENE	UG/KG	370 U	340 U	370 U	360 U	340 U
CHRYSENE	UG/KG	370 U	340 U	370 U	360 U	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	370 U	340 U	370 U	360 U	93 J
DI-N-OCTYL PHTHALATE	UG/KG	370 U	340 U	370 U	360 U	140 J
BENZO(B)FLUORANTHENE	UG/KG	370 U	340 U	370 U	360 U	340 U
BENZO(K)FLUORANTHENE	UG/KG	370 U	340 U	370 U	360 U	340 U
BENZO(A)PYRENE	UG/KG	370 U	340 U	370 U	360 U	340 U
INDENO(1,2,3-CD) PYRENE	UG/KG	370 U	340 U	370 U	360 U	340 U
DIBENZ(A,H)ANTHRACENE	UG/KG	370 U	340 U	370 U	360 U	340 U
BENZO(G,H,I)PERYLENE	UG/KG	370 U	340 U	370 U	360 U	340 U

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB18-03	6-203OSA-SB18-06	6-203OSA-SB19-01	6-203OSA-SB2-01	6-203OSA-SB20-02	6-203OSA-SB3-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92	9/12/92
Lab Id:	00496-09	00496-10	00511-22	00511-06	00511-25	00507-30
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 UJ
BETA-BHC	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 U
DELTA-BHC	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 UJ
HEPTACHLOR	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 U
ALDRIN	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 U
HEPTACHLOR EPOXIDE	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 U
ENDOSULFAN I	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 U
DIELDRIN	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 U
4,4'-DDE	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 U
ENDRIN	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 U
ENDOSULFAN II	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 U
4,4'-DDD	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 U
ENDOSULFAN SULFATE	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 U
4,4'-DDT	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 UJ
METHOXYCHLOR	UG/KG	19 U	21 U	19 UJ	20 UJ	18 U
ENDRIN KETONE	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 U
ENDRIN ALDEHYDE	UG/KG	3.7 U	4 U	3.7 UJ	3.8 UJ	3.4 U
ALPHA CHLORDANE	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 U
GAMMA CHLORDANE	UG/KG	1.9 U	2.1 U	1.9 UJ	2 UJ	1.8 U
TOXAPHENE	UG/KG	190 U	210 U	190 UJ	200 UJ	180 U
PCB-1016	UG/KG	37 U	40 U	37 UJ	38 UJ	34 U
PCB-1221	UG/KG	74 U	82 U	74 UJ	77 UJ	69 U
PCB-1232	UG/KG	37 U	40 U	37 UJ	38 UJ	34 U
PCB-1242	UG/KG	37 U	40 U	37 UJ	38 UJ	34 U
PCB-1248	UG/KG	37 U	40 U	37 UJ	38 UJ	34 U
PCB-1254	UG/KG	37 U	40 U	37 UJ	38 UJ	34 U
PCB-1260	UG/KG	37 U	40 U	37 UJ	38 UJ	34 U
VOLATILES						
CHLOROMETHANE	UG/KG	11 U	12 U	490 J	11 U	12 U
BROMOMETHANE	UG/KG	11 U	12 U	1300	11 U	12 U
VINYL CHLORIDE	UG/KG	11 U	12 U	710 U	11 U	12 U
CHLOROETHANE	UG/KG	11 U	12 U	710 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	12 U	340 J	11 U	12 U
ACETONE	UG/KG	11 UJ	18 UJ	5000 J	21 U	59
CARBON DISULFIDE	UG/KG	11 U	12 U	710 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	12 U	710 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	12 U	710 U	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	12 U	710 U	11 U	12 U
CHLOROFORM	UG/KG	11 U	12 U	710 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	12 U	710 UJ	11 U	12 U
2-BUTANONE	UG/KG	11 U	12 U	1500 J	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB18-03	6-203OSA-SB18-06	6-203OSA-SB19-01	6-203OSA-SB2-01	6-203OSA-SB20-02	6-203OSA-SB3-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92	9/12/92
Lab Id:	00496-09	00496-10	00511-22	00511-06	00511-25	00507-30
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	12 U	710 U	11 U	12 U
CARBON TETRACHLORIDE	UG/KG	11 U	12 U	710 U	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	11 U	12 U	710 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	11 U	12 U	710 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	710 U	11 U	12 U
TRICHLOROETHENE	UG/KG	11 U	12 U	710 U	11 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	12 U	710 U	11 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	12 U	710 U	11 U	12 U
BENZENE	UG/KG	11 U	12 U	710 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	710 U	11 U	12 U
BROMOFORM	UG/KG	11 U	12 U	710 U	11 U	12 U
4-METHYL-2-PENTANONE	UG/KG	11 U	12 U	710 U	11 U	12 U
2-HEXANONE	UG/KG	11 U	12 U	710 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	11 U	12 U	710 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	12 U	710 U	11 U	12 U
TOLUENE	UG/KG	11 U	12 U	34 J	11 U	12 U
CHLOROENZENE	UG/KG	11 U	12 U	710 U	11 U	12 U
ETHYLBENZENE	UG/KG	11 U	12 U	710 U	11 U	12 U
STYRENE	UG/KG	11 U	12 U	710 U	11 U	12 U
TOTAL XYLENES	UG/KG	11 U	12 U	710 U	11 U	12 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	370 U	400 U	370 U	380 U	340 U
2-CHLOROPHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
1,3-DICHLOROBENZENE	UG/KG	370 U	400 U	370 U	380 U	340 U
1,4-DICHLOROBENZENE	UG/KG	370 U	400 U	370 U	380 U	340 U
1,2-DICHLOROBENZENE	UG/KG	370 U	400 U	370 U	380 U	340 U
2-METHYLPHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	370 U	400 U	370 U	380 U	340 U
4-METHYLPHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	370 U	400 U	370 U	380 U	340 U
HEXACHLOROETHANE	UG/KG	370 U	400 U	370 U	380 U	340 U
NITROBENZENE	UG/KG	370 U	400 U	370 U	380 U	340 U
ISOPHORONE	UG/KG	370 U	400 U	370 U	380 U	340 U
2-NITROPHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
2,4-DIMETHYLPHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	370 U	400 U	370 U	380 U	340 U
2,4-DICHLOROPHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
1,2,4-TRICHLOROBENZENE	UG/KG	370 U	400 U	370 U	380 U	340 U
NAPHTHALENE	UG/KG	370 U	400 U	370 U	380 U	340 U
4-CHLORANILINE	UG/KG	370 U	400 U	370 U	380 U	340 U
HEXACHLOROBUTADIENE	UG/KG	370 U	400 U	370 U	380 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB18-03	6-203OSA-SB18-06	6-203OSA-SB19-01	6-203OSA-SB2-01	6-203OSA-SB20-02	6-203OSA-SB3-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92	9/12/92
Lab Id:	00496-09	00496-10	00511-22	00511-06	00511-25	00507-30
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
2-METHYLNAPHTHALENE	UG/KG	370 U	400 U	370 U	380 U	340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	370 U	400 U	370 U	380 U	340 U
2,4,6-TRICHLOROPHENOL	UG/KG	370 U	400 U	370 U	380 U	340 U
2,4,5-TRICHLOROPHENOL	UG/KG	890 U	970 U	890 U	920 U	820 U
2-CHLORONAPHTHALENE	UG/KG	370 U	400 U	370 U	380 U	340 U
2-NITROANILINE	UG/KG	890 U	970 U	890 U	920 U	820 U
DIMETHYL PHTHALATE	UG/KG	370 U	400 U	370 U	380 U	340 U
ACENAPHTHYLENE	UG/KG	370 U	400 U	370 U	380 U	340 U
2,6-DINITROTOLUENE	UG/KG	370 U	400 U	370 U	380 U	340 U
3-NITROANILINE	UG/KG	890 U	970 U	890 U	920 U	820 U
ACENAPHTHENE	UG/KG	370 U	400 U	370 U	380 U	340 U
2,4-DINITROPHENOL	UG/KG	890 U	970 U	890 U	920 U	820 U
4-NITROPHENOL	UG/KG	890 U	970 U	890 U	920 U	820 U
DIBENZOFURAN	UG/KG	370 U	400 U	370 U	380 U	340 U
2,4-DINITROTOLUENE	UG/KG	370 U	400 U	370 U	380 U	340 U
DIETHYL PHTHALATE	UG/KG	370 U	400 U	370 U	380 U	340 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	370 U	400 U	370 U	380 U	340 U
FLUORENE	UG/KG	370 U	400 U	370 U	380 U	340 U
4-NITROANILINE	UG/KG	890 U	970 U	890 U	920 U	820 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	890 U	970 U	890 U	920 U	820 U
N-NITROSODIPHENYLAMINE	UG/KG	370 U	400 U	370 U	380 U	340 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	370 U	400 U	370 U	380 U	340 U
HEXACHLOROBENZENE	UG/KG	370 U	400 U	370 U	380 U	340 U
PENTACHLOROPHENOL	UG/KG	890 U	970 U	890 U	920 U	820 U
PHENANTHRENE	UG/KG	370 U	400 U	370 U	380 U	340 U
ANTHRACENE	UG/KG	370 U	400 U	370 U	380 U	340 U
DI-N-BUTYL PHTHALATE	UG/KG	370 U	400 U	370 U	380 U	340 U
FLUORANTHENE	UG/KG	370 U	400 U	370 U	380 U	340 U
CARBAZOLE	UG/KG	370 U	400 U	370 U	380 U	340 U
PYRENE	UG/KG	370 U	400 U	370 U	380 U	340 U
BUTYL BENZYL PHTHALATE	UG/KG	370 U	400 U	370 U	380 U	340 U
3,3-DICHLOROBENZIDINE	UG/KG	370 U	400 U	370 U	380 U	340 U
BENZO(A)ANTHRACENE	UG/KG	370 U	400 U	370 U	380 U	340 U
CHRYSENE	UG/KG	370 U	400 U	370 U	380 U	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	51 J	400 U	370 U	380 U	340 U
DI-N-OCTYL PHTHALATE	UG/KG	370 U	400 U	370 U	380 U	340 U
BENZO(B)FLUORANTHENE	UG/KG	370 U	400 U	370 U	380 U	340 U
BENZO(K)FLUORANTHENE	UG/KG	370 U	400 U	370 U	380 U	340 U
BENZO(A)PYRENE	UG/KG	370 U	400 U	370 U	380 U	340 U
INDENO(1,2,3-CD) PYRENE	UG/KG	370 U	400 U	370 U	380 U	340 U
DIBENZ(A,H)ANTHRACENE	UG/KG	370 U	400 U	370 U	380 U	340 U
BENZO(G,H,I)PERYLENE	UG/KG	370 U	400 U	370 U	380 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB3-06	6-203OSA-SB4-05	6-203OSA-SB4-07	6-203OSA-SB5-02	6-203OSA-SB7-01	6-203OSA-SB8-04	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/12/92	9/12/92	9/12/92	9/11/92	9/14/92	9/13/92	
Lab Id:	00507-31	00507-33	00507-34	00507-36	00511-08	00511-10	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 UJ	1.9 UJ	1.8 UJ	1.9 UJ	1.7 UJ	1.9 UJ
BETA-BHC	UG/KG	1.8 U	1.9 U	1.8 U	1.9 U	1.7 UJ	1.9 UJ
DELTA-BHC	UG/KG	1.8 UJ	1.9 UJ	1.8 UJ	1.9 UJ	1.7 UJ	1.9 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	1.9 UJ	1.8 UJ	1.9 UJ	1.7 UJ	1.9 UJ
HEPTACHLOR	UG/KG	1.8 U	1.9 U	1.8 U	1.9 U	1.7 UJ	1.9 UJ
ALDRIN	UG/KG	1.8 U	1.9 U	1.8 U	1.9 U	1.7 UJ	1.9 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.9 U	1.8 U	1.9 U	1.7 UJ	1.9 UJ
ENDOSULFAN I	UG/KG	1.8 U	1.9 U	1.8 U	1.9 U	1.7 UJ	1.9 UJ
DIELDRIN	UG/KG	3.5 U	3.6 U	3.5 U	3.7 U	3.4 J	3.6 UJ
4,4'-DDE	UG/KG	3.5 U	3.6 U	3.5 U	3.7 U	5.5 J	3.6 UJ
ENDRIN	UG/KG	3.5 U	3.6 U	3.5 U	3.7 U	3.4 UJ	3.6 UJ
ENDOSULFAN II	UG/KG	3.5 U	3.6 U	3.5 U	3.7 U	3.4 UJ	3.6 UJ
4,4'-DDD	UG/KG	3.5 U	3.6 U	3.5 U	3.7 U	3.4 UJ	3.6 UJ
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.6 U	3.5 U	3.7 U	3.4 UJ	3.6 UJ
4,4'-DDT	UG/KG	3.5 UJ	3.6 UJ	3.5 UJ	3.7 UJ	9.1 J	3.6 UJ
METHOXYCHLOR	UG/KG	18 U	19 U	18 U	19 U	17 UJ	19 UJ
ENDRIN KETONE	UG/KG	3.5 U	3.6 U	3.5 U	3.7 U	3.4 UJ	3.6 UJ
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.6 U	3.5 U	3.7 U	3.4 UJ	3.6 UJ
ALPHA CHLORDANE	UG/KG	1.8 U	1.9 U	1.8 U	1.9 U	1.7 UJ	1.9 UJ
GAMMA CHLORDANE	UG/KG	1.8 U	1.9 U	1.8 U	1.9 U	1.7 UJ	1.9 UJ
TOXAPHENE	UG/KG	180 U	190 U	180 U	190 U	170 UJ	190 UJ
PCB-1016	UG/KG	35 U	36 U	35 U	37 U	34 UJ	36 UJ
PCB-1221	UG/KG	72 U	74 U	70 U	74 U	68 UJ	73 UJ
PCB-1232	UG/KG	35 U	36 U	35 U	37 U	34 UJ	36 UJ
PCB-1242	UG/KG	35 U	36 U	35 U	37 U	34 UJ	36 UJ
PCB-1248	UG/KG	35 U	36 U	35 U	37 U	34 UJ	36 UJ
PCB-1254	UG/KG	35 U	36 U	35 U	37 U	34 UJ	36 UJ
PCB-1260	UG/KG	35 U	36 U	35 U	37 U	34 UJ	36 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
BROMOMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
VINYL CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
CHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
ACETONE	UG/KG	11 U	11 U	17 U	11 U	12 U	11 U
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
CHLOROFORM	UG/KG	11 UJ	11 UJ	11 UJ	11 U	12 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 UJ	11 UJ	11 UJ	11 U	12 U	11 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB3-06	6-203OSA-SB4-05	6-203OSA-SB4-07	6-203OSA-SB5-02	6-203OSA-SB7-01	6-203OSA-SB8-04	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/12/92	9/12/92	9/12/92	9/11/92	9/14/92	9/13/92	
Lab Id:	00507-31	00507-33	00507-34	00507-36	00511-08	00511-10	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 UJ	11 UJ
CARBON TETRACHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 UJ	11 UJ
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	11 UJ	12 U	11 U
TRICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
BENZENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	11 UJ	12 U	11 U
BROMOFORM	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
2-HEXANONE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
TOLUENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
CHLOROBENZENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
STYRENE	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	11 U	12 U	11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U	360 UJ	340 UJ	360 UJ	340 U	360 U
2-CHLOROPHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
1,3-DICHLOROBENZENE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
1,4-DICHLOROBENZENE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
1,2-DICHLOROBENZENE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
2-METHYLPHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
4-METHYLPHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
HEXACHLOROETHANE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
NITROBENZENE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
ISOPHORONE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
2-NITROPHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
2,4-DIMETHYLPHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
2,4-DICHLOROPHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
NAPHTHALENE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
4-CHLORANILINE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U
HEXACHLOROBUTADIENE	UG/KG	350 U	360 U	340 U	360 U	340 U	360 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB3-06	6-203OSA-SB4-05	6-203OSA-SB4-07	6-203OSA-SB5-02	6-203OSA-SB7-01	6-203OSA-SB8-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/12/92	9/12/92	9/11/92	9/14/92	9/13/92
Lab Id:	00507-31	00507-33	00507-34	00507-36	00511-08	00511-10
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U
2-METHYLNAPHTHALENE	UG/KG	350 U	360 U	340 U	360 U	37 J
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U	360 U	340 U	360 U	340 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 U	360 U	340 U	360 U	340 U
2,4,5-TRICHLOROPHENOL	UG/KG	850 U	870 U	830 U	880 U	820 U
2-CHLORONAPHTHALENE	UG/KG	350 U	360 U	340 U	360 U	340 U
2-NITROANILINE	UG/KG	850 U	870 U	830 U	880 U	820 U
DIMETHYL PHTHALATE	UG/KG	350 U	360 U	340 U	360 U	340 U
ACENAPHTHYLENE	UG/KG	350 UJ	360 U	340 U	360 U	340 U
2,6-DINITROTOLUENE	UG/KG	350 U	360 U	340 U	360 U	340 U
3-NITROANILINE	UG/KG	850 U	870 U	830 U	880 U	820 U
ACENAPHTHENE	UG/KG	350 U	360 U	340 U	360 U	340 U
2,4-DINITROPHENOL	UG/KG	850 U	870 U	830 U	880 U	820 U
4-NITROPHENOL	UG/KG	850 U	870 U	830 U	880 U	820 UJ
DIBENZOFURAN	UG/KG	350 U	360 U	340 U	360 U	340 U
2,4-DINITROTOLUENE	UG/KG	350 UJ	360 UJ	340 UJ	360 U	340 U
DIETHYL PHTHALATE	UG/KG	350 U	360 U	340 U	360 U	340 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 UJ	360 U	340 U	360 U	340 U
FLUORENE	UG/KG	350 UJ	360 U	340 U	360 U	340 U
4-NITROANILINE	UG/KG	850 U	870 U	830 U	880 U	820 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	850 U	870 U	830 U	880 U	820 U
N-NITROSODIPHENYLAMINE	UG/KG	350 U	360 U	340 U	360 U	340 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 U	360 U	340 U	360 U	340 U
HEXACHLOROBENZENE	UG/KG	350 U	360 U	340 U	360 U	340 U
PENTACHLOROPHENOL	UG/KG	850 U	870 UJ	830 UJ	880 U	820 U
PHENANTHRENE	UG/KG	350 U	360 U	340 U	360 U	70 J
ANTHRACENE	UG/KG	350 U	360 U	340 U	360 U	340 U
DI-N-BUTYL PHTHALATE	UG/KG	350 U	360 U	340 U	360 U	340 U
FLUORANTHENE	UG/KG	350 U	360 U	340 U	360 U	85 J
CARBAZOLE	UG/KG	350 U	360 U	340 U	360 U	340 U
PYRENE	UG/KG	350 U	360 U	340 U	360 U	110 J
BUTYL BENZYL PHTHALATE	UG/KG	350 U	360 U	340 U	360 U	340 U
3,3-DICHLOROBENZIDINE	UG/KG	350 U	360 U	340 U	360 U	340 U
BENZO(A)ANTHRACENE	UG/KG	350 U	360 U	340 U	360 U	96 J
CHRYSENE	UG/KG	350 U	360 U	340 U	360 U	68 J
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 U	360 U	340 UJ	360 U	110 J
DI-N-OCTYL PHTHALATE	UG/KG	350 UJ	360 U	340 UJ	360 U	340 U
BENZO(B)FLUORANTHENE	UG/KG	350 UJ	360 U	340 UJ	360 U	100 J
BENZO(K)FLUORANTHENE	UG/KG	350 UJ	360 U	340 UJ	360 U	340 U
BENZO(A)PYRENE	UG/KG	350 UJ	360 U	340 UJ	360 U	58 J
INDENO(1,2,3-CD) PYRENE	UG/KG	350 UJ	360 U	340 UJ	360 U	340 U
DIBENZ(A,H)ANTHRACENE	UG/KG	350 UJ	360 U	340 UJ	360 U	340 U
BENZO(G,H,I)PERYLENE	UG/KG	350 UJ	360 U	340 UJ	360 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-203OSA-SB8-06	6-203OSA-SB9-05	6-203OSA-SB9-06	6-GW10-02A	6-GW10-02B	6-GW12-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/13/92	9/13/92	9/13/92	9/23/92	9/23/92	9/24/92	
Lab Id:	00511-12	00511-14	00511-15	00536-24	00536-25	00536-26	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
BETA-BHC	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
DELTA-BHC	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
HEPTACHLOR	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
ALDRIN	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
ENDOSULFAN I	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
DIELDRIN	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
4,4'-DDE	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
ENDRIN	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
ENDOSULFAN II	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
4,4'-DDD	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
ENDOSULFAN SULFATE	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
4,4'-DDT	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
METHOXYCHLOR	UG/KG	18 UJ	20 UJ	22 U	29 UJ	21 UJ	20 UJ
ENDRIN KETONE	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
ENDRIN ALDEHYDE	UG/KG	3.6 UJ	3.9 UJ	4.4 U	5.6 UJ	4.1 UJ	3.8 UJ
ALPHA CHLORDANE	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
GAMMA CHLORDANE	UG/KG	1.8 UJ	2 UJ	2.2 U	2.9 UJ	2.1 UJ	2 UJ
TOXAPHENE	UG/KG	180 UJ	200 UJ	220 U	290 UJ	210 UJ	200 UJ
PCB-1016	UG/KG	36 UJ	39 UJ	44 U	56 UJ	41 UJ	38 UJ
PCB-1221	UG/KG	73 UJ	79 UJ	88 U	110 UJ	83 UJ	77 UJ
PCB-1232	UG/KG	36 UJ	39 UJ	44 U	56 UJ	41 UJ	38 UJ
PCB-1242	UG/KG	36 UJ	39 UJ	44 U	56 UJ	41 UJ	38 UJ
PCB-1248	UG/KG	36 UJ	39 UJ	44 U	56 UJ	41 UJ	38 UJ
PCB-1254	UG/KG	36 UJ	39 UJ	44 U	56 UJ	41 UJ	38 UJ
PCB-1260	UG/KG	36 UJ	39 UJ	44 U	56 UJ	41 UJ	38 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	12 UJ	14 U	12 U	12 U	12 U
BROMOMETHANE	UG/KG	11 U	12 U	14 U	12 U	12 U	12 U
VINYL CHLORIDE	UG/KG	11 U	12 U	14 U	12 U	12 U	12 U
CHLOROETHANE	UG/KG	11 U	12 U	14 U	12 U	12 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	12 U	14 U	12 U	12 U	12 U
ACETONE	UG/KG	29	12 U	28	12 U	12 U	12 U
CARBON DISULFIDE	UG/KG	11 U	12 U	14 U	12 U	12 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	12 U	14 U	12 U	12 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	12 U	14 U	12 UJ	12 UJ	12 UJ
1,2-DICHLOROETHENE	UG/KG	11 U	12 U	14 U	5 J	12 U	12 U
CHLOROFORM	UG/KG	11 U	12 U	14 U	12 U	12 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	12 U	14 U	12 UJ	12 UJ	12 UJ
2-BUTANONE	UG/KG	11 U	12 U	14 U	12 U	12 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB8-06	6-203OSA-SB9-05	6-203OSA-SB9-06	6-GW10-02A	6-GW10-02B	6-GW12-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/13/92	9/13/92	9/13/92	9/23/92	9/23/92	9/24/92
Lab Id:	00511-12	00511-14	00511-15	00536-24	00536-25	00536-26
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	11 U	12 U	14 U	12 U	12 U
CARBON TETRACHLORIDE	UG/KG	11 U	12 U	14 U	12 U	12 U
BROMODICHLOROMETHANE	UG/KG	11 U	12 U	14 U	12 U	12 U
1,2-DICHLOROPROPANE	UG/KG	11 U	12 U	14 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	14 U	12 U	12 U
TRICHLOROETHENE	UG/KG	11 U	12 U	14 U	12 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	12 U	14 U	12 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	12 U	14 U	12 U	12 U
BENZENE	UG/KG	11 U	12 U	14 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	14 U	12 U	12 U
BROMOFORM	UG/KG	11 U	12 U	14 U	12 U	12 U
4-METHYL-2-PENTANONE	UG/KG	11 U	12 U	14 U	12 U	12 U
2-HEXANONE	UG/KG	11 U	12 U	14 U	12 U	12 U
TETRACHLOROETHENE	UG/KG	11 U	12 U	14 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	12 U	14 U	12 U	12 U
TOLUENE	UG/KG	11 U	12 U	14 U	12 U	12 U
CHLOROBENZENE	UG/KG	11 U	12 U	14 U	12 U	12 U
ETHYLBENZENE	UG/KG	11 U	12 U	14 U	12 U	12 U
STYRENE	UG/KG	11 U	12 U	14 U	12 U	12 U
TOTAL XYLENES	UG/KG	11 U	12 U	14 U	12 U	12 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 U	370 U	440 U	550 U	410 U
2-CHLOROPHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U
1,3-DICHLOROBENZENE	UG/KG	360 U	370 U	440 U	550 U	410 U
1,4-DICHLOROBENZENE	UG/KG	360 U	370 U	440 U	550 U	410 U
1,2-DICHLOROBENZENE	UG/KG	360 U	370 U	440 U	550 U	410 U
2-METHYLPHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 U	370 U	440 U	550 U	410 U
4-METHYLPHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	370 U	440 U	550 U	410 U
HEXACHLOROETHANE	UG/KG	360 U	370 U	440 U	550 U	410 U
NITROBENZENE	UG/KG	360 U	370 U	440 U	550 U	410 U
ISOPHORONE	UG/KG	360 U	370 U	440 U	550 U	410 U
2-NITROPHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U
2,4-DIMETHYLPHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	370 U	440 U	550 U	410 U
2,4-DICHLOROPHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	370 U	440 U	550 U	410 U
NAPHTHALENE	UG/KG	360 U	370 U	440 U	550 U	410 U
4-CHLORANILINE	UG/KG	360 U	370 U	440 U	550 U	410 U
HEXACHLOROBUTADIENE	UG/KG	360 U	370 U	440 U	550 U	410 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-203OSA-SB8-06	6-203OSA-SB9-05	6-203OSA-SB9-06	6-GW10-02A	6-GW10-02B	6-GW12-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/13/92	9/13/92	9/13/92	9/23/92	9/23/92	9/24/92	
Lab Id:	00511-12	00511-14	00511-15	00536-24	00536-25	00536-26	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
2-METHYLNAPHTHALENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
2,4,6-TRICHLOROPHENOL	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
2,4,5-TRICHLOROPHENOL	UG/KG	860 U	890 U	1100 U	1300 U	1000 U	920 U
2-CHLORONAPHTHALENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
2-NITROANILINE	UG/KG	860 U	890 U	1100 U	1300 U	1000 U	920 U
DIMETHYL PHTHALATE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
ACENAPHTHYLENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
2,6-DINITROTOLUENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
3-NITROANILINE	UG/KG	860 U	890 U	1100 U	1300 U	1000 U	920 U
ACENAPHTHENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
2,4-DINITROPHENOL	UG/KG	860 U	890 U	1100 U	1300 U	1000 U	920 U
4-NITROPHENOL	UG/KG	860 UJ	890 UJ	1100 UJ	1300 U	1000 UJ	920 U
DIBENZOFURAN	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
2,4-DINITROTOLUENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
DIETHYL PHTHALATE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	370 U	440 UJ	550 U	410 U	380 U
FLUORENE	UG/KG	360 U	370 U	440 U	550 UJ	410 U	380 U
4-NITROANILINE	UG/KG	860 U	890 U	1100 U	1300 U	1000 U	920 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	860 U	890 U	1100 U	1300 U	1000 U	920 U
N-NITROSODIPHENYLAMINE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
HEXACHLOROBENZENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
PENTACHLOROPHENOL	UG/KG	860 U	890 U	1100 U	1300 U	1000 U	920 U
PHENANTHRENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
ANTHRACENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
FLUORANTHENE	UG/KG	360 U	370 U	440 U	550 U	65 J	380 U
CARBAZOLE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
PYRENE	UG/KG	360 U	370 U	440 UJ	550 UJ	63 J	380 U
BUTYL BENZYL PHTHALATE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U	370 U	440 U	550 U	410 UJ	380 U
BENZO(A)ANTHRACENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
CHRYSENE	UG/KG	360 U	370 U	440 U	550 UJ	410 U	380 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	78 J	46 J	60 J	550 UJ	410 U	380 U
DI-N-OCTYL PHTHALATE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
BENZO(B)FLUORANTHENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
BENZO(K)FLUORANTHENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
BENZO(A)PYRENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
DIBENZ(A,H)ANTHRACENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U	370 U	440 U	550 U	410 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO--0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW12-02	6-GW13-01	6-GW13-02	6-GW14-03	6-GW14-04	6-GW16-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/24/92	9/24/92	9/24/92	10/6/92	10/6/92	10/11/92	
Lab Id:	00536-27	00544-06	00544-07	00564-03	00564-04	00570-19	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
BETA-BHC	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
DELTA-BHC	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
HEPTACHLOR	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
ALDRIN	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
ENDOSULFAN I	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
DIELDRIN	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
4,4'-DDE	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
ENDRIN	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
ENDOSULFAN II	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
4,4'-DDD	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
ENDOSULFAN SULFATE	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
4,4'-DDT	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
METHOXYCHLOR	UG/KG	21 U	21 UJ	20 U	18 U	20 U	18 UJ
ENDRIN KETONE	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
ENDRIN ALDEHYDE	UG/KG	4 U	4 UJ	4 U	3.6 U	3.8 U	3.5 UJ
ALPHA CHLORDANE	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
GAMMA CHLORDANE	UG/KG	2.1 U	2.1 UJ	2 U	1.8 U	2 U	1.8 UJ
TOXAPHENE	UG/KG	210 U	210 UJ	200 U	180 U	200 U	180 UJ
PCB-1016	UG/KG	40 U	40 UJ	40 U	36 U	38 U	35 UJ
PCB-1221	UG/KG	81 U	81 UJ	81 U	72 U	77 U	72 UJ
PCB-1232	UG/KG	40 U	40 UJ	40 U	36 U	38 U	35 UJ
PCB-1242	UG/KG	40 U	40 UJ	40 U	36 U	38 U	35 UJ
PCB-1248	UG/KG	40 U	40 UJ	40 U	36 U	38 U	35 UJ
PCB-1254	UG/KG	40 U	40 UJ	40 U	36 U	38 U	35 UJ
PCB-1260	UG/KG	40 U	40 UJ	40 U	36 U	38 U	35 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 UJ
BROMOMETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
VINYL CHLORIDE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
CHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
ACETONE	UG/KG	12 U	33 J	25 J	20 U	82 U	22 J
CARBON DISULFIDE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
1,1-DICHLOROETHANE	UG/KG	12 UJ	12 UJ	12 UJ	12 U	12 U	11 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
CHLOROFORM	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROETHANE	UG/KG	12 UJ	12 U	12 U	12 U	12 U	11 U
2-BUTANONE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-GW12-02	6-GW13-01	6-GW13-02	6-GW14-03	6-GW14-04	6-GW16-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/24/92	9/24/92	9/24/92	10/6/92	10/6/92	10/11/92
	Lab Id:	00336-27	00544-06	00544-07	00564-03	00564-04	00570-19
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 UJ	12 UJ	11 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
TRICHLOROETHENE	UG/KG	12 U	12 UJ	12 UJ	12 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
BENZENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
BROMOFORM	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
2-HEXANONE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
TOLUENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
CHLOROBENZENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
ETHYLBENZENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
STYRENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
TOTAL XYLENES	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
2-CHLOROPHENOL	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
1,3-DICHLOROBENZENE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
1,4-DICHLOROBENZENE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
1,2-DICHLOROBENZENE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
2-METHYLPHENOL	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
2,2'-OXYBIS (1-CHLOROPROPANE)	UG/KG	400 U	400 UJ	400 UJ	360 U	380 U	350 U
4-METHYLPHENOL	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	400 U	400 UJ	400 UJ	360 U	380 U	350 U
HEXACHLOROETHANE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
NITROBENZENE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
ISOPHORONE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
2-NITROPHENOL	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
2,4-DIMETHYLPHENOL	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
2,4-DICHLOROPHENOL	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
NAPHTHALENE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U
4-CHLORANILINE	UG/KG	400 U	400 UJ	400 UJ	360 U	380 U	350 U
HEXACHLOROBUTADIENE	UG/KG	400 U	400 U	400 U	360 U	380 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW12-02	6-GW13-01	6-GW13-02	6-GW14-03	6-GW14-04	6-GW16-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	9/24/92	9/24/92	10/6/92	10/6/92	10/11/92
Lab Id:	00536-27	00544-06	00544-07	00564-03	00564-04	00570-19
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	400 U	400 U	400 U	360 U	350 U
2-METHYLNAPHTHALENE	UG/KG	400 U	400 U	400 U	360 U	350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	400 U	400 U	400 U	360 U	350 U
2,4,6-TRICHLOROPHENOL	UG/KG	400 U	400 U	400 U	360 U	350 U
2,4,5-TRICHLOROPHENOL	UG/KG	970 U	960 U	960 U	860 U	860 U
2-CHLORONAPHTHALENE	UG/KG	400 U	400 U	400 U	360 U	350 U
2-NITROANILINE	UG/KG	970 U	960 U	960 U	860 U	860 U
DIMETHYL PHTHALATE	UG/KG	400 U	400 U	400 U	360 U	350 U
ACENAPHTHYLENE	UG/KG	400 U	400 U	400 U	360 U	350 U
2,6-DINITROTOLUENE	UG/KG	400 U	400 UJ	400 UJ	360 U	350 U
3-NITROANILINE	UG/KG	970 U	960 U	960 U	860 U	860 U
ACENAPHTHENE	UG/KG	400 U	400 U	400 U	360 U	350 U
2,4-DINITROPHENOL	UG/KG	970 U	960 UJ	960 UJ	860 U	860 UJ
4-NITROPHENOL	UG/KG	970 U	960 UJ	960 UJ	860 U	860 U
DIBENZOFURAN	UG/KG	400 U	400 U	400 U	360 U	350 U
2,4-DINITROTOLUENE	UG/KG	400 U	400 UJ	400 UJ	360 U	350 U
DIETHYL PHTHALATE	UG/KG	400 U	400 U	400 U	360 U	350 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	400 U	400 UJ	400 UJ	360 UJ	350 U
FLUORENE	UG/KG	400 U	400 UJ	400 UJ	360 U	350 U
4-NITROANILINE	UG/KG	970 U	960 UJ	960 UJ	860 U	860 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	970 U	960 UJ	960 UJ	860 U	860 U
N-NITRISODIPHENYLAMINE	UG/KG	400 U	400 U	400 U	360 U	350 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	400 U	400 U	400 U	360 U	350 U
HEXACHLOROBENZENE	UG/KG	400 U	400 U	400 U	360 U	350 U
PENTACHLOROPHENOL	UG/KG	970 U	960 UJ	960 UJ	860 U	860 UJ
PHENANTHRENE	UG/KG	400 U	400 U	400 U	360 U	350 U
ANTHRACENE	UG/KG	400 U	400 U	400 U	360 U	350 U
DI-N-BUTYL PHTHALATE	UG/KG	400 U	400 U	400 U	360 U	350 U
FLUORANTHENE	UG/KG	400 U	400 UJ	400 UJ	360 U	350 U
CARBAZOLE	UG/KG	400 U	400 U	400 U	360 U	350 U
PYRENE	UG/KG	400 U	400 UJ	400 UJ	360 U	350 U
BUTYL BENZYL PHTHALATE	UG/KG	400 U	400 U	400 U	360 U	350 U
3,3-DICHLOROBENZIDINE	UG/KG	400 U	400 U	400 U	360 U	350 U
BENZO(A)ANTHRACENE	UG/KG	400 U	400 U	400 U	360 U	350 U
CHRYSENE	UG/KG	400 U	400 UJ	400 UJ	360 U	350 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	88 J	400 UJ	400 UJ	360 U	350 U
DI-N-OCTYL PHTHALATE	UG/KG	400 U	400 UJ	400 UJ	360 U	350 U
BENZO(B)FLUORANTHENE	UG/KG	400 U	400 U	400 U	360 U	350 U
BENZO(K)FLUORANTHENE	UG/KG	400 U	400 U	400 U	360 U	350 U
BENZO(A)PYRENE	UG/KG	400 U	400 U	400 U	360 U	350 U
INDENO(1,2,3-CD) PYRENE	UG/KG	400 U	400 U	400 U	360 U	350 U
DIBENZ(A,H)ANTHRACENE	UG/KG	400 U	400 U	400 U	360 U	350 U
BENZO(G,H,I)PERYLENE	UG/KG	400 U	400 U	400 U	360 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW16-03	6-GW17-01	6-GW17-02	6-GW18-01	6-GW18-03	6-GW19-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/11/92	9/25/92	9/25/92	9/25/92	9/25/92	10/6/92	
Lab Id:	00570-21	00544-08	00544-09	00544-18	00544-19	00564-05	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
BETA-BHC	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
DELTA-BHC	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
GAMMA-BHC(LINDANE)	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
HEPTACHLOR	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
ALDRIN	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
HEPTACHLOR EPOXIDE	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
ENDOSULFAN I	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
DIELDRIN	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
4,4'-DDE	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
ENDRIN	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
ENDOSULFAN II	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
4,4'-DDD	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
ENDOSULFAN SULFATE	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
4,4'-DDT	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
METHOXYCHLOR	UG/KG	21 U	19 UJ	20 U	18 U	21 U	20 U
ENDRIN KETONE	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
ENDRIN ALDEHYDE	UG/KG	4 U	3.7 UJ	3.8 U	3.5 U	4 U	4 U
ALPHA CHLORDANE	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
GAMMA CHLORDANE	UG/KG	2.1 U	1.9 UJ	2 U	1.8 U	2.1 U	2 U
TOXAPHENE	UG/KG	210 U	190 UJ	200 U	180 U	210 U	200 U
PCB-1016	UG/KG	40 U	37 UJ	38 U	35 U	40 U	40 U
PCB-1221	UG/KG	81 U	74 UJ	78 U	71 U	82 U	81 U
PCB-1232	UG/KG	40 U	37 UJ	38 U	35 U	40 U	40 U
PCB-1242	UG/KG	40 U	37 UJ	38 U	35 U	40 U	40 U
PCB-1248	UG/KG	40 U	37 UJ	38 U	35 U	40 U	40 U
PCB-1254	UG/KG	40 U	37 UJ	38 U	35 U	40 U	40 U
PCB-1260	UG/KG	40 U	37 UJ	38 U	35 U	40 U	40 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 UJ	11 U	12 U	11 U	12 U	12 U
BROMOMETHANE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
VINYL CHLORIDE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
CHLOROETHANE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
METHYLENE CHLORIDE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
ACETONE	UG/KG	12 UJ	4 J	15	15	26	50 U
CARBON DISULFIDE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
1,1-DICHLOROETHENE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	11 UJ	12 UJ	11 U	12 U	12 U
1,2-DICHLOROETHENE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
CHLOROFORM	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U
2-BUTANONE	UG/KG	12 U	11 U	12 U	11 U	12 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW16-03	6-GW17-01	6-GW17-02	6-GW18-01	6-GW18-03	6-GW19-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/11/92	9/25/92	9/25/92	9/25/92	9/25/92	10/6/92
Lab Id:	00570-21	00544-08	00544-09	00544-18	00544-19	00564-05
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	12 U	11 U	12 U	11 U	12 UJ
CARBON TETRACHLORIDE	UG/KG	12 U	11 U	12 U	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	12 U	11 U	12 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	12 U	11 U	12 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	11 U	12 U	11 U	12 U
TRICHLOROETHENE	UG/KG	12 U	11 UJ	12 UJ	11 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	11 U	12 U	11 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	11 U	12 U	11 U	12 U
BENZENE	UG/KG	12 U	11 U	12 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	11 U	12 U	11 U	12 U
BROMOFORM	UG/KG	12 U	11 U	12 U	11 U	12 U
4-METHYL-2-PENTANONE	UG/KG	12 U	11 U	12 U	11 U	12 U
2-HEXANONE	UG/KG	12 U	11 U	12 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	12 U	11 U	12 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	11 U	12 U	11 U	12 U
TOLUENE	UG/KG	12 U	11 U	12 U	11 U	12 U
CHLOROBENZENE	UG/KG	12 U	11 U	12 U	11 U	12 U
ETHYLBENZENE	UG/KG	12 U	11 U	12 U	11 U	12 U
STYRENE	UG/KG	12 U	11 U	12 U	11 U	12 U
TOTAL XYLENES	UG/KG	12 U	11 U	12 U	11 U	12 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	400 U	370 U	390 U	350 U	400 U
2-CHLOROPHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
1,3-DICHLOROBENZENE	UG/KG	400 U	370 U	390 U	350 U	400 U
1,4-DICHLOROBENZENE	UG/KG	400 U	370 U	390 U	350 U	400 U
1,2-DICHLOROBENZENE	UG/KG	400 U	370 U	390 U	350 U	400 U
2-METHYLPHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
4-METHYLPHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
HEXACHLOROETHANE	UG/KG	400 U	370 U	390 U	350 U	400 U
NITROBENZENE	UG/KG	400 U	370 U	390 U	350 U	400 U
ISOPHORONE	UG/KG	400 U	370 U	390 U	350 U	400 U
2-NITROPHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
2,4-DIMETHYLPHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	400 U	370 U	390 U	350 U	400 U
2,4-DICHLOROPHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
1,2,4-TRICHLOROBENZENE	UG/KG	400 U	370 U	390 U	350 U	400 U
NAPHTHALENE	UG/KG	400 U	370 U	390 U	350 U	400 U
4-CHLORANILINE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
HEXACHLOROBUTADIENE	UG/KG	400 U	370 U	390 U	350 U	400 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW16-03	6-GW17-01	6-GW17-02	6-GW18-01	6-GW18-03	6-GW19-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/11/92	9/25/92	9/25/92	9/25/92	9/25/92	10/6/92
Lab Id:	00570-21	00544-08	00544-09	00544-18	00544-19	00564-05
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
2-METHYLNAPHTHALENE	UG/KG	400 U	370 U	390 U	350 U	400 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	400 U	370 U	390 U	350 U	400 U
2,4,6-TRICHLOROPHENOL	UG/KG	400 U	370 U	390 U	350 U	400 U
2,4,5-TRICHLOROPHENOL	UG/KG	970 U	890 U	940 U	850 U	980 U
2-CHLORONAPHTHALENE	UG/KG	400 U	370 U	390 U	350 U	400 U
2-NITROANILINE	UG/KG	970 U	890 U	940 U	850 U	980 U
DIMETHYL PHTHALATE	UG/KG	400 U	370 U	390 U	350 U	400 U
ACENAPHTHYLENE	UG/KG	400 U	370 U	390 U	350 U	400 U
2,6-DINITROTOLUENE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
3-NITROANILINE	UG/KG	970 U	890 U	940 U	850 U	980 U
ACENAPHTHENE	UG/KG	400 U	370 U	390 U	350 U	400 U
2,4-DINITROPHENOL	UG/KG	970 U	890 UJ	940 UJ	850 UJ	980 UJ
4-NITROPHENOL	UG/KG	970 U	890 UJ	940 UJ	850 UJ	980 UJ
DIBENZOFURAN	UG/KG	400 U	370 U	390 U	350 U	400 U
2,4-DINITROTOLUENE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
DIETHYL PHTHALATE	UG/KG	400 U	370 U	390 U	350 U	400 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
FLUORENE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
4-NITROANILINE	UG/KG	970 U	890 UJ	940 UJ	850 UJ	980 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/KG	970 U	890 UJ	940 UJ	850 UJ	980 UJ
N-NITRISODIPHENYLAMINE	UG/KG	400 U	370 U	390 U	350 U	400 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	400 U	370 U	390 U	350 U	400 U
HEXACHLOROBENZENE	UG/KG	400 U	370 U	390 U	350 U	400 U
PENTACHLOROPHENOL	UG/KG	970 U	890 UJ	940 UJ	850 UJ	980 UJ
PHENANTHRENE	UG/KG	400 U	370 U	390 U	350 U	400 U
ANTHRACENE	UG/KG	400 U	370 U	390 U	350 U	400 U
DI-N-BUTYL PHTHALATE	UG/KG	400 U	370 U	390 U	350 U	400 U
FLUORANTHENE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
CARBAZOLE	UG/KG	400 U	370 U	390 U	350 U	400 U
PYRENE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
BUTYL BENZYL PHTHALATE	UG/KG	400 U	370 U	390 U	350 U	400 U
3,3-DICHLOROBENZIDINE	UG/KG	400 U	370 U	390 U	350 U	400 U
BENZO(A)ANTHRACENE	UG/KG	400 U	370 U	390 U	350 U	400 U
CHRYSENE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
DI-N-OCTYL PHTHALATE	UG/KG	400 U	370 UJ	390 UJ	350 UJ	400 UJ
BENZO(B)FLUORANTHENE	UG/KG	400 UJ	370 U	390 U	350 U	400 U
BENZO(K)FLUORANTHENE	UG/KG	400 U	370 U	390 U	350 U	400 U
BENZO(A)PYRENE	UG/KG	400 U	370 U	390 U	350 U	400 U
INDENO(1,2,3-CD) PYRENE	UG/KG	400 U	370 U	390 U	350 U	400 U
DIBENZ(A,H)ANTHRACENE	UG/KG	400 U	370 U	390 U	350 U	400 U
BENZO(G,H,I)PERYLENE	UG/KG	400 U	370 U	390 U	350 U	400 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW19-03	6-GW1D-07	6-GW1D-08	6-GW20-01	6-GW20-02	6-GW21-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/6/92	10/7/92	10/7/92	10/8/92	10/8/92	9/24/92
Lab Id:	00564-06	00564-12	00564-13	00564-18	00564-20	00544-10
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
BETA-BHC	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
DELTA-BHC	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
GAMMA-BHC(LINDANE)	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
HEPTACHLOR	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
ALDRIN	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
HEPTACHLOR EPOXIDE	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
ENDOSULFAN I	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
DIELDRIN	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
4,4'-DDE	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
ENDRIN	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
ENDOSULFAN II	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
4,4'-DDD	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
ENDOSULFAN SULFATE	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
4,4'-DDT	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
METHOXYCHLOR	UG/KG	21 U	19 U	21 U	21 U	19 U
ENDRIN KETONE	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
ENDRIN ALDEHYDE	UG/KG	4.1 U	3.6 U	4 U	4.1 U	3.8 U
ALPHA CHLORDANE	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
GAMMA CHLORDANE	UG/KG	2.1 U	1.9 U	2.1 U	2.1 U	1.9 U
TOXAPHENE	UG/KG	210 U	190 U	210 U	210 U	190 U
PCB-1016	UG/KG	41 U	36 U	40 U	41 U	38 U
PCB-1221	UG/KG	83 U	74 U	81 U	83 U	76 U
PCB-1232	UG/KG	41 U	36 U	40 U	41 U	38 U
PCB-1242	UG/KG	41 U	36 U	40 U	41 U	38 U
PCB-1248	UG/KG	41 U	36 U	40 U	41 U	38 U
PCB-1254	UG/KG	41 U	36 U	40 U	41 U	38 U
PCB-1260	UG/KG	41 U	36 U	40 U	40 U	38 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U
BROMOMETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U
VINYL CHLORIDE	UG/KG	12 U	12 U	12 U	11 U	12 U
CHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	12 U	11 U	12 U
ACETONE	UG/KG	44 U	24 U	50 U	11 U	8 J
CARBON DISULFIDE	UG/KG	12 U	12 U	12 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	11 U	12 U
CHLOROFORM	UG/KG	12 U	12 U	12 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U
2-BUTANONE	UG/KG	12 U	12 U	12 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-GW19-03	6-GW1D-07	6-GW1D-08	6-GW20-01	6-GW20-02	6-GW21-04
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/6/92	10/7/92	10/7/92	10/8/92	10/8/92	9/24/92
	Lab Id:	00564-06	00564-12	00564-13	00564-18	00564-20	00544-10
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
TRICHLOROETHENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 UJ
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
BENZENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
BROMOFORM	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
4-METHYL-2-PENTANONE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
2-HEXANONE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
TOLUENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
CHLOROBENZENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
ETHYLBENZENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
STYRENE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
TOTAL XYLENES	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
2-CHLOROPHENOL	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
1,3-DICHLOROBENZENE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
1,4-DICHLOROBENZENE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
1,2-DICHLOROBENZENE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
2-METHYLPHENOL	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	410 U	370 U	410 U	410 U	410 U	380 UJ
4-METHYLPHENOL	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 UJ
HEXACHLOROETHANE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
NITROBENZENE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
ISOPHORONE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
2-NITROPHENOL	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
2,4-DIMETHYLPHENOL	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
2,4-DICHLOROPHENOL	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
1,2,4-TRICHLOROBENZENE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
NAPHTHALENE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U
4-CHLORANILINE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 UJ
HEXACHLOROBUTADIENE	UG/KG	410 U	370 U	410 U	410 U	410 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW19-03	6-GW1D-07	6-GW1D-08	6-GW20-01	6-GW20-02	6-GW21-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/6/92	10/7/92	10/7/92	10/8/92	10/8/92	9/24/92
Lab Id:	00564-06	00564-12	00564-13	00564-18	00564-20	00544-10
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	410 U	370 U	410 U	410 U	380 U
2-METHYLNAPHTHALENE	UG/KG	410 U	370 U	410 U	410 U	380 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	410 U	370 U	410 U	410 U	380 U
2,4,6-TRICHLOROPHENOL	UG/KG	410 U	370 U	410 U	410 U	380 U
2,4,5-TRICHLOROPHENOL	UG/KG	980 U	890 U	990 U	990 U	920 U
2-CHLORONAPHTHALENE	UG/KG	410 U	370 U	410 U	410 U	380 U
2-NITROANILINE	UG/KG	980 U	890 U	990 U	990 U	920 U
DIMETHYL PHTHALATE	UG/KG	410 U	370 U	410 U	410 U	380 U
ACENAPHTHYLENE	UG/KG	410 U	370 U	410 U	410 U	380 U
2,6-DINITROTOLUENE	UG/KG	410 U	370 U	410 U	410 U	380 UJ
3-NITROANILINE	UG/KG	980 U	890 U	990 U	990 U	920 U
ACENAPHTHENE	UG/KG	410 U	370 U	410 U	410 U	380 U
2,4-DINITROPHENOL	UG/KG	980 U	890 U	990 U	990 UJ	920 UJ
4-NITROPHENOL	UG/KG	980 U	890 U	990 U	990 U	920 UJ
DIBENZOFURAN	UG/KG	410 U	370 U	410 U	410 U	380 U
2,4-DINITROTOLUENE	UG/KG	410 U	370 U	410 U	410 UJ	380 UJ
DIETHYL PHTHALATE	UG/KG	410 U	370 U	410 U	410 U	380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	410 U	370 UJ	410 UJ	410 U	380 UJ
FLUORENE	UG/KG	410 U	370 U	410 U	410 U	380 UJ
4-NITROANILINE	UG/KG	980 U	890 U	990 U	990 U	920 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/KG	980 U	890 U	990 U	990 U	920 UJ
N-NITROSODIPHENYLAMINE	UG/KG	410 U	370 U	410 U	410 U	380 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	410 U	370 U	410 U	410 U	380 U
HEXACHLOROBENZENE	UG/KG	410 U	370 U	410 U	410 U	380 U
PENTACHLOROPHENOL	UG/KG	980 U	890 U	990 U	990 U	920 UJ
PHENANTHRENE	UG/KG	410 U	370 U	410 U	410 U	380 U
ANTHRACENE	UG/KG	410 U	370 U	410 U	410 U	380 U
DI-N-BUTYL PHTHALATE	UG/KG	410 U	370 U	410 U	410 U	380 U
FLUORANTHENE	UG/KG	410 U	370 U	410 U	410 U	380 UJ
CARBAZOLE	UG/KG	410 U	370 U	410 U	410 U	380 U
PYRENE	UG/KG	410 U	370 U	410 U	410 UJ	380 UJ
BUTYL BENZYL PHTHALATE	UG/KG	410 U	370 U	410 U	410 U	380 U
3,3-DICHLOROBENZIDINE	UG/KG	410 U	370 U	410 U	410 U	380 U
BENZO(A)ANTHRACENE	UG/KG	410 U	370 U	410 U	410 U	380 U
CHRYSENE	UG/KG	410 U	370 U	410 U	410 U	380 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	410 U	370 U	410 U	410 U	380 UJ
DI-N-OCTYL PHTHALATE	UG/KG	410 U	370 U	410 U	410 U	380 UJ
BENZO(B)FLUORANTHENE	UG/KG	410 U	370 U	410 U	410 U	380 U
BENZO(K)FLUORANTHENE	UG/KG	410 U	370 U	410 U	410 U	380 U
BENZO(A)PYRENE	UG/KG	410 U	370 U	410 U	410 U	380 U
INDENO(1,2,3-CD) PYRENE	UG/KG	410 U	370 U	410 U	410 U	380 U
DIBENZ(A,H)ANTHRACENE	UG/KG	410 U	370 U	410 U	410 U	380 U
BENZO(G,H,I)PERYLENE	UG/KG	410 U	370 U	410 U	410 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW21-07	6-GW25-04	6-GW25-05	6-GW26-03	6-GW26-04	6-GW27D-05	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/24/92	10/7/92	10/7/92	10/09/92	10/09/92	10/11/92	
Lab Id:	00544-11	00564-14	00564-15	00570-01	00570-02	00570-22	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
BETA-BHC	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
DELTA-BHC	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
GAMMA-BHC(LINDANE)	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
HEPTACHLOR	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
ALDRIN	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
HEPTACHLOR EPOXIDE	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
ENDOSULFAN I	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
DIELDRIN	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
4,4'-DDE	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
ENDRIN	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
ENDOSULFAN II	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
4,4'-DDD	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
ENDOSULFAN SULFATE	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
4,4'-DDT	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
METHOXYCHLOR	UG/KG	21 U	20 UJ	20 U	19 UJ	22 U	22 U
ENDRIN KETONE	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
ENDRIN ALDEHYDE	UG/KG	4.1 U	3.9 UJ	4 U	3.7 UJ	4.2 U	4.3 U
ALPHA CHLORDANE	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
GAMMA CHLORDANE	UG/KG	2.1 U	2 UJ	2 U	1.9 UJ	2.2 U	2.2 U
TOXAPHENE	UG/KG	210 U	200 UJ	200 U	190 UJ	220 U	220 U
PCB-1016	UG/KG	41 U	39 UJ	40 U	37 UJ	42 U	43 U
PCB-1221	UG/KG	84 U	79 UJ	80 U	74 UJ	86 U	88 U
PCB-1232	UG/KG	41 U	39 UJ	40 U	37 UJ	42 U	43 U
PCB-1242	UG/KG	41 U	39 UJ	40 U	37 UJ	42 U	43 U
PCB-1248	UG/KG	41 U	39 UJ	40 U	37 UJ	42 U	43 U
PCB-1254	UG/KG	41 U	39 UJ	40 U	37 UJ	42 U	43 U
PCB-1260	UG/KG	41 U	39 UJ	40 U	37 UJ	42 U	43 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 UJ	12 UJ	11 UJ
BROMOMETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
VINYL CHLORIDE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
CHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
ACETONE	UG/KG	34 J	19 U	32 U	11 J	4 J	11 UJ
CARBON DISULFIDE	UG/KG	12 U	2 J	2 J	12 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
1,1-DICHLOROETHANE	UG/KG	12 UJ	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
CHLOROFORM	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U
2-BUTANONE	UG/KG	12 U	12 U	12 U	12 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW21-07	6-GW25-04	6-GW25-05	6-GW26-03	6-GW26-04	6-GW27D-05
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	10/7/92	10/7/92	10/09/92	10/09/92	10/11/92
Lab Id:	00544-11	00564-14	00564-15	00570-01	00570-02	00570-22
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	12 U	12 U	11 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	12 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	12 U	11 U
TRICHLOROETHENE	UG/KG	12 UJ	12 U	12 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
BENZENE	UG/KG	12 U	12 U	12 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	12 U	11 U
BROMOFORM	UG/KG	12 U	12 U	12 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	12 U	12 U	12 U	12 U	11 U
2-HEXANONE	UG/KG	12 U	12 U	12 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
TOLUENE	UG/KG	12 U	12 U	12 U	12 U	11 U
CHLOROENZENE	UG/KG	12 U	12 U	12 U	12 U	11 U
ETHYLBENZENE	UG/KG	12 U	12 U	12 U	12 U	11 U
STYRENE	UG/KG	12 U	12 U	12 U	12 U	11 U
TOTAL XYLENES	UG/KG	12 U	12 U	12 U	12 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	410 U	390 U	400 U	410 UR	440 U
2-CHLOROPHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
1,3-DICHLOROBENZENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
1,4-DICHLOROBENZENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
1,2-DICHLOROBENZENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
2-METHYLPHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
4-METHYLPHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
HEXACHLOROETHANE	UG/KG	410 U	390 U	400 U	410 UR	440 U
NITROBENZENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
ISOPHORONE	UG/KG	410 U	390 U	400 U	410 UR	440 U
2-NITROPHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
2,4-DIMETHYLPHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	410 U	390 U	400 U	410 UR	440 U
2,4-DICHLOROPHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
1,2,4-TRICHLOROBENZENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
NAPHTHALENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
4-CHLORANILINE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
HEXACHLOROBUTADIENE	UG/KG	410 U	390 U	400 U	410 UR	440 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW21-07	6-GW25-04	6-GW25-05	6-GW26-03	6-GW26-04	6-GW27D-05
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	10/7/92	10/7/92	10/09/92	10/09/92	10/11/92
Lab Id:	00544-11	00564-14	00564-15	00570-01	00570-02	00570-22
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
2-METHYLNAPHTHALENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
2,4,6-TRICHLOROPHENOL	UG/KG	410 U	390 U	400 U	410 UR	440 U
2,4,5-TRICHLOROPHENOL	UG/KG	1000 U	940 U	960 U	980 UR	1100 U
2-CHLORONAPHTHALENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
2-NITROANILINE	UG/KG	1000 U	940 U	960 U	980 UR	1100 U
DIMETHYL PHTHALATE	UG/KG	410 U	390 U	400 U	410 UR	440 U
ACENAPHTHYLENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
2,6-DINITROTOLUENE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
3-NITROANILINE	UG/KG	1000 U	940 U	960 U	980 UR	1100 U
ACENAPHTHENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
2,4-DINITROPHENOL	UG/KG	1000 UJ	940 U	960 UJ	980 UR	1100 UJ
4-NITROPHENOL	UG/KG	1000 UJ	940 U	960 U	980 UR	1100 U
DIBENZOFURAN	UG/KG	410 U	390 U	400 U	410 UR	440 U
2,4-DINITROTOLUENE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
DIETHYL PHTHALATE	UG/KG	410 U	390 U	400 U	410 UR	440 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	410 UJ	390 UJ	400 U	410 UR	440 U
FLUORENE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
4-NITROANILINE	UG/KG	1000 UJ	940 U	960 U	980 UR	1100 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1000 UJ	940 U	960 U	980 UR	1100 U
N-NITRISODIPHENYLAMINE	UG/KG	410 U	390 U	400 U	410 UR	440 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	410 U	390 U	400 U	410 UR	440 U
HEXACHLOROBENZENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
PENTACHLOROPHENOL	UG/KG	1000 UJ	940 U	960 U	980 UR	1100 U
PHENANTHRENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
ANTHRACENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
DI-N-BUTYL PHTHALATE	UG/KG	410 U	390 U	400 U	410 UR	440 U
FLUORANTHENE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
CARBAZOLE	UG/KG	410 U	390 U	400 U	410 UR	440 U
PYRENE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
BUTYL BENZYL PHTHALATE	UG/KG	410 U	390 U	400 U	410 UR	440 U
3,3-DICHLOROBENZIDINE	UG/KG	410 U	390 U	400 U	410 UR	440 U
BENZO(A)ANTHRACENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
CHRYSENE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	410 UJ	390 U	400 U	110 J	440 U
DI-N-OCTYL PHTHALATE	UG/KG	410 UJ	390 U	400 U	410 UR	440 U
BENZO(B)FLUORANTHENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
BENZO(K)FLUORANTHENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
BENZO(A)PYRENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
INDENO(1,2,3-CD) PYRENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
DIBENZ(AH)ANTHRACENE	UG/KG	410 U	390 U	400 U	410 UR	440 U
BENZO(G,H,I)PERYLENE	UG/KG	410 U	390 U	400 U	410 UR	440 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW27D-06	6-GW28-08	6-GW28-09	6-GW28D-09	6-GW28D-10	6-GW2D-05
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/11/92	10/09/92	10/09/92	10/20/92	10/20/92	10/10/92
Lab Id:	00570-23	00570-03	00570-04	00582-09	00582-12	00570-13

Parameter	Units	6-GW27D-06	6-GW28-08	6-GW28-09	6-GW28D-09	6-GW28D-10	6-GW2D-05
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
BETA-BHC	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
DELTA-BHC	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
GAMMA-BHC(LINDANE)	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
HEPTACHLOR	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
ALDRIN	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
HEPTACHLOR EPOXIDE	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
ENDOSULFAN I	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
DELDRIN	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
4'-DDE	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
NDRIN	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
ENDOSULFAN II	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
4'-DDD	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
ENDOSULFAN SULFATE	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
4'-DDT	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
METHOXYCHLOR	UG/KG	21 UJ	19 U	17 U	20 U	19 U	20 UJ
ALDRIN KETONE	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
ALDRIN ALDEHYDE	UG/KG	4 UJ	3.7 U	3.4 U	3.8 U	3.7 U	3.9 UJ
ALPHA CHLORDANE	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
GAMMA CHLORDANE	UG/KG	2.1 UJ	1.9 U	1.7 U	2 U	1.9 U	2 UJ
DIOXAPHENE	UG/KG	210 UJ	190 U	170 U	200 U	190 U	200 UJ
CB-1016	UG/KG	40 UJ	37 U	34 U	38 U	37 U	39 UJ
CB-1221	UG/KG	82 UJ	76 U	68 U	78 U	76 U	79 UJ
CB-1232	UG/KG	40 UJ	37 U	34 U	38 U	37 U	39 UJ
PCB-1242	UG/KG	40 UJ	37 U	34 U	38 U	37 U	39 UJ
PCB-1248	UG/KG	40 UJ	37 U	34 U	38 U	37 U	39 UJ
PCB-1254	UG/KG	40 UJ	37 U	34 U	38 U	37 U	39 UJ
PCB-1260	UG/KG	40 UJ	37 U	34 U	38 U	37 U	39 UJ
VOLATILES							
CHLOROMETHANE	UG/KG	12 UJ	12 UJ	13 UJ	11 U	12 U	12 U
BROMOMETHANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
VINYL CHLORIDE	UG/KG	12 U	12 U	13 U	11 UJ	12 UJ	12 U
CHLOROETHANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
ACETONE	UG/KG	12 UJ	15	44	8 J	12 U	12 U
CARBON DISULFIDE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
CHLOROFORM	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
2-BUTANONE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW27D-06	6-GW28-08	6-GW28-09	6-GW28D-09	6-GW28D-10	6-GW2D-05
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/11/92	10/09/92	10/09/92	10/20/92	10/20/92	10/10/92
Lab Id:	00570-23	00570-03	00570-04	00582-09	00582-12	00570-13

Parameter	Units	6-GW27D-06	6-GW28-08	6-GW28-09	6-GW28D-09	6-GW28D-10	6-GW2D-05
<u>VOLATILES Cont.</u>							
1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	12 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
IS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
RICHLOROETHENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
BROMOCHLOROMETHANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
BENZENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
FORMALDEHYDE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
2-METHYL-2-PENTANONE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
HEXANONE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
TOLUENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
CHLOROBENZENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
ETHYLBENZENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
STYRENE	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
METHYLXYLENES	UG/KG	12 U	12 U	13 U	11 U	12 U	12 U
<u>SEMIVOLATILES</u>							
BENZENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,2-DICHLOROETHYL ETHER	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
2-CHLOROPHENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,3-DICHLOROBENZENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,4-DICHLOROBENZENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,2-DICHLOROBENZENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
2-METHYLPHENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
4-METHYLPHENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
HEXACHLOROETHANE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
NITROBENZENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
ISOPHORONE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
2-NITROPHENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
2,4-DIMETHYLPHENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
2,4-DICHLOROPHENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,2,4-TRICHLOROBENZENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
NAPHTHALENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
4-CHLORANILINE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
HEXACHLOROBUTADIENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW27D-06	6-GW28-08	6-GW28-09	6-GW28D-09	6-GW28D-10	6-GW2D-05
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/11/92	10/09/92	10/09/92	10/20/92	10/20/92	10/10/92
Lab Id:	00570-23	00570-03	00570-04	00582-09	00582-12	00570-13

Parameter	Units	6-GW27D-06	6-GW28-08	6-GW28-09	6-GW28D-09	6-GW28D-10	6-GW2D-05
<u>SEMIVOLATILES Cont.</u>							
1-CHLORO-3-METHYLPHENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
2-METHYLNAPHTHALENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,4,6-TRICHLOROPHENOL	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,4,5-TRICHLOROPHENOL	UG/KG	970 U	910 U	800 U	920 U	900 U	940 U
1-CHLORONAPHTHALENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1-NITROANILINE	UG/KG	970 U	910 U	800 U	920 U	900 U	940 U
1-METHYL PHTHALATE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1-CENAPHTHYLENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,6-DINITROTOLUENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1-NITROANILINE	UG/KG	970 U	910 U	800 U	920 U	900 U	940 U
1-CENAPHTHENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,4-DINITROPHENOL	UG/KG	970 U	910 U	800 U	920 U	900 U	940 U
1-NITROPHENOL	UG/KG	970 U	910 U	800 U	920 U	900 U	940 U
1-BENZOFURAN	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,4-DINITROTOLUENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1-METHYL PHTHALATE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1-CHLOROPHENYL PHENYL ETHER	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1-FLUORENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1-NITROANILINE	UG/KG	970 U	910 U	800 U	920 U	900 U	940 U
1,6-DINITRO-2-METHYLPHENOL	UG/KG	970 U	910 U	800 U	920 U	900 U	940 U
1-NITRISODIPHENYLAMINE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1-BROMOPHENYL PHENYL ETHER	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
1,1-EXACHLOROBENZENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
PENTACHLOROPHENOL	UG/KG	970 U	910 U	800 U	920 U	900 U	940 U
PHENANTHRENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
ANTHRACENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
FLUORANTHENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
CARBAZOLE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
PYRENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
BUTYL BENZYL PHTHALATE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
3,3-DICHLOROBENZIDINE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
BENZO(A)ANTHRACENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
CHRYSENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
DI-N-OCTYL PHTHALATE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
BENZO(B)FLUORANTHENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
BENZO(K)FLUORANTHENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
BENZO(A)PYRENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
INDENO(1,2,3-CD) PYRENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
DIBENZ(AH)ANTHRACENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG	400 U	380 U	330 U	380 U	370 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW2D-06	6-GW30-02	6-GW30-03	6-GW7D-02	6-GW7D-03	6-GW9-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/10/92	10/10/92	10/10/92	10/6/92	10/6/92	9/24/92
Lab Id:	00570-14	00570-24	00570-25	00564-01	00564-02	00544-04

Parameter	Units	6-GW2D-06	6-GW30-02	6-GW30-03	6-GW7D-02	6-GW7D-03	6-GW9-02
PESTICIDE/PCBS							
ALPHA-BHC	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
BETA-BHC	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
DELTA-BHC	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
GAMMA-BHC(LINDANE)	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
EPTACHLOR	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
LDRIN	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
EPTACHLOR EPOXIDE	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
NDOSULFAN I	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
DELDRIN	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
P-DDE	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
NDRIN	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
NDOSULFAN II	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
P-DDD	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
NDOSULFAN SULFATE	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
P-DDT	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
METHOXYCHLOR	UG/KG	20 U	22 UJ	20 U	18 U	22 U	18 U
NDRIN KETONE	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
NDRIN ALDEHYDE	UG/KG	4 U	4.2 UJ	3.8 U	3.5 U	4.2 U	3.5 U
ALPHA CHLORDANE	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
GAMMA CHLORDANE	UG/KG	2 U	2.2 UJ	2 U	1.8 U	2.2 U	1.8 U
DIXAPHENE	UG/KG	200 U	220 UJ	200 U	180 U	220 U	180 U
PCB-1016	UG/KG	40 U	42 UJ	38 U	35 U	42 U	35 U
PCB-1221	UG/KG	80 U	86 UJ	78 U	72 U	86 U	72 U
PCB-1232	UG/KG	40 U	42 UJ	38 U	35 U	42 U	35 U
PCB-1242	UG/KG	40 U	42 UJ	38 U	35 U	42 U	35 U
PCB-1248	UG/KG	40 U	42 UJ	38 U	35 U	42 U	35 U
PCB-1254	UG/KG	40 U	42 UJ	38 U	35 U	42 U	35 U
PCB-1260	UG/KG	40 U	42 UJ	38 U	35 U	42 U	35 U
VOLATILES							
CHLOROMETHANE	UG/KG	12 U	12 UJ	12 UJ	11 U	12 U	11 U
BROMOMETHANE	UG/KG	12 U	12 U	12 U	4 J	12 U	11 U
VINYL CHLORIDE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
CHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
ACETONE	UG/KG	12 U	23 J	13 J	71 U	130 U	11 J
CARBON DISULFIDE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 UJ
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
CHLOROFORM	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
2-BUTANONE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW2D-06	6-GW30-02	6-GW30-03	6-GW7D-02	6-GW7D-03	6-GW9-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/10/92	10/10/92	10/10/92	10/6/92	10/6/92	9/24/92
Lab Id:	00370-14	00370-24	00570-25	00364-01	00364-02	00544-04

Parameter	Units	6-GW2D-06	6-GW30-02	6-GW30-03	6-GW7D-02	6-GW7D-03	6-GW9-02
VOLATILES Cont.							
1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 UJ	11 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
TRICHLOROETHENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 UJ
BROMOCHLOROMETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
ENZENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
FORMALDEHYDE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
2-METHYL-2-PENTANONE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
HEXANONE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
STOLUENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
CHLOROBENZENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
ETHYLBENZENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
STYRENE	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
AROMATIC XYLENES	UG/KG	12 U	12 U	12 U	11 U	12 U	11 U
SEMIVOLATILES							
PHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
1,2-DICHLOROETHYL) ETHER	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
2-CHLOROPHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
1,3-DICHLOROBENZENE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
1,4-DICHLOROBENZENE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
1,2-DICHLOROBENZENE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
2-METHYLPHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	400 U	430 U	390 U	350 U	420 U	350 UJ
4-METHYLPHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 UJ
HEXACHLOROETHANE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
NITROBENZENE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
ISOPHORONE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
2-NITROPHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
2,4-DIMETHYLPHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
2,4-DICHLOROPHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
NAPHTHALENE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U
4-CHLORANILINE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 UJ
HEXACHLOROBTADIENE	UG/KG	400 U	430 U	390 U	350 U	420 U	350 U

CLEJ-01272-3.13-08/20/93

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW2D-06	6-GW30-02	6-GW30-03	6-GW7D-02	6-GW7D-03	6-GW9-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/10/92	10/10/92	10/10/92	10/6/92	10/6/92	9/24/92
Lab Id:	00370-14	00370-24	00570-25	00564-01	00564-02	00544-04
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
1-CHLORO-3-METHYLPHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U
2-METHYLNAPHTHALENE	UG/KG	400 U	430 U	390 U	350 U	420 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	400 U	430 U	390 U	350 U	420 U
1,4,6-TRICHLOROPHENOL	UG/KG	400 U	430 U	390 U	350 U	420 U
1,4,5-TRICHLOROPHENOL	UG/KG	970 U	1000 U	940 U	850 U	1000 U
1-CHLORONAPHTHALENE	UG/KG	400 U	430 U	390 U	350 U	420 U
1-NITROANILINE	UG/KG	970 U	1000 U	940 U	850 U	1000 U
1,3-DIMETHYL PHTHALATE	UG/KG	400 U	430 U	390 U	350 U	420 U
1,2,3-CENAPHTHYLENE	UG/KG	400 U	430 U	390 U	350 U	420 U
1,6-DINITROTOLUENE	UG/KG	400 U	430 U	390 U	350 U	420 U
1-NITROANILINE	UG/KG	970 U	1000 U	940 U	850 U	1000 U
1,2,3-CENAPHTHENE	UG/KG	400 U	430 U	390 U	350 U	420 U
1,4-DINITROPHENOL	UG/KG	970 U	1000 U	940 U	850 U	1000 U
1-NITROPHENOL	UG/KG	970 U	1000 U	940 U	850 U	1000 U
1,2,3,4-TETRAHYDROBENZOFURAN	UG/KG	400 U	430 U	390 U	350 U	420 U
1,4-DINITROTOLUENE	UG/KG	400 U	430 U	390 U	350 U	420 U
1,2,3,4-TETRAHYDROBENZOPHTHALATE	UG/KG	400 U	430 U	390 U	350 U	420 U
1-CHLOROPHENYL PHENYL ETHER	UG/KG	400 U	430 U	390 U	350 U	420 U
1,2,3,4-TETRAHYDROQUINOLINE	UG/KG	400 U	430 U	390 U	350 U	420 U
1-NITROANILINE	UG/KG	970 U	1000 U	940 U	850 U	1000 U
6-DINITRO-2-METHYLPHENOL	UG/KG	970 U	1000 U	940 U	850 U	1000 U
1-NITRISODIPHENYLAMINE	UG/KG	400 U	430 U	390 U	350 U	420 U
1-BROMOPHENYL PHENYL ETHER	UG/KG	400 U	430 U	390 U	350 U	420 U
1,2,3,4,5-PENTACHLOROBENZENE	UG/KG	400 U	430 U	390 U	350 U	420 U
PENTACHLOROPHENOL	UG/KG	970 U	1000 U	940 U	850 U	1000 U
PHENANTHRENE	UG/KG	400 U	430 U	390 U	350 U	420 U
ANTHRACENE	UG/KG	400 U	430 U	390 U	350 U	420 U
DI-N-BUTYL PHTHALATE	UG/KG	400 U	430 U	390 U	350 U	420 U
FLUORANTHENE	UG/KG	400 U	430 U	390 U	350 U	420 U
CARBAZOLE	UG/KG	400 U	430 U	390 U	350 U	420 U
PYRENE	UG/KG	400 U	430 U	390 U	350 U	420 U
BUTYL BENZYL PHTHALATE	UG/KG	400 U	430 U	390 U	350 U	420 U
3,3-DICHLOROBENZIDINE	UG/KG	400 U	430 U	390 U	350 U	420 U
BENZO(A)ANTHRACENE	UG/KG	400 U	430 U	390 U	350 U	420 U
CHRYSENE	UG/KG	400 U	430 U	390 U	350 U	420 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	67 J	430 U	390 U	350 U	420 U
DI-N-OCTYL PHTHALATE	UG/KG	400 U	430 U	390 U	350 U	420 U
BENZO(B)FLUORANTHENE	UG/KG	400 U	430 U	390 U	350 U	420 U
BENZO(K)FLUORANTHENE	UG/KG	400 U	430 U	390 U	350 U	420 U
BENZO(A)PYRENE	UG/KG	400 U	430 U	390 U	350 U	420 U
INDENO(1,2,3-CD) PYRENE	UG/KG	400 U	430 U	390 U	350 U	420 U
DIBENZO(A,H)ANTHRACENE	UG/KG	400 U	430 U	390 U	350 U	420 U
BENZO(G,H,I)PERYLENE	UG/KG	400 U	430 U	390 U	350 U	420 U

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW9-03	6-RAV-SB1-01	6-RAV-SB10-01	6-RAV-SB11-01	6-RAV-SB12-01	6-RAV-SB13-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	9/10/92	9/14/92	9/14/92	9/14/92	9/14/92
Lab Id:	00544-05	00502-27	00512-16	00512-18	00512-21	00512-23

Parameter	Units	6-GW9-03	6-RAV-SB1-01	6-RAV-SB10-01	6-RAV-SB11-01	6-RAV-SB12-01	6-RAV-SB13-02
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
ETA-BHC	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
DELTA-BHC	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
AMMA-BHC(LINDANE)	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
EPTACHLOR	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
LDRIN	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
EPTACHLOR EPOXIDE	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
NDOSULFAN I	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
DELDRIN	UG/KG	4 U	4 U	3.8 U	3.8 UJ	4.1 U	280 J
P-DDE	UG/KG	4 U	4 U	3.8 U	3.8 UJ	37	38 UJ
DRIN	UG/KG	4 U	4 U	3.8 U	3.8 UJ	4.1 U	38 UJ
NDOSULFAN II	UG/KG	4 U	4 U	3.8 U	3.8 UJ	4.1 U	38 UJ
P-DDD	UG/KG	4 U	4 U	3.8 U	3.8 UJ	4.1 U	38 UJ
NDOSULFAN SULFATE	UG/KG	4 U	4 U	3.8 U	3.8 UJ	4.1 U	38 UJ
P-DDT	UG/KG	4 U	4 U	3.8 U	3.8 UJ	39 J	38 UJ
ETHOXYCHLOR	UG/KG	21 U	21 U	20 U	20 UJ	21 U	190 UJ
DRIN KETONE	UG/KG	4 U	4 U	3.8 U	3.8 UJ	4.1 U	38 UJ
DRIN ALDEHYDE	UG/KG	4 U	4 U	3.8 U	3.8 UJ	4.1 U	38 UJ
ALPHA CHLORDANE	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
AMMA CHLORDANE	UG/KG	2.1 U	2.1 U	2 U	2 UJ	2.1 U	19 UJ
DIXAPHENE	UG/KG	210 U	210 U	200 U	200 UJ	210 U	1900 UJ
B-1016	UG/KG	40 U	40 U	38 U	38 UJ	41 U	380 UJ
B-1221	UG/KG	82 U	82 U	78 U	78 UJ	83 U	760 UJ
B-1232	UG/KG	40 U	40 U	38 U	38 UJ	41 U	380 UJ
PCB-1242	UG/KG	40 U	40 U	38 U	38 UJ	41 U	380 UJ
PCB-1248	UG/KG	40 U	40 U	38 U	38 UJ	41 U	380 UJ
PCB-1254	UG/KG	40 U	40 U	38 U	38 UJ	41 U	380 UJ
PCB-1260	UG/KG	40 U	40 U	38 U	38 UJ	41 U	380 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	12 U	11 UJ	12 U	11 UJ	2800 U
BROMOMETHANE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
VINYL CHLORIDE	UG/KG	12 U	12 U	11 UJ	12 U	11 U	2800 U
CHLOROETHANE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
ACETONE	UG/KG	11 J	12 UJ	11 U	12 U	11 U	2800 U
CARBON DISULFIDE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	12 U	11 U	2600 U
1,1-DICHLOROETHANE	UG/KG	12 UJ	12 U	11 U	12 U	11 UJ	2800 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
CHLOROFORM	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 UJ
2-BUTANONE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW9-03	6-RAV-SB1-01	6-RAV-SB10-01	6-RAV-SB11-01	6-RAV-SB12-01	6-RAV-SB13-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	9/10/92	9/14/92	9/14/92	9/14/92	9/14/92
Lab Id:	00544-03	00502-27	00512-16	00512-18	00512-21	00512-23

Parameter	Units	6-GW9-03	6-RAV-SB1-01	6-RAV-SB10-01	6-RAV-SB11-01	6-RAV-SB12-01	6-RAV-SB13-02
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 UJ	12 U	11 U	2800 U
TRICHLOROETHENE	UG/KG	12 UJ	12 U	11 U	12 U	11 UJ	2800 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
BENZENE	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 UJ	11 UJ	12 U	11 U	2800 U
BROMOFORM	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
-METHYL-2-PENTANONE	UG/KG	12 U	12 U	11 U	12 U	11 U	2000 J
-HEXANONE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
TOLUENE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
CHLOROBENZENE	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
ETHYLBENZENE	UG/KG	12 U	12 U	11 U	12 U	11 U	2800 U
STYRENE	UG/KG	12 U	12 U	11 U	12 U	11 UJ	2800 U
TOTAL XYLENES	UG/KG	12 U	12 U	11 U	12 U	11 UJ	950 J
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 UJ	3800 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
2-CHLOROPHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,3-DICHLOROBENZENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,4-DICHLOROBENZENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,2-DICHLOROBENZENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
2-METHYLPHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
4-METHYLPHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
N-NITROSODI-N-PROPYLAMINE	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
HEXACHLOROETHANE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
NITROBENZENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
ISOPHORONE	UG/KG	410 U	400 UR	350 U	380 U	410 U	7700 J
2-NITROPHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
2,4-DIMETHYLPHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
BIS(2-CHLOROETHOXY) METHANE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
2,4-DICHLOROPHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,2,4-TRICHLOROBENZENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
NAPHTHALENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	9600 J
4-CHLORANILINE	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
HEXACHLOROBUTADIENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW9-03	6-RAV-SB1-01	6-RAV-SB10-01	6-RAV-SB11-01	6-RAV-SB12-01	6-RAV-SB13-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/24/92	9/10/92	9/14/92	9/14/92	9/14/92	9/14/92
Lab Id:	00544-05	00502-27	00512-16	00512-18	00512-21	00512-23

Parameter	Units	6-GW9-03	6-RAV-SB1-01	6-RAV-SB10-01	6-RAV-SB11-01	6-RAV-SB12-01	6-RAV-SB13-02
SEMIVOLATILES Cont.							
1-CHLORO-3-METHYLPHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
2-METHYLNAPHTHALENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	11000 J
HEXACHLOROCYCLOPENTADIENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,4,6-TRICHLOROPHENOL	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,4,5-TRICHLOROPHENOL	UG/KG	980 U	960 UR	860 U	930 UJ	1000 U	9200 UJ
1-CHLORONAPHTHALENE	UG/KG	410 U	400 UR	350 U	380 UJ	410 U	110 J
1-NITROANILINE	UG/KG	980 U	960 UR	860 U	930 U	1000 U	9200 UJ
DIMETHYL PHTHALATE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1-CENAPHTHYLENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,6-DINITROTOLUENE	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
1-NITROANILINE	UG/KG	980 U	960 UR	860 U	930 U	1000 U	9200 UJ
1-CENAPHTHENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,4-DINITROPHENOL	UG/KG	980 UJ	960 UR	860 U	930 U	1000 U	9200 UJ
1-NITROPHENOL	UG/KG	980 UJ	960 UR	860 U	930 U	1000 U	9200 UJ
DIBENZOFURAN	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,4-DINITROTOLUENE	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
DIETHYL PHTHALATE	UG/KG	410 U	400 UR	350 U	380 U	410 U	34 J
1-CHLOROPHENYL PHENYL ETHER	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
1-TUORENE	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
1-NITROANILINE	UG/KG	980 UJ	960 UR	860 U	930 U	1000 U	9200 UJ
6-DINITRO-2-METHYLPHENOL	UG/KG	980 UJ	960 UR	860 U	930 U	1000 U	9200 UJ
1-NITRISODIPHENYLAMINE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1-BROMOPHENYL PHENYL ETHER	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
1,2,4,5-TETRACHLOROBENZENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
PENTACHLOROPHENOL	UG/KG	980 UJ	960 UR	860 U	930 UJ	1000 UJ	9200 UJ
PHENANTHRENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	31 J
ANTHRACENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
DI-N-BUTYL PHTHALATE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
FLUORANTHENE	UG/KG	410 UJ	400 UR	350 UJ	380 U	410 U	3800 UJ
CARBAZOLE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
PYRENE	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
BUTYL BENZYL PHTHALATE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
3,3-DICHLOROBENZIDINE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
BENZO(A)ANTHRACENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
CHRYSENE	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	3800 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	410 UJ	400 UR	350 U	59 J	96 J	130 J
DI-N-OCTYL PHTHALATE	UG/KG	410 UJ	400 UR	350 U	380 U	410 U	110 J
BENZO(B)FLUORANTHENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
BENZO(K)FLUORANTHENE	UG/KG	410 U	400 UR	350 U	380 UJ	410 U	3800 UJ
BENZO(A)PYRENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
INDENO(1,2,3-CD) PYRENE	UG/KG	410 U	400 UR	350 U	380 U	410 U	3800 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	410 U	400 UR	350 UJ	380 U	410 U	3800 UJ
BENZO(G,H,I)PERYLENE	UG/KG	410 U	400 UR	350 UJ	380 U	410 U	3800 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB14-01	6-RAV-SB15-02	6-RAV-SB16-02	6-RAV-SB2-02	6-RAV-SB3-01	6-RAV-SB3-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/14/92	10/09/92	10/09/92	9/10/92	9/11/92	9/11/92
Lab Id:	00512-25	00570-06	00570-08	00502-29	00502-31	00502-32

Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
BETA-BHC	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
DELTA-BHC	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
HEPTACHLOR	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
ALDRIN	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
ENDOSULFAN I	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
DELDRIN	UG/KG	8 U	3.4 U	4.4 UJ	3.9 U	3.5 UJ
4'-DDE	UG/KG	67	3.4 U	4.4 UJ	3.9 U	3.5 UJ
ENDRIN	UG/KG	8 U	3.4 U	4.4 UJ	3.9 U	3.5 UJ
ENDOSULFAN II	UG/KG	8 U	3.4 U	4.4 UJ	3.9 U	3.5 UJ
4'-DDD	UG/KG	8 U	3.4 U	4.4 UJ	3.9 U	3.5 UJ
ENDOSULFAN SULFATE	UG/KG	8 U	3.4 U	4.4 UJ	3.9 U	3.5 UJ
4'-DDT	UG/KG	77 J	3.4 U	4.4 UJ	3.9 U	3.5 UJ
METHOXYCHLOR	UG/KG	41 U	1.7 U	2.3 UJ	2 U	1.8 UJ
ENDRIN KETONE	UG/KG	8 U	3.4 U	4.4 UJ	3.9 U	3.5 UJ
ENDRIN ALDEHYDE	UG/KG	8 U	3.4 U	4.4 UJ	3.9 U	3.5 UJ
ALPHA CHLORDANE	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
GAMMA CHLORDANE	UG/KG	4.1 U	1.7 U	2.3 UJ	2 U	1.8 UJ
OXAPHENE	UG/KG	410 U	170 U	230 UJ	200 U	180 UJ
CB-1016	UG/KG	80 U	34 U	44 UJ	39 U	35 UJ
CB-1221	UG/KG	160 U	69 U	90 UJ	79 U	70 UJ
CB-1232	UG/KG	80 U	34 U	44 UJ	39 U	35 UJ
PCB-1242	UG/KG	80 U	34 U	44 UJ	39 U	35 UJ
PCB-1248	UG/KG	80 U	34 U	44 UJ	39 U	35 UJ
PCB-1254	UG/KG	80 U	34 U	44 UJ	39 U	35 UJ
PCB-1260	UG/KG	80 U	34 U	44 UJ	39 U	35 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
BROMOMETHANE	UG/KG	13 U	10 U	13 U	12 U	11 U
VINYL CHLORIDE	UG/KG	13 U	10 U	13 U	12 U	11 U
CHLOROETHANE	UG/KG	13 U	10 U	13 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	13 U	10 U	13 U	12 UJ	11 U
ACETONE	UG/KG	13 U	10 U	13 U	12 UJ	11 UJ
CARBON DISULFIDE	UG/KG	13 U	10 U	13 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	13 U	10 U	13 U	12 U	11 U
1,1-DICHLOROETHANE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
1,2-DICHLOROETHENE	UG/KG	13 U	10 U	13 U	12 U	11 U
CHLOROFORM	UG/KG	13 U	10 U	13 U	12 U	11 U
1,2-DICHLOROETHANE	UG/KG	13 U	10 U	13 U	12 U	11 U
2-BUTANONE	UG/KG	13 U	10 U	13 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB14-01	6-RAV-SB15-02	6-RAV-SB16-02	6-RAV-SB2-02	6-RAV-SB3-01	6-RAV-SB3-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/14/92	10/09/92	10/09/92	9/10/92	9/11/92	9/11/92
Lab Id:	00512-25	00570-06	00570-08	00502-29	00502-31	00502-32
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	13 U	10 U	13 U	12 U	11 U
CARBON TETRACHLORIDE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
BROMODICHLOROMETHANE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	13 U	10 U	13 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	13 U	10 U	13 U	12 U	11 U
TRICHLOROETHENE	UG/KG	13 UJ	10 U	1 J	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
BENZENE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	13 U	10 U	13 U	12 UJ	11 UJ
BROMOFORM	UG/KG	13 UJ	10 U	13 U	12 U	11 U
1-METHYL-2-PENTANONE	UG/KG	13 U	10 U	13 U	12 U	11 U
1-HEXANONE	UG/KG	13 U	10 U	13 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	13 U	10 U	13 U	12 U	11 U
TOLUENE	UG/KG	13 U	10 U	13 U	12 U	11 U
CHLOROENZENE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
ETHYLBENZENE	UG/KG	13 U	10 U	13 U	12 U	11 U
STYRENE	UG/KG	13 UJ	10 U	13 U	12 U	11 U
TOTAL XYLENES	UG/KG	13 UJ	10 U	13 U	12 U	11 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	400 UJ	340 UJ	440 U	390 U	340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	400 U	340 U	440 U	390 U	340 U
2-CHLOROPHENOL	UG/KG	400 U	340 U	440 U	390 U	340 U
1,3-DICHLOROBENZENE	UG/KG	400 U	340 U	440 U	390 U	340 U
1,4-DICHLOROBENZENE	UG/KG	400 U	340 U	440 U	390 U	340 U
1,2-DICHLOROBENZENE	UG/KG	400 U	340 U	440 U	390 U	340 U
2-METHYLPHENOL	UG/KG	400 U	340 U	440 U	390 U	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	400 U	340 U	440 U	390 U	340 U
4-METHYLPHENOL	UG/KG	400 U	340 U	440 U	390 U	340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	400 U	340 UJ	440 U	390 U	340 U
HEXACHLOROETHANE	UG/KG	400 U	340 U	440 U	390 U	340 U
NITROBENZENE	UG/KG	400 U	340 U	440 U	390 U	340 U
ISOPHORONE	UG/KG	400 U	340 U	440 U	390 U	340 U
2-NITROPHENOL	UG/KG	400 U	340 U	440 U	390 U	340 U
2,4-DIMETHYLPHENOL	UG/KG	400 U	340 U	440 U	390 U	340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	400 U	340 U	440 U	390 U	340 U
2,4-DICHLOROPHENOL	UG/KG	400 U	340 U	440 U	390 U	340 U
1,2,4-TRICHLOROBENZENE	UG/KG	400 U	340 U	440 U	390 U	340 U
NAPHTHALENE	UG/KG	400 U	340 U	440 U	390 U	340 U
4-CHLORANILINE	UG/KG	400 U	340 U	440 U	390 U	340 U
HEXACHLOROBUTADIENE	UG/KG	400 U	340 U	440 U	390 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB14-01	6-RAV-SB15-02	6-RAV-SB16-02	6-RAV-SB2-02	6-RAV-SB3-01	6-RAV-SB3-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/14/92	10/09/92	10/09/92	9/10/92	9/11/92	9/11/92	
Lab Id:	00512-25	00570-06	00570-08	00502-29	00502-31	00502-32	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
2-METHYLNAPHTHALENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
2,4,6-TRICHLOROPHENOL	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
1,4,5-TRICHLOROPHENOL	UG/KG	970 U	820 U	1100 U	950 U	830 U	940 U
1-CHLORONAPHTHALENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
1-NITROANILINE	UG/KG	970 U	820 U	1100 U	950 U	830 U	940 U
DIMETHYL PHTHALATE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
ACENAPHTHYLENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
2,6-DINITROTOLUENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
1-NITROANILINE	UG/KG	970 U	820 U	1100 U	950 U	830 U	940 U
ACENAPHTHENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
4-DINITROPHENOL	UG/KG	970 U	820 U	1100 U	950 U	830 UJ	940 U
1-NITROPHENOL	UG/KG	970 U	820 U	1100 U	950 U	830 UJ	940 U
DIBENZOFURAN	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
1,4-DINITROTOLUENE	UG/KG	400 U	340 U	440 U	390 UJ	340 U	390 UJ
DIETHYL PHTHALATE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
1-CHLOROPHENYL PHENYL ETHER	UG/KG	400 U	340 U	440 U	390 UJ	340 U	390 UJ
FLUORENE	UG/KG	400 U	340 U	440 U	390 UJ	340 UJ	390 UJ
1-NITROANILINE	UG/KG	970 U	820 U	1100 U	950 U	830 U	940 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG	970 U	820 U	1100 U	950 U	830 U	940 U
1-NITRISODIPHENYLAMINE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
1-BROMOPHENYL PHENYL ETHER	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
1,2,3,4,5,6-HEXACHLOROBENZENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
PENTACHLOROPHENOL	UG/KG	970 UJ	820 U	1100 U	950 U	830 U	940 U
PHENANTHRENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
ANTHRACENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
FLUORANTHENE	UG/KG	61 J	340 U	440 U	390 UJ	340 U	390 UJ
CARBAZOLE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
PYRENE	UG/KG	73 J	340 U	440 U	390 U	340 UJ	390 U
BUTYL BENZYL PHTHALATE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
3,3-DICHLOROBENZIDINE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
BENZO(A)ANTHRACENE	UG/KG	45 J	340 U	440 U	390 U	340 U	390 U
CHRYSÈNE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	380 J	340 U	440 U	390 U	340 UJ	43 J
DI-N-OCTYL PHTHALATE	UG/KG	400 U	340 U	440 U	390 UJ	340 U	390 UJ
BENZO(B)FLUORANTHENE	UG/KG	110 J	340 U	440 U	390 U	340 U	390 U
BENZO(K)FLUORANTHENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
BENZO(A)PYRENE	UG/KG	55 J	340 U	440 U	390 U	340 U	390 U
INDENO(1,2,3-CD)PYRENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
DIBENZ(AH)ANTHRACENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG	400 U	340 U	440 U	390 U	340 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB4A-01	6-RAV-SB5-02	6-RAV-SB6-02	6-RAV-SB7-02	6-RAV-SB8-02	6-RAV-SB9-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	
Lab Id:	00512-02	00512-05	00512-07	00512-09	00512-11	00512-13	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
BETA-BHC	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
DELTA-BHC	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
GAMMA-BHC(LINDANE)	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
HEPTACHLOR	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
ALDRIN	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
HEPTACHLOR EPOXIDE	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
ENDOSULFAN I	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
DIELDRIN	UG/KG	4.7 U	3.8 UJ	3.7 UJ	3.5 U	3.9 UJ	4.4 U
1,4'-DDE	UG/KG	16	3.8 UJ	3.7 UJ	16	3.9 UJ	4.4 U
ENDRIN	UG/KG	4.7 U	3.8 UJ	3.7 UJ	3.5 U	3.9 UJ	4.4 U
ENDOSULFAN II	UG/KG	4.7 U	3.8 UJ	3.7 UJ	3.5 U	3.9 UJ	4.4 U
1,4'-DDD	UG/KG	16	3.8 UJ	3.7 UJ	3.5 U	3.9 UJ	4.4 U
ENDOSULFAN SULFATE	UG/KG	4.7 U	3.8 UJ	3.7 UJ	3.5 U	3.9 UJ	4.4 U
1,4'-DDT	UG/KG	21 J	3.8 UJ	6.9 J	24 J	3.9 UJ	4.4 U
METHOXYCHLOR	UG/KG	24 U	19 UJ	19 UJ	18 U	20 UJ	23 U
ENDRIN KETONE	UG/KG	4.7 U	3.8 UJ	3.7 UJ	3.5 U	3.9 UJ	4.4 U
ENDRIN ALDEHYDE	UG/KG	4.7 U	3.8 UJ	3.7 UJ	3.5 U	3.9 UJ	4.4 U
ALPHA CHLORDANE	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
GAMMA CHLORDANE	UG/KG	2.4 U	1.9 UJ	1.9 UJ	1.8 U	2 UJ	2.3 U
TOXAPHENE	UG/KG	240 U	190 UJ	190 UJ	180 U	200 UJ	230 U
CB-1016	UG/KG	47 U	38 UJ	37 UJ	35 U	39 UJ	44 U
CB-1221	UG/KG	95 U	76 UJ	75 UJ	72 U	79 UJ	90 U
CB-1232	UG/KG	47 U	38 UJ	37 UJ	35 U	39 UJ	44 U
PCB-1242	UG/KG	47 U	38 UJ	37 UJ	35 U	39 UJ	44 U
PCB-1248	UG/KG	47 U	38 UJ	37 UJ	35 U	39 UJ	44 U
PCB-1254	UG/KG	47 U	38 UJ	37 UJ	35 U	39 UJ	44 U
PCB-1260	UG/KG	47 U	38 UJ	37 UJ	35 U	39 UJ	44 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 UJ	11 UJ	11 UJ	11 UJ	12 UJ	12 UJ
BROMOMETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
VINYL CHLORIDE	UG/KG	12 U	11 U	11 U	11 U	12 UJ	12 UJ
CHLOROETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
METHYLENE CHLORIDE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
ACETONE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
CARBON DISULFIDE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
1,1-DICHLOROETHENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
1,2-DICHLOROETHENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
CHLOROFORM	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
2-BUTANONE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB4A-01	6-RAV-SB5-02	6-RAV-SB6-02	6-RAV-SB7-02	6-RAV-SB8-02	6-RAV-SB9-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92
Lab Id:	00512-02	00512-05	00512-07	00512-09	00512-11	00512-13

Parameter	Units	6-RAV-SB4A-01	6-RAV-SB5-02	6-RAV-SB6-02	6-RAV-SB7-02	6-RAV-SB8-02	6-RAV-SB9-01
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
CARBON TETRACHLORIDE	UG/KG	12 UJ	11 UJ	11 UJ	11 U	12 U	12 U
BROMODICHLOROMETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
1,2-DICHLOROPROPANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 UJ	11 UJ	11 UJ	11 UJ	12 UJ	12 UJ
TRICHLOROETHENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
BENZENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 UJ	11 UJ	11 UJ	11 UJ	12 UJ	12 UJ
BROMOFORM	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
4-METHYL-2-PENTANONE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
2-HEXANONE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
TETRACHLOROETHENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
TOLUENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
CHLOROBENZENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
ETHYLBENZENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
STYRENE	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
TOTAL XYLENES	UG/KG	12 U	11 U	11 U	11 U	12 U	12 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
2-CHLOROPHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
1,3-DICHLOROBENZENE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
1,4-DICHLOROBENZENE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
1,2-DICHLOROBENZENE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
2-METHYLPHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
4-METHYLPHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
HEXACHLOROETHANE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
NITROBENZENE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
ISOPHORONE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
2-NITROPHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
2,4-DIMETHYLPHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
2,4-DICHLOROPHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
1,2,4-TRICHLOROBENZENE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
NAPHTHALENE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
4-CHLORANILINE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U
HEXACHLOROBUTADIENE	UG/KG	470 U	380 U	370 U	350 U	390 U	440 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RAV-SB4A-01	6-RAV-SB5-02	6-RAV-SB6-02	6-RAV-SB7-02	6-RAV-SB8-02	6-RAV-SB9-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92
Lab Id:	00512-02	00512-05	00512-07	00512-09	00512-11	00512-13
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U
2-METHYLNAPHTHALENE	UG/KG	470 U	380 U	370 U	350 U	390 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	470 U	380 U	370 U	350 U	390 U
2,4,6-TRICHLOROPHENOL	UG/KG	470 U	380 U	370 U	350 U	390 U
2,4,5-TRICHLOROPHENOL	UG/KG	1100 UJ	920 U	900 U	860 UJ	940 UJ
2-CHLORONAPHTHALENE	UG/KG	470 UJ	380 U	370 U	350 UJ	390 UJ
2-NITROANILINE	UG/KG	1100 U	920 U	900 U	860 U	940 U
DIMETHYL PHTHALATE	UG/KG	470 U	380 U	370 U	350 U	390 U
ACENAPHTHYLENE	UG/KG	470 U	380 U	370 U	350 U	390 U
1,6-DINITROTOLUENE	UG/KG	470 U	380 U	370 U	350 U	390 U
1-NITROANILINE	UG/KG	1100 U	920 U	900 U	860 U	940 U
ACENAPHTHENE	UG/KG	470 U	380 U	370 U	350 U	390 U
1,4-DINITROPHENOL	UG/KG	1100 U	920 U	900 U	860 U	940 U
1-NITROPHENOL	UG/KG	1100 U	920 U	900 U	860 U	940 U
DIBENZOFURAN	UG/KG	470 U	380 U	370 U	350 U	390 U
2,4-DINITROTOLUENE	UG/KG	470 U	380 U	370 U	350 U	390 U
DIETHYL PHTHALATE	UG/KG	470 U	380 U	370 U	350 U	390 U
1-CHLOROPHENYL PHENYL ETHER	UG/KG	470 U	380 U	370 U	350 U	390 U
FLUORENE	UG/KG	470 U	380 U	370 U	350 U	390 U
1-NITROANILINE	UG/KG	1100 U	920 U	900 U	860 U	940 U
1,6-DINITRO-2-METHYLPHENOL	UG/KG	1100 U	920 U	900 U	860 U	940 U
1-NITRISODIPHENYLAMINE	UG/KG	470 U	380 U	370 U	350 U	390 U
1-BROMOPHENYL PHENYL ETHER	UG/KG	470 U	380 U	370 U	350 U	390 U
1,2,4-TRICHLOROBENZENE	UG/KG	470 U	380 U	370 U	350 U	390 U
PENTACHLOROPHENOL	UG/KG	1100 UJ	920 U	900 U	860 UJ	940 UJ
PHENANTHRENE	UG/KG	470 U	380 U	370 U	350 U	390 U
ANTHRACENE	UG/KG	470 U	380 U	370 U	350 U	390 U
DI-N-BUTYL PHTHALATE	UG/KG	470 U	380 U	370 U	350 U	390 U
FLUORANTHENE	UG/KG	470 U	380 UJ	370 UJ	350 U	390 U
CARBAZOLE	UG/KG	470 U	380 U	370 U	350 U	390 U
PYRENE	UG/KG	470 U	380 U	370 U	350 U	390 U
BUTYL BENZYL PHTHALATE	UG/KG	470 U	380 U	370 U	350 U	390 U
3,3-DICHLOROBENZIDINE	UG/KG	470 U	380 U	370 U	350 U	390 U
BENZO(A)ANTHRACENE	UG/KG	470 U	380 U	370 U	350 U	390 U
CHRYSENE	UG/KG	470 U	380 U	370 U	350 U	390 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	100 J	380 U	76 J	44 J	390 U
DI-N-OCTYL PHTHALATE	UG/KG	470 U	380 U	370 U	350 U	390 U
BENZO(B)FLUORANTHENE	UG/KG	470 U	380 U	370 U	350 U	390 U
BENZO(K)FLUORANTHENE	UG/KG	470 UJ	380 U	370 U	350 UJ	390 UJ
BENZO(A)PYRENE	UG/KG	470 U	380 U	370 U	350 U	390 U
INDENO(1,2,3-CD) PYRENE	UG/KG	470 U	380 U	370 U	350 U	390 U
DIBENZ(A,H)ANTHRACENE	UG/KG	470 U	380 UJ	370 UJ	350 U	390 U
BENZO(G,H,I)PERYLENE	UG/KG	470 U	380 UJ	370 UJ	350 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1 UJ	19 UJ	ND	ND		0/126
BETA-BHC	UG/KG	1 UJ	19 UJ	ND	ND		0/126
DELTA-BHC	UG/KG	1 UJ	19 UJ	ND	ND		0/126
GAMMA-BHC(LINDANE)	UG/KG	1 UJ	19 UJ	ND	ND		0/126
HEPTACHLOR	UG/KG	1 UJ	19 UJ	ND	ND		0/126
ALDRIN	UG/KG	1 UJ	19 UJ	ND	ND		0/126
HEPTACHLOR EPOXIDE	UG/KG	1 UJ	19 UJ	ND	ND		0/126
ENDOSULFAN I	UG/KG	1 UJ	19 UJ	ND	ND		0/126
DIELDRIN	UG/KG	2 UJ	20 U	3.4 J	280 J	6-RAV-SB13-02	3/126
4,4'-DDE	UG/KG	2 UJ	38 UJ	3.5	67	6-RAV-SB14-01	9/126
ENDRIN	UG/KG	2 UJ	38 UJ	ND	ND		0/126
ENDOSULFAN II	UG/KG	2 UJ	38 UJ	ND	ND		0/126
4,4'-DDD	UG/KG	2 UJ	38 UJ	16	16	6-RAV-SB4A-01	1/126
ENDOSULFAN SULFATE	UG/KG	2 UJ	38 UJ	ND	ND		0/126
4,4'-DDT	UG/KG	2 UJ	38 UJ	4 J	77 J	6-RAV-SB14-01	9/126
METHOXYCHLOR	UG/KG	10 UJ	190 UJ	ND	ND		0/126
ENDRIN KETONE	UG/KG	2 UJ	38 UJ	ND	ND		0/126
ENDRIN ALDEHYDE	UG/KG	2 UJ	38 UJ	ND	ND		0/126
ALPHA CHLORDANE	UG/KG	1 UJ	19 UJ	ND	ND		0/126
GAMMA CHLORDANE	UG/KG	1 UJ	19 UJ	ND	ND		0/126
TOXAPHENE	UG/KG	100 UJ	1900 UJ	ND	ND		0/126
PCB-1016	UG/KG	20 UJ	380 UJ	ND	ND		0/126
PCB-1221	UG/KG	40 UJ	760 UJ	ND	ND		0/126
PCB-1232	UG/KG	20 UJ	380 UJ	ND	ND		0/126
PCB-1242	UG/KG	20 UJ	380 UJ	ND	ND		0/126
PCB-1248	UG/KG	20 UJ	380 UJ	ND	ND		0/126
PCB-1254	UG/KG	20 UJ	380 UJ	ND	ND		0/126
PCB-1260	UG/KG	20 UJ	380 UJ	46 J	100	6-201E-SB5-01	4/126
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	10 U	2800 U	490 J	490 J	6-203OSA-SB19-01	1/126
BROMOMETHANE	UG/KG	10 U	2800 U	4 J	1300	6-203OSA-SB19-01	3/126
VINYL CHLORIDE	UG/KG	10 U	2800 U	ND	ND		0/126
CHLOROETHANE	UG/KG	10 U	2800 U	ND	ND		0/126
METHYLENE CHLORIDE	UG/KG	10 U	2800 U	340 J	340 J	6-203OSA-SB19-01	1/126
ACETONE	UG/KG	10 U	2800 U	4 J	5000 J	6-203OSA-SB19-01	27/126
CARBON DISULFIDE	UG/KG	10 U	2800 U	2 J	2 J	6-GW25-05	2/126
1,1-DICHLOROETHENE	UG/KG	10 U	2800 U	ND	ND		0/126
1,1-DICHLOROETHANE	UG/KG	10 U	2800 U	ND	ND		0/126
1,2-DICHLOROETHENE	UG/KG	10 U	2800 U	5 J	5 J	6-GW10-02A	1/126
CHLOROFORM	UG/KG	10 U	2800 U	ND	ND		0/126
1,2-DICHLOROETHANE	UG/KG	10 U	2800 UJ	ND	ND		0/126
2-BUTANONE	UG/KG	10 U	2800 U	1500 J	1500 J	6-203OSA-SB19-01	1/126

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	10 U	2800 U	1 J	1 J	6-201E-SB10-01	1/126
CARBON TETRACHLORIDE	UG/KG	10 U	2800 U	ND	ND		0/126
BROMODICHLOROMETHANE	UG/KG	10 U	2800 U	ND	ND		0/126
1,2-DICHLOROPROPANE	UG/KG	10 U	2800 U	ND	ND		0/126
CIS-1,3-DICHLOROPROPENE	UG/KG	10 U	2800 U	ND	ND		0/126
TRICHLOROETHENE	UG/KG	10 U	2800 U	1 J	1 J	6-RAV-SB16-02	1/126
DIBROMOCHLOROMETHANE	UG/KG	10 U	2800 U	ND	ND		0/126
1,1,2-TRICHLOROETHANE	UG/KG	10 U	2800 U	ND	ND		0/126
BENZENE	UG/KG	10 U	2800 U	1 J	1 J	6-201N-SB10-02	1/126
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U	2800 U	ND	ND		0/126
FORMOFORM	UG/KG	10 U	2800 U	ND	ND		0/126
2-METHYL-2-PENTANONE	UG/KG	10 U	2000 U	2000 J	2000 J	6-RAV-SB13-02	1/126
2-HEXANONE	UG/KG	10 U	2800 U	ND	ND		0/126
TETRACHLOROETHENE	UG/KG	10 U	2800 U	9 J	11000	6-203OSA-SB12-01	2/126
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U	2800 U	ND	ND		0/126
TOLUENE	UG/KG	10 U	2800 U	1 J	34 J	6-203OSA-SB19-01	4/126
CHLOROBENZENE	UG/KG	10 U	2800 U	ND	ND		0/126
ETHYLBENZENE	UG/KG	10 U	2800 U	ND	ND		0/126
STYRENE	UG/KG	10 U	2800 U	ND	ND		0/126
TOTAL XYLENES	UG/KG	10 U	2000 U	950 J	950 J	6-RAV-SB13-02	1/126
<u>SEMIVOLATILES</u>							
BENZYL ALCOHOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
BIS(2-CHLOROETHYL) ETHER	UG/KG	330 UR	3800 UJ	ND	ND		0/126
2-CHLOROPHENOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1,3-DICHLOROBENZENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1,4-DICHLOROBENZENE	UG/KG	330 UR	3800 UJ	49 J	300 J	6-203OSA-SB12-01	3/126
1,2-DICHLOROBENZENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
2-METHYLPHENOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 UR	3800 UJ	ND	ND		0/126
4-METHYLPHENOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
HEXACHLOROETHANE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
NITROBENZENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
ISOPHORONE	UG/KG	330 UR	2100 U	7700 J	7700 J	6-RAV-SB13-02	1/126
2-NITROPHENOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
2,4-DIMETHYLPHENOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
2,4-DICHLOROPHENOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1,2,4-TRICHLOROBENZENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
NAPHTHALENE	UG/KG	330 UR	2100 U	9600 J	9600 J	6-RAV-SB13-02	1/126
4-CHLORANILINE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
HEXACHLOROBUTADIENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

CLEJ-01272-3.13-08/20/93

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
2-METHYLNAPHTHALENE	UG/KG	330 UR	2100 U	37 J	11000 J	6-RAV-SB13-02	2/126
HEXACHLOROCYCLOPENTADIENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
2,4,6-TRICHLOROPHENOL	UG/KG	330 UR	3800 UJ	ND	ND		0/126
2,4,5-TRICHLOROPHENOL	UG/KG	800 U	9200 UJ	ND	ND		0/126
1-CHLORONAPHTHALENE	UG/KG	330 UR	2100 U	110 J	110 J	6-RAV-SB13-02	1/126
1-NITROANILINE	UG/KG	800 U	9200 UJ	ND	ND		0/126
DIMETHYL PHTHALATE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
ACENAPHTHYLENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1,6-DINITROTOLUENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1-NITROANILINE	UG/KG	800 U	9200 UJ	ND	ND		0/126
ACENAPHTHENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1,4-DINITROPHENOL	UG/KG	800 UJ	9200 UJ	ND	ND		0/126
1-NITROPHENOL	UG/KG	800 U	9200 UJ	ND	ND		0/126
DIBENZOPURAN	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1,4-DINITROTOLUENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
DIETHYL PHTHALATE	UG/KG	330 UR	2100 U	34 J	34 J	6-RAV-SB13-02	1/126
1-CHLOROPHENYL PHENYL ETHER	UG/KG	330 UR	3800 UJ	ND	ND		0/126
FLUORENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1-NITROANILINE	UG/KG	800 U	9200 UJ	ND	ND		0/126
1,6-DINITRO-2-METHYLPHENOL	UG/KG	800 U	9200 UJ	ND	ND		0/126
1-NITRISODIPHENYLAMINE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
1-BROMOPHENYL PHENYL ETHER	UG/KG	330 UR	3800 UJ	ND	ND		0/126
HEXACHLOROBENZENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
PENTACHLOROPHENOL	UG/KG	800 U	9200 UJ	ND	ND		0/126
PHENANTHRENE	UG/KG	330 UR	2100 U	31 J	70 J	6-203OSA-SB7-01	2/126
ANTHRACENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
DI-N-BUTYL PHTHALATE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
FLUORANTHENE	UG/KG	330 UR	3800 UJ	61 J	85 J	6-203OSA-SB7-01	3/126
CARBAZOLE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
PYRENE	UG/KG	330 UR	3800 UJ	63 J	110 J	6-203OSA-SB7-01	3/126
BUTYL BENZYL PHTHALATE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
3,3-DICHLOROBENZIDINE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
BENZO(A)ANTHRACENE	UG/KG	330 UR	3800 UJ	45 J	96 J	6-203OSA-SB7-01	2/126
CHRYSENE	UG/KG	330 UR	3800 UJ	68 J	68 J	6-203OSA-SB7-01	1/126
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	330 UR	2100 U	43 J	1200 J	6-201E-SB1-01	30/126
DI-N-OCTYL PHTHALATE	UG/KG	330 UR	2100 UJ	110 J	110 J	6-RAV-SB13-02	1/126
BENZO(B)FLUORANTHENE	UG/KG	330 UR	3800 UJ	100 J	110 J	6-RAV-SB14-01	2/126
BENZO(K)FLUORANTHENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
BENZO(A)PYRENE	UG/KG	330 UR	3800 UJ	55 J	58 J	6-203OSA-SB7-01	2/126
INDENO(1,2,3-CD)PYRENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
DIBENZ(A,H)ANTHRACENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126
BENZO(G,H,I)PERYLENE	UG/KG	330 UR	3800 UJ	ND	ND		0/126

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201E-SB1-01	6-201E-SB10-01	6-201E-SB11-01	6-201E-SB12-01	6-201E-SB13-02	6-201E-SB14-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/12/92	9/12/92	9/12/92	9/13/92	9/13/92	9/13/92
	Lab Id:	00507-02	00507-22	00507-24	00510-02	00510-05	00510-07
Parameter	Units						
ALUMINUM	MG/KG	3410 J	333 J	325 J	825	4370	1840
ANTIMONY	MG/KG	2.3 U	2.9 U	2.4 JB	2.5 U	3.1 U	2.4 U
ARSENIC	MG/KG	0.61 U	0.64 U	0.67 U	0.57 U	3.2	0.58 U
BARIUM	MG/KG	1.7 JB	7.4 JB	1.6 JB	3.4 B	4.1 B	1.8 JB
BERYLLIUM	MG/KG	0.05 UJ	0.06 UJ	0.05 UJ	0.05 U	0.07 U	0.05 U
CADMIUM	MG/KG	0.33 JB	0.62 UJ	0.31 U	0.34 U	0.42 U	0.33 U
CALCIUM	MG/KG	31.7 UJ	405 JB	153 JB	756 B	17.2 B	10.4 B
CHROMIUM	MG/KG	1.6 B	1.2 B	0.73 B	0.99 JB	3.6 J	1.2 JB
COBALT	MG/KG	0.32 U	0.41 UJ	0.32 UJ	0.49 JB	0.45 UJ	0.35 UJ
COPPER	MG/KG	0.31 U	0.8 UJ	0.45 UJ	0.57 JB	0.92 JB	0.33 U
IRON	MG/KG	142 UJ	363 J	105 UJ	58.1	2080	167
LEAD	MG/KG	2.9 U	3.6 U	2 U	2.2	4.4	19.5
MAGNESIUM	MG/KG	27.1 B	26.9 B	14.9 U	13.5 JB	49.1 JB	19.1 JB
MANGANESE	MG/KG	0.1 UJ	9.7 J	0.62 UJ	0.56 B	1.1 B	0.67 B
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.3 UJ	1.6 UJ	1.3 UJ	1.4 U	1.8 U	1.4 U
POTASSIUM	MG/KG	26 JB	18.2 JB	26.3 JB	19.3 B	160 B	30.8 B
SELENIUM	MG/KG	1 UJ	1.1 U	1.1 U	0.95 U	1.1 UJ	0.97 U
SILVER	MG/KG	0.32 U	0.54 UJ	0.33 UJ	0.78 U	0.7 U	0.57 U
SODIUM	MG/KG	12.9 UJ	18.7 UJ	11.5 UJ	11.6 UJ	18 UJ	12 UJ
THALLIUM	MG/KG	0.41 U	0.43 U	0.44 U	0.38 U	0.43 U	0.39 U
VANADIUM	MG/KG	1.3 JB	2 UJ	0.79 UJ	0.53 B	7.5 B	1.7 B
ZINC	MG/KG	0.79 U	2 U	2.3 U	0.68 U	1.7 U	0.83 U

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-201E-SB15-01	6-201E-SB16-02	6-201E-SB17-02	6-201E-SB18-01	6-201E-SB19-02	6-201E-SB2-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/13/92	9/13/92	9/13/92	9/13/92	9/15/92	9/11/92
Lab Id:	00510-09	00510-11	00510-13	00510-15	00519-03	00507-04

Parameter	Units	6-201E-SB15-01	6-201E-SB16-02	6-201E-SB17-02	6-201E-SB18-01	6-201E-SB19-02	6-201E-SB2-01
ALUMINUM	MG/KG	2500	2150	571	2560	1460 J	2530 J
ANTIMONY	MG/KG	2.7 U	2.5 U	2.2 U	2.5 U	3.6 UJ	2.8 U
ARSENIC	MG/KG	0.67 U	0.6 U	0.62 U	0.57 U	0.49 U	0.64 U
BARIUM	MG/KG	3.3 B	3 B	0.91 JB	5.4 B	1.8 UJ	2.6 JB
BERYLLIUM	MG/KG	0.06 U	0.05 U	0.05 U	0.05 U	0.32 UJ	0.06 UJ
CADMIUM	MG/KG	0.36 U	0.34 U	0.3 U	0.35 U	0.39 JB	0.38 U
CALCIUM	MG/KG	2150	195 B	83.3 B	398 B	222 JB	21.6 UJ
CHROMIUM	MG/KG	2 J	2.8 J	0.56 UJ	2.3 J	1.6 U	0.88 B
COBALT	MG/KG	0.38 UJ	0.36 UJ	0.31 UJ	0.36 UJ	0.4 U	0.4 U
COPPER	MG/KG	0.4 JB	0.75 JB	0.33 JB	0.94 JB	0.78 UJ	1.3 UJ
COPPER	MG/KG	106	1060	145	344	218 J	187 UJ
LEAD	MG/KG	4.9	3.8	2.4	2.9	1.6 J	3.5 U
MAGNESIUM	MG/KG	36 JB	48.1 JB	10.3 JB	46.8 JB	31.9 JB	33.7 B
MANGANESE	MG/KG	0.39 B	1.5 B	0.48 B	1.1 B	1.2 UJ	0.12 UJ
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.5 U	1.4 U	1.2 U	1.4 U	1.6 U	1.6 UJ
POTASSIUM	MG/KG	21.2 B	88.6 B	17.2 B	59.5 B	38.6 JB	40.8 B
SELENIUM	MG/KG	1.1 U	1 U	1 U	0.95 U	0.82 U	1.1 UJ
SILVER	MG/KG	0.52 U	0.61 U	0.53 U	0.36 U	0.9 UJ	0.4 U
SODIUM	MG/KG	11.7 UJ	15.5 UJ	11.1 UJ	16.7 UJ	16.8 UJ	11.7 UJ
THALLIUM	MG/KG	0.45 U	0.4 U	0.41 UJ	0.38 U	0.33 UJ	0.42 U
VANADIUM	MG/KG	0.77 B	3.5 B	0.73 B	1.6 B	1.6 JB	1.1 JB
ZINC	MG/KG	3.8 B	0.94 U	0.68 U	1.6 U	0.78 U	1 U

CLEJ-01272-3.13-08/20/93

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-201E-SB20-02	6-201E-SB3-01	6-201E-SB4-01	6-201E-SB5-01	6-201E-SB6-02	6-201E-SB7-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/15/92	9/11/92	9/11/92	9/11/92	9/12/92	9/12/92	
Lab Id:	00519-06	00507-06	00507-08	00507-11	00507-13	00507-15	
Parameter	Units						
ALUMINUM	MG/KG	6380 J	3340 J	858 J	2970 J	1170 J	5810 J
ANTIMONY	MG/KG	2.8 U	2.3 U	2.9 U	2.5 U	2.6 U	2.6 U
ARSENIC	MG/KG	0.6 U	0.56 UJ	0.57 U	0.58 U	0.58 U	1.3 B
BARIUM	MG/KG	6.7 B	2.9 JB	10.6 JB	2.8 JB	2.2 JB	4.6 JB
BERYLLIUM	MG/KG	0.39 UJ	0.05 UJ	0.06 UJ	0.05 UJ	0.06 UJ	0.06 UJ
CADMIUM	MG/KG	0.64 JB	0.32 U	0.4 U	0.34 U	0.35 U	0.64 JB
CALCIUM	MG/KG	38.7 UJ	52.8 UJ	460 JB	47.8 UJ	88.4 UJ	33.4 UJ
CHROMIUM	MG/KG	6.2	1.7	0.75 UJ	1.7 B	0.67 UJ	3.4
COBALT	MG/KG	0.48 U	0.33 U	0.42 U	0.36 U	0.37 U	0.37 U
COPPER	MG/KG	0.88 UJ	0.32 U	0.65 UJ	0.34 U	2.4 JB	2.1 UJ
IRON	MG/KG	2160 J	232 UJ	328 J	298 J	210 UJ	855 J
LEAD	MG/KG	1.9 J	3.3 U	3.7 U	3.7 U	2.6 U	4.2 U
MAGNESIUM	MG/KG	122 JB	49.8 B	29.9 B	40.8 B	50.6 B	114 B
MANGANESE	MG/KG	2.3 JB	0.73 UJ	0.34 UJ	4.2 UJ	3.2 UJ	2.5 UJ
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.6 B	1.3 UJ	1.6 UJ	1.4 UJ	1.5 UJ	1.5 UJ
POTASSIUM	MG/KG	160 B	35.8 JB	20.7 JB	45.5 B	36.9 JB	155 B
SELENIUM	MG/KG	0.99 U	0.94 U	0.95 U	0.96 U	0.97 U	0.93 U
SILVER	MG/KG	1.2 UJ	0.33 U	0.67 UJ	0.36 U	0.37 U	0.37 U
SODIUM	MG/KG	20.7 UJ	10.4 UJ	32.7 UJ	9.2 UJ	10.2 UJ	14.3 UJ
THALLIUM	MG/KG	0.4 UJ	0.37 U	0.38 U	0.41 JB	0.39 UJ	0.37 UJ
VANADIUM	MG/KG	7.2 B	4.1 JB	1.2 JB	2.3 JB	1.3 JB	5.1 JB
ZINC	MG/KG	1.9 U	0.73 U	1.6 U	1.1 U	0.88 U	1.5 U

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-201E-SB8-01	6-201E-SB9-01	6-201N-SB1-01	6-201N-SB10-02	6-201N-SB11-07	6-201N-SB12-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/12/92	9/12/92	9/11/92	9/11/92	10/13/92	10/13/92
Lab Id:	00507-17	00507-19	00502-02	00507-27	00573-12	00573-14

Parameter	Units	6-201E-SB8-01	6-201E-SB9-01	6-201N-SB1-01	6-201N-SB10-02	6-201N-SB11-07	6-201N-SB12-02
ALUMINUM	MG/KG	917 J	1510 J	5170 J	4830 J	672	857
ANTIMONY	MG/KG	3 U	2.7 U	2.8 U	2.8 U	9.4 U	9.7 U
ARSENIC	MG/KG	0.65 U	0.56 U	0.63 U	1.6 JB	0.62 UJ	0.63 U
BARIUM	MG/KG	1.8 JB	2.3 JB	119 J	7 JB	4 U	4.1 U
BERYLLIUM	MG/KG	0.06 UJ	0.06 UJ	0.06 B	0.06 UJ	0.19 U	0.2 UJ
CADMIUM	MG/KG	0.4 U	0.36 U	0.61 JB	0.78 UJ	0.57 U	0.59 U
CALCIUM	MG/KG	35.3 UJ	157 JB	285 B	63 UJ	10.7 U	10.8 U
CHROMIUM	MG/KG	2 B	0.74 B	6 J	5.2	3.2 U	3.7 U
COBALT	MG/KG	0.43 U	0.38 U	2 UJ	0.4 UJ	1.3 UJ	1.8 UJ
COPPER	MG/KG	0.46 UJ	0.78 UJ	3 UJ	0.72 UJ	0.95 UJ	1.2 UJ
IRON	MG/KG	371 J	322 J	1470	2480 J	257	126
LEAD	MG/KG	2.4 U	3 U	13	3.8 U	1.2	1.6
MAGNESIUM	MG/KG	31.1 B	32.8 B	148 JB	103 B	26.2 U	25.4 U
MANGANESE	MG/KG	6.6 J	1.8 UJ	7.1	1.8 U	0.95 U	0.79 U
MERCURY	MG/KG	0.02 U	0.02 U	0.02 B	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.7 UJ	1.5 UJ	4.5 UJ	1.6 UJ	3.2 U	3.4 U
POTASSIUM	MG/KG	45.9 B	39.4 B	144 B	73 B	97.8 UJ	81.6 UJ
SELENIUM	MG/KG	1.1 U	0.93 U	1.1 UJ	0.98 U	1 U	1 U
SILVER	MG/KG	0.43 U	0.38 U	2 U	0.47 UJ	1.9 U	2 U
SODIUM	MG/KG	9.5 UJ	14.1 UJ	50.6 JB	17 UJ	25.4 UJ	24.3 UJ
THALLIUM	MG/KG	0.43 U	0.37 UJ	0.42 U	0.39 U	0.41 UJ	0.42 UJ
VANADIUM	MG/KG	2 JB	1.9 JB	4.7 JB	6.9 JB	1.5 UJ	2 UJ
ZINC	MG/KG	0.93 U	0.82 U	30.3 J	1.4 U	0.95 U	0.79 U

CLEJ-01272-3.13-08/20/93

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201N-SB2-01	6-201N-SB3-01	6-201N-SB4-01	6-201N-SB5-03	6-201N-SB6-01	6-201N-SB7-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/10/92	9/10/92	9/10/92	9/10/92	9/11/92	9/11/92
	Lab Id:	00502-05	00502-07	00502-09	00502-11	00502-13	00502-15
Parameter	Units						
ALUMINUM	MG/KG	1740	2140	1740	1600	2350	5890
ANTIMONY	MG/KG	2.2 U	2.7 U	2.2 U	2.7 U	2.8 U	2.7 U
ARSENIC	MG/KG	0.64 U	0.58 U	0.42 U	0.46 U	0.57 U	0.57 U
BARIUM	MG/KG	3.3 U	4 U	3.3 U	4.1 U	4.2 U	4.1 U
BERYLLIUM	MG/KG	0.05 U	0.06 U	0.05 U	0.06 U	0.06 U	0.07 B
CADMIUM	MG/KG	0.47 U	0.57 U	0.47 U	0.59 U	0.6 JB	0.58 U
CALCIUM	MG/KG	16.4 U	82 B	55.8 U	28 U	15.5 U	52.3 U
CHROMIUM	MG/KG	1 B	1.4 B	1.4 B	1.5 B	0.75 B	4.5
COBALT	MG/KG	0.94 U	1.1 U	1.4 UJ	1.6 UJ	1.2 UJ	1.4 UJ
COPPER	MG/KG	0.94 UJ	1.5 UJ	0.94 UJ	1.2 UJ	0.8 UJ	0.97 UJ
IRON	MG/KG	96.3	76.5	323	535	205	1150
LEAD	MG/KG	2.2	2.1	2.5 J	1.5	1.5 J	2.3
MAGNESIUM	MG/KG	13.1 B	8.2 B	38.9 B	39.5 B	36.2 B	77.4 B
MANGANESE	MG/KG	0.47 JB	0.57 JB	0.94 JB	1.6 JB	0.99 JB	1.5 JB
MERCURY	MG/KG	0.03 B	0.05 B	0.02 B	0.02 U	0.02 U	0.03 B
NICKEL	MG/KG	2.7 UJ	3.6 UJ	3.8 UJ	3.3 UJ	3.4 U	4.8 UJ
POTASSIUM	MG/KG	60.2 U	73 U	59.9 U	74.9 U	76.2 U	96.6 JB
SELENIUM	MG/KG	1.1 U	0.97 UJ	0.71 U	0.77 U	0.96 U	0.94 UJ
SILVER	MG/KG	1.6 U	1.9 U	1.6 U	2 U	2 U	1.9 U
SODIUM	MG/KG	13.4 JB	9.5 U	12.7 JB	22.7 JB	10.1 JB	36.5 JB
THALLIUM	MG/KG	0.43 U	0.39 U	0.28 U	0.31 U	0.38 U	0.38 U
VANADIUM	MG/KG	0.94 JB	1.1 JB	1.7 JB	1.6 JB	2.2 JB	5.4 JB
ZINC	MG/KG	0.63 U	2.9 U	0.94 U	1.2 U	1.4 U	2.3 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-201N-SB8-01	6-201N-SB9-01	6-201S-SB1-01	6-201S-SB11-01	6-201S-SB12-01	6-201S-SB3-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/11/92	9/11/92	9/15/92	9/13/92	9/13/92	9/15/92
	Lab Id:	00502-17	00502-19	00519-09	00510-26	00511-02	00519-12
Parameter	Units						
ALUMINUM	MG/KG	2840	1160	2790 J	2010	3150 J	6860 J
ANTIMONY	MG/KG	2.8 U	2.4 U	2.9 U	3 U	3.2 UJ	5.4 UJ
ARSENIC	MG/KG	0.65 U	0.64 U	0.73 B	0.56 U	0.48 U	0.67 U
ARIUM	MG/KG	4.1 U	3.7 U	5.9 B	5.5 B	3.2 UJ	7.7 B
ERYLLIUM	MG/KG	0.06 U	0.05 U	0.38 UJ	0.06 U	0.43 UJ	0.41 UJ
ADMIUM	MG/KG	0.79 JB	0.52 JB	0.39 U	0.4 U	0.44 U	0.44 JB
ALCIUM	MG/KG	31 U	61 U	5640 J	713 B	64.5 UJ	31.8 UJ
HROMIUM	MG/KG	1.4 B	1.4 B	2.9 U	1.2 B	3.6	6.5
OBALT	MG/KG	1.2 U	1 U	0.42 U	0.42 UJ	0.46 U	0.43 U
OPPER	MG/KG	0.99 UJ	0.87 UJ	1.2 UJ	0.4 U	1 JB	0.87 UJ
RON	MG/KG	57.4	156	1190 J	1060	335 J	892 J
EAD	MG/KG	4.7	3.2	13 J	4.1	3.8	3.9 J
IAGNESIUM	MG/KG	7.9 U	24.2 B	166 JB	26.8 B	49.8 JB	177 JB
IANGANESE	MG/KG	0.2 JB	0.7 JB	5.3 J	2.4 B	4.4 J	3.3 J
IERCURY	MG/KG	0.04 B	0.04 B	0.02 U	0.02 U	0.02 U	0.03 U
ICKEL	MG/KG	3.4 U	3 U	1.6 U	1.7 U	1.8 U	1.7 B
OTASSIUM	MG/KG	75.5 U	66.7 U	89.4 B	14.2 B	55.6 JB	210 B
ELENIUM	MG/KG	1.1 U	1.1 U	1 UJ	0.94 U	0.79 U	1.1 U
LVER	MG/KG	2 U	1.7 U	1.1 UJ	0.7 U	1.2 UJ	1.1 UJ
ODIUM	MG/KG	15 JB	20.6 JB	34.2 UJ	12.5 UJ	23.4 UJ	23.4 UJ
HALLIUM	MG/KG	0.43 U	0.43 U	0.41 UJ	0.37 U	0.32 U	0.44 UJ
VANADIUM	MG/KG	1.4 JB	0.87 U	3.9 JB	2.6 B	3.3 JB	4.7 B
ZINC	MG/KG	0.79 U	1.2 U	4.1 UJ	0.73 B	1.7 UJ	2.4 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-201S-SB4-01	6-201S-SB5-01	6-201S-SB6-01	6-201S-SB9-01	6-203OSA-SB10-04	6-203OSA-SB10-06	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/15/92	9/14/92	9/14/92	9/14/92	9/12/92	9/12/92	
Lab Id:	00519-14	00510-17	00510-20	00510-23	00507-38	00507-39	
Parameter	Units						
ALUMINUM	MG/KG	937 J	2210	2090	3070	6010	2080
ANTIMONY	MG/KG	3.2 U	3.4 U	2.5 U	2.3 U	3.3 U	2.4 U
ARSENIC	MG/KG	0.49 U	0.63 U	0.64 U	0.62 U	3.4	0.53 UJ
BARIUM	MG/KG	1.9 UJ	2.4 JB	3.4 B	3.7 B	10.9 B	3.9 JB
BERYLLIUM	MG/KG	0.4 UJ	0.07 U	0.05 U	0.05 U	0.16 B	0.05 UJ
CADMIUM	MG/KG	0.43 U	0.46 U	0.34 U	0.31 U	1.6 UJ	0.67 UJ
CALCIUM	MG/KG	29.9 UJ	30.8 B	43.1 B	21.4 U	147 JB	49.5 UJ
CHROMIUM	MG/KG	2.8 U	1.2 JB	1.9 J	2.3	11.2	5.1
COPPER	MG/KG	0.45 U	0.48 UJ	0.35 UJ	0.33 UJ	0.47 UJ	0.34 UJ
COPPER	MG/KG	0.43 U	0.46 U	0.41 JB	0.74 U	2 UJ	1.1 UJ
COBALT	MG/KG	228 J	168	183	1720	8220 J	3450 J
LEAD	MG/KG	1.6 UJ	2.1	2.5	3.8	5.3 U	2.1 U
MAGNESIUM	MG/KG	25.4 UJ	29.8 JB	33.9 JB	49.8 B	196 B	77.3 B
MANGANESE	MG/KG	3.2 JB	0.97 B	0.73 B	1.6 B	3 UJ	1.3 UJ
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.8 U	1.9 U	1.4 U	1.3 U	1.8 UJ	1.3 UJ
POTASSIUM	MG/KG	32.1 JB	30.5 B	23.1 B	31.3 B	278 B	126 B
SELENIUM	MG/KG	0.82 U	1 UJ	1.1 UJ	1 U	1 U	0.88 U
SILVER	MG/KG	1.1 UJ	0.88 U	0.35 U	0.33 U	0.47 U	0.34 U
SODIUM	MG/KG	20.8 UJ	17.2 UJ	9.4 UJ	12.2 UJ	27.1 UJ	20.3 UJ
THALLIUM	MG/KG	0.33 UJ	0.42 U	0.43 U	0.42 U	0.42 UJ	0.35 UJ
VANADIUM	MG/KG	1.5 JB	1.6 B	1.7 B	4 B	26.8	10.1
ZINC	MG/KG	1.3 UJ	1.1 U	0.71 U	1.1 B	2.3 U	1.2 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Units	6-203OSA-SB11-02	6-203OSA-SB12-01	6-203OSA-SB12-08	6-203OSA-SB13-05	6-203OSA-SB13-12	6-203OSA-SB14-03
Sample No:		6-203OSA-SB11-02	6-203OSA-SB12-01	6-203OSA-SB12-08	6-203OSA-SB13-05	6-203OSA-SB13-12	6-203OSA-SB14-03
Depth:		N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:		9/11/92	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92
Lab Id:		00507-41	00496-19	00496-20	00511-17	00511-18	00511-20
ALUMINUM	MG/KG	3750	8660	5720	2300 J	2070 J	2510 J
ANTIMONY	MG/KG	2.4 U	4.4 U	2.8 U	2.9 UJ	2.4 UJ	3.3 UJ
ARSENIC	MG/KG	1.1 B	25.4 J	0.59 UJ	0.64 B	0.51 U	1.9 B
BARIUM	MG/KG	9.5 B	1100	8 B	3.9 JB	4.6 JB	3.8 JB
BERYLLIUM	MG/KG	0.05 UJ	3.1	0.1 B	0.41 UJ	0.35 UJ	0.5 UJ
CADMIUM	MG/KG	0.63 JB	2.2 J	0.51 JB	0.39 U	0.33 U	0.45 U
CALCIUM	MG/KG	37 UJ	911 B	73 U	18.2 UJ	23.4 UJ	31.7 UJ
CHROMIUM	MG/KG	4.4	9.8	8.5	2.4	1.9	4.4
COBALT	MG/KG	0.34 UJ	6.8 B	0.4 U	0.41 U	0.35 U	0.48 U
COPPER	MG/KG	1 UJ	39	1.5 UJ	0.39 U	0.6 JB	0.87 JB
IRON	MG/KG	2010	11200	724	688 J	824 J	2450 J
LEAD	MG/KG	3.7 U	5.4	4.1	3.3	1.5	2.4
MAGNESIUM	MG/KG	86 B	465 B	170 B	71.2 JB	60.4 JB	110 JB
MANGANESE	MG/KG	1.8 UJ	46.1	1.5 B	2 UJ	3.8 J	1.7 UJ
MERCURY	MG/KG	0.02 U	0.34 U	0.11 U	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.3 UJ	11.7 B	1.6 U	1.6 U	1.4 U	1.9 U
POTASSIUM	MG/KG	71.8 B	1270 B	249 B	65 JB	77.1 B	148 B
SELENIUM	MG/KG	0.84 U	10.5	0.98 U	0.92 U	0.84 U	1.1 U
SILVER	MG/KG	0.41 UJ	0.62 UJ	0.4 UJ	0.61 UJ	0.65 UJ	1.5 UJ
SODIUM	MG/KG	15.1 UJ	269 UJ	51.3 UJ	21 UJ	18.2 UJ	22.1 UJ
THALLIUM	MG/KG	0.34 UJ	0.76 JB	0.39 UJ	0.37 U	0.34 U	0.44 UJ
VANADIUM	MG/KG	6.3 JB	35.6	8.1 B	3.5 JB	2.2 JB	8.4 B
ZINC	MG/KG	1.4 U	8.6 U	1.8 U	0.98 UJ	2 UJ	1.2 UJ

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-203OSA-SB15-02	6-203OSA-SB15-06	6-203OSA-SB16-03	6-203OSA-SB16-07	6-203OSA-SB17-04	6-203OSA-SB17-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/11/92	9/11/92	9/11/92	9/11/92	9/9/92	9/9/92
Lab Id:	00507-43	00507-44	00507-46	00507-47	00496-06	00496-07

Parameter	Units	6-203OSA-SB15-02	6-203OSA-SB15-06	6-203OSA-SB16-03	6-203OSA-SB16-07	6-203OSA-SB17-04	6-203OSA-SB17-06
ALUMINUM	MG/KG	6620	1110	5330	135	3190	819
ANTIMONY	MG/KG	3 UJ	2.1 U	2.6 U	2.4 U	2.5 U	2.3 U
ARSENIC	MG/KG	1.2 B	0.5 U	1.2 B	0.47 U	0.87 JB	0.58 UJ
BARIUM	MG/KG	12.5 B	2.4 JB	10 B	0.58 UJ	5.1 B	2.4 JB
BERYLLIUM	MG/KG	0.05 UJ	0.05 UJ	0.06 UJ	0.05 UJ	0.06 U	0.05 U
CADMIUM	MG/KG	1 J	0.29 U	0.88 JB	0.33 U	0.7 JB	0.36 JB
CALCIUM	MG/KG	56.5 UJ	29.5 UJ	185 JB	10.2 UJ	132	100 U
CHROMIUM	MG/KG	7.4	1.7	5.3	2.3	3.3	1.9
COBALT	MG/KG	0.48 B	0.3 UJ	0.37 UJ	0.34 UJ	0.36 U	0.32 U
COPPER	MG/KG	1.6 UJ	0.31 UJ	1.2 UJ	0.33 U	0.79 UJ	0.51 UJ
IRON	MG/KG	3040	230 U	4120	158 U	1490	233
LEAD	MG/KG	3.3 U	1.6 U	2.8 U	2.3 U	2.5	1.8
MAGNESIUM	MG/KG	160 B	28.2 B	113 B	3.4 U	99.8 B	19.8 U
MANGANESE	MG/KG	3.4 UJ	1.1 UJ	2.5 UJ	0.54 UJ	2.4 B	0.78 B
MERCURY	MG/KG	0.04 B	0.03 B	0.02 U	0.07 B	0.1 U	0.11 U
NICKEL	MG/KG	1.3 UJ	1.2 UJ	1.5 UJ	1.4 UJ	1.4 U	1.3 U
POTASSIUM	MG/KG	124 B	36.9 B	81.7 B	11 U	110 B	32.2 B
SELENIUM	MG/KG	0.98 U	0.84 U	0.89 U	0.78 U	0.97 U	0.97 U
SILVER	MG/KG	0.33 U	0.3 U	0.37 U	0.34 U	0.36 UJ	0.32 UJ
SODIUM	MG/KG	19.1 UJ	12 UJ	17.1 UJ	12.3 UJ	37.9 UJ	30 UJ
THALLIUM	MG/KG	0.39 UJ	0.34 U	0.36 UJ	0.31 U	0.39 UJ	0.39 U
VANADIUM	MG/KG	10.9	1.3 JB	10.4	0.72 JB	6.3 JB	0.9 JB
ZINC	MG/KG	2.1 U	0.6 U	1.9 U	0.21 U	1.3 U	0.59 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-203OSA-SB18-03	6-203OSA-SB18-06	6-203OSA-SB19-01	6-203OSA-SB2-01	6-203OSA-SB20-02	6-203OSA-SB3-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/9/92	9/9/92	9/13/92	9/13/92	9/13/92	9/12/92
Lab Id:	00496-09	00496-10	00511-22	00511-06	00511-25	00507-30

Parameter	Units	6-203OSA-SB18-03	6-203OSA-SB18-06	6-203OSA-SB19-01	6-203OSA-SB2-01	6-203OSA-SB20-02	6-203OSA-SB3-01
ALUMINUM	MG/KG	5330	7420	4100 J	2180 J	1310 J	1780
ANTIMONY	MG/KG	3 U	3.4 U	3.1 UJ	3.8 JB	2.6 UJ	2.8 U
ARSENIC	MG/KG	1.5 JB	4.6 J	0.81 B	0.61 U	0.5 U	0.61 B
BARIUM	MG/KG	9.1 B	8.4 B	5 JB	4.7 JB	5.7 JB	6.8 B
BERYLLIUM	MG/KG	0.07 B	0.08 B	0.46 UJ	0.36 UJ	0.33 UJ	0.06 UJ
CADMIUM	MG/KG	0.71 JB	1.1 JB	0.42 U	0.37 U	0.35 U	0.38 U
CALCIUM	MG/KG	481 B	950 B	101 JB	32.1 UJ	820 JB	1780 J
CHROMIUM	MG/KG	6.2	9.9	4.7	1.2 B	1.3 B	0.85 B
COBALT	MG/KG	0.69 JB	0.49 U	0.44 U	0.38 U	0.37 U	0.4 UJ
COPPER	MG/KG	2.5 JB	1.3 UJ	1.1 U	0.37 U	0.48 U	0.41 UJ
IRON	MG/KG	3430	2830	1700 J	704 J	104 J	628 J
LEAD	MG/KG	4.1	5.1	4.1	2.6	2.3	1.8 U
MAGNESIUM	MG/KG	146 B	223 B	117 B	53.3 JB	31.7 U	103 B
MANGANESE	MG/KG	3.8	2.2 B	2.8 JB	4.2 J	0.45 UJ	12.5 J
MERCURY	MG/KG	0.12 U	0.12 U	0.02 U	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	2.1 JB	1.9 U	1.7 U	1.5 U	1.4 U	1.6 UJ
POTASSIUM	MG/KG	111 B	379 B	113 B	26 JB	23 JB	21.1 JB
SELENIUM	MG/KG	0.97 U	1.1 U	1.1 U	1 U	0.83 U	1 U
SILVER	MG/KG	0.42 UJ	0.49 UJ	1.3 UJ	0.68 UJ	1.1 UJ	0.66 UJ
SODIUM	MG/KG	31.6 UJ	39.2 UJ	24.1 UJ	20.2 UJ	16.4 UJ	22.8 UJ
THALLIUM	MG/KG	0.39 U	0.43 UJ	0.44 UJ	0.41 U	0.33 U	0.4 U
VANADIUM	MG/KG	9.6 B	12.7	7.7 B	2.6 JB	1 JB	1.7 UJ
ZINC	MG/KG	2.8 U	2.8 U	2.4 UJ	1.4 UJ	0.64 UJ	1.5 U

CLEJ-01272-3.13-08/20/93

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-203OSA-SB3-06	6-203OSA-SB4-05	6-203OSA-SB4-07	6-203OSA-SB5-02	6-203OSA-SB7-01	6-203OSA-SB8-04	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/12/92	9/12/92	9/12/92	9/11/92	9/14/92	9/13/92	
Lab Id:	00507-31	00507-33	00507-34	00507-36	00511-08	00511-10	
Parameter	Units						
ALUMINUM	MG/KG	2380	1160	2110	1540	1470 J	2540 J
ANTIMONY	MG/KG	2.9 U	2.1 U	2.1 U	4.4 JB	2.5 UJ	2.3 UJ
ARSENIC	MG/KG	1 B	0.63 B	0.6 UJ	0.57 U	0.56 B	0.61 B
BARIUM	MG/KG	6.7 B	1.9 JB	3.6 JB	5.3 JB	15.5 JB	2.4 UJ
BERYLLIUM	MG/KG	0.06 UJ	0.05 UJ	0.05 UJ	0.07 UJ	0.39 UJ	0.33 UJ
CADMIUM	MG/KG	0.39 U	0.28 U	0.28 U	0.45 UJ	0.33 U	0.31 U
CALCIUM	MG/KG	146 JB	12.6 UJ	20.6 UJ	18.4 UJ	500 JB	14.8 UJ
CHROMIUM	MG/KG	2.8	1.9	2.4	1.9 B	4	5.4
COBALT	MG/KG	0.41 UJ	0.3 UJ	0.3 UJ	0.44 UJ	0.35 U	0.33 U
COPPER	MG/KG	0.42 UJ	0.36 UJ	0.32 UJ	0.41 U	4.2 JB	1 JB
IRON	MG/KG	1390 J	481 J	614 J	893 J	1190 J	953 J
LEAD	MG/KG	3.2 U	3.2 U	1.9 U	2.1 U	10.7	3.3
MAGNESIUM	MG/KG	86.4 B	14.6 U	33.2 B	48.6 B	50.9 JB	33 UJ
MANGANESE	MG/KG	1.2 UJ	0.74 UJ	1.1 UJ	3.7 UJ	13.7 J	1.7 UJ
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.02 U	0.08 B	0.02 U
NICKEL	MG/KG	1.6 UJ	1.2 UJ	1.2 UJ	1.7 UJ	1.4 U	1.3 U
POTASSIUM	MG/KG	97.5 B	24.3 JB	49.2 B	90.9 B	52.3 JB	33.4 JB
SELENIUM	MG/KG	0.86 U	0.99 UJ	1 U	0.96 U	0.82 U	0.94 U
SILVER	MG/KG	0.41 U	0.3 U	0.3 U	0.44 U	0.82 UJ	0.67 UJ
SODIUM	MG/KG	24.2 UJ	11.2 UJ	12.5 UJ	14.4 UJ	23.2 UJ	14.7 UJ
THALLIUM	MG/KG	0.35 UJ	0.4 UJ	0.4 UJ	0.38 UJ	0.33 U	0.38 U
VANADIUM	MG/KG	4 JB	2.3 JB	1.9 UJ	4.2 JB	5 JB	3.2 JB
ZINC	MG/KG	0.82 U	0.39 U	0.71 U	1.1 U	68.5 J	1 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-203OSA-SB8-06	6-203OSA-SB9-05	6-203OSA-SB9-06	6-GW10-02A	6-GW10-02B	6-GW12-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/13/92	9/13/92	9/13/92	9/23/92	9/23/92	9/24/92
	Lab Id:	00511-12	00511-14	00511-15	00536-24	00536-25	00536-26
Parameter	Units						
ALUMINUM	MG/KG	4350 J	6420 J	10500 J	12500 J	6340 J	910 J
ANTIMONY	MG/KG	2.7 UJ	2.8 UJ	3 UJ	2.4 UJ	2.7 UJ	2.3 UJ
ARSENIC	MG/KG	1.2 B	3.7	8.9	0.57 UJ	0.63 U	0.61 U
BARIUM	MG/KG	6.4 JB	7.8 JB	12.5 JB	14.2 B	7.9 B	1.5 JB
BERYLLIUM	MG/KG	0.42 UJ	0.55 UJ	0.64 UJ	0.12 B	0.06 U	0.05 U
CADMIUM	MG/KG	0.37 U	1.4 J	2.3 J	1.1 UJ	0.44 UJ	0.32 U
CALCIUM	MG/KG	15.6 UJ	54.3 UJ	97.3 JB	37 U	26.3 U	297 B
CHROMIUM	MG/KG	7.3	12.1	19.2	10.6	5.1	2 J
COBALT	MG/KG	0.39 U	0.4 U	0.51 B	1.4 U	0.63 U	0.33 U
COPPER	MG/KG	1.7 JB	2.3 JB	4.1 JB	2.4 JB	0.98 JB	0.32 U
COPPER	MG/KG	351 J	12700 J	19200 J	3140 J	938 J	140 J
LEAD	MG/KG	4.1	6.5	10.1	6.1	3.2	1.2
MAGNESIUM	MG/KG	22.1 UJ	301 JB	491 JB	396 B	173 B	25.3 B
MANGANESE	MG/KG	0.81 UJ	4.3 J	5.9 J	6.9 J	4.2 J	2.8 J
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U
NICKEL	MG/KG	1.7 B	1.6 U	1.7 U	5.7 JB	1.5 U	1.3 U
POTASSIUM	MG/KG	35.4 JB	326 B	626 B	294 B	176 B	28.5 JB
SELENIUM	MG/KG	0.99 U	1.2 UJ	1.4	0.95 U	1.1 U	1 U
SILVER	MG/KG	0.97 UJ	1 UJ	1.1 UJ	0.34 UJ	0.38 UJ	0.33 UJ
SODIUM	MG/KG	17.3 UJ	32.9 UJ	41.5 UJ	23.5 UJ	25.3 UJ	13.4 UJ
THALLIUM	MG/KG	0.4 U	0.47 UJ	0.53 UJ	0.38 UJ	0.42 UJ	0.41 U
VANADIUM	MG/KG	3.6 JB	23.7	32.4	16.2	5.5 JB	1.3 JB
ZINC	MG/KG	0.81 UJ	3.3 UJ	5.8 UJ	5.4 J	2.2 UJ	0.42 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW12-02	6-GW13-01	6-GW13-02	6-GW14-03	6-GW14-04	6-GW16-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/24/92	9/24/92	9/24/92	10/6/92	10/6/92	10/11/92
	Lab Id:	00536-27	00544-06	00544-07	00564-03	00564-04	00570-19
Parameter	Units						
ALUMINUM	MG/KG	599 J	4040	1820	708	850	3860
ANTIMONY	MG/KG	3.5 UJ	9.6 UJ	10.3 UJ	3 UJ	3 UJ	2.8 JB
ARSENIC	MG/KG	0.68 U	0.57 U	0.6 U	0.47 U	0.99 JB	0.53 U
BARIUM	MG/KG	2 JB	4.1 U	4.4 U	1.6 UJ	1.8 UJ	3 UJ
BERYLLIUM	MG/KG	0.07 U	0.2 U	0.21 U	0.07 UJ	0.06 UJ	0.06 B
BISMUTH	MG/KG	0.47 U	1.2 U	0.84 U	0.41 UJ	0.41 UJ	0.36 UJ
CALCIUM	MG/KG	54.5 B	1520	423 B	110 U	98.2 U	74.7 U
CHROMIUM	MG/KG	1.1 JB	2.9 U	4.2 U	1.7 B	2.7	4
COBALT	MG/KG	0.5 U	1.2 U	1.3 U	0.56 UJ	0.43 UJ	0.38 UJ
COPPER	MG/KG	0.47 U	1.8 U	1.9 U	0.41 U	0.43 JB	0.36 U
CADMIUM	MG/KG	248 J	192	506	263 UJ	273 UJ	187
LEAD	MG/KG	0.89	3.9 J	2 J	1.5 U	1.2 U	3.2
MAGNESIUM	MG/KG	27.1 B	88.1 B	65.1 B	22.1 U	20.4 U	45.3 B
MANGANESE	MG/KG	2.7 JB	1.4 UJ	5.2 J	1.1 U	1.3 U	1.1 B
MERCURY	MG/KG	0.02 U	0.03 B	0.02 U	0.02 U	0.02 U	0.02 UJ
NICKEL	MG/KG	2 U	5.1 U	7.7 U	1.7 UJ	1.7 UJ	1.5 U
POTASSIUM	MG/KG	28.3 JB	194 U	222 U	15.9 UJ	18.8 UJ	32.2 B
SELENIUM	MG/KG	1.1 U	0.96 UJ	1 U	0.78 U	1 UJ	0.88 U
SILVER	MG/KG	0.5 UJ	2 U	2.1 U	0.43 UJ	0.43 UJ	0.38 UJ
SODIUM	MG/KG	20.1 UJ	28.1 U	41.6 U	14 UJ	15 UJ	18.4 UJ
THALLIUM	MG/KG	0.45 U	0.38 UJ	0.4 U	0.31 U	0.41 U	0.35 U
VANADIUM	MG/KG	0.87 JB	2 U	1.3 U	0.86 B	0.87 B	1.6 B
ZINC	MG/KG	0.52 UJ	2.2 U	3.1 U	1.2 U	0.97 U	0.92 U

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-GW16-03	6-GW17-01	6-GW17-02	6-GW18-01	6-GW18-03	6-GW19-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/11/92	9/25/92	9/25/92	9/25/92	9/25/92	10/6/92
Lab Id:	00570-21	00544-08	00544-09	00544-18	00544-19	00564-05

Parameter	Units						
ALUMINUM	MG/KG	7830	3620	3910	1250	963	1190
ANTIMONY	MG/KG	2.9 U	9.4 UJ	10.4 UJ	8.7 UJ	4.9 UJ	3.1 UJ
ARSENIC	MG/KG	0.66 U	0.53 U	0.56 U	0.57 U	0.85 B	0.52 UJ
BARIUM	MG/KG	8.2 B	4 U	4.4 U	3.7 U	2.1 U	2.2 UJ
BERYLLIUM	MG/KG	0.06 U	0.19 U	0.42 U	0.18 U	0.1 U	0.07 UJ
CADMIUM	MG/KG	0.39 UJ	0.96 U	0.85 U	0.54 U	0.3 U	0.42 UJ
CALCIUM	MG/KG	29 U	523 B	273 B	150 B	9 U	108 U
CHROMIUM	MG/KG	7.2	3.1 U	3.6 U	1.1 U	1.9 U	2.3
COPPER	MG/KG	0.83 B	1.2 U	1.3 U	1.1 U	0.6 U	0.44 UJ
COBALT	MG/KG	1.4 JB	1.3 U	2.1 U	5.7 U	0.8 U	0.5 JB
IRON	MG/KG	1140	308	475	181	395	90.4 UJ
LEAD	MG/KG	4.2	3 J	2.2 J	2.6 J	3.3 J	3.6 U
MAGNESIUM	MG/KG	192 B	66.5 B	77.9 B	98.5 B	26.9 U	13 U
MANGANESE	MG/KG	3.8 U	2.9 UJ	1.9 UJ	1.6 UJ	1.9 UJ	0.37 U
MERCURY	MG/KG	0.02 UJ	0.02 B	0.02 U	0.04 B	0.02 U	0.02 U
NICKEL	MG/KG	1.6 UJ	3.3 U	3.6 U	3 U	2.7 U	1.7 UJ
POTASSIUM	MG/KG	289 B	138 U	258 U	146 U	88.4 U	14.6 UJ
SELENIUM	MG/KG	1.1 U	0.89 U	0.94 U	0.96 U	1 U	0.86 U
SILVER	MG/KG	0.41 UJ	1.9 U	2.1 U	1.8 U	1 U	0.44 UJ
SODIUM	MG/KG	23.1 UJ	31.4 U	33.4 U	20.2 U	19.9 U	16 UJ
THALLIUM	MG/KG	0.44 U	0.36 UJ	0.38 UJ	0.38 U	0.4 U	0.34 U
VANADIUM	MG/KG	4.6 B	2.5 U	4.2 U	1.1 U	1.4 U	0.42 B
ZINC	MG/KG	3.3 U	1.9 U	1.9 U	1.2 U	1.5 U	3.4 U

CLEJ-01272-3.13-08/20/93

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW19-03	6-GW1D-07	6-GW1D-08	6-GW20-01	6-GW20-02	6-GW21-04
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/6/92	10/7/92	10/7/92	10/8/92	10/8/92	9/24/92
	Lab Id:	00564-06	00564-12	00564-13	00564-18	00564-20	00544-10
Parameter	Units						
ALUMINUM	MG/KG	1030	381	1550	5240	1950	6080
ANTIMONY	MG/KG	2.7 UJ	3 UJ	2.6 UJ	3.2 UJ	2.9 UJ	9.6 UJ
ARSENIC	MG/KG	0.62 U	0.51 U	0.8 B	0.7 U	0.59 U	1.4 B
BARIUM	MG/KG	1.7 UJ	2 UJ	2.7 UJ	4.1 UJ	3.5 UJ	8.4 JB
BERYLLIUM	MG/KG	0.06 UJ	0.06 UJ	0.06 UJ	0.07 UJ	0.06 UJ	0.2 U
CADMIUM	MG/KG	0.37 UJ	0.4 UJ	0.35 UJ	0.43 UJ	0.4 UJ	0.78 U
CALCIUM	MG/KG	84.5 U	82.8 U	73.7 U	23.2 U	19.2 U	372 B
CHROMIUM	MG/KG	2.5	3.1	6.6	4.2	3	5.3 U
COBALT	MG/KG	0.39 UJ	0.42 UJ	0.37 UJ	0.45 UJ	0.42 UJ	1.2 U
COPPER	MG/KG	0.47 JB	0.4 U	0.42 JB	0.67 JB	0.46 JB	1.6 U
COPPER	MG/KG	215 UJ	1550 UJ	1020 UJ	227 UJ	279 UJ	1220
LEAD	MG/KG	1.6 U	3.8 U	2.6 U	3.5 U	1.6 U	4 J
MAGNESIUM	MG/KG	17.6 U	10 U	28.4 U	47 U	35.8 U	79.8 B
MANGANESE	MG/KG	1.4 U	1.8 U	0.86 U	1.5 U	1.4 U	2.3 UJ
MERCURY	MG/KG	0.02 U	0.02 B	0.03 B	0.03 B	0.02 U	0.02 U
NICKEL	MG/KG	1.5 UJ	1.7 UJ	1.5 UJ	1.8 UJ	1.7 UJ	4.3 U
POTASSIUM	MG/KG	15.7 UJ	13.6 UJ	32.5 UJ	39.7 UJ	35.2 UJ	193 U
SELENIUM	MG/KG	1 U	0.84 UJ	1.1 U	1.2 U	0.98 UJ	0.97 U
SILVER	MG/KG	0.39 UJ	0.42 UJ	0.37 UJ	0.45 UJ	0.42 UJ	2 U
SODIUM	MG/KG	12.5 UJ	14.9 UJ	15.3 UJ	17.2 UJ	17.1 UJ	51.8 U
THALLIUM	MG/KG	0.41 U	0.34 U	0.44 U	0.46 UJ	0.39 U	0.39 UJ
VANADIUM	MG/KG	0.41 B	4.9 B	14.2	2.6 B	1.2 B	3.5 U
ZINC	MG/KG	0.74 U	1.2 U	1.6 U	1.4 U	1.4 U	2 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW21-07	6-GW25-04	6-GW25-05	6-GW26-03	6-GW26-04	6-GW27D-05
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/24/92	10/7/92	10/7/92	10/09/92	10/09/92	10/11/92
	Lab Id:	00544-11	00564-14	00564-15	00570-01	00570-02	00570-22
Parameter	Units						
ALUMINUM	MG/KG	3700	3810	2170	3820	11200	15500
ANTIMONY	MG/KG	9.5 UJ	2.7 UJ	2.3 UJ	3.2 U	3.1 U	2.8 U
ARSENIC	MG/KG	0.61 U	0.66 U	0.65 UJ	0.67 U	0.64 U	6.3
ARIUM	MG/KG	5 JB	5.6 UJ	3.7 UJ	4.4 JB	8.8 B	16.8 B
ERYLLIUM	MG/KG	0.19 U	0.06 UJ	0.05 UJ	0.07 U	0.08 B	0.29 B
ADMIUM	MG/KG	0.58 U	0.37 UJ	0.31 UJ	0.43 UJ	0.42 UJ	0.39 UJ
ALCIUM	MG/KG	160 B	27.5 U	20 U	252 B	842 B	48.7 U
HROMIUM	MG/KG	3.7 U	4.3	3.2	4.1	7.9	31.6
OBALT	MG/KG	1.2 U	0.39 UJ	0.32 UJ	0.46 UJ	0.44 U	0.94 B
OPPER	MG/KG	1.7 U	0.59 JB	0.35 JB	0.59 UJ	1.1 UJ	6.4 J
ION	MG/KG	468	782 UJ	545 UJ	576	1050	17800
EAD	MG/KG	2.3 J	1.4 U	0.88 U	2.8	1.4	16.8
IAGNESIUM	MG/KG	85.6 B	88.4 U	55.7 U	86.3 B	195 B	637 B
IANGANESE	MG/KG	1.7 UJ	2 U	1.7 U	2 B	3.4	8.1
IERCURY	MG/KG	0.02 U	0.13	0.02 U	0.02 UJ	0.02 UJ	0.02 UJ
ICKEL	MG/KG	6.4 U	1.5 UJ	1.3 UJ	1.8 U	1.7 U	1.6 UJ
OTASSIUM	MG/KG	227 U	83.3 UJ	53.5 UJ	191 B	336 B	959 B
ELENIUM	MG/KG	1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U
LVER	MG/KG	1.9 U	0.39 UJ	0.32 UJ	0.46 UJ	0.44 UJ	0.41 UJ
ODIUM	MG/KG	35.2 U	14.2 UJ	13.3 UJ	24.9 UJ	25.1 UJ	56.9 UJ
ALLIUM	MG/KG	0.41 UJ	0.44 U	0.44 U	0.44 UJ	0.43 U	0.41 U
VANADIUM	MG/KG	2.1 U	3.1 B	1.7 B	2.4 B	5.7 B	33.8
ZINC	MG/KG	1.9 U	1.8 U	1 U	1.5 U	5.8 U	8.3

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-GW27D-06	6-GW28-08	6-GW28-09	6-GW28D-09	6-GW28D-10	6-GW2D-05	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/11/92	10/09/92	10/09/92	10/20/92	10/20/92	10/10/92	
Lab Id:	00570-23	00570-03	00570-04	00582-09	00582-12	00570-13	
Parameter	Units						
ALUMINUM	MG/KG	356	1530	534	554 J	2320	2400
ANTIMONY	MG/KG	2.8 U	2.6 U	2.9 U	3.1 UJ	3.2 UJ	2.8 U
ARSENIC	MG/KG	15.9	0.62 UJ	0.65 U	0.57 U	0.67 U	0.57 U
BARIUM	MG/KG	0.84 UJ	3.8 JB	1.1 UJ	1.6 UJ	4.2 UJ	4.3 JB
BERYLLIUM	MG/KG	0.07 B	0.06 U	0.06 U	0.07 U	0.07 U	0.06 U
CADMIUM	MG/KG	0.39 UJ	0.35 UJ	0.39 UJ	0.41 UJ	0.43 UJ	0.38 UJ
CALCIUM	MG/KG	14.4 U	20.6 U	15.8 U	14.9 U	146 B	80.9 U
CHROMIUM	MG/KG	3	2.6	2.1	2.3	5.1	2.6
COBALT	MG/KG	0.41 B	0.37 UJ	0.41 UJ	0.44 UJ	0.45 UJ	0.4 U
COPPER	MG/KG	0.6 JB	0.39 UJ	0.67 UJ	0.41 U	0.99 JB	0.47 UJ
IRON	MG/KG	1570	182	430	364	508	739
LEAD	MG/KG	4.3	2.7	1	1	1	3.1
MAGNESIUM	MG/KG	6.5 U	42.4 B	14.5 U	20.4 U	69.4 B	41.9 B
MANGANESE	MG/KG	0.87 U	0.43 U	0.42 U	0.83 U	1.9 B	1.4 B
MERCURY	MG/KG	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 UJ
NICKEL	MG/KG	1.6 UJ	1.5 U	1.6 U	1.7 U	1.8 U	1.6 U
POTASSIUM	MG/KG	14.3 B	136 B	30.3 B	49.2 B	174 B	48 B
SELENIUM	MG/KG	1 U	1 U	1.1 U	0.96 U	1.1 U	0.95 U
SILVER	MG/KG	0.41 UJ	0.37 UJ	0.41 UJ	0.44 UJ	0.45 UJ	0.4 UJ
SODIUM	MG/KG	17.9 UJ	23 UJ	22.5 UJ	11.9 UJ	19.1 UJ	18 UJ
THALLIUM	MG/KG	0.4 UJ	0.41 UJ	0.43 U	0.38 UJ	0.45 UJ	0.38 UJ
VANADIUM	MG/KG	5.4 B	2.7 B	2.8 B	3.1 B	4.8 B	1.4 B
ZINC	MG/KG	0.27 U	0.54 U	2 U	0.8 U	1.5 U	1.4 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW2D-06	6-GW30-02	6-GW30-03	6-GW7D-02	6-GW7D-03	6-GW9-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/10/92	10/10/92	10/10/92	10/6/92	10/6/92	9/24/92
	Lab Id:	00570-14	00570-24	00570-25	00564-01	00564-02	00544-04
Parameter	Units						
ALUMINUM	MG/KG	1830	6920	4720	582	3310	1570
ANTIMONY	MG/KG	2.7 U	3.1 U	2.9 U	2.5 UJ	3.1 UJ	9 UJ
ARSENIC	MG/KG	0.65 U	0.66 B	0.63 U	0.51 U	0.68 U	0.56 U
BARIUM	MG/KG	3.2 UJ	9.2 B	13.4 B	1 UJ	6.2 UJ	3.8 U
BERYLLIUM	MG/KG	0.06 U	0.11 B	0.13 B	0.05 UJ	0.07 UJ	0.18 U
CADMIUM	MG/KG	0.36 UJ	0.43 UJ	0.4 UJ	0.33 UJ	0.43 UJ	1.5 U
CALCIUM	MG/KG	47.4 U	564 B	389 B	55.3 U	238 U	19 U
CHROMIUM	MG/KG	3.7	7.5	4.4	1.3 B	3.5	2.4 U
COBALT	MG/KG	0.45 U	0.45 B	0.42 UJ	0.35 UJ	0.58 UJ	1.1 U
COPPER	MG/KG	0.72 UJ	0.52 JB	0.4 U	0.42 JB	0.58 JB	1.3 U
IRON	MG/KG	725	5390	894	198 UJ	310 UJ	680
LEAD	MG/KG	3.4	4.4	4.6	0.97 U	1.8 U	2.1 J
MAGNESIUM	MG/KG	26.1 B	239 B	128 B	13.3 U	61.9 U	70.4 B
MANGANESE	MG/KG	1.2 B	11.7	2.6 U	0.63 U	1.9 U	3.1 J
MERCURY	MG/KG	0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.02 U
NICKEL	MG/KG	1.6 JB	1.8 UJ	1.7 UJ	1.4 UJ	1.8 UJ	3.1 U
POTASSIUM	MG/KG	40.5 B	140 B	120 B	11.2 UJ	90.3 UJ	118 U
SELENIUM	MG/KG	1.1 U	1.1 U	1.1 U	0.84 UJ	1.1 UJ	0.93 U
SILVER	MG/KG	0.38 UJ	0.45 UJ	0.42 UJ	0.35 UJ	0.45 UJ	1.8 U
SODIUM	MG/KG	15.2 UJ	26.5 UJ	27.8 UJ	10.5 UJ	14.9 UJ	34.7 U
THALLIUM	MG/KG	0.43 U	0.43 UJ	0.42 U	0.34 U	0.46 U	0.37 U
VANADIUM	MG/KG	1.5 B	10.8 B	3 B	0.48 B	2.1 B	2.4 U
ZINC	MG/KG	0.65 U	4.6 U	45.4	0.79 U	1.7 U	1.8 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW9-03	6-RAV-SB1-01	6-RAV-SB10-01	6-RAV-SB11-01	6-RAV-SB12-01	6-RAV-SB13-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/24/92	9/10/92	9/14/92	9/14/92	9/14/92	9/14/92
	Lab Id:	00544-05	00502-27	00512-16	00512-18	00512-21	00512-23
Parameter	Units						
ALUMINUM	MG/KG	3820	1130	3910	3390	2180	2700
ANTIMONY	MG/KG	9.7 UJ	2.9 UJ	2.7 UJ	3.9 UJ	3.1 U	2.9 U
ARSENIC	MG/KG	0.6 UJ	0.56 UJ	0.69 B	0.82 B	0.63 U	5.7
BARIUM	MG/KG	5 JB	2.8 JB	6.9 JB	5.1 JB	17.3 B	111
BERYLLIUM	MG/KG	0.2 U	0.06 UJ	0.06 U	0.07 U	0.07 U	0.17 B
CADMIUM	MG/KG	0.79 U	0.39 U	0.37 U	0.66 JB	0.69 JB	2.5 J
CALCIUM	MG/KG	20.4 U	26.8 UJ	583 B	44.4 U	552 B	422 B
CHROMIUM	MG/KG	4.2 U	1.9 B	4.2	5.8	3.2	16
COBALT	MG/KG	1.2 U	0.41 U	0.39 UJ	0.44 UJ	0.44 UJ	2.2 B
COPPER	MG/KG	2.2 U	0.4 UJ	4.5 JB	1.2 JB	8.7	733
IRON	MG/KG	1570	464	735	7180	1370	7030
LEAD	MG/KG	2.4 J	1.6	6.2 J	3.4 J	27.6	1610
MAGNESIUM	MG/KG	102 B	34.1 B	112 B	89.2 B	70.5 B	235 B
MANGANESE	MG/KG	3.6 J	1.6 JB	7.5	2.2 B	31.8	2990
MERCURY	MG/KG	0.02 U	0.03 U	0.04 JB	0.02 UJ	0.08 B	2
NICKEL	MG/KG	6.3 U	1.6 U	1.5 U	1.7 U	1.8 B	3.4 B
POTASSIUM	MG/KG	163 U	29.9 JB	106 B	154 B	79.1 B	142 B
SELENIUM	MG/KG	0.99 U	0.93 U	1 U	1.1 U	1 U	1.1 UJ
SILVER	MG/KG	2 U	0.41 UJ	0.39 UJ	0.44 UJ	0.44 UJ	0.41 UJ
IODIUM	MG/KG	60.9 U	25.7 UJ	26.4 UJ	26.8 UJ	28.3 UJ	36.4 UJ
THALLIUM	MG/KG	0.4 U	0.37 U	0.41 UJ	0.44 UJ	0.4 U	0.42 U
VANADIUM	MG/KG	5.2 U	1.7 JB	5.1 JB	9.1 JB	4.4 JB	9.6 JB
ZINC	MG/KG	3.4 U	1.2 U	6.9	2.3 U	74.2	2450

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-RAV-SB14-01	6-RAV-SB15-02	6-RAV-SB16-02	6-RAV-SB2-02	6-RAV-SB3-01	6-RAV-SB3-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/14/92	10/09/92	10/09/92	9/10/92	9/11/92	9/11/92
	Lab Id:	00512-25	00570-06	00570-08	00502-29	00502-31	00502-32
Parameter	Units						
ALUMINUM	MG/KG	6340	462	329	1510	1670	1250
ANTIMONY	MG/KG	3.6 UJ	2.3 U	2.7 U	2.4 UJ	2.5 UJ	2.3 UJ
ARSENIC	MG/KG	1.4 B	0.99 B	0.55 U	0.54 UJ	0.57 UJ	0.66 UJ
BARIUM	MG/KG	31.4 B	14.5 B	2.9 UJ	3.5 JB	5.4 JB	5.2 JB
BERYLLIUM	MG/KG	0.14 B	0.06 B	0.06 U	0.05 UJ	0.05 UJ	0.05 UJ
CADMIUM	MG/KG	2 J	0.32 UJ	0.36 UJ	0.33 U	0.33 U	0.31 U
CALCIUM	MG/KG	1720	99.7 U	18 U	27 UJ	29.2 UJ	32.5 UJ
CHROMIUM	MG/KG	10.3	2.4	0.86 B	4.5	2	2.7
COBALT	MG/KG	2.1 B	0.33 UJ	0.38 UJ	0.34 U	0.35 U	0.33 U
COPPER	MG/KG	25	13.3 U	0.5 UJ	0.38 UJ	0.43 UJ	0.36 UJ
IRON	MG/KG	3500	1160	130	722	732	938
LEAD	MG/KG	68.3	2.7	2.1	2.1	1.8	2.1
MAGNESIUM	MG/KG	233 B	18.8 U	9.9 U	42.5 B	26 B	37.1 B
MANGANESE	MG/KG	87.9	14.7	4.4	2.2 JB	3.1 J	7.2
MERCURY	MG/KG	0.17	0.02 UJ	0.02 UJ	0.03 U	0.03 U	0.03 U
NICKEL	MG/KG	3.8 B	1.3 U	1.5 U	1.4 UJ	1.4 U	1.3 U
POTASSIUM	MG/KG	227 B	34 B	14.8 B	46 JB	24.5 JB	49.7 JB
SELENIUM	MG/KG	1.2 U	0.87 U	0.91 U	0.91 U	0.95 U	1.1 U
SILVER	MG/KG	0.51 UJ	0.33 UJ	0.38 UJ	0.34 UJ	0.35 UJ	0.39 JB
SODIUM	MG/KG	45.3 UJ	20.2 UJ	15.8 UJ	18.8 UJ	24.3 JB	27.1 JB
THALLIUM	MG/KG	0.5 U	0.35 UJ	0.36 U	0.36 U	0.38 U	0.44 U
VANADIUM	MG/KG	11.1 JB	3.9 B	0.47 B	3.8 JB	2 JB	3.4 JB
ZINC	MG/KG	178	69.4	35	1.7 U	1.4 U	3.3 U

CLEJ-01272-3.13-08/20/93

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-RAV-SB4A-01	6-RAV-SB5-02	6-RAV-SB6-02	6-RAV-SB7-02	6-RAV-SB8-02	6-RAV-SB9-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	9/14/92	
Lab Id:	00512-02	00512-05	00512-07	00512-09	00512-11	00512-13	
Parameter	Units						
ALUMINUM	MG/KG	1880	3880	3410	1440	11800	1040
ANTIMONY	MG/KG	3.2 UJ	2.8 UJ	3.1 UJ	2.7 UJ	3.3 UJ	3.2 UJ
ARSENIC	MG/KG	0.59 UJ	0.85 JB	0.61 U	0.45 U	2.3	0.65 U
BARIUM	MG/KG	6.7 JB	5.4 JB	3.4 JB	5.5 JB	14.9 B	2 UJ
BERYLLIUM	MG/KG	0.07 U	0.07 U	0.07 U	0.06 U	0.17 U	0.07 U
CADMIUM	MG/KG	0.44 U	0.37 U	0.42 U	0.36 U	0.8 JB	0.43 U
CALCIUM	MG/KG	243 B	76.2 B	241 B	1180	112 B	16.6 U
CHROMIUM	MG/KG	2 B	5.8	4.7	1.7 B	14	0.81 U
COBALT	MG/KG	0.46 UJ	0.39 UJ	0.44 UJ	0.38 UJ	0.47 UJ	0.45 UJ
COPPER	MG/KG	4.5 JB	1.4 JB	0.59 JB	1.4 JB	1.9 JB	0.43 U
IRON	MG/KG	1120	2830	1430	870	6940	267
LEAD	MG/KG	14.3 J	2.7 J	3.7 J	5 J	7 J	1.9 J
MAGNESIUM	MG/KG	60.7 B	154 B	70.1 B	63.3 B	478 B	26 B
MANGANESE	MG/KG	9.1	2.6 B	17.9	6	7.9	3 B
MERCURY	MG/KG	0.06 JB	0.02 UJ	0.05 JB	0.05 JB	0.02 UJ	0.04 JB
NICKEL	MG/KG	2 B	1.6 U	1.7 U	1.5 U	3.2 B	1.8 U
POTASSIUM	MG/KG	73.5 JB	209 B	79.9 JB	64.9 JB	311 B	15.2 JB
SELENIUM	MG/KG	1.1 U	1.1 U	1 U	1 U	1.1 UJ	1.1 U
SILVER	MG/KG	0.46 UJ	0.39 UJ	0.44 UJ	0.38 UJ	0.47 UJ	0.45 UJ
IODIUM	MG/KG	25.9 UJ	17.6 UJ	17.9 UJ	22.8 UJ	27.7 UJ	15.3 UJ
THALLIUM	MG/KG	0.45 UJ	0.43 UJ	0.41 UJ	0.4 UJ	0.43 UJ	0.44 UJ
VANADIUM	MG/KG	3.5 JB	10.3 J	6.1 JB	3 JB	22.6	1.7 UJ
ZINC	MG/KG	47.6	1.9 U	7	6.5	5.4	0.6 U

SITE 6 WOODS & RAVINE SUBSURFACE SOILS
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	MG/KG	NA	NA	135	15500	6-GW27D-05	126/126
ANTIMONY	MG/KG	2.1 U	10.4 UJ	2.4 JB	4.4 JB	6-203OSA-SB5-02	4/126
ARSENIC	MG/KG	0.42 U	0.7 U	0.56 B	25.4 J	6-203OSA-SB12-01	37/126
BARIUM	MG/KG	0.58 UJ	6.2 UJ	0.91 JB	1100	6-203OSA-SB12-01	84/126
BERYLLIUM	MG/KG	0.05 UJ	0.64 UJ	0.06 B	3.1	6-203OSA-SB12-01	17/126
CADMIUM	MG/KG	0.28 U	1.6 UJ	0.33 JB	2.5 J	6-RAV-SB13-02	25/126
CALCIUM	MG/KG	9 U	238 U	10.4 B	5640 J	6-201S-SB1-01	53/126
CHROMIUM	MG/KG	0.56 UJ	5.3 U	0.73 B	31.6	6-GW27D-05	107/126
COBALT	MG/KG	0.3 UJ	2 UJ	0.41 B	6.8 B	6-203OSA-SB12-01	11/126
COPPER	MG/KG	0.31 U	13.3 U	0.33 JB	733	6-RAV-SB13-02	45/126
IRON	MG/KG	90.4 UJ	1550 UJ	57.4	19200 J	6-203OSA-SB9-06	107/126
LEAD	MG/KG	0.88 U	5.3 U	0.89	1610	6-RAV-SB13-02	89/126
MAGNESIUM	MG/KG	3.4 U	88.4 U	8.2 B	637 B	6-GW27D-05	97/126
MANGANESE	MG/KG	0.1 UJ	4.2 UJ	0.2 JB	2990	6-RAV-SB13-02	72/126
MERCURY	MG/KG	0.02 U	0.34 U	0.02 B	2	6-RAV-SB13-02	26/126
NICKEL	MG/KG	1.2 U	7.7 U	1.6 B	11.7 B	6-203OSA-SB12-01	12/126
POTASSIUM	MG/KG	11 U	258 U	14.2 B	1270 B	6-203OSA-SB12-01	94/126
SELENIUM	MG/KG	0.71 U	1.2 UJ	1.4	10.5	6-203OSA-SB12-01	2/126
SILVER	MG/KG	0.3 U	2.1 U	0.39 JB	0.39 JB	6-RAV-SB5-02	1/126
SODIUM	MG/KG	9.2 UJ	269 UJ	10.1 JB	50.6 JB	6-201N-SB1-01	10/126
HALLIUM	MG/KG	0.28 U	0.53 UJ	0.41 JB	0.76 JB	6-203OSA-SB12-01	2/126
TANADIUM	MG/KG	0.79 UJ	5.2 U	0.41 B	35.6	6-203OSA-SB12-01	108/126
ZINC	MG/KG	0.21 U	8.6 U	0.73 B	2450	6-RAV-SB13-02	18/126

CLEJ-01272-3.13-08/20/93

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Site 9 - Surface Soil, Organic and Inorganic

CLEJ-01272-3-13-08/20/93

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-AST-SB1-00	9-AST-SB13-00	9-AST-SB15-00	9-AST-SB3-00	9-TPO-SB35-00	9-TPO-SB43-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/15/92	9/16/92	9/16/92	9/15/92	9/22/92	10/26/92
Lab Id:	00517-05	00517-09	00517-11	00517-07	00536-20	00593-44

Parameter	Units	9-AST-SB1-00	9-AST-SB13-00	9-AST-SB15-00	9-AST-SB3-00	9-TPO-SB35-00	9-TPO-SB43-00
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
ETA-BHC	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 UJ
DELTA-BHC	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
AMMA-BHC(LINDANE)	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
EPTACHLOR	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
LDRIN	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
EPTACHLOR EPOXIDE	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
NDOSULFAN I	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
DELDRIN	UG/KG	34 U	3.5 UJ	3.4 UJ	3.4 U	3.5 U	3.5 U
P-DDE	UG/KG	650	3.5 UJ	3.4 UJ	3.4 U	13	44
NDRIN	UG/KG	34 U	3.5 UJ	3.4 UJ	3.4 U	3.5 U	3.5 U
NDOSULFAN II	UG/KG	34 U	3.5 UJ	3.4 UJ	3.4 U	3.5 U	3.5 U
P-DDD	UG/KG	34 U	3.5 UJ	3.4 UJ	3.4 U	3.5 U	3.5 U
NDOSULFAN SULFATE	UG/KG	34 U	3.5 UJ	3.4 UJ	3.4 U	3.5 U	3.5 U
P-DDT	UG/KG	570	3.5 UJ	3.4 UJ	3.3 J	15	39
ETHOXYCHLOR	UG/KG	180 U	18 UJ	18 UJ	18 U	18 U	18 U
NDRIN KETONE	UG/KG	34 U	3.5 UJ	3.4 UJ	3.4 U	3.5 U	3.5 U
NDRIN ALDEHYDE	UG/KG	34 U	3.5 UJ	3.4 UJ	3.4 U	3.5 U	3.5 U
LPHA CHLORDANE	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
AMMA CHLORDANE	UG/KG	18 U	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 U
DXAPHENE	UG/KG	1800 U	180 UJ	180 UJ	180 U	180 U	180 U
B-1016	UG/KG	340 U	35 UJ	34 UJ	34 U	35 U	35 U
B-1221	UG/KG	690 U	72 UJ	70 UJ	70 U	71 U	71 U
B-1232	UG/KG	340 U	35 UJ	34 UJ	34 U	35 U	35 U
PCB-1242	UG/KG	340 U	35 UJ	34 UJ	34 U	35 U	35 U
PCB-1248	UG/KG	340 U	35 UJ	34 UJ	34 U	35 U	35 U
PCB-1234	UG/KG	340 U	35 UJ	34 UJ	34 U	35 U	35 U
PCB-1260	UG/KG	340 U	35 UJ	34 UJ	34 U	35 U	35 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
BROMOMETHANE	UG/KG	10 UJ	11 U	10 U	11 U	10 U	11 U
VINYL CHLORIDE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
CHLOROETHANE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
METHYLENE CHLORIDE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
ACETONE	UG/KG	10 U	11 U	10 U	11 U	10 U	16
CARBON DISULFIDE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
1,1-DICHLOROETHENE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
1,1-DICHLOROETHANE	UG/KG	10 U	11 U	10 UJ	11 U	10 UJ	11 U
1,2-DICHLOROETHENE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
CHLOROFORM	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
1,2-DICHLOROETHANE	UG/KG	10 U	11 U	10 U	11 U	10 UJ	11 U
2-BUTANONE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No:	9-AST-SB1-00	9-AST-SB13-00	9-AST-SB15-00	9-AST-SB3-00	9-TPO-SB35-00	9-TPO-SB43-00
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	9/15/92	9/16/92	9/16/92	9/15/92	9/22/92	10/26/92
	Lab Id:	00517-05	00517-09	00517-11	00517-07	00536-20	00593-44
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1-TRICHLOROETHANE	UG/KG	10 U	11 U	10 U	1 J	10 U	11 U
ARBON TETRACHLORIDE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
ROMODICHLOROMETHANE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
2-DICHLOROPROPANE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
IS-1,3-DICHLOROPROPENE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
RICHLOROETHENE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
IBROMOCHLOROMETHANE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
1,2-TRICHLOROETHANE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
ENZENE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
ANS-1,3-DICHLOROPROPENE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
OMOFORM	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
METHYL-2-PENTANONE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
HEXANONE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
TRACHLOROETHENE	UG/KG	10 U	11 U	10 UJ	21	10 U	11 U
1,2,2-TETRACHLOROETHANE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
OLUENE	UG/KG	10 U	11 U	10 U	11 U	10 U	2 J
HLOROBENZENE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
HYLBENZENE	UG/KG	10 U	11 U	10 U	11 U	10 U	11 U
YRENE	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
YALXYLENES	UG/KG	10 U	11 U	10 UJ	11 U	10 U	11 U
<u>SEMIVOLATILES</u>							
ENOL	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
-(2-CHLOROETHYL) ETHER	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
2-CHLOROPHENOL	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
1,3-DICHLOROBENZENE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
1,4-DICHLOROBENZENE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
1,2-DICHLOROBENZENE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
2-METHYLPHENOL	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
4-METHYLPHENOL	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
HEXACHLOROETHANE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
NITROBENZENE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
ISOPHORONE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
2-NITROPHENOL	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
2,4-DIMETHYLPHENOL	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
2,4-DICHLOROPHENOL	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
NAPHTHALENE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
4-CHLORANILINE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U
HEXACHLOROBUTADIENE	UG/KG	340 U	360 U	340 U	340 U	350 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	9-AST-SB1-00	9-AST-SB13-00	9-AST-SB15-00	9-AST-SB3-00	9-TPO-SB35-00	9-TPO-SB43-00
Sample No:	9-AST-SB1-00	9-AST-SB13-00	9-AST-SB15-00	9-AST-SB3-00	9-TPO-SB35-00	9-TPO-SB43-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/15/92	9/16/92	9/16/92	9/15/92	9/22/92	10/26/92
Lab Id:	00517-05	00517-09	00517-11	00517-07	00536-20	00593-44
Parameter	Units					
SEMIVOLATILES Cont.						
-CHLORO-3-METHYLPHENOL	UG/KG	340 U	360 U	340 U	340 UJ	350 U
-METHYLNAPHTHALENE	UG/KG	340 U	360 U	340 U	340 U	350 U
EXACHLOROCYCLOPENTADIENE	UG/KG	340 U	360 U	340 U	340 U	350 U
4,6-TRICHLOROPHENOL	UG/KG	340 U	360 U	340 U	340 U	350 U
4,5-TRICHLOROPHENOL	UG/KG	830 U	870 U	830 U	820 U	850 U
-CHLORONAPHTHALENE	UG/KG	340 U	360 U	340 U	340 U	350 U
-NITROANILINE	UG/KG	830 U	870 U	830 U	820 U	850 U
1-METHYL PHTHALATE	UG/KG	340 U	360 U	340 U	340 U	350 U
1-NAPHTHYLENE	UG/KG	340 U	360 U	340 U	340 U	350 U
1-DINITROTOLUENE	UG/KG	340 U	360 U	340 U	340 U	350 U
-NITROANILINE	UG/KG	830 U	870 U	830 U	820 U	850 U
1-NAPHTHENE	UG/KG	340 U	360 U	340 U	340 U	350 U
1-DINITROPHENOL	UG/KG	830 U	870 U	830 U	820 U	850 U
-NITROPHENOL	UG/KG	830 U	870 U	830 U	820 U	850 U
1-BENZOFURAN	UG/KG	340 U	360 U	340 U	340 U	350 U
1-DINITROTOLUENE	UG/KG	340 U	360 U	340 U	340 U	350 U
1-METHYL PHTHALATE	UG/KG	340 U	360 U	340 U	340 U	350 U
-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U	360 U	340 U	340 U	350 U
1-NUORENE	UG/KG	340 U	360 U	340 U	340 U	350 UJ
-NITROANILINE	UG/KG	830 U	870 U	830 U	820 UJ	850 U
1-DINITRO-2-METHYLPHENOL	UG/KG	830 U	870 U	830 U	820 U	850 U
-NITRISODIPHENYLAMINE	UG/KG	340 U	360 U	340 U	340 U	350 U
BROMOPHENYL PHENYL ETHER	UG/KG	340 U	360 U	340 U	340 U	350 U
1,2-DICHLOROBENZENE	UG/KG	340 U	360 U	340 U	340 U	350 U
PENTACHLOROPHENOL	UG/KG	830 U	870 U	830 U	820 U	850 U
PHENANTHRENE	UG/KG	340 U	360 U	340 U	340 U	350 U
ANTHRACENE	UG/KG	340 U	360 U	340 U	340 U	350 U
DI-N-BUTYL PHTHALATE	UG/KG	340 U	360 U	340 U	340 U	350 U
FLUORANTHENE	UG/KG	340 U	360 U	340 U	340 U	350 U
CARBAZOLE	UG/KG	340 U	360 U	340 U	340 U	350 U
PYRENE	UG/KG	59 J	360 UJ	340 UJ	340 UJ	350 UJ
BUTYL BENZYL PHTHALATE	UG/KG	340 U	360 U	340 U	340 UJ	350 U
3,3-DICHLOROBENZIDINE	UG/KG	340 U	360 U	340 U	340 UJ	350 U
BENZO(A)ANTHRACENE	UG/KG	340 U	360 U	340 U	340 UJ	350 U
CHRYSENE	UG/KG	340 U	360 U	340 U	340 UJ	350 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	340 U	360 U	340 U	71 J	350 UJ
DI-N-OCTYL PHTHALATE	UG/KG	340 U	360 U	340 U	340 U	350 U
BENZO(B)FLUORANTHENE	UG/KG	46 J	360 U	340 U	340 U	350 U
BENZO(K)FLUORANTHENE	UG/KG	340 U	360 U	340 U	340 U	350 U
BENZO(A)PYRENE	UG/KG	340 U	360 U	340 U	340 U	350 U
INDENO(1,2,3-CD) PYRENE	UG/KG	340 U	360 U	340 U	340 U	350 U
DIBENZ(A,H)ANTHRACENE	UG/KG	340 U	360 U	340 U	340 U	350 U
BENZO(G,H,I)PERYLENE	UG/KG	340 U	360 U	340 U	340 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No: 9-TPO-SB54-00
Depth: N/A
Date Sampled: 10/26/92
Lab Id: 00393-45

Parameter	Units	
<u>PESTICIDE/PCBS</u>		
ALPHA-BHC	UG/KG	1.7 U
BETA-BHC	UG/KG	1.7 UJ
DELTA-BHC	UG/KG	1.7 U
GAMMA-BHC(LINDANE)	UG/KG	1.7 U
PPTACHLOR	UG/KG	1.7 U
LDRIN	UG/KG	1.7 U
PPTACHLOR EPOXIDE	UG/KG	1.7 U
NDOSULFAN I	UG/KG	1.7 U
HELDRLIN	UG/KG	3.4 U
P-DDE	UG/KG	41
NDRIN	UG/KG	3.4 U
NDOSULFAN II	UG/KG	3.4 U
P-DDD	UG/KG	3.4 U
NDOSULFAN SULFATE	UG/KG	3.4 U
P-DDT	UG/KG	21
ETHOXYCHLOR	UG/KG	17 U
NDRIN KETONE	UG/KG	3.4 U
NDRIN ALDEHYDE	UG/KG	3.4 U
ALPHA CHLORDANE	UG/KG	1.7 U
GAMMA CHLORDANE	UG/KG	1.7 U
DIXAPHENE	UG/KG	170 U
CB-1016	UG/KG	34 U
CB-1221	UG/KG	69 U
CB-1232	UG/KG	34 U
PCB-1242	UG/KG	34 U
PCB-1248	UG/KG	34 U
PCB-1254	UG/KG	34 U
PCB-1260	UG/KG	34 U

<u>VOLATILES</u>		
CHLOROMETHANE	UG/KG	11 U
BROMOMETHANE	UG/KG	11 U
VINYL CHLORIDE	UG/KG	11 U
CHLOROETHANE	UG/KG	11 U
METHYLENE CHLORIDE	UG/KG	11 U
ACETONE	UG/KG	11 U
CARBON DISULFIDE	UG/KG	11 U
1,1-DICHLOROETHENE	UG/KG	11 U
1,1-DICHLOROETHANE	UG/KG	11 U
1,2-DICHLOROETHENE	UG/KG	11 U
CHLOROFORM	UG/KG	11 U
1,2-DICHLOROETHANE	UG/KG	11 U
2-BUTANONE	UG/KG	11 U

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No: 9-TPO-SB54-00
Depth: N/A
Date Sampled: 10/26/92
Lab Id: 00593-45

Parameter	Units	
<u>VOLATILES Cont.</u>		
1,1,1-TRICHLOROETHANE	UG/KG	11 U
CARBON TETRACHLORIDE	UG/KG	11 U
BROMODICHLOROMETHANE	UG/KG	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U
TRICHLOROETHENE	UG/KG	11 U
DIBROMOCHLOROMETHANE	UG/KG	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U
BENZENE	UG/KG	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U
FORMALDEHYDE	UG/KG	11 U
2-PENTANONE	UG/KG	11 U
HEXANONE	UG/KG	11 U
TETRACHLOROETHENE	UG/KG	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U
TOLUENE	UG/KG	11 U
CHLOROBENZENE	UG/KG	11 U
ETHYLBENZENE	UG/KG	11 U
STYRENE	UG/KG	11 U
METHYLBENZENE	UG/KG	11 U
<u>SEMIVOLATILES</u>		
BENZENE	UG/KG	340 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	340 U
2-CHLOROPHENOL	UG/KG	340 U
1,3-DICHLOROBENZENE	UG/KG	340 U
1,4-DICHLOROBENZENE	UG/KG	340 U
1,2-DICHLOROBENZENE	UG/KG	340 U
2-METHYLPHENOL	UG/KG	340 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	340 U
4-METHYLPHENOL	UG/KG	340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	340 U
HEXACHLOROETHANE	UG/KG	340 U
NITROBENZENE	UG/KG	340 U
ISOPHORONE	UG/KG	340 U
2-NITROPHENOL	UG/KG	340 U
2,4-DIMETHYLPHENOL	UG/KG	340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340 U
2,4-DICHLOROPHENOL	UG/KG	340 U
1,2,4-TRICHLOROBENZENE	UG/KG	340 U
NAPHTHALENE	UG/KG	340 U
4-CHLORANILINE	UG/KG	340 U
HEXACHLOROBUTADIENE	UG/KG	340 U

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No: 9-TPO-SB54-00
Depth: N/A
Date Sampled: 10/26/92
Lab Id: 00593-45

Parameter	Units	
SEMIVOLATILES Cont.		
-CHLORO-3-METHYLPHENOL	UG/KG	340 U
-METHYLNAPHTHALENE	UG/KG	340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U
4,6-TRICHLOROPHENOL	UG/KG	340 U
4,5-TRICHLOROPHENOL	UG/KG	820 U
-CHLORONAPHTHALENE	UG/KG	340 U
-NITROANILINE	UG/KG	820 U
1-METHYL PHTHALATE	UG/KG	340 U
1,2-NAPHTHYLENE	UG/KG	340 U
1,3-DINITROTOLUENE	UG/KG	340 U
-NITROANILINE	UG/KG	820 U
1,2,3-NAPHTHENE	UG/KG	340 U
1,4-DINITROPHENOL	UG/KG	820 U
-NITROPHENOL	UG/KG	820 U
1,2,4-TRIBENZOFURAN	UG/KG	340 U
4-DINITROTOLUENE	UG/KG	340 U
1,2,3,4-TETRAHYDROPHthalate	UG/KG	340 U
-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U
1,2,3,4-TETRAHYDROQUINOLINE	UG/KG	340 U
-NITROANILINE	UG/KG	820 U
1,4-DINITRO-2-METHYLPHENOL	UG/KG	820 U
-NITRISODIPHENYLAMINE	UG/KG	340 U
BROMOPHENYL PHENYL ETHER	UG/KG	340 U
HEXACHLOROBENZENE	UG/KG	340 U
PENTACHLOROPHENOL	UG/KG	820 U
PHENANTHRENE	UG/KG	340 U
ANTHRACENE	UG/KG	340 U
DI-N-BUTYL PHTHALATE	UG/KG	340 U
FLUORANTHENE	UG/KG	340 U
CARBAZOLE	UG/KG	340 U
PYRENE	UG/KG	340 U
BUTYL BENZYL PHTHALATE	UG/KG	340 U
3,3-DICHLOROBENZIDINE	UG/KG	340 U
BENZO(A)ANTHRACENE	UG/KG	340 U
CHRYSENE	UG/KG	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	340 U
DI-N-OCTYL PHTHALATE	UG/KG	340 U
BENZO(B)FLUORANTHENE	UG/KG	340 U
BENZO(K)FLUORANTHENE	UG/KG	340 U
BENZO(A)PYRENE	UG/KG	340 U
INDENO(1,2,3-CD) PYRENE	UG/KG	340 U
DIBENZ(A,H)ANTHRACENE	UG/KG	340 U
BENZO(G,H,I)PERYLENE	UG/KG	340 U

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

CLEJ-01272-3.13-08/20/93

Parameter	Units	Sample No:		Depth:		LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION	
		Date Sampled:	Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED			MINIMUM DETECTED
<u>PESTICIDE/PCBS</u>								
ALPHA-BHC	UG/KG	1.7 U		18 U		ND	ND	0/7
BETA-BHC	UG/KG	1.7 UJ		18 U		ND	ND	0/7
GAMMA-BHC	UG/KG	1.7 U		18 U		ND	ND	0/7
DELTA-BHC	UG/KG	1.7 U		18 U		ND	ND	0/7
AMMA-BHC(LINDANE)	UG/KG	1.7 U		18 U		ND	ND	0/7
EPTACHLOR	UG/KG	1.7 U		18 U		ND	ND	0/7
LDRIN	UG/KG	1.7 U		18 U		ND	ND	0/7
EPTACHLOR EPOXIDE	UG/KG	1.7 U		18 U		ND	ND	0/7
DOSULFAN I	UG/KG	1.7 U		18 U		ND	ND	0/7
ELDRIN	UG/KG	3.4 UJ		34 U		ND	ND	0/7
P-DDE	UG/KG	3.4 UJ		3.5 UJ		13	650	9-AST-SB1-00 4/7
NDRIN	UG/KG	3.4 UJ		34 U		ND	ND	0/7
DOSULFAN II	UG/KG	3.4 UJ		34 U		ND	ND	0/7
P-DDD	UG/KG	3.4 UJ		34 U		ND	ND	0/7
DOSULFAN SULFATE	UG/KG	3.4 UJ		34 U		ND	ND	0/7
P-DDT	UG/KG	3.4 UJ		3.5 UJ		3.3 J	570	9-AST-SB1-00 5/7
ETHOXYCHLOR	UG/KG	17 U		180 U		ND	ND	0/7
NDRIN KETONE	UG/KG	3.4 UJ		34 U		ND	ND	0/7
NDRIN ALDEHYDE	UG/KG	3.4 UJ		34 U		ND	ND	0/7
ALPHA CHLORDANE	UG/KG	1.7 U		18 U		ND	ND	0/7
GAMMA CHLORDANE	UG/KG	1.7 U		18 U		ND	ND	0/7
DIXAPHENE	UG/KG	170 U		1800 U		ND	ND	0/7
B-1016	UG/KG	34 UJ		340 U		ND	ND	0/7
B-1221	UG/KG	69 U		690 U		ND	ND	0/7
B-1232	UG/KG	34 UJ		340 U		ND	ND	0/7
PCB-1242	UG/KG	34 UJ		340 U		ND	ND	0/7
PCB-1248	UG/KG	34 UJ		340 U		ND	ND	0/7
PCB-1254	UG/KG	34 UJ		340 U		ND	ND	0/7
PCB-1260	UG/KG	34 UJ		340 U		ND	ND	0/7
<u>VOLATILES</u>								
CHLOROMETHANE	UG/KG	10 U		11 U		ND	ND	0/7
BROMOMETHANE	UG/KG	10 UJ		11 U		ND	ND	0/7
VINYL CHLORIDE	UG/KG	10 U		11 U		ND	ND	0/7
CHLOROETHANE	UG/KG	10 U		11 U		ND	ND	0/7
METHYLENE CHLORIDE	UG/KG	10 U		11 U		ND	ND	0/7
ACETONE	UG/KG	10 U		11 U		16	16	9-TPO-SB43-00 1/7
CARBON DISULFIDE	UG/KG	10 U		11 U		ND	ND	0/7
1,1-DICHLOROETHENE	UG/KG	10 U		11 U		ND	ND	0/7
1,1-DICHLOROETHANE	UG/KG	10 U		11 U		ND	ND	0/7
1,2-DICHLOROETHENE	UG/KG	10 U		11 U		ND	ND	0/7
CHLOROFORM	UG/KG	10 U		11 U		ND	ND	0/7
1,2-DICHLOROETHANE	UG/KG	10 U		11 U		ND	ND	0/7
2-BUTANONE	UG/KG	10 U		11 U		ND	ND	0/7

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	Sample No:		Date Sampled:		LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION	
		Depth:	Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED			MINIMUM DETECTED
<u>VOLATILES Cont.</u>								
1,1-TRICHLOROETHANE	UG/KG	10 U		11 U		1 J	9-AST-SB3-00	1/7
CARBON TETRACHLORIDE	UG/KG	10 U		11 U		ND		0/7
DIBROMODICHLOROMETHANE	UG/KG	10 U		11 U		ND		0/7
1,2-DICHLOROPROPANE	UG/KG	10 U		11 U		ND		0/7
IS-1,3-DICHLOROPROPENE	UG/KG	10 U		11 U		ND		0/7
DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
DIBROMOCHLOROMETHANE	UG/KG	10 U		11 U		ND		0/7
1,2-TRICHLOROETHANE	UG/KG	10 U		11 U		ND		0/7
BENZENE	UG/KG	10 U		11 U		ND		0/7
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U		11 U		ND		0/7
DIBROMOFORM	UG/KG	10 U		11 U		ND		0/7
2-METHYL-2-PENTANONE	UG/KG	10 U		11 U		ND		0/7
HEXANONE	UG/KG	10 U		11 U		ND		0/7
1,1,1-TRICHLOROETHENE	UG/KG	10 U		11 U		21	9-AST-SB3-00	1/7
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U		11 U		ND		0/7
1,1-DICHLOROETHENE	UG/KG	10 U		11 U		2 J	9-TPO-SB43-00	1/7
1,2-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,4-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,2-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,3-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,4-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,2-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,3-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,4-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,2-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,3-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
1,4-DICHLOROETHENE	UG/KG	10 U		11 U		ND		0/7
<u>SEMIVOLATILES</u>								
BENZENE	UG/KG	340 U		360 U		ND		0/7
1,3-DICHLOROETHYL ETHER	UG/KG	340 U		360 U		ND		0/7
2-CHLOROPHENOL	UG/KG	340 U		360 U		ND		0/7
1,3-DICHLOROBENZENE	UG/KG	340 U		360 U		ND		0/7
1,4-DICHLOROBENZENE	UG/KG	340 U		360 U		ND		0/7
1,2-DICHLOROBENZENE	UG/KG	340 U		360 U		ND		0/7
2-METHYLPHENOL	UG/KG	340 U		360 U		ND		0/7
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	340 U		360 U		ND		0/7
4-METHYLPHENOL	UG/KG	340 U		360 U		ND		0/7
N-NITROSODI-N-PROPYLAMINE	UG/KG	340 U		360 U		ND		0/7
HEXACHLOROETHANE	UG/KG	340 U		360 U		ND		0/7
NITROBENZENE	UG/KG	340 U		360 U		ND		0/7
ISOPHORONE	UG/KG	340 U		360 U		ND		0/7
2-NITROPHENOL	UG/KG	340 U		360 U		ND		0/7
2,4-DIMETHYLPHENOL	UG/KG	340 U		360 U		ND		0/7
BIS(2-CHLOROETHOXY) METHANE	UG/KG	340 U		360 U		ND		0/7
2,4-DICHLOROPHENOL	UG/KG	340 U		360 U		ND		0/7
1,2,4-TRICHLOROBENZENE	UG/KG	340 U		360 U		ND		0/7
NAPHTHALENE	UG/KG	340 U		360 U		ND		0/7
4-CHLORANILINE	UG/KG	340 U		360 U		ND		0/7
HEXACHLOROBUTADIENE	UG/KG	340 U		360 U		ND		0/7

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	Sample No:		Date Sampled:		LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
		Depth:	Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED		
SEMIVOLATILES Cont.							
-CHLORO-3-METHYLPHENOL	UG/KG	340 U	360 U	ND	ND		0/7
-METHYLNAPHTHALENE	UG/KG	340 U	360 U	ND	ND		0/7
HEXACHLOROCYCLOPENTADIENE	UG/KG	340 U	360 U	ND	ND		0/7
4,6-TRICHLOROPHENOL	UG/KG	340 U	360 U	ND	ND		0/7
4,5-TRICHLOROPHENOL	UG/KG	820 U	870 U	ND	ND		0/7
-CHLORONAPHTHALENE	UG/KG	340 U	360 U	ND	ND		0/7
-NITROANILINE	UG/KG	820 U	870 U	ND	ND		0/7
1-METHYL PHTHALATE	UG/KG	340 U	360 U	ND	ND		0/7
1-CENAPHTHYLENE	UG/KG	340 U	360 U	ND	ND		0/7
1,5-DINITROTOLUENE	UG/KG	340 U	360 U	ND	ND		0/7
-NITROANILINE	UG/KG	820 U	870 U	ND	ND		0/7
1-CENAPHTHENE	UG/KG	340 U	360 U	ND	ND		0/7
1,4-DINITROPHENOL	UG/KG	820 U	870 U	ND	ND		0/7
-NITROPHENOL	UG/KG	820 U	870 U	ND	ND		0/7
1,2,4-TRIBENZOFURAN	UG/KG	340 U	360 U	ND	ND		0/7
4-DINITROTOLUENE	UG/KG	340 U	360 U	ND	ND		0/7
1,2,3-TRIMETHYL PHTHALATE	UG/KG	340 U	360 U	ND	ND		0/7
-CHLOROPHENYL PHENYL ETHER	UG/KG	340 U	360 U	ND	ND		0/7
1,2,3-TRIMETHYLBENZENE	UG/KG	340 U	360 U	ND	ND		0/7
-NITROANILINE	UG/KG	820 U	870 U	ND	ND		0/7
1,4-DINITRO-2-METHYLPHENOL	UG/KG	820 U	870 U	ND	ND		0/7
-NITRISODIPHENYLAMINE	UG/KG	340 U	360 U	ND	ND		0/7
1,2-DIBROMOPHENYL PHENYL ETHER	UG/KG	340 U	360 U	ND	ND		0/7
HEXACHLOROBENZENE	UG/KG	340 U	360 U	ND	ND		0/7
PENTACHLOROPHENOL	UG/KG	820 U	870 U	ND	ND		0/7
PHENANTHRENE	UG/KG	340 U	360 U	ND	ND		0/7
ANTHRACENE	UG/KG	340 U	360 U	ND	ND		0/7
DI-N-BUTYL PHTHALATE	UG/KG	340 U	360 U	ND	ND		0/7
FLUORANTHENE	UG/KG	340 U	360 U	ND	ND		0/7
CARBAZOLE	UG/KG	340 U	360 U	ND	ND		0/7
PYRENE	UG/KG	340 UJ	360 UJ	59 J	59 J	9-AST-SB1-00	1/7
BUTYL BENZYL PHTHALATE	UG/KG	340 U	360 U	ND	ND		0/7
3,3-DICHLOROBENZIDINE	UG/KG	340 U	360 U	ND	ND		0/7
BENZO(A)ANTHRACENE	UG/KG	340 U	360 U	ND	ND		0/7
CHRYSENE	UG/KG	340 U	360 U	ND	ND		0/7
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	340 U	360 U	71 J	71 J	9-AST-SB3-00	1/7
DI-N-OCTYL PHTHALATE	UG/KG	340 U	360 U	ND	ND		0/7
BENZO(B)FLUORANTHENE	UG/KG	340 U	360 U	46 J	46 J	9-AST-SB1-00	1/7
BENZO(K)FLUORANTHENE	UG/KG	340 U	360 U	ND	ND		0/7
BENZO(A)PYRENE	UG/KG	340 U	360 U	ND	ND		0/7
INDENO(1,2,3-CD) PYRENE	UG/KG	340 U	360 U	ND	ND		0/7
DIBENZ(A,H)ANTHRACENE	UG/KG	340 U	360 U	ND	ND		0/7
BENZO(G,H,I)PERYLENE	UG/KG	340 U	360 U	ND	ND		0/7

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MGB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	9-AST-SB1-00	9-AST-SB13-00	9-AST-SB15-00	9-AST-SB3-00	9-TPO-SB35-00	9-TPO-SB43-00
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/15/92	9/16/92	9/16/92	9/15/92	9/22/92	10/26/92
Lab Id:	00517-05	00517-09	00517-11	00517-07	00536-20	00593-44

Parameter	Units	9-AST-SB1-00	9-AST-SB13-00	9-AST-SB15-00	9-AST-SB3-00	9-TPO-SB35-00	9-TPO-SB43-00
LUMINUM	MG/KG	1510	2180	1890	2400	1660	4510
ANTIMONY	MG/KG	2.6 U	2.6 U	2.8 UJ	2.3 U	2.4 UJ	2.7 UJ
ARSENIC	MG/KG	0.6 UJ	0.6 UJ	0.52 UJ	0.59 UJ	0.6 U	0.5 U
BARIUM	MG/KG	5.9 JB	4.9 JB	5.2 JB	6.4 JB	8.9 B	7.3 B
BERYLLIUM	MG/KG	0.06 UJ	0.06 UJ	0.05 UJ	0.05 UJ	0.05 U	0.06 U
CADMIUM	MG/KG	0.51 UJ	0.35 U	0.47 UJ	0.48 UJ	0.42 UJ	0.36 UJ
CHLORINE	MG/KG	47100	3960	369 B	219 U	1820	1570
CHROMIUM	MG/KG	5.1	3.4	1.7 B	1.8	2.5	4
COPPER	MG/KG	0.5 JB	0.76 JB	0.34 U	0.85 JB	0.34 U	0.38 UJ
COPPER	MG/KG	2 UJ	1.1 UJ	1.1 UJ	1.3 UJ	2.8 JB	2.3 JB
COPPER	MG/KG	1260	1090	861	1020	813	1200
CAD	MG/KG	25.7	4.1	11.2	11.3	21	6.5
CADMIUM	MG/KG	811 B	111 U	64.2 U	38.7 U	70.3 B	159 B
CADMIUM	MG/KG	14.7	4.1	4.5	6.4	6.1	9.9
MERCURY	MG/KG	0.02 U	0.03 B	0.02 B	0.02 B	0.02 B	0.02 U
MANGANESE	MG/KG	1.5 UJ	1.4 UJ	1.4 UJ	1.3 UJ	1.3 U	1.5 UJ
POTASSIUM	MG/KG	122 B	61.3 JB	51.9 JB	20.6 JB	59.5 JB	152 B
ZINC	MG/KG	0.98 U	0.99 U	1 U	1.1 U	1 U	0.83 U
ZINC	MG/KG	0.58 UJ	0.44 UJ	0.34 UJ	0.38 UJ	0.34 U	0.38 UJ
ZINC	MG/KG	106 JB	25.9 UJ	20 UJ	14.5 UJ	17.9 UJ	29.3 UJ
SODIUM	MG/KG	0.39 UJ	0.39 U	0.41 U	0.42 U	0.4 UJ	0.33 U
SODIUM	MG/KG	3.7 JB	3.4 JB	2.7 JB	3.3 JB	2.9 JB	4.8 B
SODIUM	MG/KG	12.4 U	4 U	4.6 U	18.1	17.5	10.7

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No: 9-TPO-SB54-00
 Depth: N/A
 Date Sampled: 10/26/92
 Lab Id: 00593-45

Parameter	Units	
ALUMINUM	MG/KG	2800
ANTIMONY	MG/KG	2.3 UJ
ARSENIC	MG/KG	0.58 U
ARIUM	MG/KG	5.2 UJ
ERYLLIUM	MG/KG	0.05 U
ADMIIUM	MG/KG	0.31 UJ
ALCIUM	MG/KG	179 B
HRONIUM	MG/KG	2.4
OBALT	MG/KG	0.38 U
OPPER	MG/KG	0.93 JB
IRON	MG/KG	1070
LEAD	MG/KG	4.8
MAGNESIUM	MG/KG	64 B
MANGANESE	MG/KG	9.1
MERCURY	MG/KG	0.02 U
NICKEL	MG/KG	1.3 UJ
POTASSIUM	MG/KG	51.7 B
SELENIUM	MG/KG	0.97 U
SILVER	MG/KG	0.33 UJ
SODIUM	MG/KG	19.1 UJ
THALLIUM	MG/KG	0.39 U
TITANIUM	MG/KG	3.6 B
ZINC	MG/KG	6.8

CLEJ-01272-3.13-08/20/93

SITE 9 SURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Units	Sample No:	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	LOCATION OF	FREQUENCY
		Depth:	NONDETECTED	NONDETECTED	DETECTED	DETECTED	MAXIMUM	OF
		Date Sampled:					DETECTED	DETECTION
		Lab Id:						
ALUMINUM	MG/KG		NA	NA	1510	4510	9-TPO-SB43-00	7/7
ANTIMONY	MG/KG		2.3 U	2.8 UJ	ND	ND		0/7
ARSENIC	MG/KG		0.5 U	0.6 UJ	ND	ND		0/7
BARIUM	MG/KG		5.2 UJ	5.2 UJ	4.9 JB	8.9 B	9-TPO-SB35-00	6/7
BERYLLIUM	MG/KG		0.05 UJ	0.06 UJ	ND	ND		0/7
BISMUTH	MG/KG		0.31 UJ	0.51 UJ	ND	ND		0/7
CADMIUM	MG/KG		219 U	219 U	179 B	47100	9-AST-SB1-00	6/7
CROMIUM	MG/KG		NA	NA	1.7 B	5.1	9-AST-SB1-00	7/7
COPPER	MG/KG		0.34 U	0.38 UJ	0.5 JB	0.85 JB	9-AST-SB3-00	3/7
COPPER	MG/KG		1.1 UJ	2 UJ	0.93 JB	2.8 JB	9-TPO-SB35-00	3/7
COPPER	MG/KG		NA	NA	813	1260	9-AST-SB1-00	7/7
COPPER	MG/KG		NA	NA	4.1	25.7	9-AST-SB1-00	7/7
MAGNESIUM	MG/KG		38.7 U	111 U	64 B	811 B	9-AST-SB1-00	4/7
MANGANESE	MG/KG		NA	NA	4.1	14.7	9-AST-SB1-00	7/7
MERCURY	MG/KG		0.02 U	0.02 U	0.02 B	0.03 B	9-AST-SB13-00	4/7
MOLYBDENUM	MG/KG		1.3 UJ	1.5 UJ	ND	ND		0/7
POTASSIUM	MG/KG		NA	NA	20.6 JB	152 B	9-TPO-SB43-00	7/7
SILICON	MG/KG		0.83 U	1.1 U	ND	ND		0/7
SILICON	MG/KG		0.33 UJ	0.58 UJ	ND	ND		0/7
SODIUM	MG/KG		14.5 UJ	29.3 UJ	106 JB	106 JB	9-AST-SB1-00	1/7
SODIUM	MG/KG		0.33 U	0.42 U	ND	ND		0/7
SODIUM	MG/KG		NA	NA	2.7 JB	4.8 B	9-TPO-SB43-00	7/7
ZINC	MG/KG		4 U	12.4 U	6.8	18.1	9-AST-SB3-00	4/7

CLEJ-01272-3.13-08/20/93

L.8

Site 9 - Subsurface Soil, Organic and Inorganic

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-AST-GW7-03	9-AST-GW7-04	9-AST-SB1-03	9-AST-SB13-02	9-AST-SB15-02	9-AST-SB3-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/15/92	9/16/92	9/16/92	9/15/92
Lab Id:	00536-33	00536-34	00517-06	00517-10	00517-12	00517-08

Parameter	Units	9-AST-GW7-03	9-AST-GW7-04	9-AST-SB1-03	9-AST-SB13-02	9-AST-SB15-02	9-AST-SB3-02
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
BETA-BHC	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
DELTA-BHC	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
GAMMA-BHC(LINDANE)	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
EPTACHLOR	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
LDRIN	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
EPTACHLOR EPOXIDE	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
NDOSULFAN I	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
HELDRLIN	UG/KG	3.9 U	3.8 U	3.4 UJ	3.5 UJ	3.4 UJ	3.3 UJ
P-DDE	UG/KG	3.9 U	3.8 U	3.4 UJ	3.5 UJ	3.4 UJ	3.3 UJ
NDRIN	UG/KG	3.9 U	3.8 U	3.4 UJ	3.5 UJ	3.4 UJ	3.3 UJ
NDOSULFAN II	UG/KG	3.9 U	3.8 U	3.4 UJ	3.5 UJ	3.4 UJ	3.3 UJ
P-DDD	UG/KG	3.9 U	3.8 U	3.4 UJ	3.5 UJ	3.4 UJ	3.3 UJ
NDOSULFAN SULFATE	UG/KG	3.9 U	3.8 U	3.4 UJ	3.5 UJ	3.4 UJ	3.3 UJ
P-DDT	UG/KG	3.9 U	3.8 U	3.4 UJ	4.4 UJ	3.4 UJ	3.3 UJ
ETHOXYCHLOR	UG/KG	20 U	20 U	17 UJ	18 UJ	18 UJ	17 UJ
NDRIN KETONE	UG/KG	3.9 U	3.8 U	3.4 UJ	3.5 UJ	3.4 UJ	3.3 UJ
NDRIN ALDEHYDE	UG/KG	3.9 U	3.8 U	3.4 UJ	3.5 UJ	3.4 UJ	3.3 UJ
ALPHA CHLORDANE	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
GAMMA CHLORDANE	UG/KG	2 U	2 U	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ
DIXAPHENE	UG/KG	200 U	200 U	170 UJ	180 UJ	180 UJ	170 UJ
CB-1016	UG/KG	39 U	38 U	34 UJ	35 UJ	34 UJ	33 UJ
CB-1221	UG/KG	80 U	78 U	69 UJ	70 UJ	70 UJ	67 UJ
CB-1232	UG/KG	39 U	38 U	34 UJ	35 UJ	34 UJ	33 UJ
PCB-1242	UG/KG	39 U	38 U	34 UJ	35 UJ	34 UJ	33 UJ
PCB-1248	UG/KG	39 U	38 U	34 UJ	35 UJ	34 UJ	33 UJ
PCB-1254	UG/KG	39 U	38 U	34 UJ	35 UJ	34 UJ	33 UJ
PCB-1260	UG/KG	39 U	38 U	34 UJ	35 UJ	34 UJ	33 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
BROMOMETHANE	UG/KG	12 U	12 U	11 UJ	11 U	11 U	11 U
VINYL CHLORIDE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
CHLOROETHANE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
ACETONE	UG/KG	12 U	18 U	11 U	15 U	17 U	11 U
CARBON DISULFIDE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	12 UJ	12 UJ	11 U	11 U	11 UJ	11 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
CHLOROFORM	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	12 UJ	12 UJ	11 U	11 U	11 U	11 U
2-BUTANONE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-AST-GW7-03	9-AST-GW7-04	9-AST-SB1-03	9-AST-SB13-02	9-AST-SB15-02	9-AST-SB3-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/15/92	9/16/92	9/16/92	9/15/92
Lab Id:	00536-33	00536-34	00517-06	00517-10	00517-12	00517-08

Parameter	Units	9-AST-GW7-03	9-AST-GW7-04	9-AST-SB1-03	9-AST-SB13-02	9-AST-SB15-02	9-AST-SB3-02
<u>VOLATILES Cont.</u>							
1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
2-DICHLOROPROPANE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
IS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
TRICHLOROETHENE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
ISOBROMOCHLOROMETHANE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
BENZENE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
BROMOFORM	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
2-METHYL-2-PENTANONE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
HEXANONE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
1,1-DIBROMOETHANE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
CHLOROBENZENE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
ETHYLBENZENE	UG/KG	12 U	12 U	11 U	11 U	11 U	11 U
STYRENE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
METHYLBENZENE	UG/KG	12 U	12 U	11 U	11 U	11 UJ	11 U
<u>SEMIVOLATILES</u>							
1-PHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
1-(2-CHLOROETHYL) ETHER	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
2-CHLOROPHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
1,3-DICHLOROBENZENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
1,4-DICHLOROBENZENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
1,2-DICHLOROBENZENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
2-METHYLPHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
4-METHYLPHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
HEXACHLOROETHANE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
NITROBENZENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
ISOPHORONE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
2-NITROPHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
2,4-DIMETHYLPHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
2,4-DICHLOROPHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
1,2,4-TRICHLOROBENZENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
NAPHTHALENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
4-CHLORANILINE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
HEXACHLOROBTADIENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-AST-GW7-03	9-AST-GW7-04	9-AST-SB1-03	9-AST-SB13-02	9-AST-SB15-02	9-AST-SB3-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/15/92	9/16/92	9/16/92	9/15/92
Lab Id:	00536-33	00536-34	00517-06	00517-10	00517-12	00517-08

Parameter	Units	9-AST-GW7-03	9-AST-GW7-04	9-AST-SB1-03	9-AST-SB13-02	9-AST-SB15-02	9-AST-SB3-02
SEMIVOLATILES Cont.							
-CHLORO-3-METHYLPHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
-METHYLNAPHTHALENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
4,6-TRICHLOROPHENOL	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
4,5-TRICHLOROPHENOL	UG/KG	940 U	930 U	830 U	850 U	830 U	820 U
-CHLORONAPHTHALENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
-NITROANILINE	UG/KG	940 U	930 U	830 U	850 U	830 U	820 U
IMETHYL PHTHALATE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
CENAPHTHYLENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
6-DINITROTOLUENE	UG/KG	390 UJ	380 UJ	340 U	350 U	340 U	340 U
-NITROANILINE	UG/KG	940 U	930 U	830 U	850 U	830 U	820 U
CENAPHTHENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
4-DINITROPHENOL	UG/KG	940 U	930 U	830 U	850 U	830 U	820 U
-NITROPHENOL	UG/KG	940 U	930 U	830 U	850 U	830 U	820 U
IBENZOPURAN	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
4-DINITROTOLUENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
METHYL PHTHALATE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
-CHLOROPHENYL PHENYL ETHER	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
LUORENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
-NITROANILINE	UG/KG	940 U	930 U	830 U	850 U	830 U	820 U
5-DINITRO-2-METHYLPHENOL	UG/KG	940 U	930 U	830 U	850 U	830 U	820 U
-NITRISODIPHENYLAMINE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
-BROMOPHENYL PHENYL ETHER	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
TRICHLOROBENZENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
PENTACHLOROPHENOL	UG/KG	940 U	930 U	830 U	850 U	830 U	820 U
PHENANTHRENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
ANTHRACENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
DI-N-BUTYL PHTHALATE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
FLUORANTHENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
CARBAZOLE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
PYRENE	UG/KG	390 U	380 U	340 UJ	350 UJ	340 UJ	340 U
BUTYL BENZYL PHTHALATE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
3,3-DICHLOROBENZIDINE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
BENZO(A)ANTHRACENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
CHRYSENE	UG/KG	390 U	380 U	340 U	350 U	340 U	340 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	390 U	380 U	340 U	350 U	340 U	66 J
DI-N-OCTYL PHTHALATE	UG/KG	390 UJ	380 U	340 U	350 U	340 U	340 U
BENZO(B)FLUORANTHENE	UG/KG	390 UJ	380 U	340 U	350 U	340 U	340 U
BENZO(K)FLUORANTHENE	UG/KG	390 UJ	380 U	340 U	350 U	340 U	340 U
BENZO(A)PYRENE	UG/KG	390 UJ	380 U	340 U	350 U	340 U	340 U
INDENO(1,2,3-CD) PYRENE	UG/KG	390 UJ	380 U	340 U	350 U	340 U	340 U
DIBENZ(A,H)ANTHRACENE	UG/KG	390 UJ	380 U	340 U	350 U	340 U	340 U
BENZO(G,H,I)PERYLENE	UG/KG	390 UJ	380 U	340 U	350 U	340 U	340 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-GW4-04	9-GW4-05	9-GW5-02	9-GW5-03	9-GW7D-04A	9-GW7D-04B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/22/92	9/22/92	9/25/92	9/25/92
Lab Id:	00536-07	00536-08	00536-09	00536-10	00544-14	00544-15

Parameter	Units	9-GW4-04	9-GW4-05	9-GW5-02	9-GW5-03	9-GW7D-04A	9-GW7D-04B
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
BETA-BHC	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
DELTA-BHC	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
GAMMA-BHC(LINDANE)	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
HEPTACHLOR	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
LDRIN	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
HEPTACHLOR EPOXIDE	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
NDOSULFAN I	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
HELDRLIN	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
4'-DDE	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
NDRIN	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
NDOSULFAN II	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
4'-DDD	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
NDOSULFAN SULFATE	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
4'-DDT	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
METHOXYCHLOR	UG/KG	20 UJ	21 UJ	19 UJ	21 U	19 U	20 U
NDRIN KETONE	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
NDRIN ALDEHYDE	UG/KG	3.9 UJ	4.1 UJ	3.6 UJ	4.1 U	3.7 U	3.8 U
ALPHA CHLORDANE	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
GAMMA CHLORDANE	UG/KG	2 UJ	2.1 UJ	1.9 UJ	2.1 U	1.9 U	2 U
DIXAPHENE	UG/KG	200 UJ	210 UJ	190 UJ	210 U	190 U	200 U
CB-1016	UG/KG	39 UJ	41 UJ	36 UJ	41 U	37 U	38 U
CB-1221	UG/KG	80 UJ	83 UJ	74 UJ	83 U	75 U	78 U
CB-1232	UG/KG	39 UJ	41 UJ	36 UJ	41 U	37 U	38 U
PCB-1242	UG/KG	39 UJ	41 UJ	36 UJ	41 U	37 U	38 U
PCB-1248	UG/KG	39 UJ	41 UJ	36 UJ	41 U	37 U	38 U
PCB-1254	UG/KG	39 UJ	41 UJ	36 UJ	41 U	37 U	38 U
PCB-1260	UG/KG	39 UJ	41 UJ	36 UJ	41 U	37 U	38 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
BROMOMETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
VINYL CHLORIDE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
CHLOROETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	38 U	12 U	11 U	12 U
ACETONE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
CARBON DISULFIDE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	10 UJ	12 U	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
CHLOROFORM	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
2-BUTANONE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-GW4-04	9-GW4-05	9-GW5-02	9-GW5-03	9-GW7D-04A	9-GW7D-04B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/22/92	9/22/92	9/25/92	9/25/92
Lab Id:	00536-07	00536-08	00536-09	00536-10	00544-14	00544-15

Parameter	Units	9-GW4-04	9-GW4-05	9-GW5-02	9-GW5-03	9-GW7D-04A	9-GW7D-04B
<u>VOLATILES Cont.</u>							
1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
IS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
TRICHLOROETHENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
BROMOCHLOROMETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
ENZENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
FORM FORMALDEHYDE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
2-METHYL-2-PENTANONE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
HEXANONE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
CHLORUENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
CHLOROBENZENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
ETHYLBENZENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
TYRENE	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
OTAXYLENES	UG/KG	12 U	12 U	10 U	12 U	11 U	12 U
<u>SEMIVOLATILES</u>							
BENZOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
2-CHLOROPHENOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
1,3-DICHLOROBENZENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
1,4-DICHLOROBENZENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
1,2-DICHLOROBENZENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
2-METHYLPHENOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG	390 U	410 U	360 U	410 U	370 UJ	380 UJ
4-METHYLPHENOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	390 U	410 U	360 U	410 U	370 UJ	380 UJ
HEXACHLOROETHANE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
NITROBENZENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
ISOPHORONE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
2-NITROPHENOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
2,4-DIMETHYLPHENOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
2,4-DICHLOROPHENOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
1,2,4-TRICHLOROBENZENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
NAPHTHALENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
4-CHLORANILINE	UG/KG	390 U	410 U	360 U	410 U	370 UJ	380 UJ
HEXACHLOROBUTADIENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-GW4-04	9-GW4-05	9-GW5-02	9-GW5-08	9-GW7D-04A	9-GW7D-04B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/22/92	9/22/92	9/23/92	9/23/92
Lab Id:	00536-07	00536-08	00536-09	00536-10	00544-14	00544-15

Parameter	Units	9-GW4-04	9-GW4-05	9-GW5-02	9-GW5-08	9-GW7D-04A	9-GW7D-04B
SEMIVOLATILES Cont.							
-CHLORO-3-METHYLPHENOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
-METHYLNAPHTHALENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
EXACHLOROCYCLOPENTADIENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
1,6-TRICHLOROPHENOL	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
1,5-TRICHLOROPHENOL	UG/KG	950 U	990 U	880 U	1000 U	890 U	930 U
-CHLORONAPHTHALENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
-NITROANILINE	UG/KG	950 U	990 U	880 U	1000 U	890 U	930 U
METHYL PHTHALATE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
MENAPHTHYLENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
-DINITROTOLUENE	UG/KG	390 U	410 U	360 U	410 U	370 UJ	380 UJ
NITROANILINE	UG/KG	950 U	990 U	880 U	1000 U	890 U	930 U
MENAPHTHENE	UG/KG	390 U	280 J	360 U	410 U	370 U	380 U
-DINITROPHENOL	UG/KG	950 U	990 U	880 U	1000 U	890 UJ	930 UJ
NITROPHENOL	UG/KG	950 UJ	990 UJ	880 UJ	1000 UJ	890 UJ	930 UJ
BENZOPURAN	UG/KG	390 U	73 J	360 U	410 U	370 U	380 U
-DINITROTOLUENE	UG/KG	390 U	410 U	360 U	410 U	370 UJ	380 UJ
ETHYL PHTHALATE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
CHLOROPHENYL PHENYL ETHER	UG/KG	390 U	410 U	360 U	410 U	370 UJ	380 UJ
URENE	UG/KG	390 U	140 J	360 U	410 U	370 UJ	380 UJ
NITROANILINE	UG/KG	950 U	990 U	880 U	1000 U	890 UJ	930 UJ
-DINITRO-2-METHYLPHENOL	UG/KG	950 U	990 U	880 U	1000 U	890 UJ	930 UJ
-NITRISODIPHENYLAMINE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
BROMOPHENYL PHENYL ETHER	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
XACHLOROENZENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
PENTACHLOROPHENOL	UG/KG	950 U	990 U	880 U	1000 U	890 UJ	930 UJ
PHENANTHRENE	UG/KG	41 J	1200	360 U	410 U	370 U	380 U
ANTHRACENE	UG/KG	390 U	140 J	360 U	410 U	370 U	380 U
DI-N-BUTYL PHTHALATE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
FLUORANTHENE	UG/KG	390 U	1700	360 U	410 U	370 UJ	380 UJ
CARBAZOLE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
PYRENE	UG/KG	390 U	1800	360 U	410 U	370 UJ	380 UJ
BUTYL BENZYL PHTHALATE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
3,3-DICHLOROBENZIDINE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
BENZO(A)ANTHRACENE	UG/KG	390 U	540	360 U	410 U	370 U	380 U
CHRYSENE	UG/KG	390 U	400 J	360 U	410 U	370 UJ	380 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	390 U	410 U	360 U	410 U	370 UJ	380 UJ
DI-N-OCTYL PHTHALATE	UG/KG	390 U	410 U	360 U	410 U	370 UJ	380 UJ
BENZO(B)FLUORANTHENE	UG/KG	390 U	640	360 U	410 U	370 U	380 U
BENZO(K)FLUORANTHENE	UG/KG	390 U	340 J	360 U	410 U	370 U	380 U
BENZO(A)PYRENE	UG/KG	390 U	370 J	360 U	410 U	370 U	380 U
INDENO(1,2,3-CD) PYRENE	UG/KG	390 U	190 J	360 U	410 U	370 U	380 U
DIBENZ(A,H)ANTHRACENE	UG/KG	390 U	410 U	360 U	410 U	370 U	380 U
BENZO(G,H,I)PERYLENE	UG/KG	390 U	200 J	360 U	410 U	370 U	380 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-TPO-GW6-02	9-TPO-GW6-04	9-TPO-GW8-01	9-TPO-GW8-03	9-TPO-SB21-01	9-TPO-SB21-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/23/92	9/23/92	9/16/92	9/16/92
Lab Id:	00536-14	00536-15	00536-16	00536-17	00527-01	00527-02

Parameter	Units	9-TPO-GW6-02	9-TPO-GW6-04	9-TPO-GW8-01	9-TPO-GW8-03	9-TPO-SB21-01	9-TPO-SB21-04
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
ETA-BHC	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
DELTA-BHC	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
EPTACHLOR	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
LDRIN	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
EPTACHLOR EPOXIDE	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
NDOSULFAN I	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
HELDRLIN	UG/KG	3.6 U	4.1 UJ	3.4 UJ	4 U	3.5 U	4 UJ
P-DDE	UG/KG	3.6 U	4.1 UJ	3.4 UJ	4 U	3.5 U	4 UJ
NDRIN	UG/KG	3.6 U	4.1 UJ	3.4 UJ	4 U	3.5 U	4 UJ
NDOSULFAN II	UG/KG	3.6 U	4.1 UJ	3.4 UJ	4 U	3.5 U	4 UJ
P-DDD	UG/KG	3.6 U	4.1 UJ	3.4 UJ	4 U	3.5 U	4 UJ
NDOSULFAN SULFATE	UG/KG	3.6 U	4.1 UJ	3.4 UJ	4 U	3.5 U	4 UJ
P-DDT	UG/KG	3.6 U	4.1 UJ	7.7 J	4 U	3.5 U	4 UJ
ETHOXYCHLOR	UG/KG	18 U	21 UJ	17 UJ	21 U	18 U	20 UJ
NDRIN KETONE	UG/KG	3.6 U	4.1 UJ	3.4 UJ	4 U	3.5 U	4 UJ
NDRIN ALDEHYDE	UG/KG	3.6 U	4.1 UJ	3.4 UJ	4 U	3.5 U	4 UJ
ALPHA CHLORDANE	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
GAMMA CHLORDANE	UG/KG	1.8 U	2.1 UJ	1.7 UJ	2.1 U	1.8 U	2 UJ
DIXAPHENE	UG/KG	180 U	210 UJ	170 UJ	210 U	180 U	200 UJ
B-1016	UG/KG	36 U	41 UJ	34 UJ	40 U	35 U	40 UJ
B-1221	UG/KG	72 U	83 UJ	68 UJ	82 U	70 U	80 UJ
B-1232	UG/KG	36 U	41 UJ	34 UJ	40 U	35 U	40 UJ
PCB-1242	UG/KG	36 U	41 UJ	34 UJ	40 U	35 U	40 UJ
PCB-1248	UG/KG	36 U	41 UJ	34 UJ	40 U	35 U	40 UJ
PCB-1254	UG/KG	36 U	41 UJ	34 UJ	40 U	35 U	40 UJ
PCB-1260	UG/KG	36 U	41 UJ	34 UJ	40 U	35 U	40 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
BROMOMETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
VINYL CHLORIDE	UG/KG	12 U	12 U	11 U	13 U	11 UJ	12 UJ
CHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	11 U	22 U	11 U	12 U
ACETONE	UG/KG	12 U	12 U	11 U	17 U	7 J	7 J
CARBON DISULFIDE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 UJ	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
CHLOROFORM	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
2-BUTANONE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-TPO-GW6-02	9-TPO-GW6-04	9-TPO-GW8-01	9-TPO-GW8-03	9-TPO-SB21-01	9-TPO-SB21-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/23/92	9/23/92	9/16/92	9/16/92
Lab Id:	00536-14	00536-15	00536-16	00536-17	00527-01	00527-02

parameter	Units						
VOLATILES Cont.							
1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,1-DICHLOROMETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 U	13 U	11 UJ	12 UJ
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
BROMOCHLOROMETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 U	13 U	11 UJ	12 UJ
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,3-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,3-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
1,3-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U	11 U	12 U
SEMIVOLATILES							
1,1-DICHLOROETHANE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1,2-DICHLOROETHANE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2-CHLOROPHENOL	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1,3-DICHLOROBENZENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1,4-DICHLOROBENZENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1,2-DICHLOROBENZENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2-METHYLPHENOL	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2,2-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
4-METHYLPHENOL	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
HEXACHLOROETHANE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
NITROBENZENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
ISOPHORONE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2-NITROPHENOL	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2,4-DIMETHYLPHENOL	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2,4-DICHLOROPHENOL	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1,2,4-TRICHLOROBENZENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
NAPHTHALENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
4-CHLORANILINE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
HEXACHLOROBUTADIENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-TPO-GW6-02	9-TPO-GW6-04	9-TPO-GW8-01	9-TPO-GW8-03	9-TPO-SB21-01	9-TPO-SB21-04	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	9/23/92	9/23/92	9/23/92	9/23/92	9/16/92	9/16/92	
Lab Id:	00536-14	00536-15	00536-16	00536-17	00527-01	00527-02	
Parameter	Units						
SEMIVOLATILES Cont.							
1-CHLORO-3-METHYLPHENOL	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-METHYLNAPHTHALENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2,4,6-TRICHLOROPHENOL	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2,4,5-TRICHLOROPHENOL	UG/KG	860 U	990 U	810 U	970 U	840 U	950 U
2-CHLORONAPHTHALENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2-NITROANILINE	UG/KG	860 U	990 U	810 U	970 U	840 U	950 U
1-METHYL PHTHALATE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-CENAPHTHYLENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2,6-DINITROTOLUENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2-NITROANILINE	UG/KG	860 U	990 U	810 U	970 U	840 U	950 U
1-CENAPHTHENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2,4-DINITROPHENOL	UG/KG	860 U	990 U	810 U	970 U	840 U	950 U
2-NITROPHENOL	UG/KG	860 U	990 U	810 U	970 U	840 U	950 U
1-BENZOFURAN	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2,4-DINITROTOLUENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-METHYL PHTHALATE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-LUORENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2-NITROANILINE	UG/KG	860 U	990 U	810 U	970 U	840 U	950 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG	860 U	990 U	810 U	970 U	840 U	950 U
2-NITRISODIPHENYLAMINE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
2-BROMOPHENYL PHENYL ETHER	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1,2,3,4-TETRACHLOROBENZENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-PENTACHLOROPHENOL	UG/KG	860 U	990 U	810 U	970 U	840 U	950 U
1-PHENANTHRENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-ANTHRACENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-DI-N-BUTYL PHTHALATE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-FLUORANTHENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-CARBAZOLE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-PYRENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-BUTYL BENZYL PHTHALATE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1,3-DICHLOROBENZIDINE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-BENZO(A)ANTHRACENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-CHRYSENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-DI-N-OCTYL PHTHALATE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-BENZO(B)FLUORANTHENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-BENZO(K)FLUORANTHENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-BENZO(A)PYRENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-INDENO(1,2,3-CD)PYRENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-DIBENZ(A,H)ANTHRACENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U
1-BENZO(G,H,I)PERYLENE	UG/KG	350 U	410 U	330 U	400 U	350 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-TPO-SB24-01	9-TPO-SB24-03	9-TPO-SB25-01	9-TPO-SB25-03	9-TPO-SB31-01	9-TPO-SB31-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/16/92	9/16/92	9/22/92	9/22/92	9/22/92	9/22/92
Lab Id:	00527-03	00527-04	00536-03	00536-04	00536-18	00536-19

Parameter	Units	9-TPO-SB24-01	9-TPO-SB24-03	9-TPO-SB25-01	9-TPO-SB25-03	9-TPO-SB31-01	9-TPO-SB31-03
<u>PESTICIDE/PCBS</u>							
LPHA-BHC	UG/KG	1.9 U	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
ETA-BHC	UG/KG	1.9 U	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
ELTA-BHC	UG/KG	1.9 U	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
AMMA-BHC(LINDANE)	UG/KG	1.9 U	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
EPTACHLOR	UG/KG	1.9 U	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
LDNRIN	UG/KG	1.9 U	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
EPTACHLOR EPOXIDE	UG/KG	1.9 U	3.6 U	1.8 UJ	1.9 UJ	1.8 U	3.6 U
NDOSULFAN I	UG/KG	1.9 U	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
ELDRIN	UG/KG	3.6 U	7 U	3.5 U	3.6 UJ	3.4 U	7.1 U
'-DDE	UG/KG	21	28	3.5 U	3.6 UJ	17	39
IDRIN	UG/KG	3.6 U	7 U	3.5 U	3.6 UJ	3.4 U	7.1 U
NDOSULFAN II	UG/KG	3.6 U	7 U	3.5 U	3.6 UJ	3.4 U	7.1 U
'-DDD	UG/KG	32	11 J	9.4	3.6 UJ	50	16
NDOSULFAN SULFATE	UG/KG	3.6 U	7 U	3.5 U	3.6 UJ	3.4 U	7.1 U
'-DDT	UG/KG	4	62	3.5 U	3.6 UJ	7.2	23
ETHOXYCHLOR	UG/KG	19 U	36 U	1.8 U	1.9 UJ	47 U	36 U
NDRIN KETONE	UG/KG	3.6 U	7 U	3.5 U	3.6 UJ	3.4 U	7.1 U
NDRIN ALDEHYDE	UG/KG	3.6 U	7 U	3.5 U	3.6 UJ	3.4 U	7.1 U
PHA CHLORDANE	UG/KG	2.9 J	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
AMMA CHLORDANE	UG/KG	1.9 U	3.6 U	1.8 U	1.9 UJ	1.8 U	3.6 U
DXAPHENE	UG/KG	190 U	360 U	180 U	190 UJ	180 U	360 U
B-1016	UG/KG	36 U	70 U	35 U	36 UJ	34 U	71 U
B-1221	UG/KG	73 U	140 U	71 U	73 UJ	69 U	140 U
B-1232	UG/KG	36 U	70 U	35 U	36 UJ	34 U	71 U
PCB-1242	UG/KG	36 U	70 U	35 U	36 UJ	34 U	71 U
PCB-1248	UG/KG	36 U	70 U	35 U	36 UJ	34 U	71 U
PCB-1254	UG/KG	36 U	70 U	35 U	36 UJ	34 U	71 U
PCB-1260	UG/KG	36 U	70 U	35 U	36 UJ	34 U	71 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
BROMOMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
VINYL CHLORIDE	UG/KG	11 UJ	11 UJ	11 U	11 U	11 U	11 U
CHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
ACETONE	UG/KG	11 U	11 U	11 U	15 U	11 U	11 U
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
CHLOROPFORM	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-TPO-SB24-01	9-TPO-SB24-03	9-TPO-SB25-01	9-TPO-SB25-03	9-TPO-SB31-01	9-TPO-SB31-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/16/92	9/16/92	9/22/92	9/22/92	9/22/92	9/22/92
Lab Id:	00527-03	00527-04	00536-03	00536-04	00536-18	00536-19

Parameter	Units	9-TPO-SB24-01	9-TPO-SB24-03	9-TPO-SB25-01	9-TPO-SB25-03	9-TPO-SB31-01	9-TPO-SB31-03
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
CARBON TETRACHLORIDE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
IS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	11 UJ	11 U	11 U	11 U	11 U
TRICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
BROMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
BENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 UJ	11 UJ	11 U	11 U	11 U	11 U
FORMOPHOSPHORIC ACID	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
2-METHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
2-HEXANONE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
TETRACHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	3 J	2 J
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
TOLUENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
CHLOROBENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
TYRENE	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	11 U	11 U	11 U
<u>SEMIVOLATILES</u>							
BENZYL ALCOHOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
2-CHLOROPHENOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
1,3-DICHLOROBENZENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
1,4-DICHLOROBENZENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
1,2-DICHLOROBENZENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
2-METHYLPHENOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
4-METHYLPHENOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
HEXACHLOROETHANE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
NITROBENZENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
ISOPHORONE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
2-NITROPHENOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
2,4-DIMETHYLPHENOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
2,4-DICHLOROPHENOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
1,2,4-TRICHLOROBENZENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
NAPHTHALENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
4-CHLORANILINE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
HEXACHLOROBUTADIENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEBEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-TPO-SB24-01	9-TPO-SB24-03	9-TPO-SB25-01	9-TPO-SB25-03	9-TPO-SB31-01	9-TPO-SB31-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/16/92	9/16/92	9/22/92	9/22/92	9/22/92	9/22/92
Lab Id:	00527-03	00527-04	00536-03	00536-04	00536-18	00536-19

Parameter	Units	9-TPO-SB24-01	9-TPO-SB24-03	9-TPO-SB25-01	9-TPO-SB25-03	9-TPO-SB31-01	9-TPO-SB31-03
SEMIVOLATILES Cont.							
-CHLORO-3-METHYLPHENOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
-METHYLNAPHTHALENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
4,6-TRICHLOROPHENOL	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
4,5-TRICHLOROPHENOL	UG/KG	870 U	850 U	850 U	860 UR	840 U	860 U
-CHLORONAPHTHALENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
-NITROANILINE	UG/KG	870 U	850 U	850 U	860 UR	840 U	860 U
IMETHYL PHTHALATE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
CENAPHTHYLENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
5-DINITROTOLUENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
-NITROANILINE	UG/KG	870 U	850 U	850 U	860 UR	840 U	860 U
CENAPHTHENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
1-DINITROPHENOL	UG/KG	870 U	850 U	850 U	860 UR	840 U	860 U
-NITROPHENOL	UG/KG	870 U	850 U	850 UJ	860 UR	840 UJ	860 U
IBENZOFURAN	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
4-DINITROTOLUENE	UG/KG	360 UJ	350 UJ	350 U	350 UR	350 U	350 U
DIETHYL PHTHALATE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
-CHLOROPHENYL PHENYL ETHER	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
LUORENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 UJ
-NITROANILINE	UG/KG	870 U	850 U	850 U	860 UR	840 U	860 U
1-DINITRO-2-METHYLPHENOL	UG/KG	870 U	850 U	850 U	860 UR	840 U	860 U
-NITRISODIPHENYLAMINE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
BROMOPHENYL PHENYL ETHER	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
HEXACHLOROBENZENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
PENTACHLOROPHENOL	UG/KG	870 U	850 U	850 U	860 UR	840 U	860 U
PHENANTHRENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
ANTHRACENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
DI-N-BUTYL PHTHALATE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
FLUORANTHENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
CARBAZOLE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
PYRENE	UG/KG	360 UJ	350 UJ	350 U	350 UR	350 U	350 UJ
BUTYL BENZYL PHTHALATE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
3,3-DICHLOROBENZIDINE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
BENZO(A)ANTHRACENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 U
CHRYSENE	UG/KG	360 U	350 U	350 U	350 UR	350 U	350 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	43 J	59 J	350 U	350 UR	350 U	350 U
DI-N-OCTYL PHTHALATE	UG/KG	360 U	350 UJ	350 U	41 J	350 U	350 U
BENZO(B)FLUORANTHENE	UG/KG	360 U	350 UJ	350 U	350 UR	350 U	350 U
BENZO(K)FLUORANTHENE	UG/KG	360 U	350 UJ	350 U	350 UR	350 U	350 U
BENZO(A)PYRENE	UG/KG	360 U	350 UJ	350 U	350 UR	350 U	350 U
INDENO(1,2,3-CD) PYRENE	UG/KG	360 U	350 UJ	350 U	350 UR	350 U	350 U
DIBENZ(A,H)ANTHRACENE	UG/KG	360 U	350 UJ	350 U	350 UR	350 U	350 U
BENZO(G,H,I)PERYLENE	UG/KG	360 U	350 UJ	350 U	350 UR	350 U	350 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No: 9-TPO-SB35-03
Depth: N/A
Date Sampled: 9/22/92
Lab Id: 00536-22

Parameter	Units	
<u>PESTICIDE/PCBS</u>		
ALPHA-BHC	UG/KG	2 U
BETA-BHC	UG/KG	2 U
DELTA-BHC	UG/KG	2 U
GAMMA-BHC(LINDANE)	UG/KG	2 U
HEPTACHLOR	UG/KG	2 U
ALDRIN	UG/KG	2 U
HEPTACHLOR EPOXIDE	UG/KG	2 U
ENDOSULFAN I	UG/KG	2 U
DIELDRIN	UG/KG	3.8 U
,4'-DDE	UG/KG	21
ENDRIN	UG/KG	3.8 U
ENDOSULFAN II	UG/KG	3.8 U
,4'-DDD	UG/KG	4.6 J
ENDOSULFAN SULFATE	UG/KG	3.8 U
,4'-DDT	UG/KG	37
METHOXYCHLOR	UG/KG	20 U
ENDRIN KETONE	UG/KG	3.8 U
ENDRIN ALDEHYDE	UG/KG	3.8 U
ALPHA CHLORDANE	UG/KG	2 U
GAMMA CHLORDANE	UG/KG	2 U
OXAPHENE	UG/KG	200 U
CB-1016	UG/KG	38 U
CB-1221	UG/KG	78 U
CB-1232	UG/KG	38 U
PCB-1242	UG/KG	38 U
PCB-1248	UG/KG	38 U
PCB-1254	UG/KG	38 U
PCB-1260	UG/KG	38 U
<u>VOLATILES</u>		
CHLOROMETHANE	UG/KG	11 U
BROMOMETHANE	UG/KG	11 U
VINYL CHLORIDE	UG/KG	11 U
CHLOROETHANE	UG/KG	11 U
METHYLENE CHLORIDE	UG/KG	11 U
ACETONE	UG/KG	53 J
CARBON DISULFIDE	UG/KG	11 U
1,1-DICHLOROETHENE	UG/KG	11 U
1,1-DICHLOROETHANE	UG/KG	11 UJ
1,2-DICHLOROETHENE	UG/KG	11 U
CHLOROFORM	UG/KG	11 U
1,2-DICHLOROETHANE	UG/KG	11 UJ
2-BUTANONE	UG/KG	11 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJBUNE, NORTH CAROLINA
 ORGANICS

Sample No: 9-TPO-SB35-03
 Depth: N/A
 Date Sampled: 9/22/92
 Lab Id: 00536-22

Parameter	Units	
<u>VOLATILES Cont.</u>		
1,1-TRICHLOROETHANE	UG/KG	11 U
CARBON TETRACHLORIDE	UG/KG	11 U
1,1-DIBROMODICHLOROMETHANE	UG/KG	11 U
2-DICHLOROPROPANE	UG/KG	11 U
IS-1,3-DICHLOROPROPENE	UG/KG	11 U
1,1-DICHLOROETHENE	UG/KG	11 U
1,1-DIBROMOCHLOROMETHANE	UG/KG	11 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U
BENZENE	UG/KG	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U
FORMALDEHYDE	UG/KG	11 U
2-METHYL-2-PENTANONE	UG/KG	11 U
HEXANONE	UG/KG	11 U
1,1,1-TRICHLOROETHENE	UG/KG	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U
TOLUENE	UG/KG	11 U
1,2-DICHLOROBENZENE	UG/KG	11 U
1,4-DICHLOROBENZENE	UG/KG	11 U
1,3-DICHLOROBENZENE	UG/KG	11 U
1,2-DICHLOROBENZENE	UG/KG	11 U
2-METHYLPHENOL	UG/KG	11 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	11 U
4-METHYLPHENOL	UG/KG	11 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	11 U
HEXACHLOROETHANE	UG/KG	11 U
NITROBENZENE	UG/KG	11 U
ISOPHORONE	UG/KG	11 U
2-NITROPHENOL	UG/KG	11 U
2,4-DIMETHYLPHENOL	UG/KG	11 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	11 U
2,4-DICHLOROPHENOL	UG/KG	11 U
1,2,4-TRICHLOROBENZENE	UG/KG	11 U
NAPHTHALENE	UG/KG	11 U
4-CHLORANILINE	UG/KG	11 U
HEXACHLOROBUTADIENE	UG/KG	11 U
<u>SEMIVOLATILES</u>		
BENZENOL	UG/KG	380 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	380 U
2-CHLOROPHENOL	UG/KG	380 U
1,3-DICHLOROBENZENE	UG/KG	380 U
1,4-DICHLOROBENZENE	UG/KG	380 U
1,2-DICHLOROBENZENE	UG/KG	380 U
2-METHYLPHENOL	UG/KG	380 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	380 U
4-METHYLPHENOL	UG/KG	380 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	380 U
HEXACHLOROETHANE	UG/KG	380 U
NITROBENZENE	UG/KG	380 U
ISOPHORONE	UG/KG	380 U
2-NITROPHENOL	UG/KG	380 U
2,4-DIMETHYLPHENOL	UG/KG	380 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	380 U
2,4-DICHLOROPHENOL	UG/KG	380 U
1,2,4-TRICHLOROBENZENE	UG/KG	380 U
NAPHTHALENE	UG/KG	380 U
4-CHLORANILINE	UG/KG	380 U
HEXACHLOROBUTADIENE	UG/KG	380 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No: 9-TPO-SB35-03
Depth: N/A
Date Sampled: 9/22/92
Lab Id: 00536-22

Parameter	Units	
<u>SEMIVOLATILES Cont.</u>		
1-CHLORO-3-METHYLPHENOL	UG/KG	380 U
1-METHYLNAPHTHALENE	UG/KG	380 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	380 U
1,4,6-TRICHLOROPHENOL	UG/KG	380 U
1,4,5-TRICHLOROPHENOL	UG/KG	930 U
1-CHLORONAPHTHALENE	UG/KG	380 U
-NITROANILINE	UG/KG	930 U
1-METHYL PHTHALATE	UG/KG	380 U
1-CENAPHTHYLENE	UG/KG	380 U
2,6-DINITROTOLUENE	UG/KG	380 U
-NITROANILINE	UG/KG	930 U
1-CENAPHTHENE	UG/KG	380 U
2,4-DINITROPHENOL	UG/KG	930 U
-NITROPHENOL	UG/KG	930 U
1-BENZOPURAN	UG/KG	380 U
2,4-DINITROTOLUENE	UG/KG	380 U
1-METHYL PHTHALATE	UG/KG	380 U
-CHLOROPHENYL PHENYL ETHER	UG/KG	380 U
1-TOLUENE	UG/KG	380 UJ
-NITROANILINE	UG/KG	930 U
2,6-DINITRO-2-METHYLPHENOL	UG/KG	930 U
-NITRISODIPHENYLAMINE	UG/KG	380 U
-BROMOPHENYL PHENYL ETHER	UG/KG	380 U
1,2,3,4,5-HEXACHLOROBENZENE	UG/KG	380 U
PENTACHLOROPHENOL	UG/KG	930 U
PHENANTHRENE	UG/KG	380 U
ANTHRACENE	UG/KG	380 U
DI-N-BUTYL PHTHALATE	UG/KG	380 U
FLUORANTHENE	UG/KG	380 U
CARBAZOLE	UG/KG	380 U
PYRENE	UG/KG	380 UJ
BUTYL BENZYL PHTHALATE	UG/KG	380 U
3,3-DICHLOROBENZIDINE	UG/KG	380 U
BENZO(A)ANTHRACENE	UG/KG	380 U
CHRYSENE	UG/KG	380 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	380 UJ
DI-N-OCTYL PHTHALATE	UG/KG	380 U
BENZO(B)FLUORANTHENE	UG/KG	380 U
BENZO(K)FLUORANTHENE	UG/KG	380 U
BENZO(A)PYRENE	UG/KG	380 U
INDENO(1,2,3-CD) PYRENE	UG/KG	380 U
DIBENZ(A,H)ANTHRACENE	UG/KG	380 U
BENZO(G,H,I)PERYLENE	UG/KG	380 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
BETA-BHC	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
DELTA-BHC	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
GAMMA-BHC(LINDANE)	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
HEPTACHLOR	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
LDRIN	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
HEPTACHLOR EPOXIDE	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
NDOSULFAN I	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
DELDRIN	UG/KG	3.3 UJ	7.1 U	ND	ND		0/25
4'-DDE	UG/KG	3.3 UJ	4.1 UJ	17	39	9-TPO-SB31-03	5/25
NDRIN	UG/KG	3.3 UJ	7.1 U	ND	ND		0/25
NDOSULFAN II	UG/KG	3.3 UJ	7.1 U	ND	ND		0/25
4'-DDD	UG/KG	3.3 UJ	4.1 UJ	4.6 J	50	9-TPO-SB31-01	6/25
NDOSULFAN SULFATE	UG/KG	3.3 UJ	7.1 U	ND	ND		0/25
4'-DDT	UG/KG	3.3 UJ	4.1 UJ	4	62	9-TPO-SB24-03	7/25
ETHIOXYCHLOR	UG/KG	17 UJ	47 U	ND	ND		0/25
NDRIN KETONE	UG/KG	3.3 UJ	7.1 U	ND	ND		0/25
NDRIN ALDEHYDE	UG/KG	3.3 UJ	7.1 U	ND	ND		0/25
ALPHA CHLORDANE	UG/KG	1.7 UJ	3.6 U	2.9 J	2.9 J	9-TPO-SB24-01	1/25
GAMMA CHLORDANE	UG/KG	1.7 UJ	3.6 U	ND	ND		0/25
OXAPHENE	UG/KG	170 UJ	360 U	ND	ND		0/25
CB-1016	UG/KG	33 UJ	71 U	ND	ND		0/25
CB-1221	UG/KG	67 UJ	140 U	ND	ND		0/25
CB-1232	UG/KG	33 UJ	71 U	ND	ND		0/25
PCB-1242	UG/KG	33 UJ	71 U	ND	ND		0/25
PCB-1248	UG/KG	33 UJ	71 U	ND	ND		0/25
PCB-1254	UG/KG	33 UJ	71 U	ND	ND		0/25
PCB-1260	UG/KG	33 UJ	71 U	ND	ND		0/25
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	10 U	13 U	ND	ND		0/25
BROMOMETHANE	UG/KG	10 U	13 U	ND	ND		0/25
VINYL CHLORIDE	UG/KG	10 U	13 U	ND	ND		0/25
CHLOROETHANE	UG/KG	10 U	13 U	ND	ND		0/25
METHYLENE CHLORIDE	UG/KG	11 U	38 U	ND	ND		0/25
ACETONE	UG/KG	10 U	18 U	7 J	53 J	9-TPO-SB35-03	3/25
CARBON DISULFIDE	UG/KG	10 U	13 U	ND	ND		0/25
1,1-DICHLOROETHENE	UG/KG	10 U	13 U	ND	ND		0/25
1,1-DICHLOROETHANE	UG/KG	10 UJ	13 UJ	ND	ND		0/25
1,2-DICHLOROETHENE	UG/KG	10 U	13 U	ND	ND		0/25
CHLOROFORM	UG/KG	10 U	13 U	ND	ND		0/25
1,2-DICHLOROETHANE	UG/KG	10 U	13 U	ND	ND		0/25
2-BUTANONE	UG/KG	10 U	13 U	ND	ND		0/25

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	Sample No:		Date Sampled:		LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION	
		Depth:	Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED			MINIMUM DETECTED
<u>VOLATILES Cont.</u>								
1,1,1-TRICHLOROETHANE	UG/KG	10 U		13 U		ND	ND	0/25
CARBON TETRACHLORIDE	UG/KG	10 U		13 U		ND	ND	0/25
BROMODICHLOROMETHANE	UG/KG	10 U		13 U		ND	ND	0/25
1,2-DICHLOROPROPANE	UG/KG	10 U		13 U		ND	ND	0/25
CIS-1,3-DICHLOROPROPENE	UG/KG	10 U		13 U		ND	ND	0/25
TRICHLOROETHENE	UG/KG	10 U		13 U		ND	ND	0/25
DIBROMOCHLOROMETHANE	UG/KG	10 U		13 U		ND	ND	0/25
1,2-TRICHLOROETHANE	UG/KG	10 U		13 U		ND	ND	0/25
BENZENE	UG/KG	10 U		13 U		ND	ND	0/25
TRANS-1,3-DICHLOROPROPENE	UG/KG	10 U		13 U		ND	ND	0/25
FORM FORMALDEHYDE	UG/KG	10 U		13 U		ND	ND	0/25
2-METHYL-2-PENTANONE	UG/KG	10 U		13 U		ND	ND	0/25
HEXANONE	UG/KG	10 U		13 U		ND	ND	0/25
TETRACHLOROETHENE	UG/KG	10 U		13 U	2 J	3 J	9-TPO-SB31-01	2/25
1,1,2,2-TETRACHLOROETHANE	UG/KG	10 U		13 U	ND	ND		0/25
TOLUENE	UG/KG	10 U		13 U	ND	ND		0/25
CHLOROBENZENE	UG/KG	10 U		13 U	ND	ND		0/25
METHYLBENZENE	UG/KG	10 U		13 U	ND	ND		0/25
TYRENE	UG/KG	10 U		13 U	ND	ND		0/25
MONOTERPENE	UG/KG	10 U		13 U	ND	ND		0/25
<u>SEMIVOLATILES</u>								
BENZENOL	UG/KG	330 U		410 U		ND	ND	0/25
BIS(2-CHLOROETHYL) ETHER	UG/KG	330 U		410 U		ND	ND	0/25
2-CHLOROPHENOL	UG/KG	330 U		410 U		ND	ND	0/25
1,3-DICHLOROBENZENE	UG/KG	330 U		410 U		ND	ND	0/25
1,4-DICHLOROBENZENE	UG/KG	330 U		410 U		ND	ND	0/25
1,2-DICHLOROBENZENE	UG/KG	330 U		410 U		ND	ND	0/25
2-METHYLPHENOL	UG/KG	330 U		410 U		ND	ND	0/25
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	330 U		410 U		ND	ND	0/25
4-METHYLPHENOL	UG/KG	330 U		410 U		ND	ND	0/25
N-NITROSODI-N-PROPYLAMINE	UG/KG	330 U		410 U		ND	ND	0/25
HEXACHLOROETHANE	UG/KG	330 U		410 U		ND	ND	0/25
NITROBENZENE	UG/KG	330 U		410 U		ND	ND	0/25
ISOPHORONE	UG/KG	330 U		410 U		ND	ND	0/25
2-NITROPHENOL	UG/KG	330 U		410 U		ND	ND	0/25
2,4-DIMETHYLPHENOL	UG/KG	330 U		410 U		ND	ND	0/25
BIS(2-CHLOROETHOXY) METHANE	UG/KG	330 U		410 U		ND	ND	0/25
2,4-DICHLOROPHENOL	UG/KG	330 U		410 U		ND	ND	0/25
1,2,4-TRICHLOROBENZENE	UG/KG	330 U		410 U		ND	ND	0/25
NAPHTHALENE	UG/KG	330 U		410 U		ND	ND	0/25
4-CHLORANILINE	UG/KG	330 U		410 U		ND	ND	0/25
HEXACHLOROBUTADIENE	UG/KG	330 U		410 U		ND	ND	0/25

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LBJBUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
SEMIVOLATILES Cont.							
-CHLORO-3-METHYLPHENOL	UG/KG	330 U	410 U	ND	ND		0/25
-METHYLNAPHTHALENE	UG/KG	330 U	410 U	ND	ND		0/25
HEXACHLOROCYCLOPENTADIENE	UG/KG	330 U	410 U	ND	ND		0/25
4,6-TRICHLOROPHENOL	UG/KG	330 U	410 U	ND	ND		0/25
4,5-TRICHLOROPHENOL	UG/KG	810 U	1000 U	ND	ND		0/25
-CHLORONAPHTHALENE	UG/KG	330 U	410 U	ND	ND		0/25
-NITROANILINE	UG/KG	810 U	1000 U	ND	ND		0/25
METHYL PHTHALATE	UG/KG	330 U	410 U	ND	ND		0/25
CENAPHTHYLENE	UG/KG	330 U	410 U	ND	ND		0/25
6-DINITROTOLUENE	UG/KG	330 U	410 U	ND	ND		0/25
-NITROANILINE	UG/KG	810 U	1000 U	ND	ND		0/25
CENAPHTHENE	UG/KG	330 U	410 U	280 J	280 J	9-GW4-05	1/25
4-DINITROPHENOL	UG/KG	810 U	1000 U	ND	ND		0/25
-NITROPHENOL	UG/KG	810 U	1000 U	ND	ND		0/25
BENZOFURAN	UG/KG	330 U	410 U	73 J	73 J	9-GW4-05	1/25
4-DINITROTOLUENE	UG/KG	330 U	410 U	ND	ND		0/25
METHYL PHTHALATE	UG/KG	330 U	410 U	ND	ND		0/25
-CHLOROPHENYL PHENYL ETHER	UG/KG	330 U	410 U	ND	ND		0/25
LUORENE	UG/KG	330 U	410 U	140 J	140 J	9-GW4-05	1/25
-NITROANILINE	UG/KG	810 U	1000 U	ND	ND		0/25
5-DINITRO-2-METHYLPHENOL	UG/KG	810 U	1000 U	ND	ND		0/25
-NITRISODIPHENYLAMINE	UG/KG	330 U	410 U	ND	ND		0/25
-BROMOPHENYL PHENYL ETHER	UG/KG	330 U	410 U	ND	ND		0/25
HEXACHLOROBENZENE	UG/KG	330 U	410 U	ND	ND		0/25
PENTACHLOROPHENOL	UG/KG	810 U	1000 U	ND	ND		0/25
PHENANTHRENE	UG/KG	330 U	410 U	41 J	1200	9-GW4-05	2/25
ANTHRACENE	UG/KG	330 U	410 U	140 J	140 J	9-GW4-05	1/25
DI-N-BUTYL PHTHALATE	UG/KG	330 U	410 U	ND	ND		0/25
FLUORANTHENE	UG/KG	330 U	410 U	1700	1700	9-GW4-05	1/25
CARBAZOLE	UG/KG	330 U	410 U	ND	ND		0/25
PYRENE	UG/KG	330 U	410 U	1800	1800	9-GW4-05	1/25
BUTYL BENZYL PHTHALATE	UG/KG	330 U	410 U	ND	ND		0/25
3,3-DICHLOROBENZIDINE	UG/KG	330 U	410 U	ND	ND		0/25
BENZO(A)ANTHRACENE	UG/KG	330 U	410 U	540	540	9-GW4-05	1/25
CHRYSENE	UG/KG	330 U	410 U	400 J	400 J	9-TPO-GW8-03	1/25
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	330 U	410 U	43 J	84 J	9-TPO-SB21-01	5/25
DI-N-OCTYL PHTHALATE	UG/KG	330 U	410 U	41 J	41 J	9-TPO-SB25-03	1/25
BENZO(B)FLUORANTHENE	UG/KG	330 U	410 U	640	640	9-GW4-05	1/25
BENZO(K)FLUORANTHENE	UG/KG	330 U	410 U	340 J	340 J	9-GW4-05	1/25
BENZO(A)PYRENE	UG/KG	330 U	410 U	370 J	370 J	9-GW7D-04A	1/25
INDENO(1,2,3-CD) PYRENE	UG/KG	330 U	410 U	190 J	190 J	9-GW4-05	1/25
DIBENZ(A,H)ANTHRACENE	UG/KG	330 U	410 U	ND	ND		0/25
BENZO(G,H,I)PERYLENE	UG/KG	330 U	410 U	200 J	200 J	9-GW4-05	1/25

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	9-AST-GW7-03	9-AST-GW7-04	9-AST-SB1-03	9-AST-SB13-02	9-AST-SB15-02	9-AST-SB3-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/15/92	9/16/92	9/16/92	9/15/92
Lab Id:	00536-33	00536-34	00517-06	00517-10	00517-12	00517-08

Parameter	Units	9-AST-GW7-03	9-AST-GW7-04	9-AST-SB1-03	9-AST-SB13-02	9-AST-SB15-02	9-AST-SB3-02
LUMINUM	MG/KG	6020 J	8630 J	1270	2350	1780 J	955
ANTIMONY	MG/KG	2.3 UJ	2.3 UJ	2.7 U	2.3 U	2.6 U	2.2 U
ARSENIC	MG/KG	0.75 B	0.59 U	0.59 UJ	0.54 UJ	0.61 UJ	0.52 UJ
BARIUM	MG/KG	11.5 B	12.7 B	2.5 JB	8.5 B	2.9 JB	2.1 JB
BERYLLIUM	MG/KG	0.06 B	0.06 B	0.06 UJ	0.05 UJ	0.06 UJ	0.05 UJ
CADMIUM	MG/KG	0.78 UJ	0.95 UJ	0.37 U	0.31 U	0.35 U	0.3 U
CALCIUM	MG/KG	600 B	590 B	119 U	3530	114 U	17.4 U
CHROMIUM	MG/KG	6.8	8.8	2.2	3.3	2.	1.8
COPPER	MG/KG	0.47 U	0.76 U	0.66 JB	0.33 U	0.37 U	0.31 U
COBALT	MG/KG	1.4 JB	1.5 JB	0.65 UJ	2 UJ	0.5 UJ	0.54 UJ
IRON	MG/KG	3500 J	2160 J	572	1030	714	656
LEAD	MG/KG	3	4.9	1.5	17.7	1.6	1.3
MAGNESIUM	MG/KG	125 B	205 B	32.6 U	110 U	48.8 U	28.1 U
MANGANESE	MG/KG	4.2 J	4.1 J	3.1	7.1	3.9	3.3
MERCURY	MG/KG	0.03 U	0.05 U	0.02 B	0.03 B	0.02 B	0.02 U
NICKEL	MG/KG	2.6 JB	1.9 JB	1.5 UJ	1.3 UJ	1.5 UJ	1.2 UJ
POTASSIUM	MG/KG	113 B	164 B	35.9 JB	72.4 JB	39.4 JB	18.6 JB
SILICON	MG/KG	1.1 U	0.98 U	0.89 U	0.91 U	0.99 U	0.89 U
SILVER	MG/KG	0.33 UJ	0.33 UJ	0.51 UJ	0.33 UJ	0.37 UJ	0.43 UJ
SODIUM	MG/KG	22.1 UJ	25.6 UJ	18.5 UJ	17.3 UJ	15.4 UJ	11.9 UJ
TALLIUM	MG/KG	0.45 U	0.39 U	0.36 U	0.37 U	0.4 U	0.35 U
THALLIUM	MG/KG	9.6 J	8.5 J	1.8 JB	3.5 JB	2.3 JB	2.1 JB
ZINC	MG/KG	2.2 UJ	2.7 JB	0.76 U	18.4	0.98 U	0.97 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

Sample No:	9-GW4-04	9-GW4-05	9-GW5-02	9-GW5-03	9-GW7D-04A	9-GW7D-04B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/22/92	9/22/92	9/25/92	9/25/92
Lab Id:	00536-07	00536-08	00536-09	00536-10	00544-14	00544-15

Parameter	Units	9-GW4-04	9-GW4-05	9-GW5-02	9-GW5-03	9-GW7D-04A	9-GW7D-04B
LUMINUM	MG/KG	4600	6060	2700	773	4560	6760
ANTIMONY	MG/KG	3.2 UJ	3.1 UJ	2.8 UJ	3.3 UJ	9.1 UJ	10.6 UJ
ARSENIC	MG/KG	0.54 U	0.68 U	2.3	0.57 U	0.62 B	0.79 B
BARIUM	MG/KG	39.2 B	7.1 JB	3.9 JB	1.5 UJ	7.1 JB	10.6 JB
BERYLLIUM	MG/KG	0.07 U	0.07 U	0.06 U	0.07 U	0.19 U	0.43 U
CADMIUM	MG/KG	0.44 U	0.56 JB	0.38 U	0.45 U	1.1 U	1.3 U
CAESIUM	MG/KG	210 U	233 U	195 U	58.3 U	389 B	443 B
CHROMIUM	MG/KG	3.7	5.7	3.5	1.9 B	4.9 U	8.6 J
COPPER	MG/KG	0.46 U	0.44 U	0.41 B	0.48 U	1.1 U	1.5 U
COPPER	MG/KG	0.44 U	1.3 JB	1.4 JB	0.57 JB	1.5 U	3.9 U
COBALT	MG/KG	464	793	2280	222	596	749
LEAD	MG/KG	3.4	2.3	4.5	1.6	3.6 J	4.9 J
MAGNESIUM	MG/KG	68.5 U	91 B	70.9 U	25 U	66.6 B	194 B
MANGANESE	MG/KG	2.6 U	3.5 U	2.7 U	1.8 U	1.5 UJ	3.2 J
MERCURY	MG/KG	0.04 B	0.03 B	0.03 B	0.02 U	0.02 U	0.04 B
NICKEL	MG/KG	1.8 U	1.8 U	1.6 U	2 JB	4.5 U	5.2 U
POTASSIUM	MG/KG	96.9 JB	168 JB	87.8 JB	46.5 JB	178 U	319 U
SILICON	MG/KG	0.9 U	1.1 U	0.85 UJ	0.95 U	0.99 U	1 U
SILVER	MG/KG	0.69 UJ	0.55 UJ	0.4 UJ	0.61 UJ	1.9 U	2.2 U
SODIUM	MG/KG	19.6 UJ	20.2 UJ	16 UJ	20 UJ	35.4 U	48.4 U
THALLIUM	MG/KG	0.36 UJ	0.46 UJ	0.34 UJ	0.38 UJ	0.4 UJ	0.4 U
TITANIUM	MG/KG	2.9 JB	3.7 JB	5.2 JB	1.4 JB	3.4 U	5.8 U
ZINC	MG/KG	1 U	1.7 U	1.6 U	0.29 U	2.4 U	3 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	9-TPO-GW6-02	9-TPO-GW6-04	9-TPO-GW8-01	9-TPO-GW8-03	9-TPO-SB21-01	9-TPO-SB21-04
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/23/92	9/23/92	9/23/92	9/23/92	9/16/92	9/16/92
Lab Id:	00536-14	00536-15	00536-16	00536-17	00527-01	00527-02

Parameter	Units	9-TPO-GW6-02	9-TPO-GW6-04	9-TPO-GW8-01	9-TPO-GW8-03	9-TPO-SB21-01	9-TPO-SB21-04
LUMINIUM	MG/KG	2460	2010	2890	7610	1670	2360
ANTIMONY	MG/KG	2.3 UJ	2.7 UJ	2.4 UJ	3 UJ	2.4 U	2.5 U
ARSENIC	MG/KG	0.48 U	0.57 U	0.57 U	0.58 U	0.54 U	1.2 B
BARIUM	MG/KG	5.9 JB	3.4 JB	2.8 UJ	10.4 JB	7 B	2.6 JB
BERYLLIUM	MG/KG	0.05 U	0.06 U	0.05 U	0.07 U	0.05 UJ	0.05 UJ
CADMIUM	MG/KG	0.34 JB	0.37 U	0.33 U	0.41 U	0.71 JB	0.57 JB
CALCIUM	MG/KG	777 B	170 U	163 U	293 U	1400	217 B
CHROMIUM	MG/KG	3.6	3	2.2	6.4	2.8	3.3
COPPER	MG/KG	0.33 U	0.39 U	0.34 U	0.43 U	0.34 U	0.36 U
COPPER	MG/KG	0.77 JB	0.44 JB	0.66 JB	1.5 JB	2.4 JB	0.55 JB
COPPER	MG/KG	354	409	480	858	951	1800
CADMIUM	MG/KG	2.3	2.2	4.6	3.5	44.9	1.5
MAGNESIUM	MG/KG	42.8 U	47.3 U	43 U	206 B	51.7 B	35 B
MANGANESE	MG/KG	2.2 U	1.8 U	2.2 U	4.1	4.9	1 U
MERCURY	MG/KG	0.03 B	0.03 B	0.03 B	0.04 B	0.02 U	0.02 U
MOLYBDENUM	MG/KG	1.3 U	1.6 JB	1.4 U	2 JB	1.3 UJ	1.4 UJ
POTASSIUM	MG/KG	54.1 JB	56.7 JB	37.7 JB	223 JB	112 B	126 B
SILICON	MG/KG	0.79 U	0.95 U	0.94 U	0.96 U	0.83 UJ	0.97 U
SILVER	MG/KG	0.4 UJ	0.39 U	0.34 U	0.43 U	0.34 U	0.36 U
SODIUM	MG/KG	13.7 UJ	16.8 UJ	15.1 UJ	23.2 UJ	19.7 UJ	17.2 UJ
STRONTIUM	MG/KG	0.32 UJ	0.38 UJ	0.38 UJ	0.38 UJ	0.33 U	0.39 U
TANTALUM	MG/KG	1.9 JB	2.3 JB	2.6 JB	6.8 JB	2.7 JB	6 B
TUNGSTEN	MG/KG	1.7 U	0.45 U	2.3 U	3 U	12.4	0.73 U

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	9-TPO-SB24-01	9-TPO-SB24-03	9-TPO-SB25-01	9-TPO-SB25-03	9-TPO-SB31-01	9-TPO-SB31-03
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	9/16/92	9/16/92	9/22/92	9/22/92	9/22/92	9/22/92
Lab Id:	00527-03	00527-04	00536-03	00536-04	00536-18	00536-19

Parameter	Units	9-TPO-SB24-01	9-TPO-SB24-03	9-TPO-SB25-01	9-TPO-SB25-03	9-TPO-SB31-01	9-TPO-SB31-03
ALUMINUM	MG/KG	1980	1980	1370	1950	2350	2360
ANTIMONY	MG/KG	2.3 U	2.6 U	2.6 UJ	2.9 UJ	3 UJ	3 UJ
ARSENIC	MG/KG	0.59 U	0.55 U	0.55 U	0.51 U	0.57 U	0.62 U
BARIUM	MG/KG	8.1 B	1.9 JB	11.3 B	3.1 JB	6.3 JB	5.9 JB
BERYLLIUM	MG/KG	0.05 UJ	0.06 UJ	0.06 U	0.06 U	0.06 U	0.06 U
CADMIUM	MG/KG	0.45 JB	0.36 U	0.35 U	0.4 U	0.4 U	0.56 UJ
CAESIUM	MG/KG	840	229 B	8230	340 B	1060	952 B
CHROMIUM	MG/KG	3.1	2.2	2.2	3.7	2.9	3.1
COPPER	MG/KG	0.44 B	0.41 B	0.37 U	0.42 U	0.42 U	0.43 U
COPPER	MG/KG	2.4 JB	0.81 JB	2.1 JB	0.72 JB	1.9 JB	3.6 JB
COPPER	MG/KG	1160	775	613	1200	924	900
CAD	MG/KG	35.8	1.9	13.2	3.7	9.4	9.9
CADMIUM	MG/KG	52.2 B	27.8 B	143 B	51 B	70.5 B	66 B
CADMIUM	MG/KG	9.5	1.1 U	8.9	2.7 B	5.2	5
MERCURY	MG/KG	0.02 U	0.02 U	0.02 U	0.02 B	0.03 B	0.03 B
CADMIUM	MG/KG	1.3 UJ	1.5 UJ	1.5 U	1.6 U	1.7 U	1.7 U
POTASSIUM	MG/KG	141 B	67.1 B	59.4 JB	63.3 JB	246 B	159 B
LEAD	MG/KG	0.93 U	0.95 U	0.92 U	0.85 U	0.95 U	1 U
MANGANESE	MG/KG	0.32 U	0.45 UJ	0.37 U	0.42 U	0.42 U	0.43 U
COBALT	MG/KG	15 UJ	12.7 UJ	24.4 UJ	15.7 UJ	21.7 UJ	19.3 UJ
THALLIUM	MG/KG	0.37 UJ	0.38 U	0.37 UJ	0.34 UJ	0.38 UJ	0.42 UJ
NICKEL	MG/KG	3.5 JB	2.6 JB	2.1 JB	4.2 JB	3.4 JB	3.7 JB
NICKEL	MG/KG	9.8	1.4 U	17.9	1.9 B	14.1	7.6

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No: 9-TPO-SB35-03
 Depth: N/A
 Date Sampled: 9/22/92
 Lab Id: 00536-22

Parameter	Units	
ALUMINUM	MG/KG	2170 J
ANTIMONY	MG/KG	3.1 UJ
ARSENIC	MG/KG	0.67 U
BARIUM	MG/KG	6 JB
BERYLLIUM	MG/KG	0.07 U
BISMUTH	MG/KG	0.42 U
CADMIUM	MG/KG	598 B
CHROMIUM	MG/KG	2.6 J
COPPER	MG/KG	0.44 U
COPPER	MG/KG	1.7 JB
COPPER	MG/KG	1010 J
CAD	MG/KG	8.3
CAESIUM	MG/KG	49.4 B
CADMIUM	MG/KG	3.7 J
MERCURY	MG/KG	0.03 U
COPPER	MG/KG	1.7 U
POTASSIUM	MG/KG	66.6 JB
LEAD	MG/KG	1.1 U
LEAD	MG/KG	0.64 UJ
LEAD	MG/KG	15.2 UJ
LITHIUM	MG/KG	0.45 UJ
NICKEL	MG/KG	3.8 JB
NICKEL	MG/KG	6.1 J

CLEJ-01272-3.13-08/20/93

SITE 9 SUBSURFACE SOIL
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
LUMINUM	MG/KG	NA	NA	773	8630 J	9-AST-GW7-04	25/25
ANTIMONY	MG/KG	2.2 U	10.6 UJ	ND	ND		0/25
ARSENIC	MG/KG	0.48 U	0.68 U	0.62 B	2.3	9-GW5-02	5/25
BARIUM	MG/KG	1.5 UJ	2.8 UJ	1.9 JB	39.2 B	9-GW4-04	23/25
BERYLLIUM	MG/KG	0.05 UJ	0.43 U	0.06 B	0.06 B	9-TPO-SB31-03	2/25
CADMIUM	MG/KG	0.3 U	1.3 U	0.34 JB	0.71 JB	9-TPO-SB21-01	5/25
CALCIUM	MG/KG	17.4 U	293 U	217 B	8230	9-TPO-SB25-01	15/25
CHROMIUM	MG/KG	4.9 U	4.9 U	1.8	8.8	9-AST-GW7-04	24/25
COPPER	MG/KG	0.31 U	1.5 U	0.41 B	0.66 JB	9-AST-SB1-03	4/25
COPPER	MG/KG	0.44 U	3.9 U	0.44 JB	3.6 JB	9-TPO-SB31-03	18/25
COBALT	MG/KG	0.31 U	1.5 U	0.41 B	0.66 JB	9-AST-SB1-03	4/25
IRON	MG/KG	NA	NA	222	3500 J	9-AST-GW7-03	25/25
LEAD	MG/KG	NA	NA	1.3	44.9	9-TPO-SB21-01	25/25
MAGNESIUM	MG/KG	25 U	110 U	27.8 B	206 B	9-TPO-GW8-03	15/25
MANGANESE	MG/KG	1 U	3.5 U	2.7 B	9.5	9-TPO-SB24-01	15/25
MERCURY	MG/KG	0.02 U	0.05 U	0.02 B	0.04 B	9-TPO-GW8-03	14/25
NICKEL	MG/KG	1.2 UJ	5.2 U	1.6 JB	2.6 JB	9-AST-GW7-03	5/25
POTASSIUM	MG/KG	178 U	319 U	18.6 JB	246 B	9-TPO-SB31-01	23/25
SILICON	MG/KG	0.79 U	1.1 U	ND	ND		0/25
SILVER	MG/KG	0.32 U	2.2 U	ND	ND		0/25
SODIUM	MG/KG	11.9 UJ	48.4 U	ND	ND		0/25
THALLIUM	MG/KG	0.32 UJ	0.46 UJ	ND	ND		0/25
TITANIUM	MG/KG	3.4 U	5.8 U	1.4 JB	9.6 J	9-AST-GW7-03	23/25
ZINC	MG/KG	0.29 U	3 U	1.9 B	18.4	9-AST-SB13-02	9/25

CLEJ-01272-3.13-08/20/93

L.9

**Operable Unit No. 2 Groundwater Organic,
Total and Dissolved Inorganic**

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-82-MW1-01	6-82-MW2-01	6-88MW3-01	6-BP6-01	6-GW01-DW-01	6-GW02-DW-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/23/92	10/24/92	10/23/92	10/24/92	11/4/92	11/3/92
Lab Id:	00591-20	00593-21	00591-26	00593-01	00603-07	00603-11
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
<u>VOLATILES</u>						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
1,3-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
1,4-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-82-MW1-01	6-82-MW2-01	6-88MW3-01	6-BP6-01	6-GW01-DW-01	6-GW02-DW-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/23/92	10/24/92	10/23/92	10/24/92	11/4/92	11/3/92	
Lab Id:	00591-20	00593-21	00591-26	00593-01	00603-07	00603-11	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5600.0 J	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	3.6 U	790.0 J	2.2 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	630.0	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	0.5 J	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	58000.0 J	1.4
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.6	1.0 U	1.0 U	500.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	48.0	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 U	10 U	10 U	10 UR	3 J	3 J
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 UR	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-82-MW1-01	6-82-MW2-01	6-88MW3-01	6-BP6-01	6-GW01-DW-01	6-GW02-DW-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/23/92	10/24/92	10/23/92	10/24/92	11/4/92	11/3/92
Lab Id:	00591-20	00593-21	00591-26	00593-01	00603-07	00603-11
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 UR	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 UR	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 UR	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 UR	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 UR	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 UR	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 UR	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 UR	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 UR	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 UJ	10 U	10 UR	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 UR	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 UR	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 UJ	25 U	25 UR	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 UR	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 UR	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 UR	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 UR	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 UR	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 UR	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 UR	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 UR	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 UR	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 UR	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 UR	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 UR	25 UJ
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 UR	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 UR	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 UR	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 UR	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 UR	10 U
PYRENE	UG/L	10 U	10 U	10 UJ	10 UR	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 UR	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 UR	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 UR	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 UR	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 UR	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 UR	10 UJ
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 UR	10 U
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 UR	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 UR	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 UR	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 UR	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 UR	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW03-01	6-GW07-DW-01	6-GW07S-01	6-GW10-1	6-GW11-01	6-GW12-1
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/22/92	11/4/92	10/22/92	10/20/92	10/22/92	10/20/92
Lab Id:	00589-01	00603-13	00589-03	00582-03	00589-05	00582-05
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
<u>VOLATILES</u>						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-GW03-01	6-GW07-DW-01	6-GW07S-01	6-GW10-1	6-GW11-01	6-GW12-1
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/22/92	11/4/92	10/22/92	10/20/92	10/22/92	10/20/92
	Lab Id:	00589-01	00603-13	00589-03	00582-03	00589-05	00582-05
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	0.6 J	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	2.0 U	1.2 U	1.1 U	1.0 U	2.2 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	0.9 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 U	3 J	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS (1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3-13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW03-01	6-GW07-DW-01	6-GW07S-01	6-GW10-1	6-GW11-01	6-GW12-1
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/22/92	11/4/92	10/22/92	10/20/92	10/22/92	10/20/92
Lab Id:	00589-01	00603-13	00589-03	00582-03	00589-05	00582-05
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 UJ	25 U	25 UJ	25 UJ	25 UJ
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 UJ	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 UJ	10 U	10 U	10 UJ	10 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 UJ	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 UJ	10 U	10 UJ	10 UJ	10 UJ
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-GW13-1	6-GW14-01	6-GW15-01	6-GW16-01	6-GW17-01	6-GW18-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/20/92	10/21/92	10/23/92	10/21/92	10/21/92	10/21/92
	Lab Id:	00582-07	00582-28	00591-10	00582-30	00582-32	00582-34
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 U	5 UJ	5 U	5 U	5 UJ
PCB-1016	UG/L	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1221	UG/L	2 UJ	2 U	2 UJ	2 U	2 U	2 UJ
PCB-1232	UG/L	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1242	UG/L	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1248	UG/L	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1254	UG/L	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1260	UG/L	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
<u>VOLATILES</u>							
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	110.0	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	2.7	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW13-1	6-GW14-01	6-GW15-01	6-GW16-01	6-GW17-01	6-GW18-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/20/92	10/21/92	10/23/92	10/21/92	10/21/92	10/21/92
Lab Id:	00582-07	00582-28	00591-10	00582-30	00582-32	00582-34
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	0.6 J	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.1 U	1.2 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.9	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	1 J	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	5 J	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 UJ	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 UJ	10 UJ	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW13-1	6-GW14-01	6-GW15-01	6-GW16-01	6-GW17-01	6-GW18-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/20/92	10/21/92	10/23/92	10/21/92	10/21/92	10/21/92
Lab Id:	00582-07	00582-28	00591-10	00582-30	00582-32	00582-34
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 UJ	25 U	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 UJ	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 UJ	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 UJ	10 UJ
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 UJ	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	2 J	10 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 U	10 UJ	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 UJ	10 UJ
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 UJ	10 UJ
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW19-01	6-GW15-01	6-GW2-01	6-GW20-01	6-GW21-01	6-GW22-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/22/92	10/24/92	10/24/92	10/22/92	10/22/92	10/21/92
Lab Id:	00589-07	00593-07	00593-09	00589-11	00589-13	00582-36
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
<u>VOLATILES</u>						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYLVINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW19-01	6-GW1S-01	6-GW2-01	6-GW20-01	6-GW21-01	6-GW22-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/22/92	10/24/92	10/24/92	10/22/92	10/22/92	10/21/92
Lab Id:	00589-07	00593-07	00593-09	00589-11	00589-13	00582-36
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.5 U	1.6 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	6.9	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	2.9	1.0 U	1.0 U	1.1
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0	1.0 U	1.0 U	0.5 J
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.4	1.0 U	1.0 U	1.0 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 UR	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 UR	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 UR	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 UR	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 UR	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 UR	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 UR	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 UR	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW19-01	6-GW1S-01	6-GW2-01	6-GW20-01	6-GW21-01	6-GW22-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/22/92	10/24/92	10/24/92	10/22/92	10/22/92	10/21/92
Lab Id:	00589-07	00593-07	00593-09	00589-11	00589-13	00582-36
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 UR	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 UR	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 UR	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 UR	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 UR	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 UR	25 UJ	25 UJ	25 U	25 U
4-NITROPHENOL	UG/L	25 UR	25 U	25 U	25 UJ	25 U
DIBENZOFURAN	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 UR	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 UR	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 UR	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 UR	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 UR	25 U	25 U	25 U	25 U
N-NITROSODIPHENYLAMINE	UG/L	10 UR	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 UR	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 UR	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 UR	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 UR	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 UR	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 UR	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 UR	10 U	10 U	10 U	10 UJ
BUTYL BENZYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 UR	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 UR	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 UR	10 U	10 U	10 UJ	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 UR	10 U	10 U	10 UJ	10 U
BENZO(K)FLUORANTHENE	UG/L	10 UR	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 UR	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 UR	10 U	10 U	10 U	10 UJ
DIBENZ(A,H)ANTHRACENE	UG/L	10 UR	10 U	10 U	10 U	10 UJ
BENZO(G,H,I)PERYLENE	UG/L	10 UR	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW23-01	6-GW25-01	6-GW26-01	6-GW27-DW-01	6-GW28-01	6-GW28-DW-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/22/92	10/23/92	10/23/92	11/3/92	10/23/92	11/3/92
Lab Id:	00589-15	00591-12	00591-14	00603-15	00591-16	00603-17
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
VOLATILES						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	0.6 J	500.0 U	50.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
BROMOMETHANE	UG/L	1.0 UJ	1.0 U	1.0 U	500.0 U	50.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
CHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 UJ	1.0 U	500.0 U	50.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	50.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW23-01	6-GW25-01	6-GW26-01	6-GW27-DW-01	6-GW28-01	6-GW28-DW-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/22/92	10/23/92	10/23/92	11/3/92	10/23/92	11/3/92	
Lab Id:	00589-15	00591-12	00591-14	00603-15	00591-16	00603-17	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	55.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
TRANS-1,2-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	5800.0	16.0	500.0
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.2 U	1.2 U	500.0 U	3.7 U	34.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	26.0	27.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	0.5 J	50.0 U
TRICHLOROETHENE	UG/L	0.6 J	1.0 U	1.0 U	18000.0	120.0	3600.0
TRICHLOROFUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	500.0 U	1.0 U	50.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 UR	2 J	10 UJ	22	10 UJ	2 J
BIS(2-CHLOROETHYL) ETHER	UG/L	10 UR	10 U	10 UJ	10 U	10 UJ	10 U
2-CHLOROPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 UR	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3-13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW23-01	6-GW25-01	6-GW26-01	6-GW27-DW-01	6-GW28-01	6-GW28-DW-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/22/92	10/23/92	10/23/92	11/3/92	10/23/92	11/3/92
Lab Id:	00589-15	00591-12	00591-14	00603-15	00591-16	00603-17
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 UR	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 UR	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 UR	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 UR	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 UR	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 UR	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 UR	25 U	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 UR	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 UR	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 UR	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 UR	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 UR	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 UR	25 U	25 U	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 UR	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 UR	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 UR	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 UR	25 U	25 U	25 UJ	25 UJ
PHENANTHRENE	UG/L	10 UR	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 UR	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 UR	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 UR	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 UR	10 U	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 UR	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 UR	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 UR	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 UR	1 J	10 U	5 J	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 UR	10 U	10 U	10 UJ	10 UJ
BENZO(B)FLUORANTHENE	UG/L	10 UR	10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 UR	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 UR	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 UR	10 U	10 U	10 U	10 U
DIBENZ(AH)ANTHRACENE	UG/L	10 UR	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 UR	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-GW30-01	6-GW4-01	6-GW5-01	6-GW6-01	6-GW8-01	6-GW9-1
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/23/92	10/21/92	10/21/92	10/21/92	10/21/92	10/20/92
	Lab Id:	00591-18	00582-18	00582-20	00582-24	00582-26	00582-01
Parameter	Units						
PESTICIDE/PCBS							
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
VOLATILES							
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW30-01	6-GW4-01	6-GW5-01	6-GW6-01	6-GW8-01	6-GW9-1
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/23/92	10/21/92	10/21/92	10/21/92	10/21/92	10/20/92
Lab Id:	00591-18	00582-18	00582-20	00582-24	00582-26	00582-01
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.5 U	1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 UJ	10 UJ	10 UJ	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-GW30-01	6-GW4-01	6-GW5-01	6-GW6-01	6-GW8-01	6-GW9-1
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/23/92	10/21/92	10/21/92	10/21/92	10/21/92	10/20/92
Lab Id:	00591-18	00582-18	00582-20	00582-24	00582-26	00582-01
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 UJ	25 UJ	25 U	25 UJ
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 UJ	25 UJ	25 UJ	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 UJ	10 UJ	10 UJ	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 UJ	10 UJ	10 UJ	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 U	2 J
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEBUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-MW2-01	6-MW3-01	6-MW8-01	6-MW9-01	9-GW07-DW-01	9-GW1-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/24/92	10/23/92	10/24/92	10/24/92	11/3/92	10/25/92
	Lab Id:	00593-13	00591-22	00593-17	00593-19	00603-19	00593-27
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
<u>VOLATILES</u>							
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-MW2-01	6-MW3-01	6-MW8-01	6-MW9-01	9-GW07-DW-01	9-GW1-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/24/92	10/23/92	10/24/92	10/24/92	11/3/92	10/25/92
	Lab Id:	00593-13	00591-22	00593-17	00593-19	00603-19	00593-27
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.3 U	1.0 U	1.0 U	1.2 U	4.2 U	1.2 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 U	10 U	10 U	10 U	7 J	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 UR	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-MW2-01	6-MW3-01	6-MW8-01	6-MW9-01	9-GW07-DW-01	9-GW1-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/24/92	10/23/92	10/24/92	10/24/92	11/3/92	10/25/92
Lab Id:	00593-13	00591-22	00593-17	00593-19	00603-19	00593-27
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 UJ	25 U	25 UJ	25 UR	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 UR	25 UJ
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 UJ	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	2 J	10 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-GW2-01	9-GW3-01	9-GW4-01	9-GW5-01	9-GW6-01	9-GW7-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92
Lab Id:	00593-29	00593-11	00593-31	00593-33	00593-35	00593-39
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
VOLATILES						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO--0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	9-GW2-01	9-GW3-01	9-GW4-01	9-GW5-01	9-GW6-01	9-GW7-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92
Lab Id:	00593-29	00593-11	00593-31	00593-33	00593-35	00593-39
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.3 U	1.9 U	1.1 U	1.1 U	2.8 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.9 J
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 UR	10 U	10 U	10 UJ
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 UR	10 U	10 U	10 UJ
2-CHLOROPHENOL	UG/L	10 U	10 UR	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 UR	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 UR	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 UR	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 UR	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 UR	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 UR	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 UR	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 UR	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 UR	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 UR	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 UR	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 UR	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 UR	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 UR	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 UR	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 UR	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 UR	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 UR	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	9-GW2-01	9-GW3-01	9-GW4-01	9-GW5-01	9-GW6-01	9-GW7-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92
Lab Id:	00593-29	00593-11	00593-31	00593-33	00593-35	00593-39
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 UR	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 UR	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 UR	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 UR	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 UR	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 UR	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 UR	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 UR	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 UR	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 UR	10 U	10 UJ	10 U
3-NITROANILINE	UG/L	25 U	25 UR	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 UR	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 UJ	25 UR	25 U	25 UJ	25 U
4-NITROPHENOL	UG/L	25 U	25 UR	25 UJ	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 UR	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 UR	10 U	10 U	10 UJ
DIETHYL PHTHALATE	UG/L	10 U	10 UR	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 UR	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 UR	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 UR	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 UR	25 U	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 UR	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 UR	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 UR	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 UR	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 UR	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 UR	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 UR	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 UR	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 UR	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 UR	10 U	10 U	10 UJ
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 UR	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 UR	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 UR	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 UR	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 UR	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 UR	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 U	10 UR	10 UJ	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 U	10 UR	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 UR	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 UR	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 UR	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 UR	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No: 9-GW8-01
 Depth: N/A
 Date Sampled: 10/25/92
 Lab Id: 00593-41

Parameter	Units	
<u>PESTICIDE/PCBS</u>		
ALPHA-BHC	UG/L	0.05 UJ
BETA-BHC	UG/L	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ
ALDRIN	UG/L	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ
DIELDRIN	UG/L	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ
ENDRIN	UG/L	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ
TOXAPHENE	UG/L	5 UJ
PCB-1016	UG/L	1 UJ
PCB-1221	UG/L	2 UJ
PCB-1232	UG/L	1 UJ
PCB-1242	UG/L	1 UJ
PCB-1248	UG/L	1 UJ
PCB-1254	UG/L	1 UJ
PCB-1260	UG/L	1 UJ
<u>VOLATILES</u>		
BROMODICHLOROMETHANE	UG/L	1.0 U
BROMOFORM	UG/L	1.0 U
BROMOMETHANE	UG/L	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U
CHLOROENZENE	UG/L	1.0 U
CHLOROETHANE	UG/L	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 J
CHLOROFORM	UG/L	1.0 U
CHLOROMETHANE	UG/L	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U
1,2-DICHLOROENZENE	UG/L	1.0 U
1,3-DICHLOROENZENE	UG/L	1.0 U
1,4-DICHLOROENZENE	UG/L	1.0 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No: 9-GW8-01
 Depth: N/A
 Date Sampled: 10/23/92
 Lab Id: 00593-41

Parameter	Units	
<u>VOLATILES Cont.</u>		
1,1-DICHLOROETHANE	UG/L	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U
TRANS-1,2-DICHLORETHENE	UG/L	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U
METHYLENE CHLORIDE	UG/L	2.4 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U
TRICHLOROETHENE	UG/L	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U
VINYL CHLORIDE	UG/L	1.0 U
BENZENE	UG/L	1.0 U
ETHYLBENZENE	UG/L	1.0 U
TOLUENE	UG/L	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U
<u>SEMIVOLATILES</u>		
PHENOL	UG/L	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U
2-CHLOROPHENOL	UG/L	10 U
1,3-DICHLOROBENZENE	UG/L	10 U
1,4-DICHLOROBENZENE	UG/L	10 U
1,2-DICHLOROBENZENE	UG/L	10 U
2-METHYLPHENOL	UG/L	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U
4-METHYLPHENOL	UG/L	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U
HEXACHLOROETHANE	UG/L	10 U
NITROBENZENE	UG/L	10 U
ISOPHORONE	UG/L	10 U
2-NITROPHENOL	UG/L	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U
2,4-DICHLOROPHENOL	UG/L	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U
NAPHTHALENE	UG/L	10 U
4-CHLORANILINE	UG/L	10 U
HEXACHLOROBUTADIENE	UG/L	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No: 9-GW8-01
 Depth: N/A
 Date Sampled: 10/25/92
 Lab Id: 00593-41

Parameter	Units	
<u>SEMIVOLATILES Cont.</u>		
4-CHLORO-3-METHYLPHENOL	UG/L	10 U
2-METHYLNAPHTHALENE	UG/L	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U
2-CHLORONAPHTHALENE	UG/L	10 U
2-NITROANILINE	UG/L	25 U
DIMETHYL PHTHALATE	UG/L	10 U
ACENAPHTHYLENE	UG/L	10 U
2,6-DINITROTOLUENE	UG/L	10 U
3-NITROANILINE	UG/L	25 U
ACENAPHTHENE	UG/L	10 U
2,4-DINITROPHENOL	UG/L	25 UJ
4-NITROPHENOL	UG/L	25 U
DIBENZOFURAN	UG/L	10 U
2,4-DINITROTOLUENE	UG/L	10 U
DIETHYL PHTHALATE	UG/L	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U
FLUORENE	UG/L	10 U
4-NITROANILINE	UG/L	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U
HEXACHLOROBENZENE	UG/L	10 U
PENTACHLOROPHENOL	UG/L	25 U
PHENANTHRENE	UG/L	10 U
ANTHRACENE	UG/L	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U
FLUORANTHENE	UG/L	10 U
CARBAZOLE	UG/L	10 U
PYRENE	UG/L	10 UJ
BUTYL BENZYL PHTHALATE	UG/L	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U
BENZO(A)ANTHRACENE	UG/L	10 U
CHRYSENE	UG/L	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 UJ
BENZO(B)FLUORANTHENE	UG/L	10 U
BENZO(K)FLUORANTHENE	UG/L	10 U
BENZO(A)PYRENE	UG/L	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U
DIBENZ(AH)ANTHRACENE	UG/L	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
ALDRIN	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
ENDRIN	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	ND	ND	0/49
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	ND	ND	0/49
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	ND	ND	0/49
TOXAPHENE	UG/L	5 UJ	5 UJ	ND	ND	0/49
PCB-1016	UG/L	1 UJ	1 UJ	ND	ND	0/49
PCB-1221	UG/L	2 UJ	2 UJ	ND	ND	0/49
PCB-1232	UG/L	1 UJ	1 UJ	ND	ND	0/49
PCB-1242	UG/L	1 UJ	1 UJ	ND	ND	0/49
PCB-1248	UG/L	1 UJ	1 UJ	ND	ND	0/49
PCB-1254	UG/L	1 UJ	1 UJ	ND	ND	0/49
PCB-1260	UG/L	1 UJ	1 UJ	ND	ND	0/49
<u>VOLATILES</u>						
BROMODICHLOROMETHANE	UG/L	1 U	500 U	0.6 J	0.6 J	6-GW26-01 1/49
BROMOFORM	UG/L	1 U	500 U	ND	ND	0/49
BROMOMETHANE	UG/L	1 U	500 U	ND	ND	0/49
CARBON TETRACHLORIDE	UG/L	1 U	500 U	ND	ND	0/49
CHLOROENZENE	UG/L	1 U	500 U	110	110	6-GW16-01 1/49
CHLOROETHANE	UG/L	1 U	500 U	ND	ND	0/49
2-CHLOROETHYL VINYL ETHER	UG/L	1 U	500 U	1 J	1 J	9-GW8-01 1/49
CHLOROFORM	UG/L	1 U	500 U	2.7	2.7	6-GW16-01 1/49
CHLOROMETHANE	UG/L	1 U	500 U	ND	ND	0/49
DIBROMOCHLOROMETHANE	UG/L	1 U	500 U	ND	ND	0/49
1,2-DICHLOROENZENE	UG/L	1 U	500 U	ND	ND	0/49
1,3-DICHLOROENZENE	UG/L	1 U	500 U	ND	ND	0/49
1,4-DICHLOROENZENE	UG/L	1 U	500 U	ND	ND	0/49

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id: Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>VOLATILES Cont.</u>							
1,1-DICHLOROETHANE	UG/L	1 U	500 U	ND	ND		0/49
1,2-DICHLOROETHANE	UG/L	1 U	500 U	0.6 J	0.6 J	6-GW15-01	1/49
1,1-DICHLOROETHENE	UG/L	1 U	500 U	0.6 J	0.6 J	6-GW07-DW-01	1/49
TRANS-1,2-DICHLOROETHENE	UG/L	1 U	1 U	16	5800	6-GW27-DW-01	4/49
1,2-DICHLOROPROPANE	UG/L	1 U	500 U	ND	ND		0/49
CIS-1,3-DICHLOROPROPENE	UG/L	1 U	500 U	ND	ND		0/49
TRANS-1,3-DICHLOROPROPENE	UG/L	1 U	500 U	ND	ND		0/49
METHYLENE CHLORIDE	UG/L	1 U	500 U	790 J	790 J	6-GW01-DW-01	1/49
1,1,2,2-TETRACHLOROETHANE	UG/L	1 U	500 U	1	6.9	6-GW15-01	2/49
TETRACHLOROETHENE	UG/L	1 U	500 U	0.9 J	630	6-GW01-DW-01	6/49
1,1,1-TRICHLOROETHANE	UG/L	1 U	500 U	0.5 J	0.5 J	6-82-MW1-01	1/49
1,1,2-TRICHLOROETHANE	UG/L	1 U	500 U	0.5 J	0.5 J	6-GW28-01	1/49
TRICHLOROETHENE	UG/L	1 U	1 U	0.5 J	58000 J	6-GW01-DW-01	10/49
TRICHLOROFLUOROMETHANE	UG/L	1 U	500 U	ND	ND		0/49
VINYL CHLORIDE	UG/L	1 U	500 U	1.6	1.6	6-82-MW2-01	1/49
BENZENE	UG/L	1 U	5 U	ND	ND		0/49
ETHYLBENZENE	UG/L	1 U	5 U	48	48	6-GW01-DW-01	1/49
TOLUENE	UG/L	1 U	5 U	ND	ND		0/49
XYLENES (TOTAL)	UG/L	1 U	5 U	0.9 J	1.4	6-GW15-01	2/49
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 U	10 U	1 J	22	6-GW27-DW-01	8/49
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	ND	ND		0/49
2-CHLOROPHENOL	UG/L	10 U	10 U	5 J	5 J	6-GW16-01	1/49
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/49
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/49
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/49
2-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/49
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	ND	ND		0/49
4-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/49
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	ND	ND		0/49
HEXACHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/49
NITROBENZENE	UG/L	10 U	10 U	ND	ND		0/49
ISOPHORONE	UG/L	10 U	10 U	ND	ND		0/49
2-NITROPHENOL	UG/L	10 U	10 U	ND	ND		0/49
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/49
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	ND	ND		0/49
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/49
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/49
NAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/49
4-CHLORANILINE	UG/L	10 U	10 U	ND	ND		0/49
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	ND	ND		0/49

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/49
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/49
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	ND	ND		0/49
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/49
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	ND	ND		0/49
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/49
2-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/49
DIMETHYL PHTHALATE	UG/L	10 U	10 U	1 J	1 J	9-GW07-DW-01	1/49
ACENAPHTHYLENE	UG/L	10 U	10 U	ND	ND		0/49
2,6-DINITROTOLUENE	UG/L	10 U	10 U	ND	ND		0/49
3-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/49
ACENAPHTHENE	UG/L	10 U	10 U	ND	ND		0/49
2,4-DINITROPHENOL	UG/L	25 U	25 U	ND	ND		0/49
4-NITROPHENOL	UG/L	25 U	25 U	ND	ND		0/49
DIBENZOPURAN	UG/L	10 U	10 U	ND	ND		0/49
2,4-DINITROTOLUENE	UG/L	10 U	10 U	ND	ND		0/49
DIETHYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/49
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	ND		0/49
FLUORENE	UG/L	10 U	10 U	ND	ND		0/49
4-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/49
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	ND	ND		0/49
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	ND	ND		0/49
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	ND		0/49
HEXACHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/49
PENTACHLOROPHENOL	UG/L	25 U	25 U	ND	ND		0/49
PHENANTHRENE	UG/L	10 U	10 U	ND	ND		0/49
ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/49
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/49
FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/49
CARBAZOLE	UG/L	10 U	10 U	ND	ND		0/49
PYRENE	UG/L	10 U	10 U	ND	ND		0/49
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/49
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	ND	ND		0/49
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/49
CHRYSENE	UG/L	10 U	10 U	ND	ND		0/49
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	1 J	22	6-GW28-DW-01	7/49
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/49
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/49
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/49
BENZO(A)PYRENE	UG/L	10 U	10 U	ND	ND		0/49
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	ND	ND		0/49
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/49
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	ND	ND		0/49

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-82MW1-01	6-82MW2-01	6-88-MW3-01	6-BP6-01	6-GW01-DW-01	6-GW02-DW-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/23/92	10/24/92	10/23/92	10/24/92	11/4/92	11/3/92
	Lab Id:	00591-20	00593-21	00591-26	00593-01	00603-07	00603-11
Parameter	Units						
ALUMINUM	UG/L	57600	6230	93800	229000	31.2 U	53.4 U
ANTIMONY	UG/L	26.1 UJ	14 UJ	14 U	14 UJ	14 UJ	14 UJ
ARSENIC	UG/L	67.8	3 B	24.4	7.2 JB	3 U	3.8 JB
BARIUM	UG/L	476	49.3 B	540	257	71.5 B	8.8 UJ
BERYLLIUM	UG/L	4.1 B	0.69 UJ	2.6 B	2.1 U	0.3 U	0.3 U
CADMIUM	UG/L	6.3 UJ	1.9 UJ	3.5 UJ	1.9 UJ	1.9 UJ	1.9 UJ
CALCIUM	UG/L	6580	60800	4360 B	2070 B	103000	8110
CHROMIUM	UG/L	105	5.9 B	174	198	3.6 UJ	3.6 UJ
COBALT	UG/L	6.4 B	4.7 U	8.6 B	11.3 U	2 U	2 U
COPPER	UG/L	24.8 JB	4.4 UJ	29.3 J	35.6	1.9 UJ	1.9 UJ
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 UJ	10 UJ
IRON	UG/L	84800	10800 J	40500	47000 J	92.8 U	69.7 U
LEAD	UG/L	34.6	4 U	88.9	64.4	1 UJ	1 U
MAGNESIUM	UG/L	6000	4370 B	7470	6970	3160 B	812 B
MANGANESE	UG/L	283	55	160	84.5	21.6	0.95 U
MERCURY	UG/L	0.07 U	0.66	0.27	0.11 B	0.06 U	0.05 U
NICKEL	UG/L	34.6 B	7.9 UJ	16.2 JB	27.4 B	7.9 UJ	7.9 U
POTASSIUM	UG/L	4060 B	678 B	6600	9040	7640	67600
SELENIUM	UG/L	5 UJ	5 U	5 U	5 U	5 U	5 UJ
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	6360	36500 J	5670	3600 JB	13100	26000
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	256	5.2 U	215	209	1.8 UJ	1.8 UJ
ZINC	UG/L	166	9.1 U	186	56.6	6.8 U	6 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW03-01	6-GW07-DW-01	6-GW07S-01	6-GW10-1	6-GW11-01	6-GW12-1
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/22/92	11/4/92	10/22/92	10/20/92	10/22/92	10/20/92
	Lab Id:	00589-01	00603-13	00589-03	00582-03	00589-05	00582-05
Parameter	Units						
ALUMINUM	UG/L	171000 J	336	123000 J	6350	30400 J	6180
ANTIMONY	UG/L	42.5 UJ	14 UJ	29.3 UJ	14 UJ	22.5 UJ	14 UJ
ARSENIC	UG/L	6.9 JB	3 U	5.8 JB	3 U	4.4 JB	3 U
BARIUM	UG/L	1020	12.9 UJ	375	47.4 B	76.8 B	21.4 JB
BERYLLIUM	UG/L	7.5	0.3 U	0.3 UJ	0.3 U	0.41 UJ	0.3 U
CADMIUM	UG/L	2.9 UJ	1.9 UJ	1.9 U	1.9 UJ	1.9 U	1.9 UJ
CALCIUM	UG/L	52500	51900	46200	9170	35900	20400
CHROMIUM	UG/L	201	3.6 UJ	176	6.7 B	36.9	10 B
COBALT	UG/L	10.9 B	2 U	8.2 B	2 UJ	2.6 JB	2 UJ
COPPER	UG/L	175	1.9 UJ	25.6 J	3.4 UJ	9.2 UJ	6.5 UJ
CYANIDE	UG/L	10 U	10 UJ	10 U	10 U	10 U	10 U
IRON	UG/L	27700 J	112 U	21800 J	4340	12800 J	3090
LEAD	UG/L	200 J	1.2 U	31.2 J	3 U	12 J	3.1 U
MAGNESIUM	UG/L	5950 J	1480 B	5570 J	844 B	1740 JB	700 B
MANGANESE	UG/L	362	33.5	79.1	15.7	25.5	13.4 B
MERCURY	UG/L	0.46	0.05 U	0.13 B	0.05 U	0.16 B	0.05 U
NICKEL	UG/L	41.9	9.8 UJ	28.9 UJ	7.9 U	12.4 UJ	15.9 JB
POTASSIUM	UG/L	10300 J	1310 B	7350 J	2390 B	3360 JB	652 B
SELENIUM	UG/L	5 U	5 U	5 U	5 U	5 U	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	2850 JB	10900	1500 JB	7430	2020 JB	1620 JB
THALLIUM	UG/L	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U
VANADIUM	UG/L	192	1.8 UJ	143	103 B	108	8.8 B
ZINC	UG/L	1620	6.2 U	61.7	13.2 U	15.5 B	17.4 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW13-1	6-GW14-01	6-GW15-01	6-GW16-01	6-GW17-01	6-GW18-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/20/92	10/21/92	10/23/92	10/21/92	10/21/92	10/21/92
	Lab Id:	00582-07	00582-28	00591-10	00582-30	00582-32	00582-34
Parameter	Units						
ALUMINUM	UG/L	8000	7560	96400	19000	3210	714
ANTIMONY	UG/L	14 UJ	14 U	42.7 UJ	14 U	14 U	14 U
ARSENIC	UG/L	3 U	3 U	23.3	3 U	3 U	3 U
BARIIUM	UG/L	43.5 B	21.8 U	98 B	84.2 B	115 B	31.7 B
BERYLLIUM	UG/L	0.3 U	0.3 U	1.3 B	0.3 U	0.3 U	0.3 U
CADMIUM	UG/L	1.9 UJ	1.9 U	2.6 UJ	1.9 U	1.9 U	1.9 U
CALCIUM	UG/L	58600	9340	64900	8740	9430	3010 B
CHROMIUM	UG/L	17	6.4 JB	103	15.6 J	3.6 U	3.6 U
COBALT	UG/L	2 UJ	2 U	7.2 B	2 U	2 U	2 U
COPPER	UG/L	6 UJ	1.9 U	30.6 J	4.9 UJ	1.9 U	2.3 UJ
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	2160	1310	15300	3520	824	135
LEAD	UG/L	4.4 U	2 U	33.8	5.9 U	2 UJ	1 U
MAGNESIUM	UG/L	1170 B	647 B	5430	1510 B	719 B	331 B
MANGANESE	UG/L	8.6 B	2.9 UJ	29.9	67.9	9.4 B	7.3 B
MERCURY	UG/L	0.05 U	0.05 U	0.11 U	0.05 U	0.06 U	0.05 U
NICKEL	UG/L	7.9 U	12.4 U	24.4 JB	12.6 U	7.9 U	7.9 U
POTASSIUM	UG/L	919 B	618 B	5040	1740 B	1340 B	501 B
SELENIUM	UG/L	5 U	5 U	5 U	5 U	5 U	5 U
SILVER	UG/L	2 UJ	2 U	2 UJ	2 U	2 U	2 U
SODIUM	UG/L	1110 JB	3170 B	68700	4520 B	6670	2280 B
THALLIUM	UG/L	2 U	2 U	2 UJ	2 U	2 U	2 UJ
VANADIUM	UG/L	12.2 B	8 B	187	13.7 B	5.7 B	1.8 U
ZINC	UG/L	14.9 U	9.2 U	54.3	711	7.1 U	4.2 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO--0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW19-01	6-GW1S-01	6-GW2-01	6-GW20-01	6-GW21-01	6-GW22-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/22/92	10/24/92	10/24/92	10/22/92	10/22/92	10/21/92
	Lab Id:	00589-07	00593-07	00593-09	00589-11	00589-13	00582-36
Parameter	Units						
ALUMINUM	UG/L	60900 J	101000	160000	2480 J	4360 J	8010
ANTIMONY	UG/L	22.5 UJ	14 UJ	14 UJ	14 U	14 U	14 U
ARSENIC	UG/L	3 UJ	11.2	10.6 B	3 UJ	3 UJ	3 U
BARIUM	UG/L	135 B	161 B	192 B	75.7 B	20.4 JB	61.1 B
BERYLLIUM	UG/L	0.64 UJ	1.9 UJ	1.9 UJ	0.3 UJ	0.3 UJ	0.3 U
CADMIUM	UG/L	2.2 UJ	1.9 UJ	1.9 UJ	1.9 U	1.9 U	1.9 U
CALCIUM	UG/L	2560 B	24300	2210 B	4480 B	4860 B	30300
CHROMIUM	UG/L	51.4	175	169	6 B	3.6 UJ	7.7 JB
COBALT	UG/L	2.8 JB	10.7 U	7.2 U	2 UJ	2.3 JB	2 U
COPPER	UG/L	14 JB	23.9 JB	37.6	3.2 UJ	1.9 U	1.9 U
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	8650 J	54300 J	36900 J	840 J	932 J	1280
LEAD	UG/L	21.2 J	37.8	44.5	1.2 JB	2.6 JB	1.8 U
MAGNESIUM	UG/L	1640 JB	5440	5170	946 JB	704 JB	974 B
MANGANESE	UG/L	25.5	49.9	57.3	11.5 B	6.6 B	11.4 B
MERCURY	UG/L	0.16 B	0.17 B	0.11 B	0.05 U	0.05 U	0.05 U
NICKEL	UG/L	17.5 UJ	15.9 B	11.1 B	7.9 UJ	7.9 UJ	7.9 U
POTASSIUM	UG/L	4290 JB	6620	8490	727 JB	616 JB	1320 B
SELENIUM	UG/L	5 U	5 UJ	5 U	5 U	5 U	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U
SODIUM	UG/L	2520 JB	1990 JB	2140 JB	5340	2710 JB	4280 B
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U
VANADIUM	UG/L	41.2 B	330	198	4 U	5.4 U	8.3 B
ZINC	UG/L	20.3	58.5	50.6	7.6 U	7 U	9 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW23-01	6-GW25-01	6-GW26-01	6-GW27-DW-01	6-GW28-01	6-GW28-DW-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/22/92	10/23/92	10/23/92	11/3/92	10/23/92	11/3/92
	Lab Id:	00589-15	00591-12	00591-14	00603-15	00591-16	00603-17
Parameter	Units						
ALUMINUM	UG/L	2240 J	3970	3150	60.1 U	1740	42.1 U
ANTIMONY	UG/L	17.4 UJ	18.6 UJ	27.3 UJ	15.3 B	14 U	14 UJ
ARSENIC	UG/L	3 UJ	3 U	4.2 B	3 U	3 U	3 U
BARIUM	UG/L	54.8 B	44 B	50.3 B	15.9 UJ	26.2 JB	10 UJ
BERYLLIUM	UG/L	0.31 UJ	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMIUM	UG/L	1.9 U	3 UJ	3.6 UJ	1.9 UJ	2.3 UJ	2.2 U
CALCIUM	UG/L	6370	3370 B	37200	65100	16400	52800
CHROMIUM	UG/L	5.4 B	3.6 U	3.6 U	3.6 UJ	3.6 U	3.6 UJ
COBALT	UG/L	2 UJ	2 U	2 U	2 U	2 U	2 U
COPPER	UG/L	4.3 UJ	1.9 U	2.1 UJ	1.9 UJ	1.9 U	1.9 UJ
CYANIDE	UG/L	10 U	10 U	10 U	10 UJ	10 U	10 UJ
IRON	UG/L	708 J	1090	1890	75.1 U	517	111 U
LEAD	UG/L	1.4 JB	2.2 B	6	1.6 U	1.8 B	1.4 U
MAGNESIUM	UG/L	1640 JB	1570 B	3650 B	1720 B	1550 B	1540 B
MANGANESE	UG/L	27	12.5 B	62.4	14.2 B	26.9	14.2 B
MERCURY	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
NICKEL	UG/L	9 UJ	7.9 UJ	7.9 UJ	7.9 U	7.9 UJ	8.1 UJ
POTASSIUM	UG/L	3100 JB	963 B	2040 B	1350 B	941 B	1260 B
SELENIUM	UG/L	5 UJ	5 U	5 UJ	5 U	5 U	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	4800 B	3250 JB	3230 JB	6240	7260	7960
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 U	2 UJ	2 U
VANADIUM	UG/L	5.1 U	2.6 B	2.8 B	1.8 UJ	1.8 UJ	1.8 UJ
ZINC	UG/L	13.9 B	5.2 U	156	7 U	16.4 U	6.1 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-GW30-01	6-GW4-1	6-GW5-1	6-GW6-1	6-GW8-1	6-GW9-1
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/23/92	10/21/92	10/21/92	10/21/92	10/21/92	10/20/92
	Lab Id:	00591-18	00582-18	00582-20	00582-24	00582-26	00582-01
Parameter	Units						
ALUMINUM	UG/L	6750	27600	144000	56600	24500	6450
ANTIMONY	UG/L	14 U	14 UJ	14 UJ	15.6 JB	14 U	14 UJ
ARSENIC	UG/L	5.6 B	3 U	8.9 B	3 U	3 U	3 U
BARIUM	UG/L	48.6 B	209	372	227	62 B	48.8 B
BERYLLIUM	UG/L	2.2 B	0.58 B	2.2 B	0.55 JB	0.3 U	0.3 U
CADMIUM	UG/L	2.7 UJ	1.9 UJ	1.9 UJ	1.9 U	1.9 U	1.9 UJ
CALCIUM	UG/L	19200	5430	47900	6600	31500	9680
CHROMIUM	UG/L	24.2 U	26.4	146	93.5	29.4	6.5 B
COBALT	UG/L	10.7 B	2 UJ	5.4 B	2 U	2 U	2 UJ
COPPER	UG/L	3.9 UJ	6.9 UJ	24.2 UJ	7.1 UJ	8.4 UJ	3.3 UJ
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	8550	3380	19700	12900	3880	2820
LEAD	UG/L	4.1	9.6	85	18.8	6 U	2.3 U
MAGNESIUM	UG/L	2330 B	1010 B	4790 B	2920 B	1530 B	1550 B
MANGANESE	UG/L	44	57.3	50	23.2	17.1	12.3 B
MERCURY	UG/L	0.05 U	0.07 U	0.19 U	0.06 U	0.05 U	0.04 U
NICKEL	UG/L	21.2 JB	16.5 JB	33.7 JB	12.7 U	17.3 U	14.2 JB
POTASSIUM	UG/L	2140 B	1140 B	6060	4040 B	1540 B	811 B
SELENIUM	UG/L	5 U	5 U	5 U	5 UJ	5 U	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 U	2 U	2 UJ
SODIUM	UG/L	5930	4080 B	3780 B	9010	3350 B	5780
THALLIUM	UG/L	2 UJ	2 U	2 U	2 UJ	2 U	2 U
VANADIUM	UG/L	14.6 B	26.7 B	111	165	23.1 B	6.6 B
ZINC	UG/L	204	217	60.3	28.2 U	15.4 U	9 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-MW2-01	6-MW3-01	6-MW8-01	6-MW9-01	9-GW07-DW-01	9-GW1-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/24/92	10/23/92	10/24/92	10/24/92	11/3/92	10/25/92
	Lab Id:	00593-13	00591-22	00593-17	00593-19	00603-19	00593-27
Parameter	Units						
ALUMINUM	UG/L	23000 J	991	46500	164000	207	88700
ANTIMONY	UG/L	14 UJ	23 UJ	14 UJ	14 UJ	14 UJ	14 UJ
ARSENIC	UG/L	3 U	3 U	6.2 B	6.2 JB	3 UJ	20.2 B
BARIUM	UG/L	74.6 B	25.4 JB	84.5 B	185 B	34.9 B	205
BERYLLIUM	UG/L	0.3 U	0.3 U	0.64 UJ	1.1 UJ	0.3 U	1.2 UJ
CADMIUM	UG/L	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ
CALCIUM	UG/L	375 U	466 B	1490 B	1880 B	28500	90700
CHROMIUM	UG/L	15.4	3.6 UJ	42.2	160	3.6 UJ	99.3
COBALT	UG/L	2 UJ	2 U	2.3 U	9.3 U	2 U	5.5 U
COPPER	UG/L	13.4 UJ	15.1 UJ	10.8 UJ	30.8	1.9 UJ	23.1 JB
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 UJ	10 U
IRON	UG/L	2890 J	888	10600 J	37000 J	281	99200 J
LEAD	UG/L	10.4	1 B	10.7	94.6	1.5 U	66.4
MAGNESIUM	UG/L	763 B	444 B	2080 B	5610	1370 B	4230 B
MANGANESE	UG/L	6.8 B	4 U	20.8	64	14.8 B	174
MERCURY	UG/L	0.05 U	0.05 UJ	0.07 B	0.14 B	0.05 U	0.11 B
NICKEL	UG/L	7.9 UJ	7.9 UJ	7.9 UJ	21.7 B	8.1 UJ	7.9 UJ
POTASSIUM	UG/L	1480 B	839 B	4220 B	6050	65200	8620
SELENIUM	UG/L	5 U	5 U	5 UJ	25 U	5 U	25 UJ
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	2560 JB	3250 JB	3970 JB	3810 JB	53800	1390 JB
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	19.6 B	2.7 B	52.8	157	1.8 UJ	134
ZINC	UG/L	15.1 U	8.3 U	17.9 U	47.8	8.6 U	77.2

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	9-GW2-01	9-GW3-01	9-GW4-01	9-GW5-01	9-GW6-01	9-GW7-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92
	Lab Id:	00593-29	00593-11	00593-31	00593-33	00593-35	00593-39
Parameter	Units						
ALUMINUM	UG/L	35800	167000	2840	754	8830	6360
ANTIMONY	UG/L	14.5 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ
ARSENIC	UG/L	3.7 B	4.5 JB	3 U	3 U	3.2 B	3 U
BARIUM	UG/L	71.4 B	1060	71.3 B	66.6 B	28.7 JB	21.5 UJ
BERYLLIUM	UG/L	0.66 UJ	3.6 B	0.46 UJ	0.3 U	0.3 U	0.3 U
CADMIUM	UG/L	2.6 U	1.9 UJ	1.9 UJ	1.9 UJ	3.2 U	2.9 UJ
CALCIUM	UG/L	50200	36100	16100	60000	48900	20500
CHROMIUM	UG/L	45.4	214	3.6 U	3.6 U	10.6	8.3 B
COBALT	UG/L	3.5 U	13.3 U	2 UJ	2 UJ	2 UJ	2.6 U
COPPER	UG/L	15.5 JB	39.7	2.5 UJ	3.6 UJ	5.7 UJ	4.2 UJ
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	11500 J	30700 J	882 J	280 J	3340 J	1320
LEAD	UG/L	18.6	127	2 U	1 U	3.8 U	1.2 B
MAGNESIUM	UG/L	2370 B	6520	1130 B	1820 B	1250 B	1020 B
MANGANESE	UG/L	20.6	91.3	2.1 B	2.2 B	5 B	8.4 U
MERCURY	UG/L	1.4	0.33	0.05 U	0.05 U	0.04 U	0.05 U
NICKEL	UG/L	11.1 B	39.3 B	7.9 UJ	7.9 UJ	7.9 UJ	7.9 UJ
POTASSIUM	UG/L	3130 B	8110	326 B	9740	1230 B	1090 B
SELENIUM	UG/L	5 U	25 U	5 U	5 U	5 UJ	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	2310 JB	2190 JB	4170 JB	3910 JB	1740 JB	2450 JB
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U
VANADIUM	UG/L	45.8 B	175	2.9 U	8.3 U	20 B	4.9 U
ZINC	UG/L	24.8	118	9.7 U	6 U	9.2 U	5.6 U

CLEJ-01272-3.13-08/20/93

**SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS**

Sample No: 9-GW8-01
Depth: N/A
Date Sampled: 10/25/92
Lab Id: 00593-41

Parameter	Units	
ALUMINUM	UG/L	4270
ANTIMONY	UG/L	14 UJ
ARSENIC	UG/L	3 U
BARIUM	UG/L	30.3 UJ
BERYLLIUM	UG/L	0.42 UJ
CADMIUM	UG/L	1.9 UJ
CALCIUM	UG/L	16400
CHROMIUM	UG/L	5.2 B
COBALT	UG/L	2.3 U
COPPER	UG/L	4.4 UJ
CYANIDE	UG/L	10 U
IRON	UG/L	1200
LEAD	UG/L	5.2
MAGNESIUM	UG/L	1220 B
MANGANESE	UG/L	3.6 U
MERCURY	UG/L	0.05 U
NICKEL	UG/L	7.9 UJ
POTASSIUM	UG/L	5380
SELENIUM	UG/L	5 U
SILVER	UG/L	2 UJ
SODIUM	UG/L	2130 JB
THALLIUM	UG/L	2 U
VANADIUM	UG/L	13.7 U
ZINC	UG/L	8 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	UG/L	31.2 U	60.1 U	207	229000	6-BP6-01	45/49
ANTIMONY	UG/L	14 UJ	42.7 UJ	153 B	15.6 JB	6-GW6-1	2/49
ARSENIC	UG/L	3 U	3 U	3 B	67.8	6-82MW1-01	20/49
BARIUM	UG/L	8.8 UJ	30.3 UJ	20.4 JB	1060	9-GW3-01	42/49
BERYLLIUM	UG/L	0.3 U	2.1 U	0.55 JB	7.5	6-GW03-01	9/49
CADMIUM	UG/L	1.9 UJ	6.3 UJ	ND	ND		0/49
CALCIUM	UG/L	375 U	375 U	466 B	103000	6-GW01-DW-01	48/49
CHROMIUM	UG/L	3.6 UJ	24.2 U	5.2 B	214	9-GW3-01	33/49
COBALT	UG/L	2 U	133 U	23 JB	10.9 B	6-GW03-01	10/49
COPPER	UG/L	1.9 UJ	24.2 UJ	14 JB	175	6-GW03-01	13/49
CYANIDE	UG/L	10 U	10 U	ND	ND		0/49
IRON	UG/L	69.7 U	112 U	135	99200 J	9-GW1-01	44/49
LEAD	UG/L	1 UJ	6 U	1 B	200 J	6-GW03-01	29/49
MAGNESIUM	UG/L	NA	NA	331 B	7470	6-88-MW3-01	49/49
MANGANESE	UG/L	0.95 U	8.4 U	2.1 B	362	6-GW03-01	44/49
MERCURY	UG/L	0.04 U	0.19 U	0.07 B	1.4	9-GW2-01	14/49
NICKEL	UG/L	7.9 UJ	28.9 UJ	11.1 B	41.9	6-GW03-01	15/49
POTASSIUM	UG/L	NA	NA	326 B	67600	6-GW02-DW-01	49/49
SELENIUM	UG/L	5 UJ	25 U	ND	ND		0/49
SILVER	UG/L	2 UJ	2 UJ	ND	ND		0/49
SODIUM	UG/L	NA	NA	1110 JB	68700	6-GW15-01	49/49
THALLIUM	UG/L	2 UJ	2 UJ	ND	ND		0/49
VANADIUM	UG/L	1.8 UJ	13.7 U	2.6 B	330	6-GW1S-01	33/49
ZINC	UG/L	4.2 U	28.2 U	13.9 B	1620	6-GW03-01	20/49

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

	Sample No:	6-82-MW1D-01	6-82-MW2D-01	6-88-MW3D-01	6-BP6D-01	6-GW01-DWD-01	6-GW02-DWD-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/23/92	10/24/92	10/23/92	10/24/92	11/4/92	11/3/92
	Lab Id:	00591-21	00593-22	00591-27	00593-02	00603-08	00603-12
Parameter	Units						
ALUMINUM	UG/L	30.3 U	49.6 U	1200	14 U	14 U	29.7 U
ANTIMONY	UG/L	14 U	14 UJ	14 U	14 UJ	19.8 B	14 UJ
ARSENIC	UG/L	3 U	3 U	3 UJ	3 U	3 U	3 U
BARIUM	UG/L	5.8 UJ	27.4 UJ	31.4 B	5.6 UJ	67.1 B	2.6 UJ
BERYLLIUM	UG/L	0.3 U	0.47 UJ	0.44 U	3.5 U	0.3 U	0.3 U
CADMIUM	UG/L	2 UJ	3 U	1.9 UJ	2 U	3.2 U	1.9 UJ
CALCIUM	UG/L	3580 B	58500	3870 B	903 U	97600	1690 B
CHROMIUM	UG/L	3.6 UJ	3.6 U	6.6 U	3.6 U	3.6 UJ	3.6 UJ
COBALT	UG/L	2 U	2 U	4.6 B	2.3 U	2 U	2 U
COPPER	UG/L	3.5 UJ	4.2 UJ	6.6 UJ	3.8 UJ	6.2 UJ	7.3 UJ
IRON	UG/L	26.1 U	2800	3280	9.2 UJ	14.2 U	24.8 U
LEAD	UG/L	1 UJ	3 UJ	1 U	1 UJ	1 U	1 U
MAGNESIUM	UG/L	3340 B	4200 JB	4240 B	557 JB	3110 B	332 B
MANGANESE	UG/L	127	49.9	98.9	5.3 U	18.5	0.6 U
MERCURY	UG/L	0.05 UJ	0.04 U	0.05 UJ	0.04 U	0.06 U	0.05 U
NICKEL	UG/L	13.9 JB	7.9 UJ	10.4 JB	7.9 UJ	7.9 U	7.9 U
POTASSIUM	UG/L	1570 B	634 U	1440 B	388 U	7640	70200
SELENIUM	UG/L	5 U	5 UJ	5 U	5 U	5 U	5 U
SILVER	UG/L	2 UJ	27.6	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	6240	36000 J	5980	3410 JB	13100	27300
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 UJ
VANADIUM	UG/L	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	2.7 U
ZINC	UG/L	66.8	4.9 U	119	9.2 U	3.8 U	3.3 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
DISSOLVED METALS

	Sample No:	6-GW03D-01	6-GW07-DWD-01	6-GW07SD-01	6-GW10D-1	6-GW11D-01	6-GW12D-1
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/22/92	11/4/92	10/22/92	10/20/92	10/22/92	10/20/92
	Lab Id:	00589-02	00603-14	00589-04	00582-04	00589-06	00582-06
Parameter	Units						
ALUMINUM	UG/L	86.4 U	14 U	71 U	75.4 U	62.6 U	271
ANTIMONY	UG/L	41 UJ	14 UJ	21.8 UJ	14 UJ	38.5 UJ	14 UJ
ARSENIC	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
BARIUM	UG/L	23.4 JB	12.3 UJ	12.7 UJ	28.4 B	24 JB	3.4 UJ
BERYLLIUM	UG/L	0.3 UJ	0.3 U	0.3 UJ	0.3 U	0.3 UJ	0.3 U
CADMIUM	UG/L	3.6 UJ	2.1 U	1.9 U	1.9 UJ	2.1 UJ	1.9 UJ
CALCIUM	UG/L	40700	51400	40700	8680	37000	19600
CHROMIUM	UG/L	3.6 UJ	3.8 B	3.6 UJ	3.6 UJ	3.6 UJ	4.8 U
COBALT	UG/L	2 UJ	2 U	2 UJ	2 UJ	2 UJ	2 UJ
COPPER	UG/L	4.3 UJ	6.9 UJ	3.7 UJ	1.9 U	4.1 UJ	3.6 UJ
IRON	UG/L	12.1 U	16.2 U	9.2 UJ	1680	78.9 B	45.3 U
LEAD	UG/L	1 U	1 U	1 U	1 U	1.2 B	1 B
MAGNESIUM	UG/L	1910 B	1510 B	671 B	531 B	1220 B	378 B
MANGANESE	UG/L	5.1 B	31.8	0.6 UJ	9.3 U	11.5 B	3.5 U
MERCURY	UG/L	0.04 U	0.05 U	0.05 U	0.04 U	0.05 U	0.05 U
NICKEL	UG/L	7.9 UJ	10.9 UJ	7.9 UJ	7.9 U	7.9 UJ	7.9 U
POTASSIUM	UG/L	3480 B	1410 B	1140 B	2050 B	2440 B	259 U
SELENIUM	UG/L	5 UJ	5 U	5 U	5 U	5 U	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	2880 JB	11300	1420 JB	6980	2260 JB	1560 UJ
THALLIUM	UG/L	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U
VANADIUM	UG/L	1.8 UJ	1.8 UJ	8.1 U	1.8 UJ	6.3 U	2.7 B
ZINC	UG/L	230	5.9 U	4.4 U	8.1 U	6.8 U	7.7 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

	Sample No:	6-GW13D-1	6-GW14D-01	6-GW15D-01	6-GW16D-01	6-GW17D-01	6-GW18D-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/20/92	10/21/92	10/23/92	10/21/92	10/21/92	10/21/92
	Lab Id:	00582-08	00582-29	00591-11	00582-31	00582-33	00582-35
Parameter	Units						
ALUMINUM	UG/L	47.6 U	216	402	83.4 B	623	123 B
ANTIMONY	UG/L	19 JB	14 U	28.1 UJ	14 U	14 U	14 U
ARSENIC	UG/L	3 U	3 U	6.6 B	3 U	3 U	3 U
BARIUM	UG/L	4.4 UJ	6.3 U	6.4 UJ	43 B	108 B	19.8 U
BERYLLIUM	UG/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMIUM	UG/L	1.9 UJ	1.9 U	1.9 UJ	1.9 U	1.9 U	1.9 U
CALCIUM	UG/L	57400	8040	46600	8110	9970	2700 B
CHROMIUM	UG/L	3.6 UJ	3.6 U	4.7 U	3.6 U	3.6 U	3.6 U
COBALT	UG/L	2 UJ	2 U	2 U	2 U	2 U	2 U
COPPER	UG/L	2.3 UJ	3.4 UJ	5.8 UJ	2.8 UJ	9.4 UJ	3.7 UJ
IRON	UG/L	33.8 U	73.7 U	72.2 U	470	287	67.1 U
LEAD	UG/L	1 U	1.8 U	2 B	1.4 U	1.4 U	1.2 UJ
MAGNESIUM	UG/L	707 B	379 B	2550 B	1020 B	737 B	315 B
MANGANESE	UG/L	1.4 U	1.9 UJ	3 B	58.2	10.7 B	9.2 B
MERCURY	UG/L	0.04 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
NICKEL	UG/L	11 UJ	7.9 U	7.9 UJ	12 U	7.9 U	10.8 U
POTASSIUM	UG/L	226 U	259 B	2570 B	752 B	1200 B	510 B
SELENIUM	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
SILVER	UG/L	2 UJ	2 U	2 UJ	2 U	2 U	2 U
SODIUM	UG/L	1200 UJ	2860 B	70500	4410 B	7210	2180 B
THALLIUM	UG/L	2 U	2 U	2 UJ	2 U	2 U	2 U
VANADIUM	UG/L	1.8 UJ	1.8 U	41.8 B	1.8 U	1.9 B	1.8 U
ZINC	UG/L	6.9 U	7.4 U	13.4 U	619	13.4 U	8.3 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

	Sample No:	6-GW19D-01	6-GW1SD-01	6-GW20D-01	6-GW21D-01	6-GW22D-01	6-GW23D-01
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/22/92	10/24/92	10/22/92	10/22/92	10/21/92	10/22/92
	Lab Id:	00589-08	00593-08	00589-12	00589-14	00582-37	00589-16
Parameter	Units						
ALUMINUM	UG/L	554	158 U	793	88.7 U	291	45 U
ANTIMONY	UG/L	33.1 UJ	14 UJ	28.5 UJ	30.7 UJ	14 U	21.1 UJ
ARSENIC	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
BARIUM	UG/L	38.4 B	11.5 UJ	60.5 B	9.1 UJ	43.4 B	33.2 B
BERYLLIUM	UG/L	0.3 UJ	3.5 U	0.3 UJ	0.3 UJ	0.3 U	0.3 UJ
CADMIUM	UG/L	1.9 U	3 U	1.9 U	1.9 U	1.9 U	1.9 U
CALCIUM	UG/L	2320 B	18400	4700 B	4460 B	29800	6460
CHROMIUM	UG/L	3.6 UJ	3.6 U	3.6 UJ	3.6 UJ	3.6 U	3.6 UJ
COBALT	UG/L	2 UJ	2 U	2 UJ	2 UJ	2 U	2 UJ
COPPER	UG/L	3.7 UJ	5.3 UJ	6 UJ	4.9 UJ	3 UJ	3.9 UJ
IRON	UG/L	447	41.9 U	605	25 U	76.6 U	27.7 U
LEAD	UG/L	1 U	1 UJ	1 U	1 U	1.5 UJ	1 U
MAGNESIUM	UG/L	368 B	1770 JB	980 B	682 B	791 B	1640 B
MANGANESE	UG/L	7.6 B	2.6 U	12.4 B	4.9 B	9.9 B	25.4
MERCURY	UG/L	0.05 U	0.04 U	0.05 U	0.05 U	0.05 U	0.05 U
NICKEL	UG/L	7.9 UJ	7.9 UJ	9.6 UJ	7.9 UJ	10.8 U	10.8 UJ
POTASSIUM	UG/L	2270 B	1180 B	807 B	616 B	1050 B	3240 B
SELENIUM	UG/L	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 UJ
SODIUM	UG/L	2620 JB	2240 JB	5690	3020 JB	4360 B	5060
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 UJ
VANADIUM	UG/L	3.6 U	1.8 UJ	2.3 U	2.3 U	1.8 B	1.8 U
ZINC	UG/L	5.5 U	10 U	9.2 U	8.6 U	11.7 U	14.9 B

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
DISSOLVED METALS

Sample No:	6-GW25D-01	6-GW26D-01	6-GW27-DWD-01	6-GW28-DWD-01	6-GW28D-01	6-GW2D-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/23/92	10/23/92	11/3/92	11/3/92	10/23/92	10/24/92	
Lab Id:	00591-13	00591-15	00603-16	00603-18	00591-17	00593-10	
Parameter	Units						
ALUMINUM	UG/L	63.4 U	14 U	14 U	14 U	25.2 U	104 U
ANTIMONY	UG/L	14 U	14 U	14 UJ	14 UJ	14 U	14 UJ
ARSENIC	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
BARIUM	UG/L	24.7 JB	19.2 JB	15 UJ	8.9 UJ	8.2 UJ	16.9 UJ
BERYLLIUM	UG/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	3.5 U
CADMIUM	UG/L	1.9 UJ	2 UJ	1.9 UJ	1.9 UJ	1.9 UJ	3000
CALCIUM	UG/L	3550 B	35400	64800	49400	15200	1910 U
CHROMIUM	UG/L	3.6 U	3.6 U	3.6 UJ	3.6 UJ	3.6 U	3.6 U
COBALT	UG/L	2 U	2 U	2 U	2 U	2 U	2 U
COPPER	UG/L	8.6 UJ	4.3 UJ	6.5 UJ	6.7 UJ	2.8 UJ	4.1 UJ
IRON	UG/L	74.8 U	25 U	13.4 U	12.3 U	40 U	18.1 U
LEAD	UG/L	1 U	1 U	1 U	1 U	1 B	1 UJ
MAGNESIUM	UG/L	1510 B	3450 B	1800 B	1470 B	1420 B	1240 JB
MANGANESE	UG/L	10.8 B	57	14.7 B	11.8 B	21	6.4 B
MERCURY	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.04 U
NICKEL	UG/L	7.9 UJ	7.9 UJ	10.2 UJ	7.9 U	7.9 UJ	7.9 UJ
POTASSIUM	UG/L	934 B	2060 B	1470 B	1230 B	976 B	625 U
SELENIUM	UG/L	5 UJ	5 UJ	5 U	5 U	5 UJ	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	3560 JB	3280 JB	6580	7640	6840	2290 JB
THALLIUM	UG/L	2 UJ	2 UJ	2 U	2 U	2 UJ	2 UJ
VANADIUM	UG/L	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ
ZINC	UG/L	9.2 U	147	6.9 U	4.5 U	15.3 U	10.4 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

	Sample No:	6-GW30D-01	6-GW4D-1	6-GW5D-01	6-GW6D-1	6-GW8D-1	6-GW9D-1
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/23/92	10/21/92	10/21/92	10/21/92	10/21/92	10/20/92
	Lab Id:	00591-19	00582-19	00582-21	00582-25	00582-27	00582-02
Parameter	Units						
ALUMINUM	UG/L	16.8 U	782	293	1020	123 B	47.1 U
ANTIMONY	UG/L	14 U	14 UJ	14 U	14 U	14 U	14 UJ
ARSENIC	UG/L	3 UJ	3 U	3 U	3 U	3 U	3 U
BARIUM	UG/L	12 JB	41.5 B	8.5 U	68 B	4.4 U	29.5 B
BERYLLIUM	UG/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMIUM	UG/L	1.9 UJ	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 UJ
CALCIUM	UG/L	15600	4560 B	35100	6230	25900	9240
CHROMIUM	UG/L	3.6 U	3.6 UJ	3.6 U	3.6 U	3.6 U	3.6 UJ
COBALT	UG/L	4.9 B	2 UJ	2 U	2 U	2 U	2 UJ
COPPER	UG/L	5.2 UJ	1.9 U	2.8 UJ	9.6 UJ	3.6 UJ	2.8 UJ
IRON	UG/L	50.3 U	351 U	44.9 UJ	354	33.7 UJ	768
LEAD	UG/L	1 UJ	1 B	1.1 U	1 U	1.1 UJ	1 U
MAGNESIUM	UG/L	1350 B	647 B	756 B	763 B	609 B	1340 B
MANGANESE	UG/L	22.2	92.7	0.94 UJ	6 U	3.3 UJ	11.6 U
MERCURY	UG/L	0.05 U	0.06 U	0.05 U	0.05 U	0.06 U	0.05 U
NICKEL	UG/L	19.6 JB	8.5 UJ	15 U	7.9 U	12.6 U	7.9 U
POTASSIUM	UG/L	1270 B	635 U	568 B	518 B	267 B	585 U
SELENIUM	UG/L	5 UJ	5 U	5 U	5 U	5 UJ	5 U
SILVER	UG/L	2 UJ	2 UJ	2 U	2 U	2 U	2 UJ
SODIUM	UG/L	5730	4300 B	7000	9330	4710 B	5550
THALLIUM	UG/L	2 UJ	2 U	2 U	2 U	2 U	2 U
VANADIUM	UG/L	1.8 UJ	1.8 UJ	3 B	5.8 B	1.8 B	1.8 UJ
ZINC	UG/L	35.9	350	7.7 U	28.7 U	8.2 U	12.8 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

Sample No:	6-MW2D-01	6-MW3D-01	6-MW8D-01	6-MW9D-01	9-GW07-DWD-01	9-GW1D-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/24/92	10/23/92	10/24/92	10/24/92	11/3/92	10/25/92	
Lab Id:	00593-15	00591-23	00593-18	00593-20	00603-20	00593-28	
Parameter	Units						
ALUMINUM	UG/L	652	49.8 U	88.6 U	32.1 U	14 U	44.6 U
ANTIMONY	UG/L	14 UJ	14 U	14 UJ	14 UJ	14 UJ	14 UJ
ARSENIC	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
BARIUM	UG/L	43.7 JB	2.6 UJ	1.6 UJ	6.8 UJ	2.1 UJ	28.6 UJ
BERYLLIUM	UG/L	3.6 U	0.3 U	0.3 U	0.46 UJ	0.3 U	0.47 UJ
CADMIUM	UG/L	2 U	1.9 UJ	1.9 UJ	4 U	1.9 UJ	2 U
CALCIUM	UG/L	442 U	437 B	606 U	1290 U	1090 B	82400
CHROMIUM	UG/L	3.6 U	3.6 UJ	3.6 U	3.6 U	3.6 UJ	3.6 U
COBALT	UG/L	2 U	2 U	2 U	2.3 U	2 U	2 U
COPPER	UG/L	4.7 UJ	3.1 UJ	6.4 UJ	4.9 UJ	3.8 UJ	4.5 UJ
IRON	UG/L	128 U	536	25.6 U	9.2 UJ	28.2 U	128 U
LEAD	UG/L	2.5 UJ	1 UJ	1.2 UJ	3.3 UJ	1 U	2.8 UJ
MAGNESIUM	UG/L	297 JB	424 B	371 J	981 JB	348 B	1580 JB
MANGANESE	UG/L	3.1 U	3.2 U	4.3 U	5.7 U	0.6 U	12.5 B
MERCURY	UG/L	0.04 U	0.04 UJ	0.04 U	0.04 U	0.05 U	0.04 U
NICKEL	UG/L	7.9 UJ	7.9 UJ	7.9 UJ	7.9 UJ	7.9	7.9 UJ
POTASSIUM	UG/L	326 U	976 B	1720 B	625 U	69700	3730 B
SELENIUM	UG/L	5 U	5 UJ	5 U	5 U	5 UJ	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SODIUM	UG/L	2730 JB	3540 JB	4160 JB	3530 JB	57400	1280 JB
THALLIUM	UG/L	2 UJ	2 U	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	3 U	2.4 B	3 U	1.8 UJ	1.8 UJ	1.8 UJ
ZINC	UG/L	6.2 U	13.1 U	7.9 U	8.7 U	4.7 U	7.8 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

Sample No:	9-GW2D-01	9-GW3D-01	9-GW4D-01	9-GW5D-01	9-GW6D-01	9-GW7D-01	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92	10/25/92	
Lab Id:	00593-30	00593-12	00593-32	00593-34	00593-37	00593-40	
Parameter	Units						
ALUMINUM	UG/L	145 U	41.6 U	1820	22.4 U	33.5 U	14.5 U
ANTIMONY	UG/L	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ
ARSENIC	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
BARIUM	UG/L	7.9 UJ	4.5 UJ	67.8 JB	59.1 JB	12.4 UJ	10.4 UJ
BERYLLIUM	UG/L	0.35 UJ	3.5 U	0.46 UJ	0.44 UJ	0.45 UJ	0.3 U
CADMIUM	UG/L	1.9 U	1.9 U	2 U	3 U	1.9 UJ	1.9 UJ
CALCIUM	UG/L	44700	27300	15800	53800	46800	20800
CHROMIUM	UG/L	3.6 U	3.6 U	4.7 B	3.6 U	4.2 B	3.9 B
COBALT	UG/L	2.9 U	2 U	2.3 U	3.5 U	3.2 U	2 U
COPPER	UG/L	4.5 UJ	2.4 UJ	4.7 UJ	3.8 UJ	4.5 UJ	6.6 UJ
IRON	UG/L	72.4 U	9.2 UJ	201	9.2 UJ	9.2 UJ	78.1 U
LEAD	UG/L	2.2 UJ	1 UJ	2.8 UJ	3.5 UJ	4.4 UJ	1.2 UJ
MAGNESIUM	UG/L	1190 JB	620 JB	1050 JB	1600 JB	933 JB	837 JB
MANGANESE	UG/L	0.71 U	0.94 U	0.97 U	1.2 U	0.6 UJ	5.8 U
MERCURY	UG/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
NICKEL	UG/L	7.9 UJ	7.9 UJ	7.9 UJ	7.9 UJ	7.9 UJ	7.9 UJ
POTASSIUM	UG/L	1080 B	396 U	344 U	8610	625 U	687 U
SELENIUM	UG/L	5 U	5 UJ	5 U	5 UJ	5 U	5 U
SILVER	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	3.8 U	2 UJ
SODIUM	UG/L	2210 JB	2130 JB	3860 JB	3400 JB	1740 JB	2480 JB
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	1.8 UJ	1.8 UJ	1.8 UJ	7.1 U	4.9 U	2 U
ZINC	UG/L	8.3 U	7.5 U	9.3 U	4.3 U	3.4 U	6 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

Sample No: 9-GW8D-01
 Depth: N/A
 Date Sampled: 10/25/92
 Lab Id: 00593-42

Parameter	Units	
ALUMINUM	UG/L	35 U
ANTIMONY	UG/L	14 UJ
ARSENIC	UG/L	3 U
BARIUM	UG/L	17.9 UJ
BERYLLIUM	UG/L	0.3 U
CADMIUM	UG/L	1.9 UJ
CALCIUM	UG/L	16000
CHROMIUM	UG/L	3.6 U
COBALT	UG/L	2 U
COPPER	UG/L	3.6 UJ
IRON	UG/L	17.2 U
LEAD	UG/L	1 UJ
MAGNESIUM	UG/L	1080 JB
MANGANESE	UG/L	1.9 U
MERCURY	UG/L	0.04 U
NICKEL	UG/L	7.9 UJ
POTASSIUM	UG/L	4920 B
SELENIUM	UG/L	5 U
SILVER	UG/L	2 UJ
SODIUM	UG/L	2200 JB
THALLIUM	UG/L	2 UJ
VANADIUM	UG/L	5.8 U
ZINC	UG/L	6.1 U

CLEJ-01272-3.13-08/20/93

SITE 6 & 9 GROUNDWATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
ALUMINUM	UG/L	14 U	158 U	83.4 B	1820	9-GW4D-01	16/49
ANTIMONY	UG/L	14 U	41 UJ	19 JB	19.8 B	6-GW01-DWD-01	2/49
ARSENIC	UG/L	3 U	3 U	6.6 B	6.6 B	6-GW15D-01	1/49
BARIUM	UG/L	1.6 UJ	28.6 UJ	12 JB	108 B	6-GW17D-01	20/49
BERYLLIUM	UG/L	0.3 U	3.6 U	ND	ND		0/49
CADMIUM	UG/L	1.9 UJ	4 U	3000	3000	6-GW2D-01	1/49
CALCIUM	UG/L	442 U	1910 U	437 B	97600	6-GW01-DWD-01	44/49
CHROMIUM	UG/L	3.6 UJ	6.6 U	3.8 B	4.7 B	9-GW4D-01	4/49
COBALT	UG/L	2 U	3.5 U	4.6 B	4.9 B	6-GW30D-01	2/49
COPPER	UG/L	1.9 U	9.6 UJ	ND	ND		0/49
IRON	UG/L	9.2 UJ	351 U	78.9 B	3280	6-88-MW3D-01	12/49
LEAD	UG/L	1 UJ	4.4 UJ	1 B	2 B	6-GW15D-01	5/49
MAGNESIUM	UG/L	NA	NA	297 JB	4240 B	6-88-MW3D-01	49/49
MANGANESE	UG/L	0.6 U	11.6 U	3 B	127	6-82-MW1D-01	25/49
MERCURY	UG/L	0.04 U	0.06 U	ND	ND		0/49
NICKEL	UG/L	7.9 UJ	15 U	7.9	19.6 JB	6-GW30D-01	4/49
POTASSIUM	UG/L	226 U	687 U	259 B	70200	6-GW02-DWD-01	36/49
SELENIUM	UG/L	5 U	5 U	ND	ND		0/49
SILVER	UG/L	2 UJ	3.8 U	27.6	27.6	6-82-MW2D-01	1/49
SODIUM	UG/L	1200 UJ	1560 UJ	1280 JB	70500	6-GW15D-01	47/49
THALLIUM	UG/L	2 UJ	2 UJ	ND	ND		0/49
VANADIUM	UG/L	1.8 UJ	8.1 U	1.8 B	41.8 B	6-GW15D-01	8/49
ZINC	UG/L	3.3 U	28.7 U	14.9 B	619	6-GW16D-01	8/49

CLEJ-01272-3.13-08/20/93

L.10

**Site 6 - Wallace Creek Surface Water,
Organic and Inorganic**

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC01-SW-06B	6-WC01-SW-06M	6-WC02-SW-06B	6-WC03-SW-06B	6-WC03-SW-06M	6-WC03-SW-312M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00464-25	00464-26	00445-16	00439-18	00439-19	00439-20
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 U	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 U	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 U	1 UJ	1 UJ	1 UJ	1 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
ACETONE	UG/L	10 U	10 U	10 U	10 U	46
CARBON DISULFIDE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC01-SW-06B	6-WC01-SW-06M	6-WC02-SW-06B	6-WC03-SW-06B	6-WC03-SW-06M	6-WC03-SW-312M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00464-25	00464-26	00445-16	00439-18	00439-19	00439-20
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOFORM	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	UG/L	10 U	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
TOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
STYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U	10 U	10 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC01-SW-06B	6-WC01-SW-06M	6-WC02-SW-06B	6-WC03-SW-06B	6-WC03-SW-06M	6-WC03-SW-312M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00464-25	00464-26	00445-16	00439-18	00439-19	00439-20
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 UJ	10 UJ	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 UJ	10 UJ	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 U
BENZO(B)FLUORANTHENE	UG/L	10 UJ	10 UJ	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 U
BENZO(A)PYRENE	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 U
DIBENZ(AH)ANTHRACENE	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC04-SW-06B	6-WC04-SW-06M	6-WC05-SW-06B	6-WC05-SW-06M	6-WC05-SW-312M	6-WC06-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/25/92	8/25/92	8/25/92	8/25/92	8/25/92	8/23/92
Lab Id:	00439-21	00439-22	00437-19	00437-20	00437-21	00429-05
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 U
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 U
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 U
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 U
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 U
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 U
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 U
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ	1 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
ACETONE	UG/L	14	10 U	10 U	10 U	10 UJ
CARBON DISULFIDE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE	UG/L	4 J	4 J	10 U	10 U	10 U
CHLOROFORM	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC04-SW-06B	6-WC04-SW-06M	6-WC05-SW-06B	6-WC05-SW-06M	6-WC05-SW-312M	6-WC06-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/25/92	8/25/92	8/25/92	8/25/92	8/25/92	8/23/92
Lab Id:	00439-21	00439-22	00437-19	00437-20	00437-21	00429-05
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOFORM	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	UG/L	10 U	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
TOLUENE	UG/L	10 U	10 U	10 U	10 U	2 J
CHLOROENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
STYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U	10 U	10 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC04-SW-06B	6-WC04-SW-06M	6-WC05-SW-06B	6-WC05-SW-06M	6-WC05-SW-312M	6-WC06-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/25/92	8/25/92	8/25/92	8/25/92	8/25/92	8/23/92
Lab Id:	00439-21	00439-22	00437-19	00437-20	00437-21	00429-05
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 UJ	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 U	2 J
DI-N-OCTYL PHTHALATE	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U
BENZO(A)PYRENE	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC06-SW-06M	6-WC07-SW-06B	6-WC07-SW-06M	6-WC07-SW-312M	6-WC08-SW-06B	6-WC08-SW-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
Lab Id:	00429-06	00429-10	00429-11	00429-12	00429-18	00429-19
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
BETA-BHC	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
DELTA-BHC	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
HEPTACHLOR	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
ALDRIN	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
ENDOSULFAN I	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
DIELDRIN	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDE	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ENDRIN	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ENDOSULFAN II	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDD	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
4,4'-DDT	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
METHOXYCHLOR	UG/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
ENDRIN KETONE	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ
TOXAPHENE	UG/L	5 U	5 UJ	5 U	5 U	5 UJ
PCB-1016	UG/L	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1221	UG/L	2 U	2 UJ	2 U	2 U	2 UJ
PCB-1232	UG/L	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1242	UG/L	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1248	UG/L	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1254	UG/L	1 U	1 UJ	1 U	1 U	1 UJ
PCB-1260	UG/L	1 U	1 UJ	1 U	1 U	1 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	6 J	10 U	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
ACETONE	UG/L	4 J	10 UJ	10 UJ	5 J	6 J
CARBON DISULFIDE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE	UG/L	10 U	85	10 U	9 J	23
CHLOROFORM	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LBJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC06-SW-06M	6-WC07-SW-06B	6-WC07-SW-06M	6-WC07-SW-312M	6-WC08-SW-06B	6-WC08-SW-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
Lab Id:	00429-06	00429-10	00429-11	00429-12	00429-18	00429-19
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	UG/L	10 U	98	10 U	4 J	16
DIBROMOCHLOROMETHANE	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOFORM	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	UG/L	10 U	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	UG/L	10 U	4 J	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	1 J
TOLUENE	UG/L	10 U	3 J	10 U	10 U	10 U
CHLOROENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
STYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U	10 U	10 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 UJ
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC06-SW-06M	6-WC07-SW-06B	6-WC07-SW-06M	6-WC07-SW-312M	6-WC08-SW-06B	6-WC08-SW-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
Lab Id:	00429-06	00429-10	00429-11	00429-12	00429-18	00429-19
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 UJ	25 UJ	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 UJ	10 UJ	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 UJ	10 UJ	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	10 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC08-SW-312M	6-WC09-SW-06B	6-WC09-SW-06M	6-WC09-SW-312M	6-WC10-SW-06B	6-WC10-SW-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/22/92	8/22/92
Lab Id:	00429-20	00429-26	00429-28	00429-29	00426-06	00426-08

Parameter	Units	6-WC08-SW-312M	6-WC09-SW-06B	6-WC09-SW-06M	6-WC09-SW-312M	6-WC10-SW-06B	6-WC10-SW-06M
PESTICIDE/PCBS							
ALPHA-BHC	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 U	2 U	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ
VOLATILES							
CHLOROMETHANE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
ACETONE	UG/L	27 J	10 UJ	10 UJ	900 J	10 UJ	10 UJ
CARBON DISULFIDE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
1,2-DICHLOROETHENE	UG/L	9 J	17	21	100 U	4 J	6 J
CHLOROFORM	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U	10 U	100 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC08-SW-312M	6-WC09-SW-06B	6-WC09-SW-06M	6-WC09-SW-312M	6-WC10-SW-06B	6-WC10-SW-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/22/92	8/22/92
Lab Id:	00429-20	00429-26	00429-28	00429-29	00426-06	00426-08
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	100 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U	10 U	100 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U	10 U	100 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	10 U	100 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	100 U	10 U
TRICHLOROETHENE	UG/L	10	22	28	100 U	5 J
DIBROMOCHLOROMETHANE	UG/L	10 UJ	10 UJ	10 UJ	100 UJ	10 UJ
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	100 U	10 U
BENZENE	UG/L	10 U	10 U	10 U	100 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	100 U	10 U
BROMOFORM	UG/L	10 U	10 U	10 U	100 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	10 U	100 U	10 U
2-HEXANONE	UG/L	10 U	10 U	10 U	100 U	10 U
TETRACHLOROETHENE	UG/L	10 U	10 U	1 J	100 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	10 U	100 U	10 U
TOLUENE	UG/L	10 U	10 U	10 U	100 U	1 J
CHLOROBENZENE	UG/L	10 U	10 U	10 U	100 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U	10 U	100 U	10 U
STYRENE	UG/L	10 U	10 U	10 U	100 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U	10 U	100 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 UJ
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 UJ
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UJ
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 UJ
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UJ
N-NITROSODI-N-PROPYLAMINE	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 UJ
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 UJ
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UJ
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UJ
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 UJ
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UJ
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 UJ
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC08-SW-312M	6-WC09-SW-06B	6-WC09-SW-06M	6-WC09-SW-312M	6-WC10-SW-06B	6-WC10-SW-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/22/92	8/22/92
Lab Id:	00429-20	00429-26	00429-28	00429-29	00426-06	00426-08
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 UJ
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	1 J
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 UJ
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 UJ
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 UJ
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 UJ
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 UJ
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 UJ
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 UJ
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 UJ
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 UJ
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 UJ
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 UJ
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 UJ
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 UJ
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 UJ
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 UJ
PYRENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 UJ
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 U	2 J
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 UJ	10 U	10 UJ	10 UJ
BENZO(B)FLUORANTHENE	UG/L	10 U	10 UJ	10 U	10 UJ	10 UJ
BENZO(K)FLUORANTHENE	UG/L	10 U	10 UJ	10 U	10 UJ	10 UJ
BENZO(A)PYRENE	UG/L	10 U	10 UJ	10 U	10 UJ	10 UJ
INDENO(1,2,3-CD)PYRENE	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 UJ	10 U	10 UJ	10 UJ
BENZO(G,H,I)PERYLENE	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-WC10-SW-312M	6-WC11-SW-06B	6-WC11-SW-06M	6-WC11-SW-312M
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	8/22/92	8/22/92	8/22/92	8/22/92
	Lab Id:	00426-09	00426-12	00426-13	00426-14
Parameter	Units				
<u>PESTICIDE/PCBS</u>					
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 UJ	5 UJ	5 UJ
PCB-1016	UG/L	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1221	UG/L	2 UJ	2 UJ	2 UJ	2 UJ
PCB-1232	UG/L	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1242	UG/L	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1248	UG/L	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1254	UG/L	1 UJ	1 UJ	1 UJ	1 UJ
PCB-1260	UG/L	1 UJ	1 UJ	1 UJ	1 UJ
<u>VOLATILES</u>					
CHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	10 U	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U	10 U	10 U
ACETONE	UG/L	10 UJ	10 UJ	9 J	14 J
CARBON DISULFIDE	UG/L	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE	UG/L	10 U	2 J	10 U	2 J
CHLOROFORM	UG/L	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-WC10-SW-312M	6-WC11-SW-06B	6-WC11-SW-06M	6-WC11-SW-312M
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	8/22/92	8/22/92	8/22/92	8/22/92
	Lab Id:	00426-09	00426-12	00426-13	00426-14
Parameter	Units				
<u>VOLATILES Cont.</u>					
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U
TRICHLOROETHENE	UG/L	10 U	3 J	3 J	4 J
DIBROMOCHLOROMETHANE	UG/L	10 UJ	10 UJ	10 UJ	10 UJ
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
BENZENE	UG/L	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U
BROMOFORM	UG/L	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	10 U	10 U
2-HEXANONE	UG/L	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	UG/L	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
TOLUENE	UG/L	10 U	1 J	10 U	10 U
CHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U	10 U	10 U
STYRENE	UG/L	10 U	10 U	10 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U	10 U	10 U
<u>SEMIVOLATILES</u>					
PHENOL	UG/L	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 UJ	10 U	10 UJ
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC10-SW-312M	6-WC11-SW-06B	6-WC11-SW-06M	6-WC11-SW-312M
Depth:	N/A	N/A	N/A	N/A
Date Sampled:	8/22/92	8/22/92	8/22/92	8/22/92
Lab Id:	00426-09	00426-12	00426-13	00426-14
Parameter	Units			
<u>SEMIVOLATILES Cont.</u>				
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	1 J	2 J	2 J
DI-N-OCTYL PHTHALATE	UG/L	10 UJ	10 U	10 UJ
BENZO(B)FLUORANTHENE	UG/L	10 UJ	10 U	10 UJ
BENZO(K)FLUORANTHENE	UG/L	10 UJ	10 U	10 UJ
BENZO(A)PYRENE	UG/L	10 UJ	10 U	10 UJ
INDENO(1,2,3-CD) PYRENE	UG/L	10 UJ	10 U	10 UJ
DIBENZ(A,H)ANTHRACENE	UG/L	10 UJ	10 U	10 UJ
BENZO(G,H,I)PERYLENE	UG/L	10 UJ	10 U	10 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/28
BETA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/28
DELTA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/28
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 U	ND	ND		0/28
HEPTACHLOR	UG/L	0.05 U	0.05 U	ND	ND		0/28
ALDRIN	UG/L	0.05 U	0.05 U	ND	ND		0/28
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 U	ND	ND		0/28
ENDOSULFAN I	UG/L	0.05 U	0.05 U	ND	ND		0/28
DIELDRIN	UG/L	0.1 U	0.1 U	ND	ND		0/28
4,4'-DDE	UG/L	0.1 U	0.1 U	ND	ND		0/28
ENDRIN	UG/L	0.1 U	0.1 U	ND	ND		0/28
ENDOSULFAN II	UG/L	0.1 U	0.1 U	ND	ND		0/28
4,4'-DDD	UG/L	0.1 U	0.1 U	ND	ND		0/28
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 U	ND	ND		0/28
4,4'-DDT	UG/L	0.1 U	0.1 U	ND	ND		0/28
METHOXYCHLOR	UG/L	0.5 U	0.5 U	ND	ND		0/28
ENDRIN KETONE	UG/L	0.1 U	0.1 U	ND	ND		0/28
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 U	ND	ND		0/28
ALPHA CHLORDANE	UG/L	0.05 U	0.05 U	ND	ND		0/28
GAMMA CHLORDANE	UG/L	0.05 U	0.05 U	ND	ND		0/28
TOXAPHENE	UG/L	5 U	5 U	ND	ND		0/28
PCB-1016	UG/L	1 U	1 U	ND	ND		0/28
PCB-1221	UG/L	2 U	2 U	ND	ND		0/28
PCB-1232	UG/L	1 U	1 U	ND	ND		0/28
PCB-1242	UG/L	1 U	1 U	ND	ND		0/28
PCB-1248	UG/L	1 U	1 U	ND	ND		0/28
PCB-1254	UG/L	1 U	1 U	ND	ND		0/28
PCB-1260	UG/L	1 U	1 U	ND	ND		0/28
<u>VOLATILES</u>							
CHLOROMETHANE	UG/L	10 U	100 U	ND	ND		0/28
BROMOMETHANE	UG/L	10 U	100 U	ND	ND		0/28
VINYL CHLORIDE	UG/L	10 U	100 U	6 J	6 J	6-WC07-SW-06B	1/28
CHLOROETHANE	UG/L	10 U	100 U	ND	ND		0/28
METHYLENE CHLORIDE	UG/L	10 U	100 U	ND	ND		0/28
ACETONE	UG/L	10 U	10 U	4 J	900 J	6-WC09-SW-312M	9/28
CARBON DISULFIDE	UG/L	10 U	100 U	ND	ND		0/28
1,1-DICHLOROETHENE	UG/L	10 U	100 U	ND	ND		0/28
1,1-DICHLOROETHANE	UG/L	10 U	100 U	ND	ND		0/28
1,2-DICHLOROETHENE	UG/L	10 U	100 U	2 J	85	6-WC07-SW-06B	13/28
CHLOROFORM	UG/L	10 U	100 U	ND	ND		0/28
1,2-DICHLOROETHANE	UG/L	10 U	100 U	ND	ND		0/28
2-BUTANONE	UG/L	10 U	100 U	ND	ND		0/28

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/L	10 U	100 U	ND	ND		0/28
CARBON TETRACHLORIDE	UG/L	10 U	100 U	ND	ND		0/28
BROMODICHLOROMETHANE	UG/L	10 U	100 U	ND	ND		0/28
1,2-DICHLOROPROPANE	UG/L	10 U	100 U	ND	ND		0/28
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	100 U	ND	ND		0/28
TRICHLOROETHENE	UG/L	10 U	100 U	3 J	98	6-WC07-SW-06B	12/28
DIBROMOCHLOROMETHANE	UG/L	10 U	100 UJ	ND	ND		0/28
1,1,2-TRICHLOROETHANE	UG/L	10 U	100 U	ND	ND		0/28
BENZENE	UG/L	10 U	100 U	ND	ND		0/28
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	100 U	ND	ND		0/28
BROMOFORM	UG/L	10 U	100 U	ND	ND		0/28
4-METHYL-2-PENTANONE	UG/L	10 U	100 U	ND	ND		0/28
2-HEXANONE	UG/L	10 U	100 U	ND	ND		0/28
TETRACHLOROETHENE	UG/L	10 U	100 U	1 J	4 J	6-WC07-SW-06B	3/28
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	100 U	ND	ND		0/28
TOLUENE	UG/L	10 U	100 U	1 J	3 J	6-WC07-SW-06B	4/28
CHLOROBENZENE	UG/L	10 U	100 U	ND	ND		0/28
ETHYLBENZENE	UG/L	10 U	100 U	ND	ND		0/28
STYRENE	UG/L	10 U	100 U	ND	ND		0/28
TOTAL XYLENES	UG/L	10 U	100 U	ND	ND		0/28
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 U	10 U	ND	ND		0/28
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	ND	ND		0/28
2-CHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/28
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/28
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/28
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/28
2-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/28
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	ND	ND		0/28
4-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/28
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	ND	ND		0/28
HEXACHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/28
NITROBENZENE	UG/L	10 U	10 U	ND	ND		0/28
ISOPHORONE	UG/L	10 U	10 U	ND	ND		0/28
2-NITROPHENOL	UG/L	10 UJ	10 UJ	ND	ND		0/28
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/28
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	ND	ND		0/28
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/28
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/28
NAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/28
4-CHLORANILINE	UG/L	10 U	10 U	ND	ND		0/28
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	ND	ND		0/28

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/28
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/28
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	ND	ND		0/28
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	1 J	1 J	6-WC10-SW-06M	1/28
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	ND	ND		0/28
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/28
2-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/28
DIMETHYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/28
ACENAPHTHYLENE	UG/L	10 U	10 U	ND	ND		0/28
2,6-DINITROTOLUENE	UG/L	10 UJ	10 UJ	ND	ND		0/28
3-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/28
ACENAPHTHENE	UG/L	10 U	10 U	ND	ND		0/28
2,4-DINITROPHENOL	UG/L	25 U	25 U	ND	ND		0/28
4-NITROPHENOL	UG/L	25 U	25 U	ND	ND		0/28
DIBENZOFURAN	UG/L	10 U	10 U	ND	ND		0/28
2,4-DINITROTOLUENE	UG/L	10 UJ	10 UJ	ND	ND		0/28
DIETHYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/28
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	ND		0/28
FLUORENE	UG/L	10 U	10 U	ND	ND		0/28
4-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/28
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	ND	ND		0/28
N-NITRIDIPHENYLAMINE	UG/L	10 U	10 U	ND	ND		0/28
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	ND		0/28
HEXACHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/28
PENTACHLOROPHENOL	UG/L	25 U	25 U	ND	ND		0/28
PHENANTHRENE	UG/L	10 U	10 U	ND	ND		0/28
ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/28
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/28
FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/28
CARBAZOLE	UG/L	10 U	10 U	ND	ND		0/28
PYRENE	UG/L	10 U	10 U	ND	ND		0/28
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/28
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	ND	ND		0/28
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/28
CHRYSENE	UG/L	10 U	10 U	ND	ND		0/28
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	1 J	2 J	6-WC11-SW-312M	5/28
DI-N-OCTYL PHTHALATE	UG/L	10 UJ	10 UJ	ND	ND		0/28
BENZO(B)FLUORANTHENE	UG/L	10 UJ	10 UJ	ND	ND		0/28
BENZO(K)FLUORANTHENE	UG/L	10 UJ	10 UJ	ND	ND		0/28
BENZO(A)PYRENE	UG/L	10 UJ	10 UJ	ND	ND		0/28
INDENO(1,2,3-CD)PYRENE	UG/L	10 UJ	10 UJ	ND	ND		0/28
DIBENZ(A,H)ANTHRACENE	UG/L	10 UJ	10 UJ	ND	ND		0/28
BENZO(G,H,I)PERYLENE	UG/L	10 UJ	10 UJ	ND	ND		0/28

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-WC01-SW-06B	6-WC01-SW-06M	6-WC02-SW-06B	6-WC03-SW-06B	6-WC03-SW-06M	6-WC03-SW-312M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/30/92	8/26/92	8/26/92	8/26/92	8/26/92
	Lab Id:	00464-25	00464-26	00445-16	00439-18	00439-19	00439-20
Parameter	Units						
ALUMINUM	UG/L	1350	1220	633	747	633	676
ANTIMONY	UG/L	14 U	14 U	16.2 UJ	49 U	49 U	49 U
ARSENIC	UG/L	3 UJ	3 UJ	2 U	2 U	2 U	2 U
BARIUM	UG/L	16 JB	16.2 JB	19.3 B	21 U	21 U	21 U
BERYLLIUM	UG/L	0.3 U	0.3 U	0.3 U	1 U	1 U	1 U
CADMIUM	UG/L	1.9 U	1.9 U	1.9 U	3 U	3 U	3 U
CALCIUM	UG/L	3640 B	3670 B	9990	9360	8890	9430
CHROMIUM	UG/L	3.6 UJ	3.6 UJ	3.6 U	5 U	5 U	5 U
COBALT	UG/L	2 U	2 U	2 U	6 U	6 U	6 U
COPPER	UG/L	1.9 U	1.9 U	1.9 U	4 U	4 U	129
CYANIDE	UG/L	10 U	10 U	10 UJ	10 U	10 U	10 U
IRON	UG/L	1050	941	844	849	756	830
LEAD	UG/L	2.3 JB	1.9 JB	1.2 B	5	5	10.4
MAGNESIUM	UG/L	632 B	639 B	1110 B	916 B	883 B	936 B
MANGANESE	UG/L	9 UJ	8.9 UJ	8.8 B	9.8 JB	8.2 JB	9.2 JB
MERCURY	UG/L	0.04 U	0.04 U	0.07 U	0.2 U	0.2 U	0.52
NICKEL	UG/L	7.9 UJ	7.9 UJ	7.9 U	17 U	17 U	1380
POTASSIUM	UG/L	376 B	341 B	604 B	610 B	603 B	640 B
SELENIUM	UG/L	5 UJ	5 UJ	5 U	5 U	5 U	5 U
SILVER	UG/L	2 UJ	2 UJ	3.8 UJ	10 U	10 U	10 U
SODIUM	UG/L	3930 B	3980 B	7790	6240	6100	6500
THALLIUM	UG/L	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	3.3 JB	1.9 JB	2.1 JB	5 U	5 U	5 U
ZINC	UG/L	8.7 U	7.6 U	7.5 U	7.4 U	10.4 U	111

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-WC04-SW-06B	6-WC04-SW-06M	6-WC05-SW-06B	6-WC05-SW-06M	6-WC05-SW-312M	6-WC06-SW-06B
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/26/92	8/26/92	8/25/92	8/25/92	8/25/92	8/23/92
	Lab Id:	00439-21	00439-22	00437-19	00437-20	00437-21	00429-05
Parameter	Units						
ALUMINUM	UG/L	697	698	799	945	762	751 J
ANTIMONY	UG/L	49 U	49 U	14 U	14 U	14 U	14 UJ
ARSENIC	UG/L	2 UJ	2 UJ	3 U	3 U	3 U	3 UJ
BARIUM	UG/L	21 U	21 U	18.9 B	22.6 B	17.6 B	17 UJ
BERYLLIUM	UG/L	1 U	1 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMIUM	UG/L	3 U	3.2 JB	1.9 U	1.9 U	1.9 U	1.9 U
CALCIUM	UG/L	9720	9520	9440	11200	8850	6640 UJ
CHROMIUM	UG/L	5 UJ	5 UJ	3.6 U	3.6 U	4.9 B	3.6 UJ
COBALT	UG/L	6 U	6 U	2 U	2 U	2.9 B	2 U
COPPER	UG/L	4 U	4 U	5.5 B	3 B	43.8	1.9 U
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	834	812	854	1020	818	701
LEAD	UG/L	3.5 U	4 U	1.8 B	2 B	3.1	1.2 U
MAGNESIUM	UG/L	1080 B	995 B	1060 B	1230 B	985 B	1090 U
MANGANESE	UG/L	10 JB	10.5 JB	10.6 JB	12.2 JB	10 JB	12.5 B
MERCURY	UG/L	0.2 U	0.2 U	0.05 U	0.05 U	0.24 B	0.11 U
NICKEL	UG/L	17 U	17 U	7.9 U	7.9 U	177	7.9 U
POTASSIUM	UG/L	636 B	614 B	821 B	821 B	700 B	677 U
SELENIUM	UG/L	5 U	5 U	5 U	5 UJ	5 UJ	5 U
SILVER	UG/L	10 U	10 U	2 U	2 U	2.6 B	3.3 U
SODIUM	UG/L	7400 J	6810 J	7400	8430	6710	122000 U
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 UJ
VANADIUM	UG/L	5 U	5 U	1.8 U	1.8 U	1.8 U	1.8 U
ZINC	UG/L	8 U	9.5 U	20.6	9.9 B	26.8	6.4 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-WC06-SW-06M	6-WC07-SW-06B	6-WC07-SW-06M	6-WC07-SW-312M	6-WC08-SW-06B	6-WC08-SW-06M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
	Lab Id:	00429-06	00429-10	00429-11	00429-12	00429-18	00429-19
Parameter	Units						
ALUMINUM	UG/L	798 J	881 J	814 J	696 J	811 J	845 J
ANTIMONY	UG/L	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ
ARSENIC	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
BARIUM	UG/L	18.3 UJ	18.4 UJ	19.3 UJ	16.6 UJ	18 UJ	20 UJ
BERYLLIUM	UG/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CADMIUM	UG/L	1.9 U	1.9 U	2.3 UJ	17.4 J	1.9 U	1.9 U
CALCIUM	UG/L	7310 UJ	13700 UJ	9200 UJ	8180 UJ	9600 UJ	10200 UJ
CHROMIUM	UG/L	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ
COBALT	UG/L	2 U	2 U	2 U	2 U	2 U	2 U
COPPER	UG/L	1.9 U	1.9 U	1.9 U	63.9 UJ	1.9 U	2.4 UJ
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	775	800	823	724	790	831
LEAD	UG/L	1 U	2.3 UJ	1.3 UJ	2 UJ	1.2 UJ	1.4 UJ
MAGNESIUM	UG/L	1170 U	14400	4810 U	6030 U	8990 U	7710 U
MANGANESE	UG/L	13.8 B	17.8	17.6	14.7 B	16.2	16.9
MERCURY	UG/L	0.09 U	0.1 U	0.11 U	0.69 U	0.1 U	0.11 U
NICKEL	UG/L	7.9 U	7.9 U	7.9 U	274 U	7.9 U	7.9 U
POTASSIUM	UG/L	677 U	4820 U	1940 U	2230 U	3180 U	3020 U
SELENIUM	UG/L	5 UJ	5 U	5 UJ	5 UJ	5 UJ	5 UJ
SILVER	UG/L	3.6 U	3.1 U	4 U	4.3 U	4.4 U	2.4 U
SODIUM	UG/L	8190 U	119000 U	41200 U	51100 U	74300 U	65200 U
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	1.8 U	1.9 JB	2 JB	1.8 U	2.1 JB	1.9 JB
ZINC	UG/L	9.2 U	9.8 U	8.3 U	32.2 U	12.5 U	8.3 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-WC08-SW-312M	6-WC09-SW-06B	6-WC09-SW-06M	6-WC09-SW-312M	6-WC10-SW-06B	6-WC10-SW-06M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/22/92	8/22/92
	Lab Id:	00429-20	00429-26	00429-28	00429-29	00426-06	00426-08
Parameter	Units						
ALUMINUM	UG/L	719 J	746 J	745 J	480 J	621	523 U
ANTIMONY	UG/L	14 UJ	14 UJ	14 UJ	14 UJ	49 U	49 U
ARSENIC	UG/L	3 U	3.7 B	3 U	2 U	2 U	2 U
BARIUM	UG/L	17.9 UJ	18.1 UJ	18.3 UJ	19.4 UJ	21 U	21 U
BERYLLIUM	UG/L	0.3 U	0.3 U	0.3 U	0.3 U	1 U	1 U
CADMIUM	UG/L	5.5 UJ	1.9 U	1.9 U	2.4 UJ	3 U	3 UJ
CALCIUM	UG/L	11100 UJ	12500 UJ	10900 UJ	56000 J	30900	32500
CHROMIUM	UG/L	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	5 U	5 U
COBALT	UG/L	2 U	2 U	2 U	2 U	6 U	6 UJ
COPPER	UG/L	64.2 UJ	1.9 U	2.3 UJ	22.8 UJ	6 UJ	4 UJ
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	749	704	740	477	599	498
LEAD	UG/L	3.2 U	2 U	1.3 U	1 U	1 UJ	1.4 U
MAGNESIUM	UG/L	12600	18300	12800	146000	76600	83300
MANGANESE	UG/L	16.5	15.5	15.8	17.3	15 J	16 J
MERCURY	UG/L	0.73 U	0.1 U	0.1 U	0.37 U	0.2 U	0.2 U
NICKEL	UG/L	160 U	7.9 U	7.9 U	94.4 U	17 U	17 U
POTASSIUM	UG/L	4400 U	6300 U	4410 U	53700	25500	27700
SELENIUM	UG/L	5 U	5 U	5 U	5 U	5 U	5 U
SILVER	UG/L	2.6 U	2 U	2 U	2.2 U	10 U	10 U
SODIUM	UG/L	107000 U	154000 J	107000 U	1340000	661000	714000
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	2.5 JB	1.8 U	2 JB	1.8 U	7 UJ	7 UJ
ZINC	UG/L	28.4 U	9.4 U	8.4 U	16.9 U	9 B	7.3 B

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-WC10-SW-312M	6-WC11-SW-06B	6-WC11-SW-06M	6-WC11-SW-312M
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	8/22/92	8/22/92	8/22/92	8/22/92
	Lab Id:	00426-09	00426-12	00426-13	00426-14
Parameter	Units				
ALUMINUM	UG/L	529 U	807	469 U	682
ANTIMONY	UG/L	49 U	49 U	49 U	49 U
ARSENIC	UG/L	2 U	2 U	2 U	2 U
BARIUM	UG/L	21 U	21 U	21 U	21 U
BERYLLIUM	UG/L	1 U	1 U	1 U	1 U
CADMIUM	UG/L	3 UJ	3 U	3 U	3 UJ
CALCIUM	UG/L	53400	40300	36000	64100
CHROMIUM	UG/L	6 UJ	5 U	7 U	5 U
COBALT	UG/L	6 U	6 U	6 U	6 U
COPPER	UG/L	66	4 UJ	6 U	209
CYANIDE	UG/L	10 U	10 U	10 U	10 U
IRON	UG/L	494	881	546	649
LEAD	UG/L	1.3 UJ	2.2 U	2.9 U	2.6 UJ
MAGNESIUM	UG/L	143000	98900	88200	174000
MANGANESE	UG/L	18 J	18 J	14 JB	25 J
MERCURY	UG/L	0.2 U	0.2 U	0.2 U	0.52
NICKEL	UG/L	102	17 U	17 U	213
POTASSIUM	UG/L	48500	32000	28000	55700
SELENIUM	UG/L	5 U	5 U	5 U	5 UJ
SILVER	UG/L	10 U	10 U	10 U	10 U
SODIUM	UG/L	1620000	726000	700000	1260000
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	5 UJ	8 UJ	8 UJ	7 UJ
ZINC	UG/L	30.7	8.4 B	17.6 B	95.1

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
ALUMINUM		469 U	529 U	480 J	1350	6-WC01-SW-06B	25/28
ANTIMONY		14 U	49 U	ND	ND		0/28
ARSENIC		2 U	3 UJ	3.7 B	3.7 B	6-WC09-SW-06B	1/28
BARIUM		16.6 UJ	21 U	16 JB	22.6 B	6-WC05-SW-06M	6/28
BERYLLIUM		0.3 U	1 U	ND	ND		0/28
CADMIUM		1.9 U	5.5 UJ	3.2 JB	17.4 J	6-WC07-SW-312M	2/28
CALCIUM		6640 UJ	13700 UJ	3640 B	64100	6-WC11-SW-312M	18/28
CHROMIUM		3.6 UJ	7 U	4.9 B	4.9 B	6-WC05-SW-312M	1/28
COBALT		2 U	6 U	2.9 B	2.9 B	6-WC05-SW-312M	1/28
COPPER		1.9 U	64.2 UJ	3 B	209	6-WC11-SW-312M	6/28
CYANIDE		10 U	10 U	ND	ND		0/28
IRON		NA	NA	477	1050	6-WC01-SW-06B	28/28
LEAD		1 U	4 U	1.2 B	10.4	6-WC03-SW-312M	9/28
MAGNESIUM		1090 U	8990 U	632 B	174000	6-WC11-SW-312M	22/28
MANGANESE		8.9 UJ	9 UJ	8.2 JB	25 J	6-WC11-SW-312M	26/28
MERCURY		0.04 U	0.73 U	0.24 B	0.52	6-WC11-SW-312M	3/28
NICKEL		7.9 UJ	274 U	102	1380	6-WC03-SW-312M	4/28
POTASSIUM		677 U	6300 U	341 B	55700	6-WC11-SW-312M	18/28
SELENIUM		5 UJ	5 UJ	ND	ND		0/28
SILVER		2 UJ	10 U	2.6 B	2.6 B	6-WC08-SW-312M	1/28
SODIUM		8190 U	122000 U	3930 B	1620000	6-WC10-SW-312M	19/28
THALLIUM		2 U	2 U	ND	ND		0/28
VANADIUM		1.8 U	8 UJ	1.9 JB	3.3 JB	6-WC01-SW-06B	9/28
ZINC		6.4 U	32.2 U	7.3 B	111	6-WC03-SW-312M	10/28

CLEJ-01272-3.13-08/20/93

L.11

**Site 6 - Bear Head Creek Surface Water,
Organic and Inorganic**

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH01-SW-06B	6-BH01-SW-06M	6-BH02-SW-06M	6-BH03-SW-06B	6-BH03-SW-06M	6-BH04-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/23/92	10/23/92	8/28/92	8/28/92	8/28/92	8/28/92
Lab Id:	00391-05	00391-06	00458-04	00458-10	00458-11	00454-03
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
BETA-BHC	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
DELTA-BHC	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
HEPTACHLOR	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
ALDRIN	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
ENDOSULFAN I	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
DIELDRIN	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
4,4'-DDE	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
ENDRIN	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
ENDOSULFAN II	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
4,4'-DDD	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
4,4'-DDT	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
METHOXYCHLOR	UG/L	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ
ENDRIN KETONE	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
TOXAPHENE	UG/L	5 UJ	5 U	5 U	5 U	5 UJ
PCB-1016	UG/L	1 UJ	1 U	1 U	1 U	1 UJ
PCB-1221	UG/L	2 UJ	2 U	2 U	2 U	2 UJ
PCB-1232	UG/L	1 UJ	1 U	1 U	1 U	1 UJ
PCB-1242	UG/L	1 UJ	1 U	1 U	1 U	1 UJ
PCB-1248	UG/L	1 UJ	1 U	1 U	1 U	1 UJ
PCB-1254	UG/L	1 UJ	1 U	1 U	1 U	1 UJ
PCB-1260	UG/L	1 UJ	1 U	1 U	1 U	1 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
ACETONE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3-13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH01-SW-06B	6-BH01-SW-06M	6-BH02-SW-06M	6-BH03-SW-06B	6-BH03-SW-06M	6-BH04-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/23/92	10/23/92	8/28/92	8/28/92	8/28/92	8/28/92
Lab Id:	00591-05	00591-06	00458-04	00458-10	00458-11	00454-03
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOFORM	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	UG/L	10 U	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
TOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
STYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U	10 U	10 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH01-SW-06B	6-BH01-SW-06M	6-BH02-SW-06M	6-BH03-SW-06B	6-BH03-SW-06M	6-BH04-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/23/92	10/23/92	8/28/92	8/28/92	8/28/92	8/28/92
Lab Id:	00591-05	00591-06	00458-04	00458-10	00458-11	00454-03
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 UJ	10 UJ	10 UJ
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 UJ	10 UJ
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	1 J	10 U	10 U	1 J
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 UJ	10 UJ
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 UJ	10 UJ
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	10 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH04-SW-06M	6-BH05-SW-06B	6-BH05-SW-06M	6-BH06-SW-06B	6-BH06-SW-06M	6-BH07-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92	8/25/92
Lab Id:	00434-04	00434-05	00434-06	00434-07	00434-09	00437-01
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
BETA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
DELTA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALDRIN	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ENDOSULFAN I	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
DIELDRIN	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
ENDRIN	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
ENDOSULFAN II	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
METHOXYCHLOR	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ENDRIN KETONE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
ALPHA CHLORDANE	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA CHLORDANE	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TOXAPHENE	UG/L	5 U	5 U	5 U	5 U	5 U
PCB-1016	UG/L	1 U	1 U	1 U	1 U	1 U
PCB-1221	UG/L	2 U	2 U	2 U	2 U	2 U
PCB-1232	UG/L	1 U	1 U	1 U	1 U	1 U
PCB-1242	UG/L	1 U	1 U	1 U	1 U	1 U
PCB-1248	UG/L	1 U	1 U	1 U	1 U	1 U
PCB-1254	UG/L	1 U	1 U	1 U	1 U	1 U
PCB-1260	UG/L	1 U	1 U	1 U	1 U	1 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
ACETONE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBON DISULFIDE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH04-SW-06M	6-BH05-SW-06B	6-BH05-SW-06M	6-BH06-SW-06B	6-BH06-SW-06M	6-BH07-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92	8/25/92
Lab Id:	00454-04	00454-05	00454-06	00454-07	00454-09	00437-01
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOFORM	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	UG/L	10 U	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
TOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
STYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U	10 U	10 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS (1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH04-SW-06M	6-BH05-SW-06B	6-BH05-SW-06M	6-BH06-SW-06B	6-BH06-SW-06M	6-BH07-SW-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92	8/25/92
Lab Id:	00454-04	00454-05	00454-06	00454-07	00454-09	00437-01
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 UJ	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 UJ	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	1 J	2 J	10 U	10 UJ	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 UJ	10 UJ
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 UJ
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	10 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH07-SW-06M	6-BH07-SW-312M
Depth:	N/A	N/A
Date Sampled:	8/25/92	8/25/92
Lab Id:	00437-02	00437-03

Parameter	Units		
<u>PESTICIDE/PCBS</u>			
ALPHA-BHC	UG/L	0.05 U	0.05 U
BETA-BHC	UG/L	0.05 U	0.05 U
DELTA-BHC	UG/L	0.05 U	0.05 U
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 U
HEPTACHLOR	UG/L	0.05 U	0.05 U
ALDRIN	UG/L	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 U
ENDOSULFAN I	UG/L	0.05 U	0.05 U
DIELDRIN	UG/L	0.1 U	0.1 U
4,4'-DDE	UG/L	0.1 U	0.1 U
ENDRIN	UG/L	0.1 U	0.1 U
ENDOSULFAN II	UG/L	0.1 U	0.1 U
4,4'-DDD	UG/L	0.1 U	0.1 U
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 U
4,4'-DDT	UG/L	0.1 U	0.1 U
METHOXYCHLOR	UG/L	0.5 U	0.5 U
ENDRIN KETONE	UG/L	0.1 U	0.1 U
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 U
ALPHA CHLORDANE	UG/L	0.05 U	0.05 U
GAMMA CHLORDANE	UG/L	0.05 U	0.05 U
TOXAPHENE	UG/L	5 U	5 U
PCB-1016	UG/L	1 U	1 U
PCB-1221	UG/L	2 U	2 U
PCB-1232	UG/L	1 U	1 U
PCB-1242	UG/L	1 U	1 U
PCB-1248	UG/L	1 U	1 U
PCB-1254	UG/L	1 U	1 U
PCB-1260	UG/L	1 U	1 U
<u>VOLATILES</u>			
CHLOROMETHANE	UG/L	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U
ACETONE	UG/L	10 U	10 U
CARBON DISULFIDE	UG/L	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U
1,2-DICHLOROETHENE	UG/L	10 U	10 U
CHLOROFORM	UG/L	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH07-SW-06M	6-BH07-SW-312M
Depth:	N/A	N/A
Date Sampled:	8/25/92	8/25/92
Lab Id:	00437-02	00437-03

Parameter	Units		
<u>VOLATILES Cont.</u>			
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U
TRICHLOROETHENE	UG/L	10 U	10 U
DIBROMOCHLOROMETHANE	UG/L	10 U	10 U
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U
BENZENE	UG/L	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U
BROMOFORM	UG/L	10 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U
2-HEXANONE	UG/L	10 U	10 U
TETRACHLOROETHENE	UG/L	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U
TOLUENE	UG/L	10 U	10 U
CHLOROBENZENE	UG/L	10 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U
STYRENE	UG/L	10 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U
<u>SEMIVOLATILES</u>			
PHENOL	UG/L	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH07-SW-06M	6-BH07-SW-312M
Depth:	N/A	N/A
Date Sampled:	8/25/92	8/25/92
Lab Id:	00437-02	00437-03

Parameter	Units		
<u>SEMIVOLATILES Cont.</u>			
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	2 J
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U
FLUORENE	UG/L	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U
PYRENE	UG/L	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U
CHRYSENE	UG/L	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 UJ	10 U
BENZO(B)FLUORANTHENE	UG/L	10 UJ	10 U
BENZO(K)FLUORANTHENE	UG/L	10 UJ	10 U
BENZO(A)PYRENE	UG/L	10 UJ	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 UJ	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 UJ	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 UJ	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
BETA-BHC	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
DELTA-BHC	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
GAMMA-BHC(LINDANE)	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
HEPTACHLOR	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
ALDRIN	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
HEPTACHLOR EPOXIDE	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
ENDOSULFAN I	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
DIELDRIN	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
4,4'-DDE	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
ENDRIN	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
ENDOSULFAN II	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
4,4'-DDD	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
ENDOSULFAN SULFATE	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
4,4'-DDT	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
METHOXYCHLOR	UG/L	0.5 UJ	0.5 UJ	ND	ND		0/14
ENDRIN KETONE	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
ENDRIN ALDEHYDE	UG/L	0.1 UJ	0.1 UJ	ND	ND		0/14
ALPHA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
GAMMA CHLORDANE	UG/L	0.05 UJ	0.05 UJ	ND	ND		0/14
TOXAPHENE	UG/L	5 UJ	5 UJ	ND	ND		0/14
PCB-1016	UG/L	1 UJ	1 UJ	ND	ND		0/14
PCB-1221	UG/L	2 UJ	2 UJ	ND	ND		0/14
PCB-1232	UG/L	1 UJ	1 UJ	ND	ND		0/14
PCB-1242	UG/L	1 UJ	1 UJ	ND	ND		0/14
PCB-1248	UG/L	1 UJ	1 UJ	ND	ND		0/14
PCB-1254	UG/L	1 UJ	1 UJ	ND	ND		0/14
PCB-1260	UG/L	1 UJ	1 UJ	ND	ND		0/14
<u>VOLATILES</u>							
CHLOROMETHANE	UG/L	10 U	10 U	ND	ND		0/14
BROMOMETHANE	UG/L	10 U	10 U	ND	ND		0/14
VINYL CHLORIDE	UG/L	10 U	10 U	ND	ND		0/14
CHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/14
METHYLENE CHLORIDE	UG/L	10 U	10 U	ND	ND		0/14
ACETONE	UG/L	10 U	10 U	ND	ND		0/14
CARBON DISULFIDE	UG/L	10 U	10 U	ND	ND		0/14
1,1-DICHLOROETHENE	UG/L	10 U	10 U	ND	ND		0/14
1,1-DICHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/14
1,2-DICHLOROETHENE	UG/L	10 U	10 U	ND	ND		0/14
CHLOROFORM	UG/L	10 U	10 U	ND	ND		0/14
1,2-DICHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/14
2-BUTANONE	UG/L	10 U	10 U	ND	ND		0/14

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/14
CARBON TETRACHLORIDE	UG/L	10 U	10 U	ND	ND		0/14
BROMODICHLOROMETHANE	UG/L	10 U	10 U	ND	ND		0/14
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	ND	ND		0/14
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	ND	ND		0/14
TRICHLOROETHENE	UG/L	10 U	10 U	ND	ND		0/14
DIBROMOCHLOROMETHANE	UG/L	10 U	10 U	ND	ND		0/14
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/14
BENZENE	UG/L	10 U	10 U	ND	ND		0/14
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	ND	ND		0/14
BROMOFORM	UG/L	10 U	10 U	ND	ND		0/14
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	ND	ND		0/14
2-HEXANONE	UG/L	10 U	10 U	ND	ND		0/14
TETRACHLOROETHENE	UG/L	10 U	10 U	ND	ND		0/14
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/14
TOLUENE	UG/L	10 U	10 U	ND	ND		0/14
CHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/14
ETHYLBENZENE	UG/L	10 U	10 U	ND	ND		0/14
STYRENE	UG/L	10 U	10 U	ND	ND		0/14
TOTAL XYLENES	UG/L	10 U	10 U	ND	ND		0/14
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 U	10 U	ND	ND		0/13
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	ND	ND		0/13
2-CHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/13
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/13
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/13
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/13
2-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/13
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	ND	ND		0/13
4-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/13
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	ND	ND		0/13
HEXACHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/13
NITROBENZENE	UG/L	10 U	10 U	ND	ND		0/13
ISOPHORONE	UG/L	10 U	10 U	ND	ND		0/13
2-NITROPHENOL	UG/L	10 U	10 U	ND	ND		0/13
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/13
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	ND	ND		0/13
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/13
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/13
NAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/13
4-CHLORANILINE	UG/L	10 U	10 U	ND	ND		0/13
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	ND	ND		0/13

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO--0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	Sample No:		Date Sampled:		LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
		MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED		
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/13
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/13
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	ND	ND		0/13
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/13
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	ND	ND		0/13
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/13
2-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/13
DIMETHYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/13
ACENAPHTHYLENE	UG/L	10 U	10 U	ND	ND		0/13
2,6-DINITROTOLUENE	UG/L	10 U	10 U	ND	ND		0/13
3-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/13
ACENAPHTHENE	UG/L	10 U	10 U	ND	ND		0/13
2,4-DINITROPHENOL	UG/L	25 U	25 U	ND	ND		0/13
4-NITROPHENOL	UG/L	25 U	25 U	ND	ND		0/13
DIBENZOFURAN	UG/L	10 U	10 U	ND	ND		0/13
2,4-DINITROTOLUENE	UG/L	10 U	10 U	ND	ND		0/13
DIETHYL PHTHALATE	UG/L	10 U	10 U	2 J	2 J	6-BH07-SW-312M	1/13
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	ND		0/13
FLUORENE	UG/L	10 U	10 U	ND	ND		0/13
4-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/13
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	ND	ND		0/13
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	ND	ND		0/13
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	ND		0/13
HEXACHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/13
PENTACHLOROPHENOL	UG/L	25 U	25 U	ND	ND		0/13
PHENANTHRENE	UG/L	10 U	10 U	ND	ND		0/13
ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/13
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/13
FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/13
CARBAZOLE	UG/L	10 U	10 U	ND	ND		0/13
PYRENE	UG/L	10 U	10 U	ND	ND		0/13
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/13
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	ND	ND		0/13
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/13
CHRYSENE	UG/L	10 U	10 U	ND	ND		0/13
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	1 J	2 J	6-BH05-SW-06B	4/13
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/13
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/13
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/13
BENZO(A)PYRENE	UG/L	10 U	10 U	ND	ND		0/13
INDENO(1,2,3-CD)PYRENE	UG/L	10 U	10 U	ND	ND		0/13
DIBENZ(AH)ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/13
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	ND	ND		0/13

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-BH01-SW-06B	6-BH01-SW-06M	6-BH02-SW-06M	6-BH03-SW-06B	6-BH03-SW-06M	6-BH04-SW-06B	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/23/92	10/23/92	8/28/92	8/28/92	8/28/92	8/28/92	
Lab Id:	00591-05	00591-06	00458-04	00458-10	00458-11	00454-03	
Parameter	Units						
ALUMINUM	UG/L	1210	1230	868	494	1560	714 U
ANTIMONY	UG/L	17.2 UJ	14 U	14 U	14 U	14 U	49 UJ
ARSENIC	UG/L	3 U	3 U	3 UJ	3 UJ	3 U	3 UJ
BARIUM	UG/L	13.4 JB	14 JB	25.1 JB	25.6 JB	31.3 B	22 B
BERYLLIUM	UG/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	5 UJ
CADMIUM	UG/L	1.9 UJ	2.6 UJ	1.9 U	1.9 U	1.9 U	3 U
CALCIUM	UG/L	612 B	600 B	16100	17200	19100	20600
CHROMIUM	UG/L	3.6 U	3.6 U	7 U	9 U	3.6 U	5 U
COBALT	UG/L	2 U	2 U	3 UJ	3 UJ	2 UJ	6 U
COPPER	UG/L	3.2 UJ	3 UJ	7 UJ	8 UJ	6 UJ	7 UJ
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	958	818	921	989	1790	1180
LEAD	UG/L	1 U	1 U	3 U	2.4 U	5.9	1.8 JB
MAGNESIUM	UG/L	588 B	612 B	1010 B	1050 B	1120 B	1010 B
MANGANESE	UG/L	6.5 B	6.2 B	14 JB	16 J	23 J	17
MERCURY	UG/L	0.04 U	0.05 U	0.04 U	0.04 U	0.04 U	0.06 U
NICKEL	UG/L	7.9 UJ	7.9 UJ	7.9 U	8 JB	7.9 U	17 U
POTASSIUM	UG/L	117 UJ	146 UJ	685 B	713 B	721 B	1030 UJ
SELENIUM	UG/L	5 U	5 U	5 U	5 U	5 U	5 U
SILVER	UG/L	2 UJ	2 UJ	4 UJ	5 UJ	4 UJ	10 UJ
SODIUM	UG/L	4680 B	4850 B	5250	5480	5620	4420 JB
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	1.8 UJ	1.8 UJ	2 JB	2 JB	3 JB	5 U
ZINC	UG/L	4.5 U	4.9 U	13.1 U	13.2 U	21.3 U	9 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-BH04-SW-06M	6-BH05-SW-06B	6-BH05-SW-06M	6-BH06-SW-06B	6-BH06-SW-06M	6-BH07-SW-06B
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/28/92	8/25/92
	Lab Id:	00454-04	00454-05	00454-06	00454-07	00454-09	00437-01
Parameter	Units						
ALUMINUM	UG/L	782	320 U	2700	317 U	342 U	408
ANTIMONY	UG/L	49 UJ	49 UJ	49 UJ	49 UJ	49 UJ	14 U
ARSENIC	UG/L	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 U
BARIUM	UG/L	24 B	22 B	36 B	24 B	27 B	20.6 B
BERYLLIUM	UG/L	5 UJ	5 UJ	4 UJ	5 UJ	4 UJ	0.3 U
CADMIUM	UG/L	3 U	3 U	3 UJ	3 UJ	3 U	1.9 U
CALCIUM	UG/L	20000	20000	22500	20100	23000	24900
CHROMIUM	UG/L	5 U	5 U	8 B	5 B	5 U	4.4 B
COBALT	UG/L	8 UJ	6 UJ	6 U	6 U	7 UJ	2 U
COPPER	UG/L	5 UJ	6 UJ	7 UJ	5 UJ	5 UJ	4 B
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	1650	1120	6200	1150	1180	679
LEAD	UG/L	1.8 JB	1.5 JB	8.2	2 JB	2.2 JB	2.4 B
MAGNESIUM	UG/L	1060 B	1240 B	1160 B	1010 B	1130 B	37900
MANGANESE	UG/L	17	18	65	20	20	13.5 JB
MERCURY	UG/L	0.05 U	0.05 U	0.05 B	0.05 U	0.05 U	0.04 U
NICKEL	UG/L	17 U	17 U	17 U	17 U	17 U	7.9 U
POTASSIUM	UG/L	965 UJ	10100	439 UJ	725 UJ	1050 UJ	13000
SELENIUM	UG/L	5 U	5 U	5 U	5 U	5 U	5 U
SILVER	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	3.6 B
SODIUM	UG/L	4580 JB	4310 JB	50 U	5140 J	4510 JB	319000
THALLIUM	UG/L	2 UJ	10 UJ	10 UJ	2 UJ	2 UJ	2 UJ
VANADIUM	UG/L	5 UJ	5 UJ	9 UJ	5 U	5 UJ	1.8 U
ZINC	UG/L	7 U	18 U	22 U	8 U	6 U	6.4 B

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-BH07-SW-06M	6-BH07-SW-312M
Depth:	N/A	N/A
Date Sampled:	8/25/92	8/25/92
Lab Id:	00437-02	00437-03

Parameter	Units		
ALUMINUM	UG/L	418	334
ANTIMONY	UG/L	14 U	14 U
ARSENIC	UG/L	3 U	3 U
BARIUM	UG/L	20.5 B	18.6 B
BERYLLIUM	UG/L	0.3 U	0.3 U
CADMIUM	UG/L	1.9 U	1.9 U
CALCIUM	UG/L	23900	54900
CHROMIUM	UG/L	3.6 U	3.6 U
COBALT	UG/L	2 U	2 U
COPPER	UG/L	5.2 B	55.8
CYANIDE	UG/L	10 U	10 U
IRON	UG/L	725	501
LEAD	UG/L	2 B	2.6 B
MAGNESIUM	UG/L	33600	136000
MANGANESE	UG/L	13.5 JB	16.2 J
MERCURY	UG/L	0.04 U	0.34
NICKEL	UG/L	7.9 U	244
POTASSIUM	UG/L	11600	49000
SELENIUM	UG/L	5 U	5 U
SILVER	UG/L	2.1 B	2 U
SODIUM	UG/L	284000	1260000
THALLIUM	UG/L	2 UJ	10 UJ
VANADIUM	UG/L	1.8 U	1.8 U
ZINC	UG/L	6.2 B	30.7

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	UG/L	317 U	714 U	334	2700	6-BH05-SW-06M	10/14
ANTIMONY	UG/L	14 U	49 UJ	ND	ND		0/14
ARSENIC	UG/L	3 U	3 U	ND	ND		0/14
BARIUM	UG/L	NA	NA	13.4 JB	36 B	6-BH05-SW-06M	14/14
BERYLLIUM	UG/L	0.3 U	5 UJ	ND	ND		0/14
CADIUM	UG/L	1.9 UJ	3 U	ND	ND		0/14
CALCIUM	UG/L	NA	NA	600 B	54900	6-BH07-SW-312M	14/14
CHROMIUM	UG/L	3.6 U	9 U	4.4 B	8 B	6-BH05-SW-06M	3/14
COBALT	UG/L	2 U	8 UJ	ND	ND		0/14
COPPER	UG/L	3 UJ	8 UJ	4 B	55.8	6-BH07-SW-312M	3/14
CYANIDE	UG/L	10 U	10 U	ND	ND		0/14
IRON	UG/L	NA	NA	501	6200	6-BH05-SW-06M	14/14
LEAD	UG/L	1 U	3 U	1.5 JB	8.2	6-BH05-SW-06M	10/14
MAGNESIUM	UG/L	NA	NA	588 B	136000	6-BH07-SW-312M	14/14
MANGANESE	UG/L	NA	NA	6.2 B	65	6-BH05-SW-06M	14/14
MERCURY	UG/L	0.04 U	0.06 U	0.05 B	0.34	6-BH07-SW-312M	2/14
NICKEL	UG/L	7.9 UJ	17 U	8 JB	244	6-BH07-SW-312M	2/14
POTASSIUM	UG/L	117 UJ	1050 UJ	685 B	49000	6-BH07-SW-312M	7/14
SELENIUM	UG/L	5 U	5 U	ND	ND		0/14
SILVER	UG/L	2 UJ	10 UJ	2.1 B	3.6 B	6-BH07-SW-06B	2/14
SODIUM	UG/L	50 U	50 U	4310 JB	1260000	6-BH07-SW-312M	13/14
THALLIUM	UG/L	2 UJ	10 UJ	ND	ND		0/14
VANADIUM	UG/L	1.8 UJ	9 UJ	2 JB	3 JB	6-BH03-SW-06M	3/14
ZINC	UG/L	4.5 U	22 U	6.2 B	30.7	6-BH07-SW-312M	3/14

CLEJ-01272-3.13-08/20/93

L.12

**Site 6 - Ravine Surface Water,
Organic and Inorganic**

SITE 6 RAVINE SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV2-SW-06	6-RV3-SW-06	6-RV5-SW-06	6-RV6-SW-06	6-RV7-SW-06	6-RV8-SW-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/25/92	8/24/92	8/25/92	8/25/92	8/25/92	8/25/92
Lab Id:	00439-14	00437-06	00439-16	00439-17	00437-15	00437-18
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
BETA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
DELTA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
HEPTACHLOR	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
ALDRIN	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
ENDOSULFAN I	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
DIELDRIN	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
ENDRIN	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
ENDOSULFAN II	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
METHOXYCHLOR	UG/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
ENDRIN KETONE	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U
ALPHA CHLORDANE	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
GAMMA CHLORDANE	UG/L	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
TOXAPHENE	UG/L	5 U	5 U	5 U	5 UJ	5 U
PCB-1016	UG/L	1 U	1 U	1 U	1 UJ	1 U
PCB-1221	UG/L	2 U	2 U	2 U	2 UJ	2 U
PCB-1232	UG/L	1 U	1 U	1 U	1 UJ	1 U
PCB-1242	UG/L	1 U	1 U	1 U	1 UJ	1 U
PCB-1248	UG/L	1 U	1 U	1 U	1 UJ	1 U
PCB-1254	UG/L	1 U	1 U	1 U	1 UJ	1 U
PCB-1260	UG/L	1 U	1 U	1 U	1 UJ	1 U
<u>VOLATILES</u>						
CHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
VINYL CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
METHYLENE CHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
ACETONE	UG/L	10 U	10 U	140	10 U	10 U
CARBON DISULFIDE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROFORM	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2-BUTANONE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV2-SW-06	6-RV3-SW-06	6-RV5-SW-06	6-RV6-SW-06	6-RV7-SW-06	6-RV8-SW-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/25/92	8/24/92	8/25/92	8/25/92	8/25/92	8/25/92
Lab Id:	00439-14	00437-06	00439-16	00439-17	00437-15	00437-18
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBON TETRACHLORIDE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMODICHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	10 U	10 U	10 U
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRICHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBROMOCHLOROMETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	10 U	10 U	10 U
BROMOFORM	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	UG/L	10 U	10 U	10 U	10 U	10 U
TETRACHLOROETHENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
TOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHLOROENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ETHYLBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
STYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
TOTAL XYLENES	UG/L	10 U	10 U	10 U	10 U	10 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SURFACE WATER
DATA AND FREQUENCY SUMMARY
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MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV2-SW-06	6-RV3-SW-06	6-RV5-SW-06	6-RV6-SW-06	6-RV7-SW-06	6-RV8-SW-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/25/92	8/24/92	8/25/92	8/25/92	8/25/92	8/25/92
Lab Id:	00439-14	00437-06	00439-16	00439-17	00437-15	00437-18
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

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DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Units							
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/6
BETA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/6
DELTA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/6
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 U	ND	ND		0/6
HEPTACHLOR	UG/L	0.05 U	0.05 U	ND	ND		0/6
ALDRIN	UG/L	0.05 U	0.05 U	ND	ND		0/6
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 U	ND	ND		0/6
ENDOSULFAN I	UG/L	0.05 U	0.05 U	ND	ND		0/6
DIELDRIN	UG/L	0.1 U	0.1 U	ND	ND		0/6
4,4'-DDE	UG/L	0.1 U	0.1 U	ND	ND		0/6
ENDRIN	UG/L	0.1 U	0.1 U	ND	ND		0/6
ENDOSULFAN II	UG/L	0.1 U	0.1 U	ND	ND		0/6
4,4'-DDD	UG/L	0.1 U	0.1 U	ND	ND		0/6
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 U	ND	ND		0/6
4,4'-DDT	UG/L	0.1 U	0.1 U	ND	ND		0/6
METHOXYCHLOR	UG/L	0.5 U	0.5 U	ND	ND		0/6
ENDRIN KETONE	UG/L	0.1 U	0.1 U	ND	ND		0/6
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 U	ND	ND		0/6
ALPHA CHLORDANE	UG/L	0.05 U	0.05 U	ND	ND		0/6
GAMMA CHLORDANE	UG/L	0.05 U	0.05 U	ND	ND		0/6
TOXAPHENE	UG/L	5 U	5 U	ND	ND		0/6
PCB-1016	UG/L	1 U	1 U	ND	ND		0/6
PCB-1221	UG/L	2 U	2 U	ND	ND		0/6
PCB-1232	UG/L	1 U	1 U	ND	ND		0/6
PCB-1242	UG/L	1 U	1 U	ND	ND		0/6
PCB-1248	UG/L	1 U	1 U	ND	ND		0/6
PCB-1254	UG/L	1 U	1 U	ND	ND		0/6
PCB-1260	UG/L	1 U	1 U	ND	ND		0/6
<u>VOLATILES</u>							
CHLOROMETHANE	UG/L	10 U	10 U	ND	ND		0/6
BROMOMETHANE	UG/L	10 U	10 U	ND	ND		0/6
VINYL CHLORIDE	UG/L	10 U	10 U	ND	ND		0/6
CHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/6
METHYLENE CHLORIDE	UG/L	10 U	10 U	ND	ND		0/6
ACETONE	UG/L	10 U	10 U	140	140	6-RV5-SW-06	1/6
CARBON DISULFIDE	UG/L	10 U	10 U	ND	ND		0/6
1,1-DICHLOROETHENE	UG/L	10 U	10 U	ND	ND		0/6
1,1-DICHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/6
1,2-DICHLOROETHENE	UG/L	10 U	10 U	ND	ND		0/6
CHLOROFORM	UG/L	10 U	10 U	ND	ND		0/6
1,2-DICHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/6
2-BUTANONE	UG/L	10 U	10 U	ND	ND		0/6

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	Sample No:		Date Sampled:		LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
		Depth:	Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED		
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/6
CARBON TETRACHLORIDE	UG/L	10 U	10 U	ND	ND		0/6
BROMODICHLOROMETHANE	UG/L	10 U	10 U	ND	ND		0/6
1,2-DICHLOROPROPANE	UG/L	10 U	10 U	ND	ND		0/6
CIS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	ND	ND		0/6
TRICHLOROETHENE	UG/L	10 U	10 U	ND	ND		0/6
DIBROMOCHLOROMETHANE	UG/L	10 U	10 U	ND	ND		0/6
1,1,2-TRICHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/6
BENZENE	UG/L	10 U	10 U	ND	ND		0/6
TRANS-1,3-DICHLOROPROPENE	UG/L	10 U	10 U	ND	ND		0/6
BROMOFORM	UG/L	10 U	10 U	ND	ND		0/6
4-METHYL-2-PENTANONE	UG/L	10 U	10 U	ND	ND		0/6
2-HEXANONE	UG/L	10 U	10 U	ND	ND		0/6
TETRACHLOROETHENE	UG/L	10 U	10 U	ND	ND		0/6
1,1,2,2-TETRACHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/6
TOLUENE	UG/L	10 U	10 U	ND	ND		0/6
CHLOROENZENE	UG/L	10 U	10 U	ND	ND		0/6
ETHYLBENZENE	UG/L	10 U	10 U	ND	ND		0/6
STYRENE	UG/L	10 U	10 U	ND	ND		0/6
TOTAL XYLENES	UG/L	10 U	10 U	ND	ND		0/6
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 U	10 U	ND	ND		0/6
BIS(2-CHLOROETHYL) ETHER	UG/L	10 U	10 U	ND	ND		0/6
2-CHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/6
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/6
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/6
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/6
2-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/6
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	ND	ND		0/6
4-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/6
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	ND	ND		0/6
HEXACHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/6
NITROBENZENE	UG/L	10 U	10 U	ND	ND		0/6
ISOPHORONE	UG/L	10 U	10 U	ND	ND		0/6
2-NITROPHENOL	UG/L	10 U	10 U	ND	ND		0/6
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/6
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	ND	ND		0/6
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/6
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/6
NAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/6
4-CHLORANILINE	UG/L	10 U	10 U	ND	ND		0/6
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	ND	ND		0/6

CLEJ-01272-3.13-08/20/93

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REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/6
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/6
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	ND	ND		0/6
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/6
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	ND	ND		0/6
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	ND	ND		0/6
2-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/6
DIMETHYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/6
ACENAPHTHYLENE	UG/L	10 U	10 U	ND	ND		0/6
2,6-DINITROTOLUENE	UG/L	10 U	10 U	ND	ND		0/6
3-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/6
ACENAPHTHENE	UG/L	10 U	10 U	ND	ND		0/6
2,4-DINITROPHENOL	UG/L	25 U	25 U	ND	ND		0/6
4-NITROPHENOL	UG/L	25 U	25 U	ND	ND		0/6
DIBENZOFURAN	UG/L	10 U	10 U	ND	ND		0/6
2,4-DINITROTOLUENE	UG/L	10 U	10 U	ND	ND		0/6
DIETHYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/6
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	ND		0/6
FLUORENE	UG/L	10 U	10 U	ND	ND		0/6
4-NITROANILINE	UG/L	25 U	25 U	ND	ND		0/6
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	ND	ND		0/6
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	ND	ND		0/6
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	ND		0/6
HEXACHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/6
PENTACHLOROPHENOL	UG/L	25 U	25 U	ND	ND		0/6
PHENANTHRENE	UG/L	10 U	10 U	ND	ND		0/6
ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/6
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/6
FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/6
CARBAZOLE	UG/L	10 U	10 U	ND	ND		0/6
PYRENE	UG/L	10 U	10 U	ND	ND		0/6
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/6
3,3-DICHLOROENZIDINE	UG/L	10 U	10 U	ND	ND		0/6
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/6
CHRYSENE	UG/L	10 U	10 U	ND	ND		0/6
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	ND	ND		0/6
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	ND	ND		0/6
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/6
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	ND	ND		0/6
BENZO(A)PYRENE	UG/L	10 U	10 U	ND	ND		0/6
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	ND	ND		0/6
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	ND	ND		0/6
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	ND	ND		0/6

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SURFACE WATER
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-RV2-SW-06	6-RV3-SW-06	6-RV5-SW-06	6-RV6-SW-06	6-RV7-SW-06	6-RV8-SW-06
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/25/92	8/24/92	8/25/92	8/25/92	8/25/92	8/25/92
	Lab Id:	00439-14	00437-06	00439-16	00439-17	00437-15	00437-18
Parameter	Units						
ALUMINUM	UG/L	613	119 B	148 B	612	279	487
ANTIMONY	UG/L	49 U	14 U	49 U	49 U	14 U	14 U
ARSENIC	UG/L	2.2 B	3 U	3.5 B	2 U	3 U	10.5
BARIUM	UG/L	91 B	79.1 B	37.1 JB	39.5 JB	49.6 B	56.9 B
BERYLLIUM	UG/L	1 U	0.3 U	1 U	1 U	0.3 U	0.3 U
CADMIUM	UG/L	3.7 JB	1.9 U	4.3 JB	3 U	1.9 U	1.9 U
CALCIUM	UG/L	102000	79900	23100	19700	12300	15800
CHROMIUM	UG/L	8 U	3.6 U	5 U	5.7 U	6.5 B	4.2 B
COBALT	UG/L	6 U	2 U	6 U	6 U	2 U	2.3 B
COPPER	UG/L	9 JB	4.7 B	9 JB	5.7 JB	7.5 B	7.2 B
CYANIDE	UG/L	10 U	10 U	10 U	10 U	10 U	10 U
IRON	UG/L	733	127 J	641	827	1910	9600
LEAD	UG/L	6.1	1.9 B	4.8	8	2.8 B	12.2
MAGNESIUM	UG/L	7100	4650 B	1200 B	1930 B	2980 B	1790 B
MANGANESE	UG/L	319	38.6 J	597	204	267	253
MERCURY	UG/L	0.2 U	0.05 U	0.2 U	0.2 U	0.04 U	0.04 U
NICKEL	UG/L	17 U	7.9 U	17 U	17 U	7.9 U	7.9 U
POTASSIUM	UG/L	2910 B	2720 B	1620 B	393 B	607 B	844 B
SELENIUM	UG/L	5 UJ	5 U	5 U	5 U	5 U	5 UJ
SILVER	UG/L	10 U	3.6 B	10 U	67.6	2 U	2.9 B
SODIUM	UG/L	6480	4380 JB	2860 JB	5920	8260	8960
THALLIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 UJ
VANADIUM	UG/L	5 U	1.8 U	5 U	5 U	1.8 U	6.2 B
ZINC	UG/L	452	113	374	495	248	72.7

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SURFACE WATER
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	UG/L	NA	NA	119 B	613	6-RV2-SW-06	6/6
ANTIMONY	UG/L	14 U	49 U	ND	ND		0/6
ARSENIC	UG/L	2 U	3 U	2.2 B	10.5	6-RV8-SW-06	3/6
BARIUM	UG/L	NA	NA	37.1 JB	91 B	6-RV2-SW-06	6/6
BERYLLIUM	UG/L	0.3 U	1 U	ND	ND		0/6
CADMIUM	UG/L	1.9 U	3 U	3.7 JB	4.3 JB	6-RV5-SW-06	2/6
CALCIUM	UG/L	NA	NA	12300	102000	6-RV2-SW-06	6/6
CHROMIUM	UG/L	3.6 U	8 U	4.2 B	6.5 B	6-RV7-SW-06	2/6
COBALT	UG/L	2 U	6 U	2.3 B	2.3 B	6-RV8-SW-06	1/6
COPPER	UG/L	NA	NA	4.7 B	9 JB	6-RV5-SW-06	6/6
CYANIDE	UG/L	10 U	10 U	ND	ND		0/6
IRON	UG/L	NA	NA	127 J	9600	6-RV8-SW-06	6/6
LEAD	UG/L	NA	NA	1.9 B	12.2	6-RV8-SW-06	6/6
MAGNESIUM	UG/L	NA	NA	1200 B	7100	6-RV2-SW-06	6/6
MANGANESE	UG/L	NA	NA	38.6 J	597	6-RV5-SW-06	6/6
MERCURY	UG/L	0.04 U	0.2 U	ND	ND		0/6
NICKEL	UG/L	7.9 U	17 U	ND	ND		0/6
POTASSIUM	UG/L	NA	NA	393 B	2910 B	6-RV2-SW-06	6/6
SELENIUM	UG/L	5 UJ	5 UJ	ND	ND		0/6
SILVER	UG/L	2 U	10 U	2.9 B	67.6	6-RV6-SW-06	3/6
SODIUM	UG/L	NA	NA	2860 JB	8960	6-RV8-SW-06	6/6
THALLIUM	UG/L	2 UJ	2 UJ	ND	ND		0/6
VANADIUM	UG/L	1.8 U	5 U	6.2 B	6.2 B	6-RV8-SW-06	1/6
ZINC	UG/L	NA	NA	72.7	495	6-RV6-SW-06	6/6

CLEJ-01272-3.13-08/20/93

L.13

**Site 6 - Wallace Creek Sediment,
Organic and Inorganic**

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC01-SD-06B	6-WC01-SD-612D	6-WC02-SD-06B	6-WC02-SD-612B	6-WC03-SD-06B	6-WC03-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/30/92	8/30/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00464-22	00464-24	00445-03	00445-04	00445-05	00445-06	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
BETA-BHC	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
DELTA-BHC	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
GAMMA-BHC(LINDANE)	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
HEPTACHLOR	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
ALDRIN	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
HEPTACHLOR EPOXIDE	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
ENDOSULFAN I	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
DIELDRIN	UG/KG	4.6 UJ	4.8 J	4.6 U	4.9 U	30 U	23 U
4,4'-DDE	UG/KG	4.6 UJ	7.6 UJ	4.6 U	4.9 U	30 U	23 U
ENDRIN	UG/KG	4.6 UJ	4.8 UJ	4.6 U	4.9 U	30 U	23 U
ENDOSULFAN II	UG/KG	4.6 UJ	4.8 UJ	4.6 U	4.9 U	30 U	23 U
4,4'-DDD	UG/KG	4.6 UJ	16 J	4.6 U	4.9 U	30 U	23 U
ENDOSULFAN SULFATE	UG/KG	4.6 UJ	4.8 UJ	4.6 U	4.9 U	30 U	23 U
4,4'-DDT	UG/KG	4.6 UJ	4.8 UJ	4.6 U	4.9 U	30 U	23 U
METHOXYCHLOR	UG/KG	24 UJ	25 UJ	24 U	25 U	150 U	120 U
ENDRIN KETONE	UG/KG	4.6 UJ	4.8 UJ	4.6 U	4.9 U	30 U	23 U
ENDRIN ALDEHYDE	UG/KG	4.6 UJ	4.8 UJ	4.6 U	4.9 U	30 U	23 U
ALPHA CHLORDANE	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
GAMMA CHLORDANE	UG/KG	2.4 UJ	2.5 UJ	2.4 U	2.5 U	15 U	12 U
TOXAPHENE	UG/KG	240 UJ	250 UJ	240 U	250 U	1500 U	1200 U
PCB-1016	UG/KG	46 UJ	48 UJ	46 U	49 U	300 U	230 U
PCB-1221	UG/KG	93 UJ	98 UJ	93 U	100 U	600 U	460 U
PCB-1232	UG/KG	46 UJ	48 UJ	46 U	49 U	300 U	230 U
PCB-1242	UG/KG	46 UJ	48 UJ	46 U	49 U	300 U	230 U
PCB-1248	UG/KG	46 UJ	48 UJ	46 U	49 U	300 U	230 U
PCB-1254	UG/KG	46 UJ	48 UJ	46 U	49 U	300 U	230 U
PCB-1260	UG/KG	46 UJ	48 UJ	46 U	49 U	300 U	230 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
BROMOMETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
VINYL CHLORIDE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
CHLOROETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
METHYLENE CHLORIDE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
ACETONE	UG/KG	26	16 UJ	320 J	95 J	8400 J	470 UJ
CARBON DISULFIDE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
1,1-DICHLOROETHENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
1,1-DICHLOROETHANE	UG/KG	16 U	16 U	21 UJ	14 UJ	1900 U	120 UJ
1,2-DICHLOROETHENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
CHLOROFORM	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
1,2-DICHLOROETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
2-BUTANONE	UG/KG	16 U	16 U	21 J	14 U	4200	120 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC01-SD-06B	6-WC01-SD-612D	6-WC02-SD-06B	6-WC02-SD-612B	6-WC03-SD-06B	6-WC03-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/30/92	8/30/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00464-22	00464-24	00445-03	00445-04	00445-05	00445-06	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
CARBON TETRACHLORIDE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
BROMODICHLOROMETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
1,2-DICHLOROPROPANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
CIS-1,3-DICHLOROPROPENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
TRICHLOROETHENE	UG/KG	16 U	16 U	23	7 J	1900 U	120 U
DIBROMOCHLOROMETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
1,1,2-TRICHLOROETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
BENZENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
BROMOFORM	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
4-METHYL-2-PENTANONE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
2-HEXANONE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
TETRACHLOROETHENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
TOLUENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
CHLOROBENZENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
ETHYLBENZENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
STYRENE	UG/KG	16 U	16 U	21 U	14 U	1900 U	120 U
TOTAL XYLENES	UG/KG	16 U	16 U	70	26	1900 U	120 J
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
BIS(2-CHLOROETHYL) ETHER	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
2-CHLOROPHENOL	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
1,3-DICHLOROBENZENE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
1,4-DICHLOROBENZENE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
1,2-DICHLOROBENZENE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
2-METHYLPHENOL	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	460 U	490 UJ	460 U	490 U	990 U	450 UR
4-METHYLPHENOL	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
N-NITROSODI-N-PROPYLAMINE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
HEXACHLOROETHANE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
NITROBENZENE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
ISOPHORONE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
2-NITROPHENOL	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
2,4-DIMETHYLPHENOL	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
BIS(2-CHLOROETHOXY) METHANE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
2,4-DICHLOROPHENOL	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
1,2,4-TRICHLOROBENZENE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
NAPHTHALENE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
4-CHLORANILINE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR
HEXACHLOROBUTADIENE	UG/KG	460 U	490 U	460 U	490 U	990 U	450 UR

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO -0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC01-SD-06B	6-WC01-SD-612D	6-WC02-SD-06B	6-WC02-SD-612B	6-WC03-SD-06B	6-WC03-SD-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/30/92	8/30/92	8/26/92	8/26/92	8/26/92	8/26/92
Lab Id:	00464-22	00464-24	00445-03	00445-04	00445-05	00445-06
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	460 U	490 U	460 U	490 U	450 UR
2-METHYLNAPHTHALENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
HEXACHLOROCYCLOPENTADIENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
2,4,6-TRICHLOROPHENOL	UG/KG	460 U	490 U	460 U	490 U	450 UR
2,4,5-TRICHLOROPHENOL	UG/KG	1100 U	1200 U	1100 U	1200 U	1100 UR
2-CHLORONAPHTHALENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
2-NITROANILINE	UG/KG	1100 U	1200 U	1100 U	1200 U	1100 UR
DIMETHYL PHTHALATE	UG/KG	460 U	490 U	460 U	490 U	450 UR
ACENAPHTHYLENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
2,6-DINITROTOLUENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
3-NITROANILINE	UG/KG	1100 U	1200 U	1100 U	1200 U	1100 UR
ACENAPHTHENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
2,4-DINITROPHENOL	UG/KG	1100 U	1200 U	1100 U	1200 U	1100 UR
4-NITROPHENOL	UG/KG	1100 U	1200 UJ	1100 U	1200 U	1100 UR
DIBENZOFURAN	UG/KG	460 U	490 U	460 U	490 U	450 UR
2,4-DINITROTOLUENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
DIETHYL PHTHALATE	UG/KG	460 U	490 U	460 U	490 U	450 UR
4-CHLOROPHENYL PHENYL ETHER	UG/KG	460 U	490 U	460 U	490 U	450 UR
FLUORENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
4-NITROANILINE	UG/KG	1100 U	1200 U	1100 U	1200 U	1100 UR
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1100 U	1200 U	1100 U	1200 U	1100 UR
N-NITRISODIPHENYLAMINE	UG/KG	460 U	490 U	460 U	490 U	450 UR
4-BROMOPHENYL PHENYL ETHER	UG/KG	460 U	490 U	460 U	490 U	450 UR
HEXACHLOROBENZENE	UG/KG	460 U	490 UJ	460 U	490 U	450 UR
PENTACHLOROPHENOL	UG/KG	1100 U	1200 U	1100 U	1200 U	1100 UR
PHENANTHRENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
ANTHRACENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
DI-N-BUTYL PHTHALATE	UG/KG	460 U	490 U	460 U	490 U	450 UR
FLUORANTHENE	UG/KG	460 U	490 U	460 U	490 U	450 UR
CARBAZOLE	UG/KG	460 U	490 U	460 U	490 U	450 UR
PYRENE	UG/KG	460 U	490 U	460 U	490 UJ	450 UR
BUTYL BENZYL PHTHALATE	UG/KG	460 U	490 U	460 U	490 UJ	450 UR
3,3-DICHLOROBENZIDINE	UG/KG	460 U	490 U	460 U	490 UJ	450 UR
BENZO(A)ANTHRACENE	UG/KG	460 U	490 U	460 U	490 UJ	450 UR
CHRYSENE	UG/KG	460 U	490 U	460 U	490 UJ	450 UR
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	460 U	490 U	460 U	490 UJ	1200 UR
DI-N-OCTYL PHTHALATE	UG/KG	460 UJ	490 U	460 U	490 UJ	450 UR
BENZO(B)FLUORANTHENE	UG/KG	460 UJ	490 U	460 U	490 UJ	450 UR
BENZO(K)FLUORANTHENE	UG/KG	460 UJ	490 U	460 U	490 UJ	450 UR
BENZO(A)PYRENE	UG/KG	460 UJ	63 J	460 U	490 UJ	450 UR
INDENO(1,2,3-CD) PYRENE	UG/KG	460 UJ	490 UJ	460 U	490 UJ	450 UR
DIBENZ(A,H)ANTHRACENE	UG/KG	460 UJ	490 UJ	460 U	490 UJ	450 UR
BENZO(G,H,I)PERYLENE	UG/KG	460 UJ	490 UJ	460 U	490 UJ	450 UR

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC03-SD-612B	6-WC04-SD-06B	6-WC04-SD-06M	6-WC04-SD-612B	6-WC05-SD-06B	6-WC05-SD-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/27/92
Lab Id:	00445-07	00445-08	00445-09	00445-10	00445-11	00445-13
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
BETA-BHC	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
DELTA-BHC	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
GAMMA-BHC(LINDANE)	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
HEPTACHLOR	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
ALDRIN	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
HEPTACHLOR EPOXIDE	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
ENDOSULFAN I	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
DIELDRIN	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
4,4'-DDE	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
ENDRIN	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
ENDOSULFAN II	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
4,4'-DDD	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
ENDOSULFAN SULFATE	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
4,4'-DDT	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
METHOXYCHLOR	UG/KG	47 U	240 U	65 U	24 U	56 UJ
ENDRIN KETONE	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
ENDRIN ALDEHYDE	UG/KG	9.2 U	47 U	13 U	4.6 U	11 UJ
ALPHA CHLORDANE	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
GAMMA CHLORDANE	UG/KG	4.7 U	24 U	6.5 U	2.4 U	5.6 UJ
TOXAPHENE	UG/KG	470 U	2400 U	650 U	240 U	560 UJ
PCB-1016	UG/KG	92 U	470 U	130 U	46 U	110 UJ
PCB-1221	UG/KG	190 U	940 U	260 U	93 U	220 UJ
PCB-1232	UG/KG	92 U	470 U	130 U	46 U	110 UJ
PCB-1242	UG/KG	92 U	470 U	130 U	46 U	110 UJ
PCB-1248	UG/KG	92 U	470 U	130 U	46 U	110 UJ
PCB-1254	UG/KG	92 U	470 U	130 U	46 U	110 UJ
PCB-1260	UG/KG	92 U	470 U	760	46 U	330 J
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
BROMOMETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
VINYL CHLORIDE	UG/KG	2200 U	19 U	17 U	19 U	16 U
CHLOROETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
METHYLENE CHLORIDE	UG/KG	910 J	19 U	17 U	19 U	16 U
ACETONE	UG/KG	15000 J	180 J	54 UJ	160 J	110 UJ
CARBON DISULFIDE	UG/KG	2200 U	19 U	17 U	19 U	16 U
1,1-DICHLOROETHENE	UG/KG	2200 U	19 UJ	17 UJ	19 UJ	16 U
1,1-DICHLOROETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
1,2-DICHLOROETHENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
CHLOROFORM	UG/KG	2200 U	19 U	17 U	19 U	16 U
1,2-DICHLOROETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
2-BUTANONE	UG/KG	2200 U	19 U	17 U	19 U	16 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC03-SD-612B	6-WC04-SD-06B	6-WC04-SD-06M	6-WC04-SD-612B	6-WC05-SD-06B	6-WC05-SD-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/27/92
Lab Id:	00443-07	00445-08	00445-09	00445-10	00445-11	00445-13
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
CARBON TETRACHLORIDE	UG/KG	2200 U	19 U	17 U	19 U	16 U
BROMODICHLOROMETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
1,2-DICHLOROPROPANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
CIS-1,3-DICHLOROPROPENE	UG/KG	2200 U	19 UJ	17 UJ	19 UJ	16 UJ
TRICHLOROETHENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
DIBROMOCHLOROMETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
1,1,2-TRICHLOROETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
BENZENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
BROMOFORM	UG/KG	2200 U	19 U	17 U	19 U	16 U
4-METHYL-2-PENTANONE	UG/KG	2200 U	19 U	17 U	19 U	16 U
2-HEXANONE	UG/KG	2200 U	19 U	17 U	19 U	16 U
TETRACHLOROETHENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	2200 U	19 U	17 U	19 U	16 U
TOLUENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
CHLOROBENZENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
ETHYLBENZENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
STYRENE	UG/KG	2200 U	19 U	17 U	19 U	16 U
TOTAL XYLENES	UG/KG	2200 U	19 U	17 U	19 U	16 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	910 U	470 UR	420 U	460 U	490 U
2-CHLOROPHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U
1,3-DICHLOROBENZENE	UG/KG	910 U	470 UR	420 U	460 U	490 U
1,4-DICHLOROBENZENE	UG/KG	910 U	470 UR	420 U	460 U	490 U
1,2-DICHLOROBENZENE	UG/KG	910 U	470 UR	420 U	460 U	490 U
2-METHYLPHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	910 U	470 UR	420 U	460 U	490 U
4-METHYLPHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	910 U	470 UR	420 U	460 U	490 U
HEXACHLOROETHANE	UG/KG	910 U	470 UR	420 U	460 U	490 U
NITROBENZENE	UG/KG	910 U	470 UR	420 U	460 U	490 U
ISOPHORONE	UG/KG	910 U	470 UR	420 U	460 U	490 U
2-NITROPHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U
2,4-DIMETHYLPHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	910 U	470 UR	420 U	460 U	490 U
2,4-DICHLOROPHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U
1,2,4-TRICHLOROBENZENE	UG/KG	910 U	470 UR	420 U	460 U	490 U
NAPHTHALENE	UG/KG	910 U	470 UR	420 U	460 U	490 U
4-CHLORANILINE	UG/KG	910 U	470 UR	420 U	460 U	490 U
HEXACHLOROBUTADIENE	UG/KG	910 U	470 UR	420 U	460 U	490 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC03-SD-612B	6-WC04-SD-06B	6-WC04-SD-06M	6-WC04-SD-612B	6-WC05-SD-06B	6-WC05-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/27/92	
Lab Id:	00445-07	00445-08	00445-09	00445-10	00445-11	00445-13	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
2-METHYLNAPHTHALENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
2,4,6-TRICHLOROPHENOL	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
2,4,5-TRICHLOROPHENOL	UG/KG	2200 U	1100 UR	1000 U	1100 U	1200 U	2600 U
2-CHLORONAPHTHALENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
2-NITROANILINE	UG/KG	2200 U	1100 UR	1000 U	1100 U	1200 U	2600 U
DIMETHYL PHTHALATE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
ACENAPHTHYLENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
2,6-DINITROTOLUENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
3-NITROANILINE	UG/KG	2200 U	1100 UR	1000 U	1100 U	1200 U	2600 U
ACENAPHTHENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
2,4-DINITROPHENOL	UG/KG	2200 U	1100 UR	1000 U	1100 U	1200 U	2600 U
4-NITROPHENOL	UG/KG	2200 U	1100 UR	1000 U	1100 U	1200 U	2600 U
DIBENZOFURAN	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
2,4-DINITROTOLUENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
DIETHYL PHTHALATE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
FLUORENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
4-NITROANILINE	UG/KG	2200 U	1100 UR	1000 U	1100 U	1200 U	2600 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	2200 U	1100 UR	1000 U	1100 U	1200 U	2600 U
N-NITROSODIPHENYLAMINE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
HEXACHLOROENZENE	UG/KG	910 U	470 UR	420 U	460 U	490 UJ	1100 UJ
PENTACHLOROPHENOL	UG/KG	2200 U	1100 UR	1000 U	1100 U	1200 U	2600 U
PHENANTHRENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
ANTHRACENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
DI-N-BUTYL PHTHALATE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
FLUORANTHENE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
CARBAZOLE	UG/KG	910 U	470 UR	420 U	460 U	490 U	1100 U
PYRENE	UG/KG	910 U	470 UR	420 UJ	460 U	490 U	1100 U
BUTYL BENZYL PHTHALATE	UG/KG	910 U	200 J	420 UJ	460 U	490 U	1100 U
3,3-DICHLOROBENZIDINE	UG/KG	910 U	470 UR	420 UJ	460 U	490 U	1100 U
BENZO(A)ANTHRACENE	UG/KG	910 U	470 UR	420 UJ	460 U	490 U	1100 U
CHRYSENE	UG/KG	910 U	470 UR	420 UJ	460 U	490 U	1100 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	910 U	470 UR	420 UJ	460 U	490 U	1100 U
DI-N-OCTYL PHTHALATE	UG/KG	910 U	470 UR	420 UJ	460 U	490 U	1100 U
BENZO(B)FLUORANTHENE	UG/KG	910 U	470 UR	420 UJ	460 U	490 U	1100 U
BENZO(K)FLUORANTHENE	UG/KG	910 U	470 UR	420 UJ	460 U	490 U	1100 U
BENZO(A)PYRENE	UG/KG	910 U	470 UR	420 UJ	460 U	850 J	1100 U
INDENO(1,2,3-CD) PYRENE	UG/KG	910 U	470 UR	420 UJ	460 U	490 UJ	1100 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	910 U	470 UR	420 UJ	460 U	490 UJ	1100 UJ
BENZO(G,H,I)PERYLENE	UG/KG	910 U	470 UR	420 UJ	460 U	490 UJ	1100 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC05-SD-612B	6-WC06-SD-06B	6-WC06-SD-06M	6-WC06-SD-612B	6-WC06-SD-612M	6-WC07-SD-06B	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/27/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	
Lab Id:	00445-14	00429-01	00429-02	00429-03	00429-04	00429-07	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
BETA-BHC	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
DELTA-BHC	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
GAMMA-BHC(LINDANE)	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
HEPTACHLOR	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
ALDRIN	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
HEPTACHLOR EPOXIDE	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
ENDOSULFAN I	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
DIELDRIN	UG/KG	4.7 U	27 UJ	6.9 U	12 UJ	4.1 U	33 UJ
4,4'-DDE	UG/KG	4.7 U	25 J	6.9 U	16 J	7.9 J	48 J
ENDRIN	UG/KG	4.7 U	27 UJ	6.9 U	12 UJ	4.1 U	33 UJ
ENDOSULFAN II	UG/KG	4.7 U	27 UJ	6.9 U	12 UJ	4.1 U	33 UJ
4,4'-DDD	UG/KG	4.7 U	80 J	6.9 U	12 UJ	4.1 U	33 UJ
ENDOSULFAN SULFATE	UG/KG	4.7 U	27 UJ	6.9 U	12 UJ	4.1 U	33 UJ
4,4'-DDT	UG/KG	4.7 U	200 J	6.9 U	12 UJ	4.1 U	33 UJ
METHOXYCHLOR	UG/KG	2.4 U	140 UJ	35 U	61 UJ	21 U	170 UJ
ENDRIN KETONE	UG/KG	4.7 U	27 UJ	6.9 U	12 UJ	4.1 U	33 UJ
ENDRIN ALDEHYDE	UG/KG	4.7 U	27 UJ	6.9 U	12 UJ	4.1 U	33 UJ
ALPHA CHLORDANE	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
GAMMA CHLORDANE	UG/KG	2.4 U	14 UJ	3.5 U	6.1 UJ	2.1 U	17 UJ
TOXAPHENE	UG/KG	240 U	1400 UJ	350 U	610 UJ	210 U	1700 UJ
PCB-1016	UG/KG	47 U	270 UJ	69 U	120 UJ	41 U	330 UJ
PCB-1221	UG/KG	94 U	550 UJ	140 U	240 UJ	83 U	660 UJ
PCB-1232	UG/KG	47 U	270 UJ	69 U	120 UJ	41 U	330 UJ
PCB-1242	UG/KG	47 U	270 UJ	69 U	120 UJ	41 U	330 UJ
PCB-1248	UG/KG	47 U	270 UJ	69 U	120 UJ	41 U	330 UJ
PCB-1254	UG/KG	47 U	270 UJ	69 U	120 UJ	41 U	330 UJ
PCB-1260	UG/KG	47 U	1300 J	400 J	120 UJ	41 U	330 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U
BROMOMETHANE	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U
VINYL CHLORIDE	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U
CHLOROETHANE	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U
METHYLENE CHLORIDE	UG/KG	14 U	42 U	21 U	36 U	13 U	30 J
ACETONE	UG/KG	14 UJ	42 U	240	220	44 U	160 UJ
CARBON DISULFIDE	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U
1,1-DICHLOROETHENE	UG/KG	14 UJ	42 U	21 U	36 U	13 U	100 U
1,1-DICHLOROETHANE	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U
1,2-DICHLOROETHENE	UG/KG	14 U	42 U	21 U	36 U	13 U	31 J
CHLOROFORM	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U
1,2-DICHLOROETHANE	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U
2-BUTANONE	UG/KG	14 U	42 U	21 U	36 U	13 U	100 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC05-SD-612B	6-WC06-SD-06B	6-WC06-SD-06M	6-WC06-SD-612B	6-WC06-SD-612M	6-WC07-SD-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
Lab Id:	00445-14	00429-01	00429-02	00429-03	00429-04	00429-07
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	14 U	42 U	21 U	36 U	100 U
CARBON TETRACHLORIDE	UG/KG	14 U	42 U	21 U	36 U	100 U
BROMODICHLOROMETHANE	UG/KG	14 U	42 U	21 U	36 U	100 U
1,2-DICHLOROPROPANE	UG/KG	14 U	42 U	21 U	36 U	100 U
CIS-1,3-DICHLOROPROPENE	UG/KG	14 UJ	42 U	21 U	36 U	100 U
TRICHLOROETHENE	UG/KG	14 U	42 U	21 U	36 U	100 U
DIBROMOCHLOROMETHANE	UG/KG	14 U	42 U	21 U	36 U	100 U
1,1,2-TRICHLOROETHANE	UG/KG	14 U	42 U	21 U	36 U	100 U
BENZENE	UG/KG	14 U	42 UJ	21 UJ	36 UJ	100 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	14 U	42 U	21 U	36 U	100 U
BROMOFORM	UG/KG	14 U	42 U	21 U	36 U	100 U
4-METHYL-2-PENTANONE	UG/KG	14 U	42 U	21 U	36 U	100 U
2-HEXANONE	UG/KG	14 U	42 U	21 U	36 U	100 U
TETRACHLOROETHENE	UG/KG	14 U	42 U	21 U	36 U	100 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	14 U	42 U	21 U	36 U	100 U
TOLUENE	UG/KG	4 J	42 UJ	5 J	36 UJ	100 U
CHLOROBENZENE	UG/KG	14 U	42 U	21 U	36 U	100 U
ETHYLBENZENE	UG/KG	14 U	42 U	21 U	36 U	100 U
STYRENE	UG/KG	14 U	42 U	21 U	36 U	100 U
TOTAL XYLENES	UG/KG	14 U	42 U	21 U	36 U	100 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	460 UJ	190 J	690 U	1200 U	3200 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	460 UJ	1400 U	690 U	1200 U	3200 U
2-CHLOROPHENOL	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
1,3-DICHLOROBENZENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
1,4-DICHLOROBENZENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
1,2-DICHLOROBENZENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
2-METHYLPHENOL	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
4-METHYLPHENOL	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	460 UJ	1400 U	690 U	1200 U	3200 U
HEXACHLOROETHANE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
NITROBENZENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
ISOPHORONE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
2-NITROPHENOL	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
2,4-DIMETHYLPHENOL	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	460 UJ	1400 U	690 U	1200 U	3200 U
2,4-DICHLOROPHENOL	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
1,2,4-TRICHLOROBENZENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
NAPHTHALENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
4-CHLORANILINE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
HEXACHLOROBUTADIENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC05-SD-612B	6-WC06-SD-06B	6-WC06-SD-06M	6-WC06-SD-612B	6-WC06-SD-612M	6-WC07-SD-06B
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/27/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
Lab Id:	00445-14	00429-01	00429-02	00429-03	00429-04	00429-07
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
4-CHLORO-3-METHYLPHENOL	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
2-METHYLNAPHTHALENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
2,4,6-TRICHLOROPHENOL	UG/KG	460 U	1400 U	690 U	1200 U	3200 U
2,4,5-TRICHLOROPHENOL	UG/KG	1100 U	3300 U	1700 U	2800 U	1000 U
2-CHLORONAPHTHALENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
2-NITROANILINE	UG/KG	1100 U	3300 U	1700 U	2800 U	1000 U
DIMETHYL PHTHALATE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
ACENAPHTHYLENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
2,6-DINITROTOLUENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
3-NITROANILINE	UG/KG	1100 U	3300 U	1700 U	2800 U	1000 U
ACENAPHTHENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
2,4-DINITROPHENOL	UG/KG	1100 U	3300 U	1700 U	2800 U	1000 U
4-NITROPHENOL	UG/KG	1100 U	3300 U	1700 U	2800 U	1000 U
DIBENZOFURAN	UG/KG	460 U	1400 U	690 U	1200 U	420 U
2,4-DINITROTOLUENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
DIETHYL PHTHALATE	UG/KG	460 U	530 J	690 U	1200 U	420 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	460 U	1400 U	690 U	1200 U	420 U
FLUORENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
4-NITROANILINE	UG/KG	1100 U	3300 U	1700 U	2800 U	1000 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1100 U	3300 U	1700 U	2800 U	1000 U
N-NITROSODIPHENYLAMINE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	460 U	1400 U	690 U	1200 U	420 U
HEXACHLOROBENZENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
PENTACHLOROPHENOL	UG/KG	1100 U	3300 U	1700 U	2800 U	1000 U
PHENANTHRENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
ANTHRACENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
DI-N-BUTYL PHTHALATE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
FLUORANTHENE	UG/KG	460 U	290 J	100 J	1200 U	420 U
CARBAZOLE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
PYRENE	UG/KG	460 U	210 J	200 J	1200 U	420 U
BUTYL BENZYL PHTHALATE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
3,3-DICHLOROBENZIDINE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
BENZO(A)ANTHRACENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
CHRYSENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
DI-N-OCTYL PHTHALATE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
BENZO(B)FLUORANTHENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
BENZO(K)FLUORANTHENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
BENZO(A)PYRENE	UG/KG	1600	1400 U	690 U	1200 U	420 U
INDENO(1,2,3-CD) PYRENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
DIBENZ(A,H)ANTHRACENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U
BENZO(G,H,I)PERYLENE	UG/KG	460 U	1400 U	690 U	1200 U	420 U

CLEJ-01272-3-13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC07-SD-06M	6-WC07-SD-612M	6-WC08-SD-06B	6-WC08-SD-06M	6-WC08-SD-612B	6-WC08-SD-612M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	
Lab Id:	00429-08	00429-09	00429-13	00429-15	00429-16	00429-17	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
BETA-BHC	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
DELTA-BHC	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
GAMMA-BHC(LINDANE)	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
HEPTACHLOR	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
ALDRIN	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
HEPTACHLOR EPOXIDE	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
ENDOSULFAN I	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
DIELDRIN	UG/KG	26 U	8.1 U	35 U	23 UJ	6.3 U	7.1 U
4,4'-DDE	UG/KG	26 U	8.1 U	47 J	18 J	27.9	7.6 J
ENDRIN	UG/KG	26 U	8.1 U	35 U	23 UJ	6.3 U	7.1 U
ENDOSULFAN II	UG/KG	26 U	8.1 U	35 U	23 UJ	6.3 U	7.1 U
4,4'-DDD	UG/KG	26 U	67	50 J	200 J	23 J	49
ENDOSULFAN SULFATE	UG/KG	26 U	8.1 U	35 U	23 UJ	6.3 U	7.1 U
4,4'-DDT	UG/KG	26 U	220 J	35 U	1200 J	6.3 U	7.1 U
METHOXYCHLOR	UG/KG	130 U	42 U	180 U	120 UJ	32 U	36 U
ENDRIN KETONE	UG/KG	26 U	8.1 U	35 U	23 UJ	6.3 U	7.1 U
ENDRIN ALDEHYDE	UG/KG	26 U	8.1 U	35 U	23 UJ	6.3 U	7.1 U
ALPHA CHLORDANE	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
GAMMA CHLORDANE	UG/KG	13 U	4.2 U	18 U	12 UJ	3.2 U	3.6 U
TOXAPHENE	UG/KG	1300 U	420 U	1800 U	1200 UJ	320 U	360 U
PCB-1016	UG/KG	260 U	81 U	350 U	230 UJ	63 U	71 U
PCB-1221	UG/KG	520 U	160 U	710 U	480 UJ	130 U	140 U
PCB-1232	UG/KG	260 U	81 U	350 U	230 UJ	63 U	71 U
PCB-1242	UG/KG	260 U	81 U	350 U	230 UJ	63 U	71 U
PCB-1248	UG/KG	260 U	81 U	350 U	230 UJ	63 U	71 U
PCB-1254	UG/KG	260 U	81 U	350 U	230 UJ	63 U	71 U
PCB-1260	UG/KG	2000 J	81 U	310 J	2100 J	32 J	71 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
BROMOMETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
VINYL CHLORIDE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
CHLOROETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
METHYLENE CHLORIDE	UG/KG	1200 U	6 J	36 U	24 U	48 U	22 U
ACETONE	UG/KG	1800 U	12 U	70 UJ	350	590 J	22 U
CARBON DISULFIDE	UG/KG	1200 U	2 J	36 U	24 U	5 J	22 U
1,1-DICHLOROETHENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
1,1-DICHLOROETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
1,2-DICHLOROETHENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
CHLOROFORM	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
1,2-DICHLOROETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
2-BUTANONE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-WC07-SD-06M	6-WC07-SD-612M	6-WC08-SD-06B	6-WC08-SD-06M	6-WC08-SD-612B	6-WC08-SD-612M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
	Lab Id:	00429-08	00429-09	00429-13	00429-15	00429-16	00429-17
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
CARBON TETRACHLORIDE	UG/KG	1200 UJ	12 U	36 U	24 U	48 U	22 U
BROMODICHLOROMETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
1,2-DICHLOROPROPANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
CIS-1,3-DICHLOROPROPENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
TRICHLOROETHENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
DIBROMOCHLOROMETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
1,1,2-TRICHLOROETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
BENZENE	UG/KG	1200 U	12 U	36 U	24 UJ	48 U	22 UJ
TRANS-1,3-DICHLOROPROPENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
BROMOFORM	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
4-METHYL-2-PENTANONE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 U
2-HEXANONE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 UJ
TETRACHLOROETHENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 UJ
1,1,2,2-TETRACHLOROETHANE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 UJ
TOLUENE	UG/KG	1200 U	12 U	36 U	24 UJ	48 U	22 UJ
CHLOROBENZENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 UJ
ETHYLBENZENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 UJ
STYRENE	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 UJ
TOTAL XYLENES	UG/KG	1200 U	12 U	36 U	24 U	48 U	22 UJ
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
2-CHLOROPHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
1,3-DICHLOROBENZENE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
1,4-DICHLOROBENZENE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
1,2-DICHLOROBENZENE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
2-METHYLPHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
4-METHYLPHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	640 U	410 U	1200 U	770 UJ	630 U	710 U
HEXACHLOROETHANE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
NITROBENZENE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
ISOPHORONE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
2-NITROPHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
2,4-DIMETHYLPHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
2,4-DICHLOROPHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
1,2,4-TRICHLOROBENZENE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
NAPHTHALENE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
4-CHLORANILINE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U
HEXACHLOROBUTADIENE	UG/KG	640 U	410 U	1200 U	770 U	630 U	710 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJBUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC07-SD-06M	6-WC07-SD-612M	6-WC08-SD-06B	6-WC08-SD-06M	6-WC08-SD-612B	6-WC08-SD-612M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
Lab Id:	00429-08	00429-09	00429-13	00429-15	00429-16	00429-17
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U
2-METHYLNAPHTHALENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
2,4,6-TRICHLOROPHENOL	UG/KG	640 U	410 U	1200 U	770 U	630 U
2,4,5-TRICHLOROPHENOL	UG/KG	1600 U	990 U	2800 U	1900 U	1500 U
2-CHLORONAPHTHALENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
2-NITROANILINE	UG/KG	1600 U	990 U	2800 U	1900 U	1500 U
DIMETHYL PHTHALATE	UG/KG	640 U	410 U	1200 U	770 U	630 U
ACENAPHTHYLENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
2,6-DINITROTOLUENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
3-NITROANILINE	UG/KG	1600 U	990 U	2800 U	1900 U	1500 U
ACENAPHTHENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
2,4-DINITROPHENOL	UG/KG	1600 U	990 U	2800 U	1900 U	1500 U
4-NITROPHENOL	UG/KG	1600 U	990 U	2800 U	1900 U	1500 U
DIBENZOFURAN	UG/KG	640 U	410 U	1200 U	770 U	630 U
2,4-DINITROTOLUENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
DIETHYL PHTHALATE	UG/KG	640 U	410 U	1200 U	120 J	630 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	640 U	410 U	1200 U	770 U	630 U
FLUORENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
4-NITROANILINE	UG/KG	1600 U	990 U	2800 U	1900 U	1500 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1600 U	990 U	2800 U	1900 U	1500 U
N-NITROSODIPHENYLAMINE	UG/KG	640 U	410 U	1200 U	770 U	630 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	640 U	410 U	1200 U	770 U	630 U
HEXACHLOROBENZENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
PENTACHLOROPHENOL	UG/KG	1600 U	990 U	2800 U	1900 U	1500 U
PHENANTHRENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
ANTHRACENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
DI-N-BUTYL PHTHALATE	UG/KG	640 U	410 U	1200 U	770 U	630 U
FLUORANTHENE	UG/KG	640 U	410 U	760 J	250 J	180 J
CARBAZOLE	UG/KG	640 U	410 U	1200 U	770 U	630 U
PYRENE	UG/KG	95 J	410 U	810 J	220 J	350 J
BUTYL BENZYL PHTHALATE	UG/KG	640 U	410 U	1200 U	770 U	630 U
3,3-DICHLOROBENZIDINE	UG/KG	640 U	410 U	1200 U	770 U	630 U
BENZO(A)ANTHRACENE	UG/KG	640 U	410 U	210 J	770 U	67 J
CHRYSENE	UG/KG	640 U	410 U	230 J	770 U	74 J
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	640 U	410 U	1200 U	770 U	630 U
DI-N-OCTYL PHTHALATE	UG/KG	640 U	410 U	1200 U	770 U	630 U
BENZO(B)FLUORANTHENE	UG/KG	640 U	410 U	420 J	140 J	95 J
BENZO(K)FLUORANTHENE	UG/KG	640 U	410 U	140 J	770 U	67 J
BENZO(A)PYRENE	UG/KG	640 U	410 U	150 J	770 U	630 U
INDENO(1,2,3-CD) PYRENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
DIBENZ(A,H)ANTHRACENE	UG/KG	640 U	410 U	1200 U	770 U	630 U
BENZO(G,H,I)PERYLENE	UG/KG	640 U	410 U	1200 U	770 U	630 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC09-SD-06B	6-WC09-SD-06M	6-WC09-SD-612B	6-WC09-SD-612M	6-WC10-SD-06B	6-WC10-SD-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/22/92	8/22/92
Lab Id:	00429-21	00429-22	00429-23	00429-24	00426-02	00426-04
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
BETA-BHC	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
DELTA-BHC	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
GAMMA-BHC(LINDANE)	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
HEPTACHLOR	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
ALDRIN	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
HEPTACHLOR EPOXIDE	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
ENDOSULFAN I	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
DIELDRIN	UG/KG	5 U	22 U	16 U	30 U	14 U
4,4'-DDE	UG/KG	5.9	69	16 U	83	32
ENDRIN	UG/KG	5 U	22 U	16 U	30 U	14 U
ENDOSULFAN II	UG/KG	5 U	22 U	16 U	30 U	14 U
4,4'-DDD	UG/KG	7.4 J	80 J	16 J	49 J	44
ENDOSULFAN SULFATE	UG/KG	5 U	22 U	16 U	30 U	14 U
4,4'-DDT	UG/KG	5 U	22 U	16 U	30 U	14 U
METHOXYCHLOR	UG/KG	26 U	110 U	84 U	150 U	70 U
ENDRIN KETONE	UG/KG	5 U	22 U	16 U	30 U	14 U
ENDRIN ALDEHYDE	UG/KG	5 U	22 U	16 U	30 U	14 U
ALPHA CHLORDANE	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
GAMMA CHLORDANE	UG/KG	2.6 U	11 U	8.4 U	15 U	7 U
TOXAPHENE	UG/KG	260 U	1100 U	840 U	1500 U	700 U
PCB-1016	UG/KG	50 U	220 U	160 U	300 U	140 U
PCB-1221	UG/KG	100 U	450 U	330 U	610 U	280 U
PCB-1232	UG/KG	50 U	220 U	160 U	300 U	140 U
PCB-1242	UG/KG	50 U	220 U	160 U	300 U	140 U
PCB-1248	UG/KG	50 U	220 U	160 U	300 U	140 U
PCB-1254	UG/KG	50 U	220 U	160 U	300 U	140 U
PCB-1260	UG/KG	31 J	290 J	160 U	730 J	420
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	15 U	67 U	3100 U	30 U	56 U
BROMOMETHANE	UG/KG	15 U	67 U	3100 U	30 U	56 U
VINYL CHLORIDE	UG/KG	15 U	67 U	3100 U	30 U	56 U
CHLOROETHANE	UG/KG	15 U	67 U	3100 U	30 U	56 U
METHYLENE CHLORIDE	UG/KG	15 U	67 U	3100 U	30 U	56 U
ACETONE	UG/KG	240	170 UJ	24000 J	140 UJ	140 J
CARBON DISULFIDE	UG/KG	15 U	67 U	3100 U	5 J	56 U
1,1-DICHLOROETHENE	UG/KG	15 U	67 U	3100 U	30 U	56 U
1,1-DICHLOROETHANE	UG/KG	15 U	67 U	3100 U	30 U	56 U
1,2-DICHLOROETHENE	UG/KG	15 U	67 U	3100 U	30 U	56 U
CHLOROFORM	UG/KG	15 U	67 U	3100 U	30 U	56 U
1,2-DICHLOROETHANE	UG/KG	15 U	67 U	3100 U	30 U	56 U
2-BUTANONE	UG/KG	15 U	67 U	9300	30 U	56 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC09-SD-06B	6-WC09-SD-06M	6-WC09-SD-612B	6-WC09-SD-612M	6-WC10-SD-06B	6-WC10-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/22/92	8/22/92	
Lab Id:	00429-21	00429-22	00429-23	00429-24	00426-02	00426-04	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
CARBON TETRACHLORIDE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
BROMODICHLOROMETHANE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
1,2-DICHLOROPROPANE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
CIS-1,3-DICHLOROPROPENE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
TRICHLOROETHENE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
DIBROMOCHLOROMETHANE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
1,1,2-TRICHLOROETHANE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
BENZENE	UG/KG	15 UJ	67 U	3100 U	30 U	110 U	56 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
BROMOFORM	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
4-METHYL-2-PENTANONE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
2-HEXANONE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
TETRACHLOROETHENE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
TOLUENE	UG/KG	15 UJ	67 U	3100 U	30 U	110 U	56 U
CHLOROBENZENE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
ETHYLBENZENE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
STYRENE	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
TOTAL XYLENES	UG/KG	15 U	67 U	3100 U	30 U	110 U	56 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2-CHLOROPHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
1,3-DICHLOROBENZENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
1,4-DICHLOROBENZENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 UJ
1,2-DICHLOROBENZENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2-METHYLPHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
4-METHYLPHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	500 U	2200 UJ	1600 U	980 UJ	3000 U	1400 UJ
HEXACHLOROETHANE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
NITROBENZENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
ISOPHORONE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2-NITROPHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2,4-DIMETHYLPHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2,4-DICHLOROPHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
1,2,4-TRICHLOROBENZENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 UJ
NAPHTHALENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
4-CHLORANILINE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
HEXACHLOROBUTADIENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC09-SD-06B	6-WC09-SD-06M	6-WC09-SD-612B	6-WC09-SD-612M	6-WC10-SD-06B	6-WC10-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/22/92	8/22/92	
Lab Id:	00429-21	00429-22	00429-23	00429-24	00426-02	00426-04	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 UJ
2-METHYLNAPHTHALENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2,4,6-TRICHLOROPHENOL	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2,4,5-TRICHLOROPHENOL	UG/KG	1200 U	5300 U	4000 U	2400 UJ	7200 U	3300 U
2-CHLORONAPHTHALENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2-NITROANILINE	UG/KG	1200 U	5300 U	4000 U	2400 UJ	7200 U	3300 U
DIMETHYL PHTHALATE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
ACENAPHTHYLENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2,6-DINITROTOLUENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
3-NITROANILINE	UG/KG	1200 U	5300 U	4000 UJ	2400 UJ	7200 UJ	3300 U
ACENAPHTHENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 UJ
2,4-DINITROPHENOL	UG/KG	1200 U	5300 U	4000 U	2400 UJ	7200 U	3300 U
4-NITROPHENOL	UG/KG	1200 U	5300 U	4000 U	2400 UJ	7200 U	3300 U
DIBENZOFURAN	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
2,4-DINITROTOLUENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 UJ
DIETHYL PHTHALATE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
FLUORENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
4-NITROANILINE	UG/KG	1200 U	5300 U	4000 U	2400 UJ	7200 U	3300 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1200 U	5300 U	4000 U	2400 UJ	7200 U	3300 U
N-NITROSODIPHENYLAMINE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
HEXACHLOROBENZENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
PENTACHLOROPHENOL	UG/KG	1200 U	5300 U	4000 U	2400 UJ	7200 U	3300 UJ
PHENANTHRENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
ANTHRACENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
DI-N-BUTYL PHTHALATE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
FLUORANTHENE	UG/KG	330 J	2200 U	1600 U	250 J	3000 U	260 J
CARBAZOLE	UG/KG	500 U	2200 U	1600 UJ	980 UJ	3000 UJ	1400 U
PYRENE	UG/KG	410 J	2200 U	1600 UJ	190 J	3000 UJ	300 J
BUTYL BENZYL PHTHALATE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
3,3-DICHLOROBENZIDINE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
BENZO(A)ANTHRACENE	UG/KG	120 J	2200 U	1600 U	980 UJ	3000 U	1400 U
CHRYSENE	UG/KG	74 J	2200 U	1600 U	980 UJ	3000 U	1400 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	500 U	2200 U	2100 U	980 UJ	3000 U	1400 U
DI-N-OCTYL PHTHALATE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
BENZO(B)FLUORANTHENE	UG/KG	140 J	2200 U	190 J	980 UJ	3000 U	1400 U
BENZO(K)FLUORANTHENE	UG/KG	500 U	2200 U	1600 U	980 UJ	3000 U	1400 U
BENZO(A)PYRENE	UG/KG	75 J	2200 U	1600 U	480 J	3000 U	1400 U
INDENO(1,2,3-CD) PYRENE	UG/KG	500 U	2200 UJ	1600 U	980 UJ	3000 U	1400 U
DIBENZ(AH)ANTHRACENE	UG/KG	500 U	2200 UJ	1600 U	980 UJ	3000 U	1400 U
BENZO(G,H,I)PERYLENE	UG/KG	500 U	2200 UJ	1600 U	980 UJ	3000 U	1400 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC10-SD-612M	6-WC11-SD-06B	6-WC11-SD-06M	
Depth:	N/A	N/A	N/A	
Date Sampled:	8/22/92	8/22/92	8/22/92	
Lab Id:	00426-05	00426-10	00426-11	
Parameter	Units			
<u>PESTICIDE/PCBS</u>				
ALPHA-BHC	UG/KG	4.1 UJ	17 U	6.2 UJ
BETA-BHC	UG/KG	4.1 UJ	17 U	6.2 UJ
DELTA-BHC	UG/KG	4.1 UJ	17 U	6.2 UJ
GAMMA-BHC(LINDANE)	UG/KG	4.1 UJ	17 UJ	6.2 UJ
HEPTACHLOR	UG/KG	4.1 UJ	17 U	6.2 UJ
ALDRIN	UG/KG	4.1 UJ	17 U	6.2 UJ
HEPTACHLOR EPOXIDE	UG/KG	4.1 UJ	17 U	6.2 UJ
ENDOSULFAN I	UG/KG	4.1 UJ	17 U	6.2 UJ
DIELDRIN	UG/KG	8 UJ	33 U	12 UJ
4,4'-DDE	UG/KG	34 J	33 U	25 J
ENDRIN	UG/KG	8 UJ	33 U	12 UJ
ENDOSULFAN II	UG/KG	8 UJ	33 U	12 UJ
4,4'-DDD	UG/KG	43 J	35 J	42 J
ENDOSULFAN SULFATE	UG/KG	8 UJ	33 U	12 UJ
4,4'-DDT	UG/KG	8 UJ	33 U	12 UJ
METHOXYCHLOR	UG/KG	41 UJ	170 U	62 UJ
ENDRIN KETONE	UG/KG	8 UJ	33 U	12 UJ
ENDRIN ALDEHYDE	UG/KG	8 UJ	33 U	12 UJ
ALPHA CHLORDANE	UG/KG	4.1 UJ	17 U	6.2 UJ
GAMMA CHLORDANE	UG/KG	4.1 UJ	17 U	6.2 UJ
TOXAPHENE	UG/KG	410 UJ	1700 U	620 UJ
PCB-1016	UG/KG	80 UJ	330 U	120 UJ
PCB-1221	UG/KG	160 UJ	670 U	250 UJ
PCB-1232	UG/KG	80 UJ	330 U	120 UJ
PCB-1242	UG/KG	80 UJ	330 U	120 UJ
PCB-1248	UG/KG	80 UJ	330 U	120 UJ
PCB-1254	UG/KG	80 UJ	330 U	120 UJ
PCB-1260	UG/KG	160 J	330 U	120 J
<u>VOLATILES</u>				
CHLOROMETHANE	UG/KG	29 U	110 U	32 U
BROMOMETHANE	UG/KG	29 U	110 U	32 U
VINYL CHLORIDE	UG/KG	29 U	110 U	32 U
CHLOROETHANE	UG/KG	29 U	110 U	32 U
METHYLENE CHLORIDE	UG/KG	29 U	110 U	32 U
ACETONE	UG/KG	200 J	330 J	72 J
CARBON DISULFIDE	UG/KG	24 J	110 U	15 J
1,1-DICHLOROETHENE	UG/KG	29 U	110 U	32 U
1,1-DICHLOROETHANE	UG/KG	29 U	110 U	32 U
1,2-DICHLOROETHENE	UG/KG	29 U	110 U	32 U
CHLOROFORM	UG/KG	29 U	110 U	32 U
1,2-DICHLOROETHANE	UG/KG	29 U	110 U	32 U
2-BUTANONE	UG/KG	22 J	110 U	32 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC10-SD-612M	6-WC11-SD-06B	6-WC11-SD-06M
Depth:	N/A	N/A	N/A
Date Sampled:	8/22/92	8/22/92	8/22/92
Lab Id:	00426-05	00426-10	00426-11

Parameter	Units			
<u>VOLATILES Cont.</u>				
1,1,1-TRICHLOROETHANE	UG/KG	29 U	110 U	32 U
CARBON TETRACHLORIDE	UG/KG	29 U	110 U	32 U
BROMODICHLOROMETHANE	UG/KG	29 U	110 U	32 U
1,2-DICHLOROPROPANE	UG/KG	29 U	110 U	32 U
CIS-1,3-DICHLOROPROPENE	UG/KG	29 U	110 U	32 U
TRICHLOROETHENE	UG/KG	29 U	110 U	32 U
DIBROMOCHLOROMETHANE	UG/KG	29 U	110 U	32 U
1,1,2-TRICHLOROETHANE	UG/KG	29 U	110 U	32 U
BENZENE	UG/KG	29 U	110 U	32 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	29 U	110 U	32 U
BROMOFORM	UG/KG	29 U	110 U	32 U
4-METHYL-2-PENTANONE	UG/KG	29 U	110 U	32 U
2-HEXANONE	UG/KG	29 U	110 U	32 U
TETRACHLOROETHENE	UG/KG	29 U	110 U	32 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	29 U	110 U	32 U
TOLUENE	UG/KG	29 U	110 U	32 U
CHLOROENZENE	UG/KG	29 U	110 U	32 U
ETHYLBENZENE	UG/KG	29 U	110 U	32 U
STYRENE	UG/KG	29 U	110 U	32 U
TOTAL XYLENES	UG/KG	29 U	110 U	32 U
<u>SEMIVOLATILES</u>				
PHENOL	UG/KG	790 U	3300 UR	1200 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	790 U	3300 UR	1200 U
2-CHLOROPHENOL	UG/KG	790 U	3300 UR	1200 U
1,3-DICHLOROBENZENE	UG/KG	790 U	3300 UR	1200 U
1,4-DICHLOROBENZENE	UG/KG	790 U	3300 UR	1200 U
1,2-DICHLOROBENZENE	UG/KG	790 U	3300 UR	1200 U
2-METHYLPHENOL	UG/KG	790 U	3300 UR	1200 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	790 U	3300 UR	1200 U
4-METHYLPHENOL	UG/KG	790 U	3300 UR	1200 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	790 U	3300 UR	1200 U
HEXACHLOROETHANE	UG/KG	790 U	3300 UR	1200 U
NITROBENZENE	UG/KG	790 U	3300 UR	1200 U
ISOPHORONE	UG/KG	790 U	3300 UR	1200 U
2-NITROPHENOL	UG/KG	790 U	3300 UR	1200 U
2,4-DIMETHYLPHENOL	UG/KG	790 U	3300 UR	1200 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	790 U	3300 UR	1200 U
2,4-DICHLOROPHENOL	UG/KG	790 U	3300 UR	1200 U
1,2,4-TRICHLOROBENZENE	UG/KG	790 U	3300 UR	1200 U
NAPHTHALENE	UG/KG	790 U	3300 UR	1200 U
4-CHLORANILINE	UG/KG	790 U	3300 UR	1200 U
HEXACHLOROBUTADIENE	UG/KG	790 U	3300 UR	1200 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-WC10-SD-612M	6-WC11-SD-06B	6-WC11-SD-06M
Depth:	N/A	N/A	N/A
Date Sampled:	8/22/92	8/22/92	8/22/92
Lab Id:	00426-05	00426-10	00426-11
Parameter	Units		
<u>SEMIVOLATILES Cont.</u>			
4-CHLORO-3-METHYLPHENOL	UG/KG	790 U	3300 UR
2-METHYLNAPHTHALENE	UG/KG	790 U	3300 UR
HEXACHLOROCYCLOPENTADIENE	UG/KG	790 U	3300 UR
2,4,6-TRICHLOROPHENOL	UG/KG	790 U	3300 UR
2,4,5-TRICHLOROPHENOL	UG/KG	1900 U	7900 UR
2-CHLORONAPHTHALENE	UG/KG	790 U	3300 UR
2-NITROANILINE	UG/KG	1900 U	7900 UR
DIMETHYL PHTHALATE	UG/KG	790 U	3300 UR
ACENAPHTHYLENE	UG/KG	790 U	3300 UR
2,6-DINITROTOLUENE	UG/KG	790 U	3300 UR
3-NITROANILINE	UG/KG	1900 UJ	7900 UR
ACENAPHTHENE	UG/KG	790 U	3300 UR
2,4-DINITROPHENOL	UG/KG	1900 U	7900 UR
4-NITROPHENOL	UG/KG	1900 U	7900 UR
DIBENZOFURAN	UG/KG	790 U	3300 UR
2,4-DINITROTOLUENE	UG/KG	790 U	3300 UR
DIETHYL PHTHALATE	UG/KG	790 U	3300 UR
4-CHLOROPHENYL PHENYL ETHER	UG/KG	790 U	3300 UR
FLUORENE	UG/KG	790 U	3300 UR
4-NITROANILINE	UG/KG	1900 U	7900 UR
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1900 U	7900 UR
N-NITROSODIPHENYLAMINE	UG/KG	790 U	3300 UR
4-BROMOPHENYL PHENYL ETHER	UG/KG	790 U	3300 UR
HEXACHLOROBENZENE	UG/KG	790 U	3300 UR
PENTACHLOROPHENOL	UG/KG	1900 U	7900 UR
PHENANTHRENE	UG/KG	790 U	3300 UR
ANTHRACENE	UG/KG	790 U	3300 UR
DI-N-BUTYL PHTHALATE	UG/KG	790 U	3300 UR
FLUORANTHENE	UG/KG	330 J	3300 UR
CARBAZOLE	UG/KG	790 UJ	3300 UR
PYRENE	UG/KG	230 J	3300 UR
BUTYL BENZYL PHTHALATE	UG/KG	790 U	3300 UR
3,3-DICHLOROBENZIDINE	UG/KG	790 U	3300 UR
BENZO(A)ANTHRACENE	UG/KG	130 J	3300 UR
CHRYSENE	UG/KG	790 U	3300 UR
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	790 U	960 J
DI-N-OCTYL PHTHALATE	UG/KG	790 U	3300 UR
BENZO(B)FLUORANTHENE	UG/KG	94 J	3300 UR
BENZO(K)FLUORANTHENE	UG/KG	790 U	3300 UR
BENZO(A)PYRENE	UG/KG	790 U	3300 UR
INDENO(1,2,3-CD)PYRENE	UG/KG	790 U	3300 UR
DIBENZ(A,H)ANTHRACENE	UG/KG	790 U	3300 UR
BENZO(G,H,I)PERYLENE	UG/KG	790 U	3300 UR

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.1 U	24 U	ND	ND		0/33
BETA-BHC	UG/KG	2.1 U	24 U	ND	ND		0/33
DELTA-BHC	UG/KG	2.1 U	24 U	ND	ND		0/33
GAMMA-BHC(LINDANE)	UG/KG	2.1 U	24 U	ND	ND		0/33
HEPTACHLOR	UG/KG	2.1 U	24 U	ND	ND		0/33
ALDRIN	UG/KG	2.1 U	24 U	ND	ND		0/33
HEPTACHLOR EPOXIDE	UG/KG	2.1 U	24 U	ND	ND		0/33
ENDOSULFAN I	UG/KG	2.1 U	24 U	ND	ND		0/33
DIELDRIN	UG/KG	4.1 U	47 U	4.8 J	4.8 J	6-WC01-SD-612D	1/33
4,4'-DDE	UG/KG	4.6 UJ	47 U	5.9	83	6-WC09-SD-612M	14/33
ENDRIN	UG/KG	4.1 U	47 U	ND	ND		0/33
ENDOSULFAN II	UG/KG	4.1 U	47 U	ND	ND		0/33
4,4'-DDD	UG/KG	4.1 U	47 U	7.4 J	200 J	6-WC08-SD-06M	15/33
ENDOSULFAN SULFATE	UG/KG	4.1 U	47 U	ND	ND		0/33
4,4'-DDT	UG/KG	4.1 U	47 U	200 J	1200 J	6-WC08-SD-06M	3/33
METHOXYCHLOR	UG/KG	21 U	240 U	ND	ND		0/33
ENDRIN KETONE	UG/KG	4.1 U	47 U	ND	ND		0/33
ENDRIN ALDEHYDE	UG/KG	4.1 U	47 U	ND	ND		0/33
ALPHA CHLORDANE	UG/KG	2.1 U	24 U	ND	ND		0/33
GAMMA CHLORDANE	UG/KG	2.1 U	24 U	ND	ND		0/33
TOXAPHENE	UG/KG	210 U	2400 U	ND	ND		0/33
PCB-1016	UG/KG	41 U	470 U	ND	ND		0/33
PCB-1221	UG/KG	83 U	940 U	ND	ND		0/33
PCB-1232	UG/KG	41 U	470 U	ND	ND		0/33
PCB-1242	UG/KG	41 U	470 U	ND	ND		0/33
PCB-1248	UG/KG	41 U	470 U	ND	ND		0/33
PCB-1254	UG/KG	41 U	470 U	ND	ND		0/33
PCB-1260	UG/KG	41 U	470 U	31 J	2100 J	6-WC08-SD-06M	14/33
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
BROMOMETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
VINYL CHLORIDE	UG/KG	12 U	3100 U	ND	ND		0/33
CHLOROETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
METHYLENE CHLORIDE	UG/KG	13 U	3100 U	6 J	910 J	6-WC03-SD-612B	3/33
ACETONE	UG/KG	12 U	1800 U	26	24000 J	6-WC09-SD-612B	17/33
CARBON DISULFIDE	UG/KG	13 U	3100 U	2 J	24 J	6-WC10-SD-612M	5/33
1,1-DICHLOROETHENE	UG/KG	12 U	3100 U	ND	ND		0/33
1,1-DICHLOROETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
1,2-DICHLOROETHENE	UG/KG	12 U	3100 U	31 J	31 J	6-WC07-SD-06B	1/33
CHLOROFORM	UG/KG	12 U	3100 U	ND	ND		0/33
1,2-DICHLOROETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
2-BUTANONE	UG/KG	12 U	2200 U	21 J	9300	6-WC09-SD-612B	4/33

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
CARBON TETRACHLORIDE	UG/KG	12 U	3100 U	ND	ND		0/33
BROMODICHLOROMETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
1,2-DICHLOROPROPANE	UG/KG	12 U	3100 U	ND	ND		0/33
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	3100 U	ND	ND		0/33
TRICHLOROETHENE	UG/KG	12 U	3100 U	7 J	23	6-WC02-SD-06B	2/33
DIBROMOCHLOROMETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
1,1,2-TRICHLOROETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
BENZENE	UG/KG	12 U	3100 U	ND	ND		0/33
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	3100 U	ND	ND		0/33
BROMOFORM	UG/KG	12 U	3100 U	ND	ND		0/33
4-METHYL-2-PENTANONE	UG/KG	12 U	3100 U	ND	ND		0/33
2-HEXANONE	UG/KG	12 U	3100 U	ND	ND		0/33
TETRACHLOROETHENE	UG/KG	12 U	3100 U	ND	ND		0/33
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	3100 U	ND	ND		0/33
TOLUENE	UG/KG	12 U	3100 U	4 J	5 J	6-WC06-SD-06M	2/33
CHLOROBENZENE	UG/KG	12 U	3100 U	ND	ND		0/33
ETHYLBENZENE	UG/KG	12 U	3100 U	ND	ND		0/33
STYRENE	UG/KG	12 U	3100 U	ND	ND		0/33
TOTAL XYLENES	UG/KG	12 U	3100 U	26	120 J	6-WC03-SD-06M	3/33
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	410 U	3300 UR	120 J	190 J	6-WC06-SD-06B	2/33
BIS(2-CHLOROETHYL) ETHER	UG/KG	410 U	3300 UR	ND	ND		0/33
2-CHLOROPHENOL	UG/KG	410 U	3300 UR	ND	ND		0/33
1,3-DICHLOROBENZENE	UG/KG	410 U	3300 UR	ND	ND		0/33
1,4-DICHLOROBENZENE	UG/KG	410 U	3300 UR	ND	ND		0/33
1,2-DICHLOROBENZENE	UG/KG	410 U	3300 UR	ND	ND		0/33
2-METHYLPHENOL	UG/KG	410 U	3300 UR	ND	ND		0/33
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	410 U	3300 UR	ND	ND		0/33
4-METHYLPHENOL	UG/KG	410 U	3300 UR	ND	ND		0/33
N-NITROSODI-N-PROPYLAMINE	UG/KG	410 U	3300 UR	ND	ND		0/33
HEXACHLOROETHANE	UG/KG	410 U	3300 UR	ND	ND		0/33
NITROBENZENE	UG/KG	410 U	3300 UR	ND	ND		0/33
ISOPHORONE	UG/KG	410 U	3300 UR	ND	ND		0/33
2-NITROPHENOL	UG/KG	410 U	3300 UR	ND	ND		0/33
2,4-DIMETHYLPHENOL	UG/KG	410 U	3300 UR	ND	ND		0/33
BIS(2-CHLOROETHOXY) METHANE	UG/KG	410 U	3300 UR	ND	ND		0/33
2,4-DICHLOROPHENOL	UG/KG	410 U	3300 UR	ND	ND		0/33
1,2,4-TRICHLOROBENZENE	UG/KG	410 U	3300 UR	ND	ND		0/33
NAPHTHALENE	UG/KG	410 U	3300 UR	ND	ND		0/33
4-CHLORANILINE	UG/KG	410 U	3300 UR	ND	ND		0/33
HEXACHLOROBUTADIENE	UG/KG	410 U	3300 UR	ND	ND		0/33

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	410 U	3300 UR	ND	ND		0/33
2-METHYLNAPHTHALENE	UG/KG	410 U	3300 UR	ND	ND		0/33
HEXACHLOROCYCLOPENTADIENE	UG/KG	410 U	3300 UR	ND	ND		0/33
2,4,6-TRICHLOROPHENOL	UG/KG	410 U	3300 UR	ND	ND		0/33
2,4,5-TRICHLOROPHENOL	UG/KG	990 U	7900 U	ND	ND		0/33
2-CHLORONAPHTHALENE	UG/KG	410 U	3300 UR	ND	ND		0/33
2-NITROANILINE	UG/KG	990 U	7900 U	ND	ND		0/33
DIMETHYL PHTHALATE	UG/KG	410 U	3300 UR	ND	ND		0/33
ACENAPHTHYLENE	UG/KG	410 U	3300 UR	ND	ND		0/33
2,6-DINITROTOLUENE	UG/KG	410 U	3300 UR	ND	ND		0/33
3-NITROANILINE	UG/KG	990 UJ	7900 U	ND	ND		0/33
ACENAPHTHENE	UG/KG	410 U	3300 UR	ND	ND		0/33
2,4-DINITROPHENOL	UG/KG	990 U	7900 U	ND	ND		0/33
4-NITROPHENOL	UG/KG	990 U	7900 U	ND	ND		0/33
DIBENZOFURAN	UG/KG	410 U	3300 UR	ND	ND		0/33
2,4-DINITROTOLUENE	UG/KG	410 U	3300 UR	ND	ND		0/33
DIETHYL PHTHALATE	UG/KG	410 U	3300 UR	120 J	530 J	6-WC06-SD-06B	2/33
4-CHLOROPHENYL PHENYL ETHER	UG/KG	410 U	3300 UR	ND	ND		0/33
FLUORENE	UG/KG	410 U	3300 UR	ND	ND		0/33
4-NITROANILINE	UG/KG	990 U	7900 U	ND	ND		0/33
4,6-DINITRO-2-METHYLPHENOL	UG/KG	990 U	7900 U	ND	ND		0/33
N-NITROSODIPHENYLAMINE	UG/KG	410 U	3300 UR	ND	ND		0/33
4-BROMOPHENYL PHENYL ETHER	UG/KG	410 U	3300 UR	ND	ND		0/33
HEXACHLOROBENZENE	UG/KG	410 U	3300 UR	ND	ND		0/33
PENTACHLOROPHENOL	UG/KG	990 U	7900 U	ND	ND		0/33
PHENANTHRENE	UG/KG	410 U	3300 UR	76 J	76 J	6-WC08-SD-612M	1/33
ANTHRACENE	UG/KG	410 U	3300 UR	ND	ND		0/33
DI-N-BUTYL PHTHALATE	UG/KG	410 U	3300 UR	ND	ND		0/33
FLUORANTHENE	UG/KG	410 U	3300 UR	94 J	760 J	6-WC08-SD-06B	11/33
CARBAZOLE	UG/KG	410 UJ	3300 UR	ND	ND		0/33
PYRENE	UG/KG	410 UJ	3300 UR	95 J	810 J	6-WC08-SD-06B	12/33
BUTYL BENZYL PHTHALATE	UG/KG	410 U	3300 UR	200 J	920 J	6-WC07-SD-06B	2/33
3,3-DICHLOROBENZIDINE	UG/KG	410 U	3300 UR	ND	ND		0/33
BENZO(A)ANTHRACENE	UG/KG	410 U	3300 UR	67 J	210 J	6-WC08-SD-06B	4/33
CHRYSENE	UG/KG	410 U	3300 UR	74 J	230 J	6-WC08-SD-06B	3/33
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	410 U	3200 U	960 J	960 J	6-WC11-SD-06B	1/33
DI-N-OCTYL PHTHALATE	UG/KG	410 U	3300 UR	ND	ND		0/33
BENZO(B)FLUORANTHENE	UG/KG	410 U	3300 UR	94 J	420 J	6-WC08-SD-06B	6/33
BENZO(K)FLUORANTHENE	UG/KG	410 U	3300 UR	67 J	140 J	6-WC08-SD-06B	2/33
BENZO(A)PYRENE	UG/KG	410 U	3300 UR	63 J	1600	6-WC09-SD-612B	6/33
INDENO(1,2,3-CD) PYRENE	UG/KG	410 U	3300 UR	ND	ND		0/33
DIBENZ(A,H)ANTHRACENE	UG/KG	410 U	3300 UR	ND	ND		0/33
BENZO(G,H,I)PERYLENE	UG/KG	410 U	3300 UR	ND	ND		0/33

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-WC01-SD-06B	6-WC01-SD-612B	6-WC02-SD-06B	6-WC02-SD-612B	6-WC03-SD-06B	6-WC03-SD-06M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/30/92	8/30/92	8/26/92	8/26/92	8/26/92	8/26/92
	Lab Id:	00464-22	00464-24	00445-03	00445-04	00445-05	00445-06
Parameter	Units						
ALUMINUM	MG/KG	2090 J	2510	6540 J	5390 J	6480 J	4780 J
ANTIMONY	MG/KG	3.3 U	3.1 U	3.1 U	4.1 U	6.8 UJ	3.4 U
ARSENIC	MG/KG	1.2 JB	0.73 UJ	0.81 U	0.64 U	1.4 UJ	0.82 UJ
BARIUM	MG/KG	5.2 JB	15.3 B	19.6 JB	23.7 JB	15.8 JB	37.1 JB
BERYLLIUM	MG/KG	0.07 U	0.07 U	0.26 U	0.33 U	0.27 U	0.32 U
CADMIUM	MG/KG	0.45 U	0.42 U	0.42 U	0.74 UJ	1.2 UJ	0.46 U
CALCIUM	MG/KG	329 B	1060 B	1090 JB	1790 J	2850 J	22200 J
CHROMIUM	MG/KG	3 UJ	2.5 UJ	4.2	3.4	6.2	6.4
COBALT	MG/KG	0.48 U	0.44 U	0.6 JB	0.87 JB	0.94 U	1.3 JB
COPPER	MG/KG	0.86 UJ	0.64 UJ	0.43 JB	0.62 JB	5.8 JB	53200
IRON	MG/KG	724 J	1430 J	1200 J	1570 J	6870 J	6940 J
LEAD	MG/KG	9.7 J	2.3 J	4.8 J	4.8 J	9 J	314 J
MAGNESIUM	MG/KG	50.5 B	57 B	372 JB	356 JB	440 JB	852 JB
MANGANESE	MG/KG	2.4 UJ	4.7 J	8.8	6.5	9.7	23
MERCURY	MG/KG	0.03 U	0.04 U	0.08 U	0.06 U	0.11 U	0.06 U
NICKEL	MG/KG	1.9 UJ	1.8 UJ	1.7 UJ	2.8 B	3.7 UJ	1.9 UJ
POTASSIUM	MG/KG	92.1 B	98.1 B	145 B	97 U	220 B	360 B
SELENIUM	MG/KG	1.4 UJ	1.2 UJ	1 U	1.3 U	2.7 U	1 UJ
SILVER	MG/KG	0.48 UJ	0.44 UJ	0.52 UJ	1.2 UJ	1.5 UJ	7.3
SODIUM	MG/KG	38.3 UJ	27 UJ	491 JB	469 JB	277 UJ	489 JB
THALLIUM	MG/KG	0.55 U	0.49 U	0.4 UJ	0.5 UJ	1.1 UJ	0.4 UJ
VANADIUM	MG/KG	5.7 B	4.4 B	5.8 B	7 B	11.6 B	9.1 B
ZINC	MG/KG	3.1 U	3.1 U	1.6 U	2.4 U	16.3 U	926

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMPLEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-WC03-SD-612B	6-WC04-SD-06B	6-WC04-SD-06M	6-WC04-SD-612B	6-WC05-SD-06B	6-WC05-SD-06M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/27/92	8/27/92
	Lab Id:	00445-07	00445-08	00445-09	00445-10	00445-11	00445-13
Parameter	Units						
ALUMINUM	MG/KG	7040 J	1830 J	569 J	1950 J	8600 J	2040 J
ANTIMONY	MG/KG	6.8 U	3.5 U	3.2 U	3.6 U	3.7 U	2.7 U
ARSENIC	MG/KG	1.3 JB	0.57 U	1.3 B	0.77 UJ	0.72 U	0.63 U
BARIUM	MG/KG	25.2 JB	4.2 JB	4.3 JB	4.8 JB	18.1 JB	4.7 JB
BERYLLIUM	MG/KG	0.26 U	0.12 U	0.07 U	0.13 U	0.43 U	0.09 U
CADMIUM	MG/KG	0.92 U	0.47 U	0.43 U	0.49 U	0.9 UJ	0.59 UJ
CALCIUM	MG/KG	4500 J	407 JB	90000 J	1090 JB	1300 JB	2430 J
CHROMIUM	MG/KG	8.3	2.7	3.7	2 B	4.3	2.4
COBALT	MG/KG	0.97 U	0.49 U	0.45 U	0.63 JB	1.1 JB	0.62 JB
COPPER	MG/KG	79.6	8.7 J	2.5 JB	1.8 JB	1.2 JB	1.9 JB
IRON	MG/KG	6050 J	1920 J	1160 J	2050 J	1680 J	1450 J
LEAD	MG/KG	10.3 J	3 J	4.4 J	4.4 J	6.2 J	7.1 J
MAGNESIUM	MG/KG	333 JB	160 JB	1380 J	311 JB	673 JB	209 JB
MANGANESE	MG/KG	8.3	5	18.7	5.1	6.4	7.1
MERCURY	MG/KG	0.11 U	0.05 U	0.04 U	0.06 U	0.07 U	0.05 U
NICKEL	MG/KG	3.8 UJ	2 UJ	1.8 UJ	2 UJ	2.1 UJ	1.5 UJ
POTASSIUM	MG/KG	457 B	88.5 U	101 B	75.6 U	180 B	74.8 U
SELENIUM	MG/KG	2.3 UJ	1.1 U	1 U	0.96 U	1.3 U	0.89 U
SILVER	MG/KG	1.3 UJ	0.49 U	0.84 UJ	0.96 UJ	0.81 UJ	0.78 UJ
SODIUM	MG/KG	382 UJ	316 UJ	272 UJ	621 JB	1070 JB	161 UJ
THALLIUM	MG/KG	0.93 UJ	0.43 UJ	0.4 UJ	0.38 UJ	0.54 UJ	0.36 UJ
VANADIUM	MG/KG	15.7 B	3.2 UJ	1.4 UJ	3.5 UJ	4.6 JB	3.5 JB
ZINC	MG/KG	12.3 U	4.1 U	6.6 U	15.9	4 U	8.6 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-WC05-SD-612B	6-WC06-SD-06B	6-WC06-SD-06M	6-WC06-SD-612B	6-WC06-SD-612M	6-WC07-SD-06B
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/27/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
	Lab Id:	00445-14	00429-01	00429-02	00429-03	00429-04	00429-07
Parameter	Units						
ALUMINUM	MG/KG	4130 J	9120	1990	6210	1390	8590
ANTIMONY	MG/KG	2.8 UJ	9.2 U	5 U	8.9 U	3 U	22.7 U
ARSENIC	MG/KG	0.67 U	3.6 B	1 B	2 U	0.58 U	5.2 U
BARIUM	MG/KG	23.4 JB	14.8 B	4.2 JB	14.3 B	2.5 JB	12 B
BERYLLIUM	MG/KG	0.28 U	0.35 B	0.12 B	0.41 B	0.1 B	0.78 B
CADMIUM	MG/KG	0.37 U	2.4 UJ	0.71 UJ	1.6 UJ	0.48 UJ	3.1 UJ
CALCIUM	MG/KG	1530 J	3590	1410 B	3930	1740	8290
CHROMIUM	MG/KG	2.4	5.4 B	1.5 B	3.2 B	1.2 B	5.8 UJ
COBALT	MG/KG	0.89 JB	1.3 U	0.72 U	1.6 JB	0.44 U	3.2 U
COPPER	MG/KG	0.77 JB	13.3 JB	7.3 JB	5.2 JB	1.3 JB	7.2 JB
IRON	MG/KG	1010 J	8080	1480	5410	978	3980
LEAD	MG/KG	3.4 J	70.9	19.9	12.4	5.7	18.8
MAGNESIUM	MG/KG	138 UJ	2250 B	438 B	1110 B	427 B	5650 B
MANGANESE	MG/KG	4.4	25.8	5.8	16.3	5.9	13.1 B
MERCURY	MG/KG	0.04 U	0.19 U	0.07 U	0.14 U	0.05 U	0.42 U
NICKEL	MG/KG	1.5 UJ	5.2 U	2.8 U	5 U	1.7 U	12.8 U
POTASSIUM	MG/KG	81.6 U	533 B	99.8 JB	318 B	124 B	545 B
SELENIUM	MG/KG	1.1 U	3.4 UJ	1.6 UJ	3.3 UJ	0.97 UJ	8.6 UJ
SILVER	MG/KG	0.8 UJ	2.6 UJ	0.72 U	2.2 UJ	0.86 UJ	7.2 UJ
SODIUM	MG/KG	468 JB	4220	481 JB	1630 JB	1530 J	6020 B
THALLIUM	MG/KG	0.44 UJ	1.4 UJ	0.66 UJ	1.3 UJ	0.39 UJ	3.4 UJ
VANADIUM	MG/KG	4.7 B	14.2 B	3.5 JB	9.6 JB	2.2 JB	16.7 B
ZINC	MG/KG	1.1 U	39.6	11.5	22.6	6.2	29.9 U

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-WC07-SD-06M	6-WC07-SD-612M	6-WC08-SD-06B	6-WC08-SD-06M	6-WC08-SD-612B	6-WC08-SD-612M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92	8/23/92
	Lab Id:	00429-08	00429-09	00429-13	00429-15	00429-16	00429-17
Parameter	Units						
ALUMINUM	MG/KG	975	539	10700	9810	4470	18300
ANTIMONY	MG/KG	5.2 U	2.8 U	8 U	6.2 U	5.1 U	5.3 U
ARSENIC	MG/KG	1 U	0.63 U	4.9 B	3.2 B	9.7	10.2
BARIUM	MG/KG	3.6 JB	2.8 JB	12.8 B	38.4 B	5.9 JB	110
BERYLLIUM	MG/KG	0.11 U	0.07 B	0.49 B	0.35 B	0.21 B	0.76 B
CADMIUM	MG/KG	0.93 UJ	0.4 UJ	3 UJ	1.8 UJ	1.4 UJ	2.8 UJ
CALCIUM	MG/KG	457 B	242 B	4560	3080	2080	5270
CHROMIUM	MG/KG	1.3 UJ	0.73 UJ	8.4	9.2	2.7 B	19.2
COBALT	MG/KG	0.74 U	0.4 U	1.1 U	0.88 U	0.73 U	2 JB
COPPER	MG/KG	0.7 U	0.89 JB	21.5	13.7 J	16.7 J	27.2
IRON	MG/KG	695	390	8680	7450	4090	11300
LEAD	MG/KG	8.7	1.5	97	44.1 J	49.7	156
MAGNESIUM	MG/KG	140 B	62.7 B	3620	1650 B	701 B	906 B
MANGANESE	MG/KG	3.7 B	3.1	27.8	21.3	12	28.4
MERCURY	MG/KG	0.07 U	0.05 U	0.14 U	0.17 U	0.11 U	0.37 U
NICKEL	MG/KG	2.9 U	1.6 U	4.5 U	3.5 U	2.9 U	7.4 JB
POTASSIUM	MG/KG	71.4 JB	38.5 JB	862 B	807 B	233 B	834 B
SELENIUM	MG/KG	1.7 UJ	1.1 U	3 UJ	1.9 UJ	1.7 UJ	1.9 UJ
SILVER	MG/KG	1.4 UJ	0.56 UJ	2.3 UJ	2.4 UJ	1.6 UJ	1.6 UJ
SODIUM	MG/KG	553 JB	224 JB	6740	3730	1140 JB	1150 JB
THALLIUM	MG/KG	0.68 UJ	0.42 UJ	1.2 UJ	0.76 UJ	0.66 UJ	7.8 UJ
VANADIUM	MG/KG	1.7 JB	0.82 JB	21.8 B	19.1 B	8.1 JB	33.7
ZINC	MG/KG	4.6 U	2.9 U	106	67.9	29.2	132

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-WC09-SD-06B	6-WC09-SD-06M	6-WC09-SD-612B	6-WC09-SD-612M	6-WC10-SD-06B	6-WC10-SD-06M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/23/92	8/23/92	8/23/92	8/23/92	8/22/92	8/22/92
	Lab Id:	00429-21	00429-22	00429-23	00429-24	00426-02	00426-04
Parameter	Units						
ALUMINUM	MG/KG	978	17200	8610	9160	4640	25400
ANTIMONY	MG/KG	3.6 U	17.2 U	11.7 U	6.2 U	82.6 UJ	29.7 UJ
ARSENIC	MG/KG	0.51 U	5.8 B	3.5 U	3.5 B	3.6 U	4.7 B
BARIUM	MG/KG	2.8 JB	19.8 B	15.4 B	10.9 B	35.4 U	23.6 B
BERYLLIUM	MG/KG	0.08 U	0.63 B	0.33 B	0.3 B	1.7 U	0.61 U
CADMIUM	MG/KG	0.49 U	3.3 UJ	1.6 U	1.1 UJ	6.7 UJ	1.8 UJ
CALCIUM	MG/KG	399 B	6150	10300	3410	6500 B	4180
CHROMIUM	MG/KG	1.7 B	17.7	8.2 B	9.6	8.4 U	28.5
COBALT	MG/KG	2.3 JB	3.3 JB	2.9 JB	1.6 JB	10.1 U	6.1 UJ
COPPER	MG/KG	11.9 J	33.5	4.4 JB	10.7 JB	11.8 UJ	20 UJ
IRON	MG/KG	789	14600	11600	7000	4610 J	13900
LEAD	MG/KG	4.9	106	8.8	37.4	22.4 J	68.9 J
MAGNESIUM	MG/KG	213 B	4520 B	730 B	1350 B	6630 B	4630
MANGANESE	MG/KG	3.2 B	50.2	42.5	20.9	11.8 JB	40.6
MERCURY	MG/KG	0.05 U	0.42 U	0.26 U	0.27 U	0.74 U	0.33 U
NICKEL	MG/KG	2.7 JB	9.7 U	6.6 U	4.3 JB	28.7 U	10.7 JB
POTASSIUM	MG/KG	65.5 JB	1390 B	419 B	628 B	829 B	2200 B
SELENIUM	MG/KG	1.3 UJ	6.1 U	4.1 U	2.6 U	6.1 U	3 UJ
SILVER	MG/KG	0.54 UJ	4.6 UJ	3 UJ	1.9 UJ	16.9 U	6.1 U
SODIUM	MG/KG	332 JB	8880	1380 JB	1110 JB	14900	11900
THALLIUM	MG/KG	0.51 U	2.4 U	1.6 U	1 U	2.4 U	1.2 U
VANADIUM	MG/KG	1.9 JB	41.5 B	12.7 JB	18.5 B	23.6 UJ	45.5 J
ZINC	MG/KG	388	137	17.1	43.6	33.1 B	69.6

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

Sample No:	6-WC10-SD-612M	6-WC11-SD-06B	6-WC11-SD-06M
Depth:	N/A	N/A	N/A
Date Sampled:	8/22/92	8/22/92	8/22/92
Lab Id:	00426-05	00426-10	00426-11

Parameter	Units			
ALUMINUM	MG/KG	8070	3470	12000
ANTIMONY	MG/KG	19.7 UJ	75.6 UJ	28.8 UJ
ARSENIC	MG/KG	1.8 B	8.9 B	4.4 JB
BARIUM	MG/KG	10.4 B	32.4 U	12.3 U
BERYLLIUM	MG/KG	0.4 U	1.5 U	0.59 U
CADMIUM	MG/KG	1.2 UJ	4.6 U	1.8 UJ
CALCIUM	MG/KG	2560	9350	4170
CHROMIUM	MG/KG	10	7.7 B	13.5
COBALT	MG/KG	2.8 UJ	10.8 UJ	4.1 UJ
COPPER	MG/KG	8 UJ	13.9 UJ	12.9 UJ
IRON	MG/KG	6810	3940	11600
LEAD	MG/KG	13.7 J	16.7 J	31.8 J
MAGNESIUM	MG/KG	1620 B	9840	3830
MANGANESE	MG/KG	26.5	12.3 JB	38.8
MERCURY	MG/KG	0.23 U	0.87 U	0.32 U
NICKEL	MG/KG	6.8 U	26.2 U	10 U
POTASSIUM	MG/KG	762 B	1040 B	1280 B
SELENIUM	MG/KG	2.2 UJ	9 UJ	3.6 UJ
SILVER	MG/KG	4 U	15.4 U	5.9 U
SODIUM	MG/KG	2380	18300	10300
THALLIUM	MG/KG	0.89 U	3.6 U	1.4 U
VANADIUM	MG/KG	14.1 UJ	20.1 UJ	25.3 UJ
ZINC	MG/KG	24.3	22.7 B	42.5

CLEJ-01272-3.13-08/20/93

SITE 6 WALLACE CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO--0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	MG/KG	NA	NA	539	25400	6-WC10-SD-06M	33/33
ANTIMONY	MG/KG	2.7 U	82.6 UJ	ND	ND		0/33
ARSENIC	MG/KG	0.51 U	5.2 U	1 B	10.2	6-WC08-SD-612M	15/33
BARIUM	MG/KG	12.3 U	35.4 U	2.5 JB	110	6-WC08-SD-612M	30/33
BERYLLIUM	MG/KG	0.07 U	1.7 U	0.07 B	0.78 B	6-WC07-SD-06B	13/33
CADMIUM	MG/KG	0.37 U	6.7 UJ	ND	ND		0/33
CALCIUM	MG/KG	NA	NA	242 B	90000 J	6-WC04-SD-06M	33/33
CHROMIUM	MG/KG	0.73 UJ	8.4 U	1.2 B	28.5	6-WC10-SD-06M	27/33
COBALT	MG/KG	0.4 U	10.8 UJ	0.6 JB	3.3 JB	6-WC09-SD-06M	13/33
COPPER	MG/KG	0.64 UJ	20 UJ	0.43 JB	53200	6-WC03-SD-06M	25/33
IRON	MG/KG	NA	NA	390	14600	6-WC09-SD-06M	33/33
LEAD	MG/KG	NA	NA	1.5	314 J	6-WC03-SD-06M	33/33
MAGNESIUM	MG/KG	138 UJ	138 UJ	50.5 B	9840	6-WC11-SD-06B	32/33
MANGANESE	MG/KG	2.4 UJ	2.4 UJ	3.1	50.2	6-WC09-SD-06M	32/33
MERCURY	MG/KG	0.03 U	0.87 U	ND	ND		0/33
NICKEL	MG/KG	1.5 UJ	28.7 U	2.7 JB	10.7 JB	6-WC10-SD-06M	5/33
POTASSIUM	MG/KG	74.8 U	97 U	38.5 JB	2200 B	6-WC10-SD-06M	28/33
SELENIUM	MG/KG	0.89 U	9 UJ	ND	ND		0/33
SILVER	MG/KG	0.44 UJ	16.9 U	7.3	7.3	6-WC03-SD-06M	1/33
SODIUM	MG/KG	27 UJ	382 UJ	224 JB	18300	6-WC11-SD-06B	26/33
THALLIUM	MG/KG	0.36 UJ	7.8 UJ	ND	ND		0/33
VANADIUM	MG/KG	1.4 UJ	25.3 UJ	0.82 JB	45.5 J	6-WC10-SD-06M	26/33
ZINC	MG/KG	1.1 U	29.9 U	6.2	926	6-WC03-SD-06M	19/33

CLEJ-01272-3.13-08/20/93

L.14

**Site 6 - Bear Head Creek Sediment,
Organic and Inorganic**

SITE 6 BEAR HEAD CRBEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH01-SD-06B	6-BH01-SD-06M	6-BH01-SD-612B	6-BH01-SD-612M	6-BH02-SD-06M	6-BH02-SD-612M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/23/92	10/23/92	10/23/92	10/23/92	8/28/92	8/28/92	
Lab Id:	00591-01	00591-02	00591-03	00591-04	00458-02	00458-03	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
BETA-BHC	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
DELTA-BHC	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
GAMMA-BHC(LINDANE)	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
HEPTACHLOR	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
ALDRIN	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
HEPTACHLOR EPOXIDE	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
ENDOSULFAN I	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
DIELDRIN	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.2 U	6 U
4,4'-DDE	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.7	6 U
ENDRIN	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.2 U	6 U
ENDOSULFAN II	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.2 U	6 U
4,4'-DDD	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.2 U	6 U
ENDOSULFAN SULFATE	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.2 U	6 U
4,4'-DDT	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.2 U	6 U
METHOXYCHLOR	UG/KG	33 UJ	36 UJ	33 UJ	32 UJ	27 U	31 U
ENDRIN KETONE	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.2 U	6 U
ENDRIN ALDEHYDE	UG/KG	6.5 UJ	6.9 UJ	6.5 UJ	6.3 UJ	5.2 U	6 U
ALPHA CHLORDANE	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
GAMMA CHLORDANE	UG/KG	3.3 UJ	3.6 UJ	3.3 UJ	3.2 UJ	2.7 U	3.1 U
TOXAPHENE	UG/KG	330 UJ	360 UJ	330 UJ	320 UJ	270 U	310 U
PCB-1016	UG/KG	65 UJ	69 UJ	65 UJ	63 UJ	52 U	60 U
PCB-1221	UG/KG	130 UJ	140 UJ	130 UJ	130 UJ	100 U	120 U
PCB-1232	UG/KG	65 UJ	69 UJ	65 UJ	63 UJ	52 U	60 U
PCB-1242	UG/KG	65 UJ	69 UJ	65 UJ	63 UJ	52 U	60 U
PCB-1248	UG/KG	65 UJ	69 UJ	65 UJ	63 UJ	52 U	60 U
PCB-1254	UG/KG	65 UJ	69 UJ	65 UJ	63 UJ	52 U	60 U
PCB-1260	UG/KG	65 UJ	69 UJ	65 UJ	63 UJ	52 U	60 U
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
BROMOMETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
VINYL CHLORIDE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
CHLOROETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
METHYLENE CHLORIDE	UG/KG	18 U	21 U	19 U	20 U	44 U	2 J
ACETONE	UG/KG	18 U	21 U	19 U	20 U	840	140
CARBON DISULFIDE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
1,1-DICHLOROETHENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
1,1-DICHLOROETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
1,2-DICHLOROETHENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
CHLOROFORM	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
1,2-DICHLOROETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
2-BUTANONE	UG/KG	18 U	21 U	19 U	20 U	15 J	3 J

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH01-SD-06B	6-BH01-SD-06M	6-BH01-SD-612B	6-BH01-SD-612M	6-BH02-SD-06M	6-BH02-SD-612M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	10/23/92	10/23/92	10/23/92	10/23/92	8/28/92	8/28/92
Lab Id:	00391-01	00391-02	00391-03	00591-04	00458-02	00458-03

Parameter	Units	6-BH01-SD-06B	6-BH01-SD-06M	6-BH01-SD-612B	6-BH01-SD-612M	6-BH02-SD-06M	6-BH02-SD-612M
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
CARBON TETRACHLORIDE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
BROMODICHLOROMETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
1,2-DICHLOROPROPANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
CIS-1,3-DICHLOROPROPENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
TRICHLOROETHENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
DIBROMOCHLOROMETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
1,1,2-TRICHLOROETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
BENZENE	UG/KG	5 J	21 U	19 U	20 U	44 U	13 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
BROMOFORM	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
4-METHYL-2-PENTANONE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
2-HEXANONE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
TETRACHLOROETHENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
TOLUENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
CHLOROBENZENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
ETHYLBENZENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
STYRENE	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
TOTAL XYLENES	UG/KG	18 U	21 U	19 U	20 U	44 U	13 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2-CHLOROPHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
1,3-DICHLOROBENZENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
1,4-DICHLOROBENZENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
1,2-DICHLOROBENZENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2-METHYLPHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
4-METHYLPHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
HEXACHLOROETHANE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
NITROBENZENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
ISOPHORONE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2-NITROPHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2,4-DIMETHYLPHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2,4-DICHLOROPHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
1,2,4-TRICHLOROBENZENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
NAPHTHALENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
4-CHLORANILINE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
HEXACHLOROBUTADIENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH01-SD-06B	6-BH01-SD-06M	6-BH01-SD-612B	6-BH01-SD-612M	6-BH02-SD-06M	6-BH02-SD-612M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	10/23/92	10/23/92	10/23/92	10/23/92	8/28/92	8/28/92	
Lab Id:	00591-01	00591-02	00591-03	00591-04	00458-02	00458-03	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2-METHYLNAPHTHALENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2,4,6-TRICHLOROPHENOL	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2,4,5-TRICHLOROPHENOL	UG/KG	1500 U	1700 U	1600 U	1500 U	1300 U	1500 U
2-CHLORONAPHTHALENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2-NITROANILINE	UG/KG	1500 U	1700 U	1600 U	1500 U	1300 U	1500 U
DIMETHYL PHTHALATE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
ACENAPHTHYLENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2,6-DINITROTOLUENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
3-NITROANILINE	UG/KG	1500 U	1700 U	1600 U	1500 U	1300 U	1500 U
ACENAPHTHENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2,4-DINITROPHENOL	UG/KG	1500 U	1700 U	1600 U	1500 U	1300 U	1500 U
4-NITROPHENOL	UG/KG	1500 U	1700 U	1600 UJ	1500 UJ	1300 U	1500 U
DIBENZOFURAN	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
2,4-DINITROTOLUENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
DIETHYL PHTHALATE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
FLUORENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
4-NITROANILINE	UG/KG	1500 U	1700 U	1600 U	1500 U	1300 U	1500 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1500 U	1700 U	1600 U	1500 U	1300 U	1500 U
N-NITROSODIPHENYLAMINE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
HEXACHLOROBENZENE	UG/KG	640 U	690 U	660 U	630 U	520 UJ	610 UJ
PENTACHLOROPHENOL	UG/KG	1500 U	1700 U	1600 U	1500 U	1300 U	1500 U
PHENANTHRENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
ANTHRACENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
DI-N-BUTYL PHTHALATE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
FLUORANTHENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
CARBAZOLE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
PYRENE	UG/KG	640 U	690 U	660 UJ	630 U	520 U	610 U
BUTYL BENZYL PHTHALATE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
3,3-DICHLOROBENZIDINE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
BENZO(A)ANTHRACENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
CHRYSENE	UG/KG	640 U	690 U	660 UJ	630 UJ	520 U	610 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
DI-N-OCTYL PHTHALATE	UG/KG	640 U	690 U	660 UJ	630 UJ	520 U	610 U
BENZO(B)FLUORANTHENE	UG/KG	640 U	690 U	660 UJ	630 U	520 U	610 U
BENZO(K)FLUORANTHENE	UG/KG	640 U	690 U	660 UJ	630 U	520 U	610 U
BENZO(A)PYRENE	UG/KG	640 U	690 U	660 U	630 U	520 U	610 U
INDENO(1,2,3-CD) PYRENE	UG/KG	640 U	690 U	660 U	630 U	520 UJ	610 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	640 U	690 U	660 U	630 U	520 UJ	610 UJ
BENZO(G,H,I)PERYLENE	UG/KG	640 U	690 U	660 U	630 U	520 UJ	610 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH03-SD-06B	6-BH03-SD-06M	6-BH03-SD-612B	6-BH03-SD-612M	6-BH04-SD-06B	6-BH04-SD-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/26/92	8/26/92
Lab Id:	00458-05	00458-07	00458-08	00458-09	00439-01	00439-02
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
BETA-BHC	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
DELTA-BHC	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
GAMMA-BHC(LINDANE)	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
HEPTACHLOR	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
ALDRIN	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
HEPTACHLOR EPOXIDE	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
ENDOSULFAN I	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
DIELDRIN	UG/KG	7 U	9.4 U	5.4 U	7.9 U	4.5 UJ
4,4'-DDE	UG/KG	7 U	68	5.4 U	22	41 J
ENDRIN	UG/KG	7 U	9.4 U	5.4 U	7.9 U	4.5 UJ
ENDOSULFAN II	UG/KG	7 U	9.4 U	5.4 U	7.9 U	4.5 UJ
4,4'-DDD	UG/KG	7 U	25	5.4 U	9.2 J	42 J
ENDOSULFAN SULFATE	UG/KG	7 U	9.4 U	5.4 U	7.9 U	4.5 UJ
4,4'-DDT	UG/KG	7 U	15	5.4 U	6.6 J	9.4 J
METHOXYCHLOR	UG/KG	36 U	49 U	28 U	40 U	23 UJ
ENDRIN KETONE	UG/KG	7 U	9.4 U	5.4 U	7.9 U	4.5 UJ
ENDRIN ALDEHYDE	UG/KG	7 U	9.4 U	5.4 U	7.9 U	4.5 UJ
ALPHA CHLORDANE	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
GAMMA CHLORDANE	UG/KG	3.6 U	4.9 U	2.8 U	4 U	2.3 UJ
TOXAPHENE	UG/KG	360 U	490 U	280 U	400 U	230 UJ
PCB-1016	UG/KG	70 U	94 U	54 U	79 U	45 UJ
PCB-1221	UG/KG	140 U	190 U	110 U	160 U	91 UJ
PCB-1232	UG/KG	70 U	94 U	54 U	79 U	45 UJ
PCB-1242	UG/KG	70 U	94 U	54 U	79 U	45 UJ
PCB-1248	UG/KG	70 U	94 U	54 U	79 U	45 UJ
PCB-1254	UG/KG	70 U	94 U	54 U	79 U	45 UJ
PCB-1260	UG/KG	70 U	170	54 U	160	110 J
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	15 U	30 U	16 U	28 U	880 U
BROMOMETHANE	UG/KG	15 U	30 U	16 U	28 U	880 U
VINYL CHLORIDE	UG/KG	15 U	30 U	16 U	28 U	880 U
CHLOROETHANE	UG/KG	15 U	30 U	16 U	28 U	880 U
METHYLENE CHLORIDE	UG/KG	3 J	30 U	4 J	7 J	880 U
ACETONE	UG/KG	34	99	210	340	9900 J
CARBON DISULFIDE	UG/KG	15 U	30 U	16 U	28 U	880 U
1,1-DICHLOROETHENE	UG/KG	15 U	30 U	16 U	28 U	880 U
1,1-DICHLOROETHANE	UG/KG	15 U	30 U	16 U	28 U	880 U
1,2-DICHLOROETHENE	UG/KG	15 U	30 U	16 U	28 U	880 U
CHLOROFORM	UG/KG	15 U	30 U	16 U	28 U	880 U
1,2-DICHLOROETHANE	UG/KG	15 U	30 U	16 U	28 U	880 U
2-BUTANONE	UG/KG	10 J	23 J	30	59	2400

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

	Sample No:	6-BH03-SD-06B	6-BH03-SD-06M	6-BH03-SD-612B	6-BH03-SD-612M	6-BH04-SD-06B	6-BH04-SD-06M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/26/92	8/26/92
	Lab Id:	00458-05	00458-07	00458-08	00458-09	00439-01	00439-02
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
CARBON TETRACHLORIDE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
BROMODICHLOROMETHANE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
1,2-DICHLOROPROPANE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
CIS-1,3-DICHLOROPROPENE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
TRICHLOROETHENE	UG/KG	5 J	30 U	16 U	28 U	12 U	880 U
DIBROMOCHLOROMETHANE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
1,1,2-TRICHLOROETHANE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
BENZENE	UG/KG	15 U	30 U	16 U	28 U	12 UJ	880 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	15 U	30 U	16 U	28 U	12 UJ	880 U
BROMOFORM	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
4-METHYL-2-PENTANONE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
2-HEXANONE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
TETRACHLOROETHENE	UG/KG	3 J	30 U	16 U	28 U	12 U	880 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
TOLUENE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
CHLOROBENZENE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
ETHYLBENZENE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
STYRENE	UG/KG	15 U	30 U	16 U	28 U	12 U	880 U
TOTAL XYLENES	UG/KG	3 J	30 U	16 U	28 U	12 U	880 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2-CHLOROPHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
1,3-DICHLOROBENZENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
1,4-DICHLOROBENZENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
1,2-DICHLOROBENZENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2-METHYLPHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	700 UJ	930 UJ	540 U	780 U	390 U	450 U
4-METHYLPHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
HEXACHLOROETHANE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
NITROBENZENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
ISOPHORONE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2-NITROPHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 UJ
2,4-DIMETHYLPHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2,4-DICHLOROPHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
1,2,4-TRICHLOROBENZENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
NAPHTHALENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
4-CHLORANILINE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
HEXACHLOROBUTADIENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH03-SD-06B	6-BH03-SD-06M	6-BH03-SD-612B	6-BH03-SD-612M	6-BH04-SD-06B	6-BH04-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/26/92	8/26/92	
Lab Id:	00458-05	00458-07	00458-08	00458-09	00439-01	00439-02	
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2-METHYLNAPHTHALENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2,4,6-TRICHLOROPHENOL	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2,4,5-TRICHLOROPHENOL	UG/KG	1700 U	2300 U	1300 U	1900 U	950 U	1100 U
2-CHLORONAPHTHALENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2-NITROANILINE	UG/KG	1700 U	2300 U	1300 U	1900 U	950 U	1100 U
DIMETHYL PHTHALATE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
ACENAPHTHYLENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2,6-DINITROTOLUENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
3-NITROANILINE	UG/KG	1700 U	2300 U	1300 U	1900 U	950 U	1100 U
ACENAPHTHENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2,4-DINITROPHENOL	UG/KG	1700 U	2300 U	1300 U	1900 U	950 U	1100 U
4-NITROPHENOL	UG/KG	1700 UJ	2300 UJ	1300 U	1900 U	950 U	1100 U
DIBENZOFURAN	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
2,4-DINITROTOLUENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
DIETHYL PHTHALATE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
FLUORENE	UG/KG	700 U	930 U	540 U	780 U	390 UJ	450 U
4-NITROANILINE	UG/KG	1700 U	2300 U	1300 U	1900 U	950 U	1100 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1700 U	2300 U	1300 U	1900 U	950 U	1100 U
N-NITRISODIPHENYLAMINE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
HEXACHLOROBENZENE	UG/KG	700 UJ	930 UJ	540 UJ	780 UJ	390 U	450 U
PENTACHLOROPHENOL	UG/KG	1700 U	2300 U	1300 U	1900 U	950 U	1100 U
PHENANTHRENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
ANTHRACENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
DI-N-BUTYL PHTHALATE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
FLUORANTHENE	UG/KG	700 U	930 U	540 U	780 U	390 UJ	450 U
CARBAZOLE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
PYRENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
BUTYL BENZYL PHTHALATE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
3,3-DICHLOROBENZIDINE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
BENZO(A)ANTHRACENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
CHRYSENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
BIS(2-EIHYLHEXYL)PHTHALATE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
DI-N-OCTYL PHTHALATE	UG/KG	700 U	930 U	540 U	780 U	390 UJ	450 U
BENZO(B)FLUORANTHENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
BENZO(K)FLUORANTHENE	UG/KG	700 U	930 U	540 U	780 U	390 U	450 U
BENZO(A)PYRENE	UG/KG	450 J	190 J	640	230 J	390 U	450 U
INDENO(1,2,3-CD) PYRENE	UG/KG	700 UJ	930 UJ	540 UJ	780 UJ	390 U	450 U
DIBENZ(A,H)ANTHRACENE	UG/KG	700 UJ	930 UJ	540 UJ	780 UJ	390 U	450 U
BENZO(G,H,I)PERYLENE	UG/KG	700 UJ	930 UJ	540 UJ	780 UJ	390 U	450 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH04-SD-612B	6-BH04-SD-612M	6-BH05-SD-06B	6-BH05-SD-06M	6-BH06-SD-06B	6-BH06-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00439-03	00439-04	00439-05	00439-06	00439-07	00439-09	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
BETA-BHC	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
DELTA-BHC	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
GAMMA-BHC(LINDANE)	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
HEPTACHLOR	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
ALDRIN	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
HEPTACHLOR EPOXIDE	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
ENDOSULFAN I	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
DIELDRIN	UG/KG	6.8 UJ	4.4 UJ	4.4 UJ	11 U	6.3 UJ	4.8 UJ
4,4'-DDE	UG/KG	35 J	53 J	30 J	32	68 J	24 J
ENDRIN	UG/KG	6.8 UJ	4.4 UJ	4.5 UJ	11 U	6.3 UJ	4.8 UJ
ENDOSULFAN II	UG/KG	6.8 UJ	4.4 UJ	4.5 UJ	11 U	6.3 UJ	4.8 UJ
4,4'-DDD	UG/KG	11 J	220 J	26 J	23	37 J	22 J
ENDOSULFAN SULFATE	UG/KG	6.8 UJ	4.4 UJ	4.5 UJ	11 U	6.3 UJ	4.8 UJ
4,4'-DDT	UG/KG	6.8 UJ	38 J	4.5 UJ	21 J	14 J	7 J
METHOXYCHLOR	UG/KG	35 UJ	23 UJ	23 UJ	58 U	32 UJ	25 UJ
ENDRIN KETONE	UG/KG	6.8 UJ	4.4 UJ	4.5 UJ	11 U	6.3 UJ	4.8 UJ
ENDRIN ALDEHYDE	UG/KG	6.8 UJ	4.4 UJ	4.5 UJ	11 U	6.3 UJ	4.8 UJ
ALPHA CHLORDANE	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
GAMMA CHLORDANE	UG/KG	3.5 UJ	2.3 UJ	2.3 UJ	5.8 U	3.2 UJ	2.5 UJ
TOXAPHENE	UG/KG	350 UJ	230 UJ	230 UJ	580 U	320 UJ	250 UJ
PCB-1016	UG/KG	68 UJ	44 UJ	45 UJ	110 U	63 UJ	48 UJ
PCB-1221	UG/KG	140 UJ	89 UJ	91 UJ	230 U	130 UJ	98 UJ
PCB-1232	UG/KG	68 UJ	44 UJ	45 UJ	110 U	63 UJ	48 UJ
PCB-1242	UG/KG	68 UJ	44 UJ	45 UJ	110 U	63 UJ	48 UJ
PCB-1248	UG/KG	68 UJ	44 UJ	45 UJ	110 U	63 UJ	48 UJ
PCB-1254	UG/KG	68 UJ	44 UJ	45 UJ	110 U	63 UJ	48 UJ
PCB-1260	UG/KG	240 J	370 J	64 J	110 J	180 J	69 J
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
BROMOMETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
VINYL CHLORIDE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
CHLOROETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	1990 U	37 U	20 U	14 U
ACETONE	UG/KG	50 J	91	3700 J	470 J	60 J	91 J
CARBON DISULFIDE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
CHLOROFORM	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
2-BUTANONE	UG/KG	5 J	12 U	2600	87 J	20 U	14 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH04-SD-612B	6-BH04-SD-612M	6-BH05-SD-06B	6-BH05-SD-06M	6-BH06-SD-06B	6-BH06-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00439-03	00439-04	00439-05	00439-06	00439-07	00439-09	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
TRICHLOROETHENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
BENZENE	UG/KG	12 U	12 UJ	1900 U	37 U	20 U	14 UJ
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 UJ	1900 U	37 U	20 U	14 UJ
BROMOFORM	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
4-METHYL-2-PENTANONE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
2-HEXANONE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
TOLUENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
CHLOROBENZENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
ETHYLBENZENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
STYRENE	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
TOTAL XYLENES	UG/KG	12 U	12 U	1900 U	37 U	20 U	14 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2-CHLOROPHENOL	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
1,3-DICHLOROBENZENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
1,4-DICHLOROBENZENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
1,2-DICHLOROBENZENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2-METHYLPHENOL	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
4-METHYLPHENOL	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
HEXACHLOROETHANE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
NITROBENZENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
ISOPHORONE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2-NITROPHENOL	UG/KG	690 UJ	450 UJ	450 U	1800 U	640 U	480 U
2,4-DIMETHYLPHENOL	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2,4-DICHLOROPHENOL	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
1,2,4-TRICHLOROBENZENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
NAPHTHALENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
4-CHLORANILINE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
HEXACHLOROBTADIENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH04-SD-612B	6-BH04-SD-612M	6-BH05-SD-06B	6-BH05-SD-06M	6-BH06-SD-06B	6-BH06-SD-06M	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	
Lab Id:	00439-03	00439-04	00439-05	00439-06	00439-07	00439-09	
Parameter	Units						
SEMIVOLATILES Cont.							
4-CHLORO-3-METHYLPHENOL	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2-METHYLNAPHTHALENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2,4,6-TRICHLOROPHENOL	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2,4,5-TRICHLOROPHENOL	UG/KG	1700 U	1100 U	1100 U	4400 U	1600 U	1200 U
2-CHLORONAPHTHALENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2-NITROANILINE	UG/KG	1700 U	1100 U	1100 U	4400 U	1600 U	1200 U
DIMETHYL PHTHALATE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
ACENAPHTHYLENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2,6-DINITROTOLUENE	UG/KG	690 UJ	450 U	450 U	1800 U	640 U	480 U
3-NITROANILINE	UG/KG	1700 U	1100 U	1100 U	4400 U	1600 U	1200 U
ACENAPHTHENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2,4-DINITROPHENOL	UG/KG	1700 U	1100 U	1100 U	4400 U	1600 U	1200 U
4-NITROPHENOL	UG/KG	1700 U	1100 U	1100 U	4400 U	1600 U	1200 U
DIBENZOFURAN	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
2,4-DINITROTOLUENE	UG/KG	690 UJ	450 UJ	450 U	1800 U	640 U	480 U
DIETHYL PHTHALATE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
FLUORENE	UG/KG	690 U	450 U	450 UJ	1800 UJ	640 U	480 UJ
4-NITROANILINE	UG/KG	1700 U	1100 U	1100 U	4400 U	1600 U	1200 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1700 U	1100 U	1100 U	4400 U	1600 U	1200 U
N-NITRISODIPHENYLAMINE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
HEXACHLOROBENZENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
PENTACHLOROPHENOL	UG/KG	1700 U	1100 U	1100 U	4400 U	1600 U	1200 U
PHENANTHRENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
ANTHRACENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
DI-N-BUTYL PHTHALATE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
FLUORANTHENE	UG/KG	690 U	450 U	450 UJ	1800 UJ	640 U	480 UJ
CARBAZOLE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
PYRENE	UG/KG	690 U	60 J	450 U	1800 U	76 J	480 U
BUTYL BENZYL PHTHALATE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
3,3-DICHLOROBENZIDINE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
BENZO(A)ANTHRACENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
CHRYSENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
DI-N-OCTYL PHTHALATE	UG/KG	690 U	450 U	450 UJ	1800 UJ	640 U	480 UJ
BENZO(B)FLUORANTHENE	UG/KG	690 U	450 U	450 U	1800 U	96 J	480 U
BENZO(K)FLUORANTHENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
BENZO(A)PYRENE	UG/KG	93 J	100 J	450 U	1800 U	640 U	480 U
INDENO(1,2,3-CD) PYRENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
DIBENZ(A,H)ANTHRACENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U
BENZO(G,H,I)PERYLENE	UG/KG	690 U	450 U	450 U	1800 U	640 U	480 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH07-SD-06B	6-BH07-SD-06M
Depth:	N/A	N/A
Date Sampled:	8/27/92	8/27/92
Lab Id:	00445-01	00445-02

Parameter	Units		
<u>PESTICIDE/PCBS</u>			
ALPHA-BHC	UG/KG	51 U	19 U
BETA-BHC	UG/KG	51 U	19 U
DELTA-BHC	UG/KG	51 U	19 U
GAMMA-BHC(LINDANE)	UG/KG	51 U	19 U
HEPTACHLOR	UG/KG	51 U	19 U
ALDRIN	UG/KG	51 U	19 U
HEPTACHLOR EPOXIDE	UG/KG	51 U	19 U
ENDOSULFAN I	UG/KG	51 U	19 U
DIELDRIN	UG/KG	99 U	37 U
4,4'-DDE	UG/KG	99 U	37 U
ENDRIN	UG/KG	99 U	37 U
ENDOSULFAN II	UG/KG	99 U	37 U
4,4'-DDD	UG/KG	99 U	37 U
ENDOSULFAN SULFATE	UG/KG	99 U	37 U
4,4'-DDT	UG/KG	99 U	37 U
METHOXYCHLOR	UG/KG	510 U	190 U
ENDRIN KETONE	UG/KG	99 U	37 U
ENDRIN ALDEHYDE	UG/KG	99 U	37 U
ALPHA CHLORDANE	UG/KG	51 U	19 U
GAMMA CHLORDANE	UG/KG	51 U	19 U
TOXAPHENE	UG/KG	5100 U	1900 U
PCB-1016	UG/KG	990 U	370 U
PCB-1221	UG/KG	2000 U	740 U
PCB-1232	UG/KG	990 U	370 U
PCB-1242	UG/KG	990 U	370 U
PCB-1248	UG/KG	990 U	370 U
PCB-1254	UG/KG	990 U	370 U
PCB-1260	UG/KG	990 U	370 U
<u>VOLATILES</u>			
CHLOROMETHANE	UG/KG	83 U	71 U
BROMOMETHANE	UG/KG	83 U	71 U
VINYL CHLORIDE	UG/KG	83 U	71 U
CHLOROETHANE	UG/KG	83 U	71 U
METHYLENE CHLORIDE	UG/KG	83 U	71 U
ACETONE	UG/KG	110 UJ	180 UJ
CARBON DISULFIDE	UG/KG	83 U	71 U
1,1-DICHLOROETHENE	UG/KG	83 UJ	71 U
1,1-DICHLOROETHANE	UG/KG	83 U	71 UJ
1,2-DICHLOROETHENE	UG/KG	83 U	71 U
CHLOROFORM	UG/KG	83 U	71 U
1,2-DICHLOROETHANE	UG/KG	83 U	71 U
2-BUTANONE	UG/KG	83 U	71 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH07-SD-06B	6-BH07-SD-06M
Depth:	N/A	N/A
Date Sampled:	8/27/92	8/27/92
Lab Id:	00445-01	00445-02

Parameter	Units		
<u>VOLATILES Cont.</u>			
1,1,1-TRICHLOROETHANE	UG/KG	83 U	71 U
CARBON TETRACHLORIDE	UG/KG	83 U	71 U
BROMODICHLOROMETHANE	UG/KG	83 U	71 U
1,2-DICHLOROPROPANE	UG/KG	83 U	71 U
CIS-1,3-DICHLOROPROPENE	UG/KG	83 UJ	71 U
TRICHLOROETHENE	UG/KG	83 U	150
DIBROMOCHLOROMETHANE	UG/KG	83 U	71 U
1,1,2-TRICHLOROETHANE	UG/KG	83 U	71 U
BENZENE	UG/KG	83 U	71 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	83 U	71 U
BROMOFORM	UG/KG	83 U	71 U
4-METHYL-2-PENTANONE	UG/KG	83 U	71 U
2-HEXANONE	UG/KG	83 U	71 U
TETRACHLOROETHENE	UG/KG	83 U	71 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	83 U	71 U
TOLUENE	UG/KG	83 U	71 U
CHLOROBENZENE	UG/KG	83 U	71 U
ETHYLBENZENE	UG/KG	83 U	57 J
STYRENE	UG/KG	83 U	71 U
TOTAL XYLENES	UG/KG	83 U	380
<u>SEMIVOLATILES</u>			
PHENOL	UG/KG	3300 U	3600 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	3300 U	3600 U
2-CHLOROPHENOL	UG/KG	3300 U	3600 U
1,3-DICHLOROBENZENE	UG/KG	3300 U	3600 U
1,4-DICHLOROBENZENE	UG/KG	340 J	370 J
1,2-DICHLOROBENZENE	UG/KG	3300 U	3600 U
2-METHYLPHENOL	UG/KG	3300 U	3600 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	3300 U	3600 U
4-METHYLPHENOL	UG/KG	3300 U	3600 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	3300 U	3600 U
HEXACHLOROETHANE	UG/KG	3300 U	3600 U
NITROBENZENE	UG/KG	3300 U	3600 U
ISOPHORONE	UG/KG	3300 U	3600 U
2-NITROPHENOL	UG/KG	3300 U	3600 U
2,4-DIMETHYLPHENOL	UG/KG	3300 U	3600 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	3300 U	3600 U
2,4-DICHLOROPHENOL	UG/KG	3300 U	3600 U
1,2,4-TRICHLOROBENZENE	UG/KG	3300 U	3600 U
NAPHTHALENE	UG/KG	3300 U	3600 U
4-CHLORANILINE	UG/KG	3300 U	3600 U
HEXACHLOROBUTADIENE	UG/KG	3300 U	3600 U

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-BH07-SD-06B	6-BH07-SD-06M
Depth:	N/A	N/A
Date Sampled:	8/27/92	8/27/92
Lab Id:	00445-01	00445-02

Parameter	Units		
<u>SEMIVOLATILES Cont.</u>			
4-CHLORO-3-METHYLPHENOL	UG/KG	3300 U	3600 U
2-METHYLNAPHTHALENE	UG/KG	3300 U	3600 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	3300 U	3600 U
2,4,6-TRICHLOROPHENOL	UG/KG	3300 U	3600 U
2,4,5-TRICHLOROPHENOL	UG/KG	7900 U	8800 U
2-CHLORONAPHTHALENE	UG/KG	3300 U	3600 U
2-NITROANILINE	UG/KG	7900 U	8800 U
DIMETHYL PHTHALATE	UG/KG	3300 U	3600 U
ACENAPHTHYLENE	UG/KG	3300 U	3600 U
2,6-DINITROTOLUENE	UG/KG	3300 U	3600 U
3-NITROANILINE	UG/KG	7900 U	8800 U
ACENAPHTHENE	UG/KG	3300 U	3600 U
2,4-DINITROPHENOL	UG/KG	7900 U	8800 U
4-NITROPHENOL	UG/KG	7900 U	8800 U
DIBENZOFURAN	UG/KG	3300 U	3600 U
2,4-DINITROTOLUENE	UG/KG	3300 U	3600 U
DIETHYL PHTHALATE	UG/KG	3300 U	3600 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	3300 U	3600 U
FLUORENE	UG/KG	3300 U	3600 U
4-NITROANILINE	UG/KG	7900 U	8800 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	7900 U	8800 U
N-NITRISODIPHENYLAMINE	UG/KG	3300 U	3600 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	3300 U	3600 U
HEXACHLOROBENZENE	UG/KG	3300 U	3600 U
PENTACHLOROPHENOL	UG/KG	7900 U	8800 U
PHENANTHRENE	UG/KG	3300 U	3600 U
ANTHRACENE	UG/KG	3300 U	3600 U
DI-N-BUTYL PHTHALATE	UG/KG	3300 U	3600 U
FLUORANTHENE	UG/KG	3300 U	3600 U
CARBAZOLE	UG/KG	3300 U	3600 U
PYRENE	UG/KG	3300 U	3600 U
BUTYL BENZYL PHTHALATE	UG/KG	3300 U	3600 U
3,3-DICHLOROBENZIDINE	UG/KG	3300 U	3600 U
BENZO(A)ANTHRACENE	UG/KG	3300 U	3600 U
CHRYSENE	UG/KG	3300 U	3600 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	3300 U	3600 U
DI-N-OCTYL PHTHALATE	UG/KG	3300 U	3600 UJ
BENZO(B)FLUORANTHENE	UG/KG	3300 U	3600 UJ
BENZO(K)FLUORANTHENE	UG/KG	3300 U	3600 UJ
BENZO(A)PYRENE	UG/KG	3300 U	3600 UJ
INDENO(1,2,3-CD) PYRENE	UG/KG	3300 U	3600 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	3300 U	3600 UJ
BENZO(G,H,I)PERYLENE	UG/KG	3300 U	3600 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2 U	51 U	ND	ND		0/20
BETA-BHC	UG/KG	2 U	51 U	ND	ND		0/20
DELTA-BHC	UG/KG	2 U	51 U	ND	ND		0/20
GAMMA-BHC(LINDANE)	UG/KG	2 U	51 U	ND	ND		0/20
HEPTACHLOR	UG/KG	2 U	51 U	ND	ND		0/20
ALDRIN	UG/KG	2 U	51 U	ND	ND		0/20
HEPTACHLOR EPOXIDE	UG/KG	2 U	51 U	ND	ND		0/20
ENDOSULFAN I	UG/KG	2 U	51 U	ND	ND		0/20
DIELDRIN	UG/KG	3.9 U	99 U	ND	ND		0/20
4,4'-DDE	UG/KG	5.4 U	99 U	5.7	68	6-BH06-SD-06B	11/20
ENDRIN	UG/KG	3.9 U	99 U	ND	ND		0/20
ENDOSULFAN II	UG/KG	3.9 U	99 U	ND	ND		0/20
4,4'-DDD	UG/KG	5.2 U	99 U	8.4 J	220 J	6-BH04-SD-612M	10/20
ENDOSULFAN SULFATE	UG/KG	3.9 U	99 U	ND	ND		0/20
4,4'-DDT	UG/KG	4.5 UJ	99 U	6.6 J	38 J	6-BH04-SD-612M	8/20
METHOXYCHLOR	UG/KG	20 U	510 U	ND	ND		0/20
ENDRIN KETONE	UG/KG	3.9 U	99 U	ND	ND		0/20
ENDRIN ALDEHYDE	UG/KG	3.9 U	99 U	ND	ND		0/20
ALPHA CHLORDANE	UG/KG	2 U	51 U	14 J	14 J	6-BH06-SD-06B	1/20
GAMMA CHLORDANE	UG/KG	2 U	51 U	ND	ND		0/20
TOXAPHENE	UG/KG	200 U	5100 U	ND	ND		0/20
PCB-1016	UG/KG	39 U	990 U	ND	ND		0/20
PCB-1221	UG/KG	79 U	2000 U	ND	ND		0/20
PCB-1232	UG/KG	39 U	990 U	ND	ND		0/20
PCB-1242	UG/KG	39 U	990 U	ND	ND		0/20
PCB-1248	UG/KG	39 U	990 U	ND	ND		0/20
PCB-1254	UG/KG	39 U	990 U	ND	ND		0/20
PCB-1260	UG/KG	52 U	990 U	51	370 J	6-BH07-SD-06M	10/20
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
BROMOMETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
VINYL CHLORIDE	UG/KG	12 U	1900 U	ND	ND		0/20
CHLOROETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
METHYLENE CHLORIDE	UG/KG	12 U	1990 U	2 J	7 J	6-BH03-SD-612M	4/20
ACETONE	UG/KG	18 U	180 UJ	34	9900 J	6-BH04-SD-06M	14/20
CARBON DISULFIDE	UG/KG	12 U	1900 U	ND	ND		0/20
1,1-DICHLOROETHENE	UG/KG	12 U	1900 U	ND	ND		0/20
1,1-DICHLOROETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
1,2-DICHLOROETHENE	UG/KG	12 U	1900 U	ND	ND		0/20
CHLOROFORM	UG/KG	12 U	1900 U	ND	ND		0/20
1,2-DICHLOROETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
2-BUTANONE	UG/KG	12 U	83 U	3 J	2600	6-BH05-SD-06B	10/20

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
CARBON TETRACHLORIDE	UG/KG	12 U	1900 U	ND	ND		0/20
BROMODICHLOROMETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
1,2-DICHLOROPROPANE	UG/KG	12 U	1900 U	ND	ND		0/20
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	1900 U	ND	ND		0/20
TRICHLOROETHENE	UG/KG	12 U	1900 U	5 J	150	6-BH07-SD-06M	2/20
DIBROMOCHLOROMETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
1,1,2-TRICHLOROETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
BENZENE	UG/KG	12 UJ	1900 U	5 J	5 J	6-BH01-SD-06B	1/20
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 UJ	1900 U	ND	ND		0/20
BROMOFORM	UG/KG	12 U	1900 U	ND	ND		0/20
4-METHYL-2-PENTANONE	UG/KG	12 U	1900 U	ND	ND		0/20
2-HEXANONE	UG/KG	12 U	1900 U	ND	ND		0/20
TETRACHLOROETHENE	UG/KG	12 U	1900 U	3 J	3 J	6-BH03-SD-06B	1/20
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	1900 U	ND	ND		0/20
TOLUENE	UG/KG	12 U	1900 U	ND	ND		0/20
CHLOROENZENE	UG/KG	12 U	1900 U	ND	ND		0/20
ETHYLBENZENE	UG/KG	12 U	1900 U	57 J	57 J	6-BH07-SD-06M	1/20
STYRENE	UG/KG	12 U	1900 U	ND	ND		0/20
TOTAL XYLENES	UG/KG	12 U	1900 U	3 J	380	6-BH07-SD-06M	2/20
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	390 U	3600 U	ND	ND		0/20
BIS(2-CHLOROETHYL) ETHER	UG/KG	390 U	3600 U	ND	ND		0/20
2-CHLOROPHENOL	UG/KG	390 U	3600 U	ND	ND		0/20
1,3-DICHLOROBENZENE	UG/KG	390 U	3600 U	ND	ND		0/20
1,4-DICHLOROBENZENE	UG/KG	390 U	1800 U	340 J	370 J	6-BH07-SD-06M	2/20
1,2-DICHLOROBENZENE	UG/KG	390 U	3600 U	ND	ND		0/20
2-METHYLPHENOL	UG/KG	390 U	3600 U	ND	ND		0/20
2,2'-OXYBIS (1-CHLOROPROPANE)	UG/KG	390 U	3600 U	ND	ND		0/20
4-METHYLPHENOL	UG/KG	390 U	3600 U	ND	ND		0/20
N-NITROSODI-N-PROPYLAMINE	UG/KG	390 U	3600 U	ND	ND		0/20
HEXACHLOROETHANE	UG/KG	390 U	3600 U	ND	ND		0/20
NITROBENZENE	UG/KG	390 U	3600 U	ND	ND		0/20
ISOPHORONE	UG/KG	390 U	3600 U	ND	ND		0/20
2-NITROPHENOL	UG/KG	390 U	3600 U	ND	ND		0/20
2,4-DIMETHYLPHENOL	UG/KG	390 U	3600 U	ND	ND		0/20
BIS(2-CHLOROETHOXY) METHANE	UG/KG	390 U	3600 U	ND	ND		0/20
2,4-DICHLOROPHENOL	UG/KG	390 U	3600 U	ND	ND		0/20
1,2,4-TRICHLOROBENZENE	UG/KG	390 U	3600 U	ND	ND		0/20
NAPHTHALENE	UG/KG	390 U	3600 U	ND	ND		0/20
4-CHLORANILINE	UG/KG	390 U	3600 U	ND	ND		0/20
HEXACHLOROBUTADIENE	UG/KG	390 U	3600 U	ND	ND		0/20

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	390 U	3600 U	ND	ND	0/20
2-METHYLNAPHTHALENE	UG/KG	390 U	3600 U	ND	ND	0/20
HEXACHLOROCYCLOPENTADIENE	UG/KG	390 U	3600 U	ND	ND	0/20
2,4,6-TRICHLOROPHENOL	UG/KG	390 U	3600 U	ND	ND	0/20
2,4,5-TRICHLOROPHENOL	UG/KG	950 U	8800 U	ND	ND	0/20
2-CHLORONAPHTHALENE	UG/KG	390 U	3600 U	ND	ND	0/20
2-NITROANILINE	UG/KG	950 U	8800 U	ND	ND	0/20
DIMETHYL PHTHALATE	UG/KG	390 U	3600 U	ND	ND	0/20
ACENAPHTHYLENE	UG/KG	390 U	3600 U	ND	ND	0/20
2,6-DINITROTOLUENE	UG/KG	390 U	3600 U	ND	ND	0/20
3-NITROANILINE	UG/KG	950 U	8800 U	ND	ND	0/20
ACENAPHTHENE	UG/KG	390 U	3600 U	ND	ND	0/20
2,4-DINITROPHENOL	UG/KG	950 U	8800 U	ND	ND	0/20
4-NITROPHENOL	UG/KG	950 U	8800 U	ND	ND	0/20
DIBENZOFURAN	UG/KG	390 U	3600 U	ND	ND	0/20
2,4-DINITROTOLUENE	UG/KG	390 U	3600 U	ND	ND	0/20
DIETHYL PHTHALATE	UG/KG	390 U	3600 U	ND	ND	0/20
4-CHLOROPHENYL PHENYL ETHER	UG/KG	390 U	3600 U	ND	ND	0/20
FLUORENE	UG/KG	390 UJ	3600 U	ND	ND	0/20
4-NITROANILINE	UG/KG	950 U	8800 U	ND	ND	0/20
4,6-DINITRO-2-METHYLPHENOL	UG/KG	950 U	8800 U	ND	ND	0/20
N-NITRISODIPHENYLAMINE	UG/KG	390 U	3600 U	ND	ND	0/20
4-BROMOPHENYL PHENYL ETHER	UG/KG	390 U	3600 U	ND	ND	0/20
HEXACHLOROBENZENE	UG/KG	390 U	3600 U	ND	ND	0/20
PENTACHLOROPHENOL	UG/KG	950 U	8800 U	ND	ND	0/20
PHENANTHRENE	UG/KG	390 U	3600 U	ND	ND	0/20
ANTHRACENE	UG/KG	390 U	3600 U	ND	ND	0/20
DI-N-BUTYL PHTHALATE	UG/KG	390 U	3600 U	ND	ND	0/20
FLUORANTHENE	UG/KG	390 UJ	3600 UJ	ND	ND	0/20
CARBAZOLE	UG/KG	390 U	3600 U	ND	ND	0/20
PYRENE	UG/KG	390 U	3600 U	60 J	76 J	6-BH06-SD-06B 2/20
BUTYL BENZYL PHTHALATE	UG/KG	390 U	3600 U	ND	ND	0/20
3,3-DICHLOROBENZIDINE	UG/KG	390 U	3600 U	ND	ND	0/20
BENZO(A)ANTHRACENE	UG/KG	390 U	3600 U	ND	ND	0/20
CHRYSENE	UG/KG	390 U	3600 U	ND	ND	0/20
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	390 U	3600 U	ND	ND	0/20
DI-N-OCTYL PHTHALATE	UG/KG	390 UJ	3600 UJ	ND	ND	0/20
BENZO(B)FLUORANTHENE	UG/KG	390 U	3600 UJ	96 J	96 J	6-BH06-SD-06B 1/20
BENZO(K)FLUORANTHENE	UG/KG	390 U	3600 UJ	ND	ND	0/20
BENZO(A)PYRENE	UG/KG	390 U	3600 UJ	93 J	640	6-BH06-SD-06B 6/20
INDENO(1,2,3-CD) PYRENE	UG/KG	450 U	3600 UJ	40 J	40 J	6-BH04-SD-06B 1/20
DIBENZ(A,H)ANTHRACENE	UG/KG	390 U	3600 UJ	ND	ND	0/20
BENZO(G,H,I)PERYLENE	UG/KG	390 U	3600 UJ	ND	ND	0/20

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-BH01-SD-612B	6-BH01-SD-612M	6-BH01-SD-6B	6-BH01-SD-6M	6-BH02-SD-06M	6-BH02-SD-612M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	10/23/92	10/23/92	10/23/92	10/23/92	8/28/92	8/28/92
	Lab Id:	00591-03	00591-04	00591-01	00591-02	00458-02	00458-03
Parameter	Units						
ALUMINUM	MG/KG	6760	7790	5610	6360	3010	7780
ANTIMONY	MG/KG	4.7 UJ	5.9 U	4.9 UJ	4.8 U	3.8 U	4.6 U
ARSENIC	MG/KG	1 U	1.1 U	1.1 U	0.93 U	0.77 U	1.6 JB
BARIUM	MG/KG	9.7 JB	14.4 B	8.5 UJ	9.9 JB	12.5 B	30 B
BERYLLIUM	MG/KG	0.13 B	0.17 B	0.14 B	0.1 U	0.08 U	0.33 B
CADMIUM	MG/KG	0.51 UJ	0.8 UJ	0.86 UJ	0.65 UJ	0.54 JB	1.3 JB
CALCIUM	MG/KG	59.3 U	82.8 U	61.9 U	70.2 U	1410	3890
CHROMIUM	MG/KG	5.1	4.7	4.9	3.6	3.3 U	9.9
COBALT	MG/KG	0.53 U	0.84 U	0.55 U	0.69 U	1.1 UJ	2.6 UJ
COPPER	MG/KG	3.2 JB	10.1 JB	4.2 JB	6.2 JB	2.5 UJ	2.3 UJ
IRON	MG/KG	765	1590	638	956	1240	3150
LEAD	MG/KG	8.9	12.3	11.3	10.2	6.9	8.9
MAGNESIUM	MG/KG	128 B	160 B	103 B	130 B	77.9 B	187 B
MANGANESE	MG/KG	4.9	6 B	4.7	4.9 B	4.4 J	8.6 J
MERCURY	MG/KG	0.05 U	0.05 U	0.05 U	0.04 UJ	0.03 U	0.07 U
NICKEL	MG/KG	2.1 UJ	3.3 UJ	2.2 UJ	2.7 UJ	2.7 UJ	7.2 UJ
POTASSIUM	MG/KG	125 B	163 B	122 B	140 B	76.8 UJ	151 U
SELENIUM	MG/KG	1.7 UJ	1.9 U	1.8 UJ	1.6 UJ	1.3 U	2.9
SILVER	MG/KG	0.53 UJ	0.84 UJ	0.55 UJ	0.69 UJ	0.82 UJ	1.3 UJ
SODIUM	MG/KG	35.5 UJ	42.8 UJ	41.5 UJ	39.4 UJ	25.4 UJ	39.9 UJ
THALLIUM	MG/KG	0.69 U	0.76 U	0.73 U	0.62 U	0.51 U	0.65 UJ
VANADIUM	MG/KG	5.7 B	6.5 B	4.8 B	4.9 B	3.3 JB	14.1 B
ZINC	MG/KG	2.1 U	1.4 U	1.6 U	1.8 U	12	12.6

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-BH03-SD-06B	6-BH03-SD-06M	6-BH03-SD-612B	6-BH03-SD-612M	6-BH04-SD-06B	6-BH04-SD-06M
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/28/92	8/28/92	8/28/92	8/28/92	8/26/92	8/26/92
Lab Id:	00458-05	00458-07	00458-08	00458-09	00439-01	00439-02

Parameter	Units	6-BH03-SD-06B	6-BH03-SD-06M	6-BH03-SD-612B	6-BH03-SD-612M	6-BH04-SD-06B	6-BH04-SD-06M
ALUMINUM	MG/KG	13600 J	9210	15000	10800	465	570
ANTIMONY	MG/KG	4.4 U	7.8 U	4.5 U	5.8 U	10.2 U	11.3 U
ARSENIC	MG/KG	0.79 U	1.5 UJ	0.79 U	1.2 UJ	0.47 U	0.62 B
BARIUM	MG/KG	31.7 B	33.2 B	32.8 B	40.4 B	4.4 U	4.8 U
BERYLLIUM	MG/KG	0.63 B	0.56 B	0.97 B	0.42 B	0.21 U	0.23 U
CADMIUM	MG/KG	1.3 JB	1.1 JB	1.3 JB	1.7 JB	0.7 JB	0.69 U
CALCIUM	MG/KG	3340	4850	3280	5880	45600	8560
CHROMIUM	MG/KG	11.9	8.4	13.6	10	2.4	1.2 U
COBALT	MG/KG	2.8 UJ	1.7 UJ	3.2 UJ	2.5 UJ	1.3 U	1.4 U
COPPER	MG/KG	2.8 UJ	6.7 JB	0.97 UJ	7.1 JB	0.83 U	0.92 U
IRON	MG/KG	3050	4450	3030	4660	516	442
LEAD	MG/KG	19.1 J	45.3	20.8	46.1	2.9	7.7
MAGNESIUM	MG/KG	317 B	219 B	291 B	210 B	653 B	138 B
MANGANESE	MG/KG	11 J	14 J	8.1 J	15 J	28.7	6.3 J
MERCURY	MG/KG	0.05 U	0.08 U	0.08 U	0.11 U	0.1 U	0.11 U
NICKEL	MG/KG	4.7 UJ	4.4 U	4.2 UJ	5.8 UJ	3.5 U	3.9 U
POTASSIUM	MG/KG	225 B	215 U	288 B	176 U	79.8 U	88.3 U
SELENIUM	MG/KG	1.3 UJ	2.5 UJ	1.3 UJ	2.1 UJ	1.2 U	1.1 U
SILVER	MG/KG	0.63 UJ	2.2 UJ	0.65 UJ	1.2 UJ	2.1 U	2.3 U
SODIUM	MG/KG	61.8 UJ	73.5 UJ	83 UJ	59.5 UJ	86.5 JB	39.6 UJ
THALLIUM	MG/KG	0.53 UJ	1 U	0.53 UJ	0.83 UJ	0.47 UJ	0.45 U
VANADIUM	MG/KG	13.8 B	12.9 B	17.8	12.5 B	1.7 JB	1.5 JB
ZINC	MG/KG	11	30.4	6.4 B	34.5	5 U	7.7

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-BH04-SD-612B	6-BH04-SD-612M	6-BH05-SD-06B	6-BH05-SD-06M	6-BH06-SD-06B	6-BH06-SD-06M
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92	8/26/92
	Lab Id:	00439-03	00439-04	00439-05	00439-06	00439-07	00439-09
Parameter	Units						
ALUMINUM	MG/KG	1000	1300	1850	6230	3840	5260 J
ANTIMONY	MG/KG	9.4 U	10.6 U	11.5 U	13.1 U	11.9 U	31.7 UJ
ARSENIC	MG/KG	0.4 U	0.54 B	0.46 U	1.1 B	1 B	2.2 JB
BARIUM	MG/KG	8.1 JB	4.5 U	7.7 JB	27 B	17.9 B	25.1 JB
BERYLLIUM	MG/KG	0.19 U	0.22 U	0.24 U	0.3 B	0.24 U	0.65 UJ
CADMIUM	MG/KG	0.57 U	0.73 JB	0.71 U	1.8 J	1.1 JB	1.9 UJ
CALCIUM	MG/KG	7490	18000	1210	4070	4630	12300 J
CHROMIUM	MG/KG	3.4	2.8	2.3 B	6.6	5.5	9.2 J
COBALT	MG/KG	1.1 U	1.3 U	1.4 U	1.7 JB	1.5 U	3.9 UJ
COPPER	MG/KG	0.76 U	1.2 JB	2.2 JB	6.2 JB	5.2 JB	8.8 JB
IRON	MG/KG	1320	995	998	6250	3060	5920 J
LEAD	MG/KG	2.5	17.8	17.6	29	42	27 J
MAGNESIUM	MG/KG	118 B	295 B	57.6 B	180 B	178 B	302 JB
MANGANESE	MG/KG	4.8 J	10.4 J	3.8 J	12.4 J	19 J	27.5 J
MERCURY	MG/KG	0.1 U	0.11 U	0.15 U	0.14 U	0.13 U	0.38 UJ
NICKEL	MG/KG	3.2 U	3.7 U	4 U	4.5 U	4.1 U	11 UJ
POTASSIUM	MG/KG	73.1 U	82.6 U	90 U	156 B	121 B	248 UJ
SELENIUM	MG/KG	1 U	1 U	1.2 U	1.2 U	1.5 U	3.3 UJ
SILVER	MG/KG	1.9 U	2.2 U	2.4 U	2.7 U	2.4 U	6.5 UJ
SODIUM	MG/KG	28.2 UJ	62.4 UJ	35 UJ	48.3 UJ	42.4 UJ	93.7 JB
THALLIUM	MG/KG	0.4 U	0.42 UJ	0.46 U	0.5 UJ	0.61 U	1.3 UJ
VANADIUM	MG/KG	1.5 JB	2.2 B	3.2 JB	10.4 B	6.5 B	9 JB
ZINC	MG/KG	6.7	11.4	13.8	36.6	24.9	50.7 J

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-BH07-SD-06B	6-BH07-SD-06M	
Depth:	N/A	N/A	
Date Sampled:	8/27/92	8/27/92	
Lab Id:	00445-01	00445-02	

Parameter	Units		
ALUMINUM	MG/KG	12300 J	22100 J
ANTIMONY	MG/KG	21.3 U	23.7 U
ARSENIC	MG/KG	6.1 JB	4.7 B
BARIUM	MG/KG	10.5 JB	22.8 JB
BERYLLIUM	MG/KG	0.82 U	1.2 U
CADMIUM	MG/KG	4.5 UJ	4.7 JB
CALCIUM	MG/KG	9240 J	14400 J
CHROMIUM	MG/KG	10.8 B	16.4 B
COBALT	MG/KG	3.4 B	4 B
COPPER	MG/KG	28.1 B	23.8 B
IRON	MG/KG	15800 J	17100 J
LEAD	MG/KG	49.2 J	70.4 J
MAGNESIUM	MG/KG	9820 J	10500 J
MANGANESE	MG/KG	46.5	48.6
MERCURY	MG/KG	0.38 U	0.49 U
NICKEL	MG/KG	12 UJ	13.4 UJ
POTASSIUM	MG/KG	1930 B	1460 B
SELENIUM	MG/KG	7.6 U	7.5 U
SILVER	MG/KG	3 U	3.4 U
SODIUM	MG/KG	36200 J	15500 J
THALLIUM	MG/KG	3 UJ	3 UJ
VANADIUM	MG/KG	45.9 B	54.1 B
ZINC	MG/KG	77.1	82.4

CLEJ-01272-3.13-08/20/93

SITE 6 BEAR HEAD CREEK SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	MG/KG	NA	NA	465	22100 J	6-BH07-SD-06M	20/20
ANTIMONY	MG/KG	3.8 U	31.7 UJ	ND	ND		0/20
ARSENIC	MG/KG	0.4 U	1.5 UJ	0.54 B	6.1 JB	6-BH07-SD-06B	8/20
BARIUM	MG/KG	4.4 U	8.5 UJ	7.7 JB	40.4 B	6-BH03-SD-612M	16/20
BERYLLIUM	MG/KG	0.08 U	1.2 U	0.13 B	0.97 B	6-BH03-SD-612B	9/20
CADMIUM	MG/KG	0.51 UJ	4.5 UJ	0.54 JB	4.7 JB	6-BH07-SD-06M	11/20
CALCIUM	MG/KG	59.3 U	82.8 U	1210	45600	6-BH04-SD-06B	16/20
CHROMIUM	MG/KG	1.2 U	3.3 U	2.3 B	16.4 B	6-BH07-SD-06M	18/20
COBALT	MG/KG	0.53 U	3.9 UJ	1.7 JB	4 B	6-BH07-SD-06M	3/20
COPPER	MG/KG	0.76 U	2.8 UJ	1.2 JB	28.1 B	6-BH07-SD-06B	13/20
IRON	MG/KG	NA	NA	442	17100 J	6-BH07-SD-06M	20/20
LEAD	MG/KG	NA	NA	2.5	70.4 J	6-BH07-SD-06M	20/20
MAGNESIUM	MG/KG	NA	NA	57.6 B	10500 J	6-BH07-SD-06M	20/20
MANGANESE	MG/KG	NA	NA	3.8 J	48.6	6-BH07-SD-06M	20/20
MERCURY	MG/KG	0.03 U	0.49 U	ND	ND		0/20
NICKEL	MG/KG	2.1 UJ	13.4 UJ	ND	ND		0/20
POTASSIUM	MG/KG	73.1 U	248 UJ	121 B	1930 B	6-BH07-SD-06B	10/20
SELENIUM	MG/KG	1 U	7.6 U	2.9	2.9	6-BH02-SD-612M	1/20
SILVER	MG/KG	0.53 UJ	6.5 UJ	ND	ND		0/20
SODIUM	MG/KG	25.4 UJ	83 UJ	86.5 JB	36200 J	6-BH07-SD-06B	4/20
THALLIUM	MG/KG	0.4 U	3 UJ	ND	ND		0/20
VANADIUM	MG/KG	NA	NA	1.5 JB	54.1 B	6-BH07-SD-06M	20/20
ZINC	MG/KG	1.4 U	5 U	6.4 B	82.4	6-BH07-SD-06M	15/20

CLEJ-01272-3.13-08/20/93

L.15

Site 6 - Ravine Sediment, Organic and Inorganic

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO--0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV1-SD-06	6-RV2-SD-06	6-RV3-SD-06	6-RV3-SD-612	6-RV4-SD-06	6-RV4-SD-612	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/25/92	8/25/92	8/24/92	8/24/92	8/24/92	8/24/92	
Lab Id:	00439-11	00439-13	00437-04	00437-05	00437-08	00437-09	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
BETA-BHC	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
DELTA-BHC	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
GAMMA-BHC(LINDANE)	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
HEPTACHLOR	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
ALDRIN	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
HEPTACHLOR EPOXIDE	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
ENDOSULFAN I	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
DIELDRIN	UG/KG	43 J	4.1 UJ	24 U	8.1 J	4.1 UJ	4 UJ
4,4'-DDE	UG/KG	4.7 U	120 J	24 U	53 J	4.1 UJ	4 UJ
ENDRIN	UG/KG	5.1 J	4.1 UJ	24 U	8.1 U	4.1 UJ	4 UJ
ENDOSULFAN II	UG/KG	4.7 U	4.1 UJ	24 U	8.1 U	4.1 UJ	4 UJ
4,4'-DDD	UG/KG	4.7 U	45 J	24 U	8.1 U	9.4 J	4.1 J
ENDOSULFAN SULFATE	UG/KG	4.7 U	4.1 UJ	24 U	8.1 U	4.1 UJ	4 UJ
4,4'-DDT	UG/KG	4.7 U	130 J	210 J	51	14 J	4 UJ
METHOXYCHLOR	UG/KG	24 U	21 UJ	130 U	42 U	21 UJ	21 UJ
ENDRIN KETONE	UG/KG	4.7 U	4.1 UJ	24 U	8.1 U	4.1 UJ	4 UJ
ENDRIN ALDEHYDE	UG/KG	7.8	4.1 UJ	24 U	8.1 U	4.1 UJ	4 UJ
ALPHA CHLORDANE	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
GAMMA CHLORDANE	UG/KG	2.4 U	2.1 UJ	13 U	4.2 U	2.1 UJ	2.1 UJ
TOXAPHENE	UG/KG	240 U	210 UJ	1300 U	420 U	210 UJ	210 UJ
PCB-1016	UG/KG	47 U	41 UJ	240 U	81 U	41 UJ	40 UJ
PCB-1221	UG/KG	95 U	83 UJ	490 U	160 U	82 UJ	82 UJ
PCB-1232	UG/KG	47 U	41 UJ	240 U	81 U	41 UJ	40 UJ
PCB-1242	UG/KG	47 U	41 UJ	240 U	81 U	41 UJ	40 UJ
PCB-1248	UG/KG	47 U	41 UJ	240 U	81 U	41 UJ	40 UJ
PCB-1254	UG/KG	47 U	41 UJ	240 U	81 U	41 UJ	40 UJ
PCB-1260	UG/KG	360 J	92 J	190 J	81 U	41 UJ	40 UJ
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
BROMOMETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
VINYL CHLORIDE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
CHLOROETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
METHYLENE CHLORIDE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
ACETONE	UG/KG	62	12 U	60 UJ	12 UJ	180 J	9100 J
CARBON DISULFIDE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
1,1-DICHLOROETHENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
1,1-DICHLOROETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
1,2-DICHLOROETHENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
CHLOROFORM	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
1,2-DICHLOROETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
2-BUTANONE	UG/KG	14 U	12 U	12 U	12 U	12 U	2400 J

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV1-SD-06	6-RV2-SD-06	6-RV3-SD-06	6-RV3-SD-612	6-RV4-SD-06	6-RV4-SD-612	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/25/92	8/25/92	8/24/92	8/24/92	8/24/92	8/24/92	
Lab Id:	00439-11	00439-13	00437-04	00437-05	00437-08	00437-09	
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
CARBON TETRACHLORIDE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
BROMODICHLOROMETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
1,2-DICHLOROPROPANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
CIS-1,3-DICHLOROPROPENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
TRICHLOROETHENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
DIBROMOCHLOROMETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
1,1,2-TRICHLOROETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
BENZENE	UG/KG	14 UJ	12 UJ	12 U	12 U	12 U	750 UJ
TRANS-1,3-DICHLOROPROPENE	UG/KG	14 UJ	12 UJ	12 U	12 U	12 U	750 UJ
BROMOFORM	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
4-METHYL-2-PENTANONE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
2-HEXANONE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
TETRACHLOROETHENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
1,1,2,2-TETRACHLOROETHANE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
TOLUENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
CHLOROBENZENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
ETHYLBENZENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
STYRENE	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
TOTAL XYLENES	UG/KG	14 U	12 U	12 U	12 U	12 U	750 UJ
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
2-CHLOROPHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
1,3-DICHLOROBENZENE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
1,4-DICHLOROBENZENE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
1,2-DICHLOROBENZENE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
2-METHYLPHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
4-METHYLPHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
HEXACHLOROETHANE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
NITROBENZENE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
ISOPHORONE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
2-NITROPHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
2,4-DIMETHYLPHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
2,4-DICHLOROPHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
1,2,4-TRICHLOROBENZENE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
NAPHTHALENE	UG/KG	470 U	54 J	400 U	410 U	380 U	390 U
4-CHLORANILINE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U
HEXACHLOROBUTADIENE	UG/KG	470 U	410 U	400 U	410 U	380 U	390 U

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV1-SD-06	6-RV2-SD-06	6-RV3-SD-06	6-RV3-SD-612	6-RV4-SD-06	6-RV4-SD-612
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/25/92	8/25/92	8/24/92	8/24/92	8/24/92	8/24/92
Lab Id:	00439-11	00439-13	00437-04	00437-05	00437-08	00437-09
Parameter	Units					
SEMIVOLATILES Cont.						
4-CHLORO-3-METHYLPHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U
2-METHYLNAPHTHALENE	UG/KG	470 U	44 J	400 U	410 U	380 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	470 U	410 U	400 U	410 U	380 U
2,4,6-TRICHLOROPHENOL	UG/KG	470 U	410 U	400 U	410 U	380 U
2,4,5-TRICHLOROPHENOL	UG/KG	1100 U	1000 U	970 U	990 U	930 U
2-CHLORONAPHTHALENE	UG/KG	470 U	410 U	400 U	410 U	380 U
2-NITROANILINE	UG/KG	1100 U	1000 U	970 U	990 U	930 U
DIMETHYL PHTHALATE	UG/KG	470 U	410 U	400 U	410 U	380 U
ACENAPHTHYLENE	UG/KG	470 U	410 U	400 U	410 U	380 U
2,6-DINITROTOLUENE	UG/KG	470 U	410 U	400 U	410 U	380 U
3-NITROANILINE	UG/KG	1100 U	1000 U	970 U	990 U	930 U
ACENAPHTHENE	UG/KG	470 U	220 J	400 U	410 U	380 U
2,4-DINITROPHENOL	UG/KG	1100 U	1000 U	970 U	990 U	930 U
4-NITROPHENOL	UG/KG	1100 U	1000 U	970 U	990 U	930 U
DIBENZOFURAN	UG/KG	470 U	110 J	400 U	410 U	380 U
2,4-DINITROTOLUENE	UG/KG	470 U	410 U	400 U	410 U	380 U
DIETHYL PHTHALATE	UG/KG	470 U	410 U	400 U	410 U	380 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	470 U	410 U	400 U	410 U	380 U
FLUORENE	UG/KG	470 UJ	250 J	400 U	410 U	380 U
4-NITROANILINE	UG/KG	1100 U	1000 U	970 U	990 U	930 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	1100 U	1000 U	970 U	990 U	930 UJ
N-NITROSODIPHENYLAMINE	UG/KG	470 U	410 U	400 U	410 U	380 UJ
4-BROMOPHENYL PHENYL ETHER	UG/KG	470 U	410 U	400 U	410 U	380 UJ
HEXACHLOROBENZENE	UG/KG	470 U	410 U	400 UJ	410 UJ	380 UJ
PENTACHLOROPHENOL	UG/KG	1100 U	1000 U	970 UJ	990 UJ	930 UJ
PHENANTHRENE	UG/KG	50 J	1600	400 U	90 J	380 UJ
ANTHRACENE	UG/KG	470 U	480	400 U	410 U	380 UJ
DI-N-BUTYL PHTHALATE	UG/KG	470 U	410 U	400 U	410 U	380 UJ
FLUORANTHENE	UG/KG	84 J	1500 J	400 U	130 J	380 UJ
CARBAZOLE	UG/KG	470 U	170 J	400 U	410 U	380 UJ
PYRENE	UG/KG	130 J	2100	400 U	96 J	380 UR
BUTYL BENZYL PHTHALATE	UG/KG	470 U	410 U	400 U	410 U	380 UR
3,3-DICHLOROBENZIDINE	UG/KG	470 U	410 U	400 U	410 U	380 UR
BENZO(A)ANTHRACENE	UG/KG	61 J	1100	400 U	43 J	380 UR
CHRYSENE	UG/KG	85 J	1100	400 U	59 J	380 UR
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	470 U	410 U	200 J	480 U	380 UR
DI-N-OCTYL PHTHALATE	UG/KG	470 UJ	410 UJ	400 U	410 U	380 UR
BENZO(B)FLUORANTHENE	UG/KG	120 J	1200	400 U	54 J	380 UR
BENZO(K)FLUORANTHENE	UG/KG	470 U	440	400 U	410 U	380 UR
BENZO(A)PYRENE	UG/KG	70 J	1000	400 U	410 U	380 UR
INDENO(1,2,3-CD) PYRENE	UG/KG	57 J	710	400 U	410 U	380 UR
DIBENZ(A,H)ANTHRACENE	UG/KG	470 U	83 J	400 U	410 U	380 UR
BENZO(G,H,I)PERYLENE	UG/KG	57 J	680	400 U	410 U	380 UR

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV5-SD-06	6-RV6-SD-06	6-RV7-SD-06	6-RV7-SD-612	6-RV8-SD-06	
Depth:	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/25/92	8/25/92	8/25/92	8/25/92	8/25/92	
Lab Id:	00439-15	00437-11	00437-12	00437-14	00437-17	
Parameter	Units					
PESTICIDE/PCBS						
ALPHA-BHC	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
BETA-BHC	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
DELTA-BHC	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
GAMMA-BHC(LINDANE)	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
HEPTACHLOR	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
ALDRIN	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
HEPTACHLOR EPOXIDE	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
ENDOSULFAN I	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
DIELDRIN	UG/KG	4.1 UJ	37 U	8.9 U	4.3 UJ	4.3 U
4,4'-DDE	UG/KG	44 J	58 J	37 J	23 J	4.3 U
ENDRIN	UG/KG	4.1 UJ	37 U	8.9 U	4.3 UJ	4.3 U
ENDOSULFAN II	UG/KG	4.1 UJ	37 U	8.9 U	4.3 UJ	4.3 U
4,4'-DDD	UG/KG	9 J	37 U	36 J	34 J	4.3 U
ENDOSULFAN SULPATE	UG/KG	4.1 UJ	37 U	8.9 U	4.3 UJ	4.3 U
4,4'-DDT	UG/KG	19 J	170 J	60 J	19 J	4.3 U
METHOXYCHLOR	UG/KG	2.1 UJ	190 U	4.6 U	2.2 UJ	2.2 U
ENDRIN KETONE	UG/KG	4.1 UJ	37 U	8.9 U	4.3 UJ	4.3 U
ENDRIN ALDEHYDE	UG/KG	4.1 UJ	37 U	8.9 U	4.3 UJ	4.3 U
ALPHA CHLORDANE	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
GAMMA CHLORDANE	UG/KG	2.1 UJ	19 U	4.6 U	2.2 UJ	2.2 U
TOXAPHENE	UG/KG	210 UJ	1900 U	460 U	220 UJ	220 U
PCB-1016	UG/KG	41 UJ	370 U	89 U	43 UJ	43 U
PCB-1221	UG/KG	83 UJ	740 U	180 U	87 UJ	86 U
PCB-1232	UG/KG	41 UJ	370 U	89 U	43 UJ	43 U
PCB-1242	UG/KG	41 UJ	370 U	89 U	43 UJ	43 U
PCB-1248	UG/KG	41 UJ	370 U	89 U	43 UJ	43 U
PCB-1254	UG/KG	41 UJ	370 U	89 U	43 UJ	43 U
PCB-1260	UG/KG	79 J	370 U	29 J	41 J	43 U
VOLATILES						
CHLOROMETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
BROMOMETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
VINYL CHLORIDE	UG/KG	12 U	810 U	13 U	13 U	24 U
CHLOROETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
METHYLENE CHLORIDE	UG/KG	12 U	810 U	13 U	13 U	24 U
ACETONE	UG/KG	12 U	3400 J	15 UJ	67 UJ	340 J
CARBON DISULFIDE	UG/KG	12 U	810 U	13 U	13 U	24 U
1,1-DICHLOROETHENE	UG/KG	12 U	810 U	13 U	13 U	24 U
1,1-DICHLOROETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
1,2-DICHLOROETHENE	UG/KG	12 U	810 U	13 U	13 U	24 U
CHLOROFORM	UG/KG	12 U	810 U	13 U	13 U	24 U
1,2-DICHLOROETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
2-BUTANONE	UG/KG	12 U	2300	13 U	13 U	24 U

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV5-SD-06	6-RV6-SD-06	6-RV7-SD-06	6-RV7-SD-612	6-RV8-SD-06	
Depth:	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	8/25/92	8/25/92	8/25/92	8/25/92	8/25/92	
Lab Id:	00439-13	00437-11	00437-12	00437-14	00437-17	
Parameter	Units					
<u>VOLATILES Cont.</u>						
1,1,1-TRICHLOROETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
CARBON TETRACHLORIDE	UG/KG	12 U	810 U	13 U	13 U	24 U
BROMODICHLOROMETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
1,2-DICHLOROPROPANE	UG/KG	12 U	810 U	13 U	13 U	24 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	810 U	13 U	13 U	24 U
TRICHLOROETHENE	UG/KG	12 U	810 U	13 U	13 U	24 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
BENZENE	UG/KG	12 UJ	810 U	13 U	13 U	24 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 UJ	810 U	13 U	13 U	24 U
BROMOFORM	UG/KG	12 U	810 U	13 U	13 U	24 U
4-METHYL-2-PENTANONE	UG/KG	12 U	810 U	13 U	13 U	24 U
2-HEXANONE	UG/KG	12 U	810 U	13 U	13 U	24 U
TETRACHLOROETHENE	UG/KG	12 U	810 U	13 U	13 U	24 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	810 U	13 U	13 U	24 U
TOLUENE	UG/KG	12 U	810 U	13 U	13 U	24 U
CHLOROBENZENE	UG/KG	12 U	810 U	13 U	13 U	24 U
ETHYLBENZENE	UG/KG	12 U	810 U	13 U	13 U	24 U
STYRENE	UG/KG	12 U	810 U	13 U	13 U	24 U
TOTAL XYLENES	UG/KG	12 U	810 U	13 U	13 U	24 U
<u>SEMIVOLATILES</u>						
PHENOL	UG/KG	410 U	400 U	440 U	460 U	680 U
BIS(2-CHLOROETHYL) ETHER	UG/KG	410 U	400 U	440 U	460 U	680 U
2-CHLOROPHENOL	UG/KG	410 U	400 U	440 U	460 U	680 U
1,3-DICHLOROBENZENE	UG/KG	410 U	400 U	440 U	460 U	680 U
1,4-DICHLOROBENZENE	UG/KG	410 U	400 U	440 U	460 U	680 U
1,2-DICHLOROBENZENE	UG/KG	410 U	400 U	440 U	460 U	680 U
2-METHYLPHENOL	UG/KG	410 U	400 U	440 U	460 U	680 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	410 U	400 U	440 U	460 U	680 U
4-METHYLPHENOL	UG/KG	410 U	400 U	440 U	460 U	680 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	410 U	400 U	440 U	460 U	680 U
HEXACHLOROETHANE	UG/KG	410 U	400 U	440 U	460 U	680 U
NITROBENZENE	UG/KG	410 U	400 U	440 U	460 U	680 U
ISOPHORONE	UG/KG	410 U	400 U	440 U	460 U	680 U
2-NITROPHENOL	UG/KG	410 U	400 U	440 U	460 U	680 U
2,4-DIMETHYLPHENOL	UG/KG	410 U	400 U	440 U	460 U	680 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	410 U	400 U	440 U	460 U	680 U
2,4-DICHLOROPHENOL	UG/KG	410 U	400 U	440 U	460 U	680 U
1,2,4-TRICHLOROBENZENE	UG/KG	410 U	400 U	440 U	460 U	680 U
NAPHTHALENE	UG/KG	410 U	400 U	440 U	460 U	680 U
4-CHLORANILINE	UG/KG	410 U	400 U	440 U	460 U	680 U
HEXACHLOROBUTADIENE	UG/KG	410 U	400 U	440 U	460 U	680 U

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No:	6-RV5-SD-06	6-RV6-SD-06	6-RV7-SD-06	6-RV7-SD-612	6-RV8-SD-06
Depth:	N/A	N/A	N/A	N/A	N/A
Date Sampled:	8/25/92	8/25/92	8/25/92	8/25/92	8/25/92
Lab Id:	00439-15	00437-11	00437-12	00437-14	00437-17
Parameter	Units				
<u>SEMIVOLATILES Cont.</u>					
4-CHLORO-3-METHYLPHENOL	UG/KG	410 U	400 U	440 U	680 U
2-METHYLNAPHTHALENE	UG/KG	410 U	400 U	440 U	680 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	410 U	400 U	440 U	680 U
2,4,6-TRICHLOROPHENOL	UG/KG	410 U	400 U	440 U	680 U
2,4,5-TRICHLOROPHENOL	UG/KG	980 U	970 U	1100 U	1600 U
2-CHLORONAPHTHALENE	UG/KG	410 U	400 U	440 U	680 U
2-NITROANILINE	UG/KG	980 U	970 U	1100 U	1600 U
DIMETHYL PHTHALATE	UG/KG	410 U	400 U	440 U	680 U
ACENAPHTHYLENE	UG/KG	410 U	400 U	440 U	680 U
2,6-DINITROTOLUENE	UG/KG	410 U	400 U	440 U	680 U
3-NITROANILINE	UG/KG	980 U	970 U	1100 U	1600 U
ACENAPHTHENE	UG/KG	410 U	400 U	440 U	680 U
2,4-DINITROPHENOL	UG/KG	980 U	970 U	1100 U	1600 U
4-NITROPHENOL	UG/KG	980 U	970 U	1100 U	1600 U
DIBENZOFURAN	UG/KG	410 U	400 U	440 U	680 U
2,4-DINITROTOLUENE	UG/KG	410 U	400 U	440 U	680 U
DIETHYL PHTHALATE	UG/KG	410 U	400 U	440 U	680 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	410 U	400 U	440 U	680 U
FLUORENE	UG/KG	410 UJ	400 U	440 U	680 U
4-NITROANILINE	UG/KG	980 U	970 U	1100 U	1600 UJ
4,6-DINITRO-2-METHYLPHENOL	UG/KG	980 U	970 U	1100 U	1600 U
N-NITRISODIPHENYLAMINE	UG/KG	410 U	400 U	440 U	680 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	410 U	400 U	440 U	680 U
HEXACHLOROBENZENE	UG/KG	410 U	400 U	440 U	680 U
PENTACHLOROPHENOL	UG/KG	980 U	970 U	1100 U	1600 U
PHENANTHRENE	UG/KG	410 U	400 U	440 U	680 U
ANTHRACENE	UG/KG	410 U	400 U	440 U	680 U
DI-N-BUTYL PHTHALATE	UG/KG	410 U	400 U	440 UJ	680 U
FLUORANTHENE	UG/KG	410 UJ	400 U	440 U	680 U
CARBAZOLE	UG/KG	410 U	400 U	440 U	680 U
PYRENE	UG/KG	410 U	400 U	440 U	120 J
BUTYL BENZYL PHTHALATE	UG/KG	410 U	400 U	440 U	680 UJ
3,3-DICHLOROBENZIDINE	UG/KG	410 U	400 U	440 U	680 UJ
BENZO(A)ANTHRACENE	UG/KG	410 U	400 U	440 U	680 UJ
CHRYSENE	UG/KG	410 U	400 U	440 U	680 UJ
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	410 U	400 U	440 U	680 UJ
DI-N-OCTYL PHTHALATE	UG/KG	410 UJ	400 U	440 U	680 UJ
BENZO(B)FLUORANTHENE	UG/KG	410 U	400 U	440 U	110 J
BENZO(K)FLUORANTHENE	UG/KG	410 U	400 U	440 U	680 UJ
BENZO(A)PYRENE	UG/KG	410 U	400 U	440 U	89 J
INDENO(1,2,3-CD) PYRENE	UG/KG	410 U	400 U	440 U	680 UJ
DIBENZ(A,H)ANTHRACENE	UG/KG	410 U	400 U	440 U	680 UJ
BENZO(G,H,I)PERYLENE	UG/KG	410 U	400 U	440 U	680 UJ

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	2.1 UJ	19 U	ND	ND	0/11
BETA-BHC	UG/KG	2.1 UJ	19 U	ND	ND	0/11
DELTA-BHC	UG/KG	2.1 UJ	19 U	ND	ND	0/11
GAMMA-BHC(LINDANE)	UG/KG	2.1 UJ	19 U	ND	ND	0/11
HEPTACHLOR	UG/KG	2.1 UJ	19 U	ND	ND	0/11
ALDRIN	UG/KG	2.1 UJ	19 U	ND	ND	0/11
HEPTACHLOR EPOXIDE	UG/KG	2.1 UJ	19 U	ND	ND	0/11
ENDOSULFAN I	UG/KG	2.1 UJ	19 U	ND	ND	0/11
DIELDRIN	UG/KG	4 UJ	37 U	8.1 J	43 J	6-RV1-SD-06 2/11
4,4'-DDE	UG/KG	4 UJ	24 U	23 J	120 J	6-RV2-SD-06 6/11
ENDRIN	UG/KG	4 UJ	37 U	5.1 J	5.1 J	6-RV1-SD-06 1/11
ENDOSULFAN II	UG/KG	4 UJ	37 U	ND	ND	0/11
4,4'-DDD	UG/KG	4.3 U	37 U	4.1 J	45 J	6-RV2-SD-06 6/11
ENDOSULFAN SULFATE	UG/KG	4 UJ	37 U	ND	ND	0/11
4,4'-DDT	UG/KG	4 UJ	4.7 U	14 J	210 J	6-RV3-SD-06 8/11
METHOXYCHLOR	UG/KG	21 UJ	190 U	ND	ND	0/11
ENDRIN KETONE	UG/KG	4 UJ	37 U	ND	ND	0/11
ENDRIN ALDEHYDE	UG/KG	4 UJ	37 U	7.8	7.8	6-RV1-SD-06 1/11
ALPHA CHLORDANE	UG/KG	2.1 UJ	19 U	ND	ND	0/11
GAMMA CHLORDANE	UG/KG	2.1 UJ	19 U	ND	ND	0/11
TOXAPHENE	UG/KG	210 UJ	1900 U	ND	ND	0/11
PCB-1016	UG/KG	40 UJ	370 U	ND	ND	0/11
PCB-1221	UG/KG	82 UJ	740 U	ND	ND	0/11
PCB-1232	UG/KG	40 UJ	370 U	ND	ND	0/11
PCB-1242	UG/KG	40 UJ	370 U	ND	ND	0/11
PCB-1248	UG/KG	40 UJ	370 U	ND	ND	0/11
PCB-1254	UG/KG	40 UJ	370 U	ND	ND	0/11
PCB-1260	UG/KG	40 UJ	370 U	29 J	360 J	6-RV1-SD-06 6/11
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	12 U	810 U	ND	ND	0/11
BROMOMETHANE	UG/KG	12 U	810 U	ND	ND	0/11
VINYL CHLORIDE	UG/KG	12 U	810 U	ND	ND	0/11
CHLOROETHANE	UG/KG	12 U	810 U	ND	ND	0/11
METHYLENE CHLORIDE	UG/KG	12 U	810 U	ND	ND	0/11
ACETONE	UG/KG	12 U	67 UJ	62	9100 J	6-RV4-SD-612 5/11
CARBON DISULFIDE	UG/KG	12 U	810 U	ND	ND	0/11
1,1-DICHLOROETHENE	UG/KG	12 U	810 U	ND	ND	0/11
1,1-DICHLOROETHANE	UG/KG	12 U	810 U	ND	ND	0/11
1,2-DICHLOROETHENE	UG/KG	12 U	810 U	ND	ND	0/11
CHLOROFORM	UG/KG	12 U	810 U	ND	ND	0/11
1,2-DICHLOROETHANE	UG/KG	12 U	810 U	ND	ND	0/11
2-BUTANONE	UG/KG	12 U	24 U	2300	2400 J	6-RV4-SD-612 2/11

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	12 U	810 U	ND	ND		0/11
CARBON TETRACHLORIDE	UG/KG	12 U	810 U	ND	ND		0/11
BROMODICHLOROMETHANE	UG/KG	12 U	810 U	ND	ND		0/11
1,2-DICHLOROPROPANE	UG/KG	12 U	810 U	ND	ND		0/11
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	810 U	ND	ND		0/11
TRICHLOROETHENE	UG/KG	12 U	810 U	ND	ND		0/11
DIBROMOCHLOROMETHANE	UG/KG	12 U	810 U	ND	ND		0/11
1,1,2-TRICHLOROETHANE	UG/KG	12 U	810 U	ND	ND		0/11
BENZENE	UG/KG	12 UJ	810 U	ND	ND		0/11
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 UJ	810 U	ND	ND		0/11
BROMOFORM	UG/KG	12 U	810 U	ND	ND		0/11
4-METHYL-2-PENTANONE	UG/KG	12 U	810 U	ND	ND		0/11
2-HEXANONE	UG/KG	12 U	810 U	ND	ND		0/11
TETRACHLOROETHENE	UG/KG	12 U	810 U	ND	ND		0/11
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	810 U	ND	ND		0/11
TOLUENE	UG/KG	12 U	810 U	ND	ND		0/11
CHLOROBENZENE	UG/KG	12 U	810 U	ND	ND		0/11
ETHYLBENZENE	UG/KG	12 U	810 U	ND	ND		0/11
STYRENE	UG/KG	12 U	810 U	ND	ND		0/11
TOTAL XYLENES	UG/KG	12 U	810 U	ND	ND		0/11
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	380 U	680 U	ND	ND		0/11
BIS(2-CHLOROETHYL) ETHER	UG/KG	380 U	680 U	ND	ND		0/11
2-CHLOROPHENOL	UG/KG	380 U	680 U	ND	ND		0/11
1,3-DICHLOROBENZENE	UG/KG	380 U	680 U	ND	ND		0/11
1,4-DICHLOROBENZENE	UG/KG	380 U	680 U	ND	ND		0/11
1,2-DICHLOROBENZENE	UG/KG	380 U	680 U	ND	ND		0/11
2-METHYLPHENOL	UG/KG	380 U	680 U	ND	ND		0/11
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	380 U	680 U	ND	ND		0/11
4-METHYLPHENOL	UG/KG	380 U	680 U	ND	ND		0/11
N-NITROSODI-N-PROPYLAMINE	UG/KG	380 U	680 U	ND	ND		0/11
HEXACHLOROETHANE	UG/KG	380 U	680 U	ND	ND		0/11
NITROBENZENE	UG/KG	380 U	680 U	ND	ND		0/11
ISOPHORONE	UG/KG	380 U	680 U	ND	ND		0/11
2-NITROPHENOL	UG/KG	380 U	680 U	ND	ND		0/11
2,4-DIMETHYLPHENOL	UG/KG	380 U	680 U	ND	ND		0/11
BIS(2-CHLOROETHOXY) METHANE	UG/KG	380 U	680 U	ND	ND		0/11
2,4-DICHLOROPHENOL	UG/KG	380 U	680 U	ND	ND		0/11
1,2,4-TRICHLOROBENZENE	UG/KG	380 U	680 U	ND	ND		0/11
NAPHTHALENE	UG/KG	380 U	680 U	54 J	54 J	6-RV2-SD-06	1/11
4-CHLORANILINE	UG/KG	380 U	680 U	ND	ND		0/11
HEXACHLOROBUTADIENE	UG/KG	380 U	680 U	ND	ND		0/11

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	380 U	680 U	ND	ND		0/11
2-METHYLNAPHTHALENE	UG/KG	380 U	680 U	44 J	44 J	6-RV2-SD-06	1/11
HEXACHLOROCYCLOPENTADIENE	UG/KG	380 U	680 U	ND	ND		0/11
2,4,6-TRICHLOROPHENOL	UG/KG	380 U	680 U	ND	ND		0/11
2,4,5-TRICHLOROPHENOL	UG/KG	930 U	1600 U	ND	ND		0/11
2-CHLORONAPHTHALENE	UG/KG	380 U	680 U	ND	ND		0/11
2-NITROANILINE	UG/KG	930 U	1600 U	ND	ND		0/11
DIMETHYL PHTHALATE	UG/KG	380 U	680 U	ND	ND		0/11
ACENAPHTHYLENE	UG/KG	380 U	680 U	ND	ND		0/11
2,6-DINITROTOLUENE	UG/KG	380 U	680 U	ND	ND		0/11
3-NITROANILINE	UG/KG	930 U	1600 U	ND	ND		0/11
ACENAPHTHENE	UG/KG	930 U	680 U	220 J	220 J	6-RV2-SD-06	1/11
2,4-DINITROPHENOL	UG/KG	930 U	1600 U	ND	ND		0/11
4-NITROPHENOL	UG/KG	930 U	1600 U	ND	ND		0/11
DIBENZOFURAN	UG/KG	380 U	680 U	110 J	110 J	6-RV2-SD-06	1/11
2,4-DINITROTOLUENE	UG/KG	380 U	680 U	ND	ND		0/11
DIETHYL PHTHALATE	UG/KG	380 U	680 U	ND	ND		0/11
4-CHLOROPHENYL PHENYL ETHER	UG/KG	380 U	680 U	ND	ND		0/11
FLUORENE	UG/KG	380 U	680 U	250 J	250 J	6-RV2-SD-06	1/11
4-NITROANILINE	UG/KG	930 U	1600 UJ	ND	ND		0/11
4,6-DINITRO-2-METHYLPHENOL	UG/KG	930 UJ	1600 U	ND	ND		0/11
N-NITRISODIPHENYLAMINE	UG/KG	380 UJ	680 U	ND	ND		0/11
4-BROMOPHENYL PHENYL ETHER	UG/KG	380 UJ	680 U	ND	ND		0/11
HEXACHLOROBENZENE	UG/KG	380 UJ	680 U	ND	ND		0/11
PENTACHLOROPHENOL	UG/KG	930 UJ	1600 U	ND	ND		0/11
PHENANTHRENE	UG/KG	380 UJ	680 U	50 J	1600	6-RV2-SD-06	3/11
ANTHRACENE	UG/KG	380 UJ	680 U	480	480	6-RV2-SD-06	1/11
DI-N-BUTYL PHTHALATE	UG/KG	380 UJ	680 U	52 J	52 J	6-RV7-SD-612	1/11
FLUORANTHENE	UG/KG	380 UJ	680 U	84 J	1500 J	6-RV2-SD-06	3/11
CARBAZOLE	UG/KG	380 UJ	680 U	170 J	170 J	6-RV2-SD-06	1/11
PYRENE	UG/KG	380 UR	460 U	96 J	2100	6-RV2-SD-06	4/11
BUTYL BENZYL PHTHALATE	UG/KG	380 UR	680 UJ	ND	ND		0/11
3,3-DICHLOROBENZIDINE	UG/KG	380 UR	680 UJ	ND	ND		0/11
BENZO(A)ANTHRACENE	UG/KG	380 UR	680 UJ	43 J	1100	6-RV2-SD-06	3/11
CHRYSENE	UG/KG	380 UR	680 UJ	59 J	1100	6-RV2-SD-06	3/11
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	380 UR	680 UJ	200 J	200 J	6-RV3-SD-06	1/11
DI-N-OCTYL PHTHALATE	UG/KG	380 UR	680 UJ	ND	ND		0/11
BENZO(B)FLUORANTHENE	UG/KG	380 UR	460 U	54 J	1200	6-RV2-SD-06	4/11
BENZO(K)FLUORANTHENE	UG/KG	380 UR	680 UJ	440	440	6-RV7-SD-06	1/11
BENZO(A)PYRENE	UG/KG	380 UR	460 U	70 J	1000	6-RV2-SD-06	3/11
INDENO(1,2,3-CD) PYRENE	UG/KG	380 UR	680 UJ	57 J	710	6-RV2-SD-06	2/11
DIBENZ(A,H)ANTHRACENE	UG/KG	380 UR	680 UJ	83 J	83 J	6-RV2-SD-06	1/11
BENZO(G,H,I)PERYLENE	UG/KG	380 UR	680 UJ	57 J	680	6-RV8-SD-06	2/11

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-RV1-SD-06	6-RV2-SD-06	6-RV3-SD-06	6-RV3-SD-612	6-RV4-SD-06	6-RV4-SD-612
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/25/92	8/25/92	8/24/92	8/24/92	8/24/92	8/24/92
	Lab Id:	00439-11	00439-13	00437-04	00437-05	00437-08	00437-09
Parameter	Units						
ALUMINUM	MG/KG	10300	2540	3820	1090	947	739
ANTIMONY	MG/KG	12.5 U	9.8 U	2.6 U	2.9 U	2.6 U	2.6 UJ
ARSENIC	MG/KG	4.3	0.61 B	2.1 JB	0.5 U	0.53 U	0.7 UJ
BARIUM	MG/KG	61.5	22.9 B	18.2 JB	5.6 JB	4.2 JB	2.9 JB
BERYLLIUM	MG/KG	0.26 U	0.2 U	0.13 B	0.06 U	0.06 U	0.06 U
CADMIUM	MG/KG	5.9 J	1.8 J	1.9 J	0.61 J	0.53 JB	0.36 U
CALCIUM	MG/KG	3450	1490	735 B	315 B	148 B	110 U
CHROMIUM	MG/KG	17.7	3.6	6	2.3 U	1.7 U	1.3 U
COBALT	MG/KG	2.1 JB	1.2 U	0.72 B	0.41 U	0.37 U	0.38 U
COPPER	MG/KG	67.5	12.3	18.7 J	6 J	4.2 JB	2.6 JB
IRON	MG/KG	7590	2290	2690	828	1010	420
LEAD	MG/KG	2.1 B	21.2	62.3 J	12.4 J	6.6 J	5.4 J
MAGNESIUM	MG/KG	402 B	139 B	137 B	40 B	34.7 B	24.5 B
MANGANESE	MG/KG	288	24	58.3	5.1 J	6.5 J	3.4 J
MERCURY	MG/KG	0.75	0.25	0.1	0.04 B	0.03 B	0.02 U
NICKEL	MG/KG	7.7 JB	3.4 U	2.1 B	1.6 U	1.5 U	1.5 U
POTASSIUM	MG/KG	361 B	108 B	153 B	47.5 B	35.1 B	29.5 B
SELENIUM	MG/KG	1.1 U	1.1 U	1.1 UJ	0.83 U	0.89 U	1.2 U
SILVER	MG/KG	2.6 U	2 U	0.85 B	0.41 U	0.56 B	0.6 B
SODIUM	MG/KG	48.8 UJ	30.2 UJ	27.8 UJ	16.2 UJ	16.8 UJ	14.6 UJ
THALLIUM	MG/KG	0.44 UJ	0.43 UJ	0.43 UJ	0.33 UJ	0.36 U	0.46 U
VANADIUM	MG/KG	19	6 B	7 B	2.1 B	2.5 B	1.2 B
ZINC	MG/KG	408	64.8	113	24.8	31.6	20.3

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
DATA AND FREQUENCY SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-RV5-SD-06	6-RV6-SD-06	6-RV7-SD-06	6-RV7-SD-612	6-RV8-SD-06
	Depth:	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	8/25/92	8/25/92	8/25/92	8/25/92	8/25/92
	Lab Id:	00439-15	00437-11	00437-12	00437-14	00437-17
Parameter	Units					
ALUMINUM	MG/KG	913	2100	1260	1710	7130
ANTIMONY	MG/KG	11.9 U	2.7 U	3.5 U	3.2 U	4.2 U
ARSENIC	MG/KG	0.44 U	0.67 UJ	0.87 UJ	0.78 UJ	2.3 B
BARIUM	MG/KG	5.1 U	8.5 JB	6.8 JB	12.2 JB	37.7 JB
BERYLLIUM	MG/KG	0.24 U	0.06 B	0.08 U	0.07 B	0.25 B
CADMIUM	MG/KG	0.73 U	1.7 J	0.64 JB	1.6 J	2.3 J
CALCIUM	MG/KG	301 U	10100	284 B	577 B	1390 B
CHROMIUM	MG/KG	2 B	3.1 J	1.9 U	3.8 U	10.5
COBALT	MG/KG	1.5 U	0.39 U	0.5 U	0.45 U	1.1 B
COPPER	MG/KG	6.5 J	8.1 J	6.9 J	45 J	35 J
IRON	MG/KG	875	2950	851	1000	3420
LEAD	MG/KG	25.6	11.2 J	13.3 J	18.5 J	105 J
MAGNESIUM	MG/KG	36.3 B	217 B	53.2 B	91.1 B	289 B
MANGANESE	MG/KG	28.9	104	25.5 J	21.6 J	24.2 J
MERCURY	MG/KG	0.12 U	0.15	0.09 B	0.15	0.27
NICKEL	MG/KG	4.1 U	1.5 U	2 U	2.8 B	4 B
POTASSIUM	MG/KG	93 U	83.2 B	48.2 B	60.9 B	253 B
SELENIUM	MG/KG	1.1 U	1.1 U	1.5 U	1.3 U	1.6 U
SILVER	MG/KG	2.4 U	0.39 U	0.82 B	0.85 B	1.2 B
SODIUM	MG/KG	26.9 UJ	41.4 UJ	25.5 UJ	24.3 UJ	60 UJ
THALLIUM	MG/KG	0.44 UJ	0.45 UJ	0.58 UJ	0.52 U	0.64 U
VANADIUM	MG/KG	1.8 JB	4 B	2.4 JB	3.7 JB	11.4 JB
ZINC	MG/KG	80.8	204	94.2	193	142

CLEJ-01272-3.13-08/20/93

SITE 6 RAVINE SEDIMENT
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	MG/KG	NA	NA	739	10300	6-RV1-SD-06	11/11
ANTIMONY	MG/KG	2.6 U	12.5 U	ND	ND		0/11
ARSENIC	MG/KG	0.44 U	0.87 UJ	0.61 B	4.3	6-RV1-SD-06	4/11
BARIUM	MG/KG	5.1 U	5.1 U	2.9 JB	61.5	6-RV1-SD-06	10/11
BERYLLIUM	MG/KG	0.06 U	0.26 U	0.06 B	0.25 B	6-RV8-SD-06	4/11
CADMIUM	MG/KG	0.36 U	0.73 U	0.53 JB	5.9 J	6-RV1-SD-06	9/11
CALCIUM	MG/KG	110 U	301 U	148 B	10100	6-RV6-SD-06	9/11
CHROMIUM	MG/KG	1.3 U	3.8 U	2 B	17.7	6-RV1-SD-06	6/11
COBALT	MG/KG	0.37 U	1.5 U	0.72 B	2.1 JB	6-RV1-SD-06	3/11
COPPER	MG/KG	NA	NA	2.6 JB	67.5	6-RV1-SD-06	11/11
IRON	MG/KG	NA	NA	420	7590	6-RV1-SD-06	11/11
LEAD	MG/KG	NA	NA	2.1 B	105 J	6-RV8-SD-06	11/11
MAGNESIUM	MG/KG	NA	NA	24.5 B	402 B	6-RV1-SD-06	11/11
MANGANESE	MG/KG	NA	NA	3.4 J	288	6-RV1-SD-06	11/11
MERCURY	MG/KG	0.02 U	0.12 U	0.03 B	0.75	6-RV1-SD-06	9/11
NICKEL	MG/KG	1.5 U	4.1 U	2.1 B	7.7 JB	6-RV1-SD-06	4/11
POTASSIUM	MG/KG	93 U	93 U	29.5 B	361 B	6-RV1-SD-06	10/11
SELENIUM	MG/KG	0.83 U	1.6 U	ND	ND		0/11
SILVER	MG/KG	0.39 U	2.6 U	0.56 B	1.2 B	6-RV8-SD-06	6/11
SODIUM	MG/KG	14.6 UJ	60 UJ	ND	ND		0/11
THALLIUM	MG/KG	0.33 UJ	0.64 U	ND	ND		0/11
VANADIUM	MG/KG	NA	NA	1.2 B	19	6-RV1-SD-06	11/11
ZINC	MG/KG	NA	NA	20.3	408	6-RV1-SD-06	11/11

CLEJ-01272-3-13-08/20/93

L.16

**Operable Unit No. 2 -
Phase II Round One Groundwater**

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Sample No:	6-GWIDA-01B	6-GW1DA-01T	6-GW3D-01	6-GW15DW-01	6-GW30DW-01	6-GW31-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date sampled:	5/3/93	5/3/93	4/6/93	5/3/93	3/22/93	3/6/93
Lab Id:	930259-01	930259-02	930170-15	930259-03	930141-34	930107-05
Parameter	Units					
VOLATILES						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOTAL-1,2-DICHLORETHENE	UG/L	38	100	3.7	9.1	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.3	2.9	1.0 U	1.0	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	83	160	6.4	34	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Sample No:	6-GW32-01	6-GW33-01	6-GW34-01	6-GW35DW-01	6-GW36DW-01	6-GW37DW-01
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date sampled:	3/18/93	3/18/93	3/18/93	3/22/93	3/30/93	3/22/93
Lab Id:	00135-03	00135-04	00135-05	930141-35	930170-03	930141-36
Parameter	Units					
<u>VOLATILES</u>						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.3	1.0 U	1.0 U
TOTAL-1,2-DICHLORETHENE	UG/L	2200	1.0 U	410	1.0 U	3.4
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.3 U	2.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	9600	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	74	1.0 U	1200	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	58	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1500	1.0 U	610	3.1 U	6.4
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
VINYL CHLORIDE	UG/L	8.6 J	1.0 UJ	1.0 UJ	1.0 U	1.0 U
BENZENE	UG/L	1.4	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	4.4	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3-13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Parameter	Sample No:	6-82-MW30-01	6-TW1-01	6-TW2-01	6-TW3-01
	Depth:	N/A	N/A	N/A	N/A
	Date sampled:	3/22/93	3/31/93	3/31/93	3/31/93
	Lab Id:	930141-39	930170-06	930170-07	930170-08
Parameter	Units				
<u>VOLATILES</u>					
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.4
TOTAL-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	280	430
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.4 U	1.1 U	1.3 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	6.6	3.6
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.5 UJ	1.0 U	360	63
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.4
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Parameter	Sample No: Depth: Date sampled: Lab Id:	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
VOLATILES								
BROMODICHLOROMETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
BROMOFORM		UG/L	1.0 U	1.0 U	ND	ND		0/16
BROMOMETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
CARBON TETRACHLORIDE		UG/L	1.0 U	1.0 U	ND	ND		0/16
CHLOROBENZENE		UG/L	1.0 U	1.0 U	ND	ND		0/16
CHLOROETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
2-CHLOROETHYL VINYL ETHER		UG/L	1.0 UJ	1.0 UJ	ND	ND		0/16
CHLOROFORM		UG/L	1.0 U	1.0 U	ND	ND		0/16
CHLOROMETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
DIBROMOCHLOROMETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
1,2-DICHLOROBENZENE		UG/L	1.0 UJ	1.0 UJ	ND	ND		0/16
1,3-DICHLOROBENZENE		UG/L	1.0 U	1.0 U	ND	ND		0/16
1,4-DICHLOROBENZENE		UG/L	1.0 U	1.0 U	ND	ND		0/16
1,1-DICHLOROETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
1,2-DICHLOROETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
1,1-DICHLOROETHENE		UG/L	1.0 U	1.0 U	1.3	1.4	6-TW3-01	2/16
TOTAL-1,2-DICHLORETHENE		UG/L	1.0 U	1.0 U	3.4	2200.0	6-GW32-01	10/16
1,2-DICHLOROPROPANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
CIS-1,3-DICHLOROPROPENE		UG/L	1.0 U	1.0 U	ND	ND		0/16
TRANS-1,3-DICHLOROPROPENE		UG/L	1.0 U	1.0 U	ND	ND		0/16
METHYLENE CHLORIDE		UG/L	1.0 U	2.0 U	ND	ND		0/16
1,1,2,2-TETRACHLOROETHANE		UG/L	1.0 U	1.0 U	9600.0	9600.0	6-GW34-01	1/16
TETRACHLOROETHENE		UG/L	1.0 U	1.0 U	1.0	1200.0	6-GW34-01	7/16
1,1,1-TRICHLOROETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
1,1,2-TRICHLOROETHANE		UG/L	1.0 U	1.0 U	58.0	58.0	6-GW34-01	1/16
TRICHLOROETHENE		UG/L	1.0 U	3.1 U	6.4	1500.0	6-GW32-01	10/16
TRICHLOROFLUOROMETHANE		UG/L	1.0 U	1.0 U	ND	ND		0/16
VINYL CHLORIDE		UG/L	1.0 U	1.0 U	8.6 J	14.0	6-TW3-01	2/16
BENZENE		UG/L	1.0 U	1.0 U	1.4	1.4	6-GW32-01	1/16
1,2-DICHLOROBENZENE		UG/L	1.0 U	1.0 U	2.6	4.4	6-GW34-01	2/16
1,3-DICHLOROBENZENE		UG/L	1.0 U	1.0 U	ND	ND		0/16
1,4-DICHLOROBENZENE		UG/L	1.0 U	1.0 U	ND	ND		0/16
ETHYLBENZENE		UG/L	1.0 U	1.0 U	ND	ND		0/16
TOLUENE		UG/L	1.0 U	1.0 U	1.0	1.0	6-TW3-01	1/16
XYLENES (TOTAL)		UG/L	1.0 U	1.0 U	ND	ND		0/16

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-GW31-01	6-GW32-01	6-GW33-01	6-GW34-01
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	3/6/93	3/18/93	3/18/93	3/18/93
	Lab Id:	930107-05	930136-11	930136-13	930136-15
Parameter	Units				
<u>FESTICIDE/PCBS</u>					
ALPHA-BHC	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
BETA-BHC	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
DELTA-BHC	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
HEPTACHLOR	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
ALDRIN	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
ENDOSULFAN I	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
DIELDRIN	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
4,4'-DDE	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
ENDRIN	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
ENDOSULFAN II	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
4,4'-DDD	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
4,4'-DDT	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
METHOXYCHLOR	UG/L	0.5 U	0.5 UJ	0.5 U	0.5 UJ
ENDRIN KETONE	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 UJ	0.1 U	0.1 UJ
ALPHA CHLORDANE	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
GAMMA CHLORDANE	UG/L	0.05 U	0.05 UJ	0.05 U	0.05 UJ
TOXAPHENE	UG/L	5 U	5 UJ	5 U	5 UJ
PCB-1016	UG/L	1 U	1 UJ	1 U	1 UJ
PCB-1221	UG/L	2 U	2 UJ	2 U	2 UJ
PCB-1232	UG/L	1 U	1 UJ	1 U	1 UJ
PCB-1242	UG/L	1 U	1 UJ	1 U	1 UJ
PCB-1248	UG/L	1 U	1 UJ	1 U	1 UJ
PCB-1254	UG/L	1 U	1 UJ	1 U	1 UJ
PCB-1260	UG/L	1 U	1 UJ	1 U	1 UJ
<u>SEMIVOLATILES</u>					
PHENOL	UG/L	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHYL)ETHER	UG/L	10 UJ	10 UJ	10 UJ	10 UJ
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 UJ	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 U	10 U	10 U
4-METHYLPHENOL	UG/L	10 U	10 UJ	10 UJ	10 UJ
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 UJ	10 UJ	10 UJ
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY)METHANE	UG/L	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	6-GW31-01	6-GW32-01	6-GW33-01	6-GW34-01
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	3/6/93	3/18/93	3/18/93	3/18/93
	Lab Id:	930107-05	930136-11	930136-13	930136-15
Parameter	Units				
<u>SEMIVOLATILES Cont.</u>					
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	6 J
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U
DIBENZO FURAN	UG/L	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	15
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	10 U	10 U
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/4
BETA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/4
DELTA-BHC	UG/L	0.05 U	0.05 U	ND	ND		0/4
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 U	ND	ND		0/4
HEPTACHLOR	UG/L	0.05 U	0.05 U	ND	ND		0/4
ALDRIN	UG/L	0.05 U	0.05 U	ND	ND		0/4
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 U	ND	ND		0/4
ENDOSULFAN I	UG/L	0.05 U	0.05 U	ND	ND		0/4
DIELDRIN	UG/L	0.1 U	0.1 U	ND	ND		0/4
4,4'-DDE	UG/L	0.1 U	0.1 U	ND	ND		0/4
ENDRIN	UG/L	0.1 U	0.1 U	ND	ND		0/4
ENDOSULFAN II	UG/L	0.1 U	0.1 U	ND	ND		0/4
4,4'-DDD	UG/L	0.1 U	0.1 U	ND	ND		0/4
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 U	ND	ND		0/4
4,4'-DDT	UG/L	0.1 U	0.1 U	ND	ND		0/4
METHOXYCHLOR	UG/L	0.5 U	0.5 U	ND	ND		0/4
ENDRIN KETONE	UG/L	0.1 U	0.1 U	ND	ND		0/4
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 U	ND	ND		0/4
ALPHA CHLORDANE	UG/L	0.05 U	0.05 U	ND	ND		0/4
GAMMA CHLORDANE	UG/L	0.05 U	0.05 U	ND	ND		0/4
TOXAPHENE	UG/L	5 U	5 U	ND	ND		0/4
PCB-1016	UG/L	1 U	1 U	ND	ND		0/4
PCB-1221	UG/L	2 U	2 U	ND	ND		0/4
PCB-1232	UG/L	1 U	1 U	ND	ND		0/4
PCB-1242	UG/L	1 U	1 U	ND	ND		0/4
PCB-1248	UG/L	1 U	1 U	ND	ND		0/4
PCB-1254	UG/L	1 U	1 U	ND	ND		0/4
PCB-1260	UG/L	1 U	1 U	ND	ND		0/4
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 UJ	10 UJ	ND	ND		0/4
BIS(2-CHLOROETHYL)ETHER	UG/L	10 UJ	10 UJ	ND	ND		0/4
2-CHLOROPHENOL	UG/L	10 U	10 U	ND	ND		0/4
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/4
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/4
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	ND	ND		0/4
2-METHYLPHENOL	UG/L	10 UJ	10 UJ	ND	ND		0/4
2,2'-OXYBIS (1-CHLOROPROPANE)	UG/L	10 U	10 U	ND	ND		0/4
4-METHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/4
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	ND	ND		0/4
HEXACHLOROETHANE	UG/L	10 U	10 U	ND	ND		0/4
NITROBENZENE	UG/L	10 U	10 U	ND	ND		0/4
ISOPHORONE	UG/L	10 U	10 U	ND	ND		0/4
2-NITROPHENOL	UG/L	10 U	10 U	ND	ND		0/4
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	ND	ND		0/4
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	ND	ND		0/4

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	LOCATION OF	FREQUENCY
Depth:	NONDETECTED	NONDETECTED	DETECTED	DETECTED	MAXIMUM	OF
Date Sampled:					DETECTED	DETECTION
Lab Id:						
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	ND		0/4
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	ND		0/4
NAPHTHALENE	UG/L	10 U	10 U	ND		0/4
4-CHLORANILINE	UG/L	10 U	10 U	ND		0/4
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	ND		0/4
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	ND		0/4
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	ND		0/4
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	ND		0/4
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	ND		0/4
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	ND		0/4
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	ND		0/4
2-NITROANILINE	UG/L	25 U	25 U	ND		0/4
DIMETHYL PHTHALATE	UG/L	10 U	10 U	6 J	6 J	1/4
ACENAPHTHYLENE	UG/L	10 U	10 U	ND	6-GW34-01	0/4
2,6-DINITROTOLUENE	UG/L	10 U	10 U	ND		0/4
3-NITROANILINE	UG/L	25 U	25 U	ND		0/4
ACENAPHTHENE	UG/L	10 U	10 U	ND		0/4
2,4-DINITROPHENOL	UG/L	25 U	25 U	ND		0/4
4-NITROPHENOL	UG/L	25 U	25 U	ND		0/4
DIBENZOFURAN	UG/L	10 U	10 U	ND		0/4
2,4-DINITROTOLUENE	UG/L	10 U	10 U	ND		0/4
DIETHYL PHTHALATE	UG/L	10 U	10 U	15	15	1/4
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND	6-GW34-01	0/4
FLUORENE	UG/L	10 U	10 U	ND		0/4
4-NITROANILINE	UG/L	25 U	25 U	ND		0/4
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	ND		0/4
N-NITRISODIPHENYLAMINE	UG/L	10 U	10 U	ND		0/4
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	ND		0/4
HEXACHLOROBENZENE	UG/L	10 U	10 U	ND		0/4
PENTACHLOROPHENOL	UG/L	25 U	25 U	ND		0/4
PHENANTHRENE	UG/L	10 U	10 U	ND		0/4
ANTHRACENE	UG/L	10 U	10 U	ND		0/4
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	ND		0/4
FLUORANTHENE	UG/L	10 U	10 U	ND		0/4
CARBAZOLE	UG/L	10 U	10 U	ND		0/4
PYRENE	UG/L	10 U	10 U	ND		0/4
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	ND		0/4
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	ND		0/4
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	ND		0/4
CHRYSENE	UG/L	10 U	10 U	ND		0/4
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	ND		0/4
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	ND		0/4
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	ND		0/4
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	ND		0/4
BENZO(A)PYRENE	UG/L	10 U	10 U	ND		0/4
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	ND		0/4
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	ND		0/4
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	ND		0/4

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	6-GW31-01	6-GW32-01	6-GW33-01	6-GW34-01
Depth:	N/A	N/A	N/A	N/A
Date Sampled:	3/6/93	N/A	N/A	N/A
Lab Id:	30107-05	30136-11	30136-13	30136-15

Parameter	Units				
ALUMINUM	UG/L	2420	119000	80700	98100
ANTIMONY	UG/L	22 UJ	22 U	22 U	22 U
ARSENIC	UG/L	11.4	24	8.8 B	15.6
BARIUM	UG/L	51.2 B	796	484	311
BERYLLIUM	UG/L	1 U	54.1	3.4 B	2.8 B
CADMIUM	UG/L	3 U	8.4 J	3 U	5.2 J
CALCIUM	UG/L	60000	263000	2880 B	4400 B
CHROMIUM	UG/L	6 U	385	139	259
COBALT	UG/L	3 U	58.8	5.2 B	4.9 B
COPPER	UG/L	3.8 UJ	46	25.6	34
CYANIDE	UG/L		10 U	10 U	10 U
IRON	UG/L	14600	104000	16000	89600
LEAD	UG/L	2.4 U	18.8	57.2	41.9
MAGNESIUM	UG/L	3490 B	13000	4930 B	10700
MANGANESE	UG/L	126	1170	31.8	171
MERCURY	UG/L	0.12 U	0.33 U	0.59	0.42 U
NICKEL	UG/L	17 U	179	24.7 B	19.8 B
POTASSIUM	UG/L	3090 B	9990	4060 B	9340
SELENIUM	UG/L	2 U	3.4 JB	3.8 JB	5.2 B
SILVER	UG/L	6.9 UJ	3 U	3 U	3 U
SODIUM	UG/L	5640	5510	6120	5960
THALLIUM	UG/L	3 UJ	3 UJ	3 U	3 U
VANADIUM	UG/L	14 B	305	96.6	316
ZINC	UG/L	3 UJ	796	62.2	138

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	UG/L	NA	NA	2420	119000	6-GW32-01	4/4
ANTIMONY	UG/L	22 UJ	22 UJ	ND	ND		0/4
ARSENIC	UG/L	NA	NA	8.8 B	24	6-GW32-01	4/4
BARIUM	UG/L	NA	NA	51.2 B	796	6-GW32-01	4/4
BERYLLIUM	UG/L	1 U	1 U	2.8 B	54.1	6-GW32-01	3/4
CADMIUM	UG/L	3 U	3 U	5.2 J	8.4 J	6-GW32-01	2/4
CALCIUM	UG/L	NA	NA	2880 B	263000	6-GW32-01	4/4
CHROMIUM	UG/L	6 U	6 U	139	385	6-GW32-01	3/4
COBALT	UG/L	3 U	3 U	4.9 B	58.8	6-GW32-01	3/4
COPPER	UG/L	3.8 UJ	3.8 UJ	25.6	46	6-GW32-01	3/4
CYANIDE	UG/L	10 U	10 U	ND	ND		0/3
IRON	UG/L	NA	NA	14600	104000	6-GW32-01	4/4
LEAD	UG/L	2.4 U	2.4 U	18.8	57.2	6-GW33-01	3/4
MAGNESIUM	UG/L	NA	NA	3490 B	13000	6-GW32-01	4/4
MANGANESE	UG/L	NA	NA	31.8	1170	6-GW32-01	4/4
MERCURY	UG/L	0.12 U	0.42 U	0.59	0.59	6-GW33-01	1/4
NICKEL	UG/L	17 U	17 U	19.8 B	179	6-GW32-01	3/4
POTASSIUM	UG/L	NA	NA	3090 B	9990	6-GW32-01	4/4
SELENIUM	UG/L	2 U	2 U	3.4 JB	5.2 B	6-GW34-01	3/4
SILVER	UG/L	3 U	6.9 UJ	ND	ND		0/4
SODIUM	UG/L	NA	NA	5510	6120	6-GW33-01	4/4
THALLIUM	UG/L	3 UJ	3 UJ	ND	ND		0/4
VANADIUM	UG/L	NA	NA	14 B	316	6-GW34-01	4/4
ZINC	UG/L	3 UJ	3 UJ	62.2	796	6-GW32-01	3/4

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

Sample No:	6-GW31D-01	6-GW32D-01	6-GW33D-01	6-GW34D-01
Depth:	N/A	N/A	N/A	N/A
Date Sampled:	3/6/93	N/A	N/A	N/A
Lab Id:	30107-06	30136-12	30136-14	30136-16

Parameter	Units				
ALUMINUM	UG/L	33.6 U	16 U	149 B	138 B
ANTIMONY	UG/L	22 UJ	22 U	22 U	22 U
ARSENIC	UG/L	7.6 B	1 U	1 U	1 U
BARIUM	UG/L	29.7 B	8.6 JB	8.9 JB	35.2 B
BERYLLIUM	UG/L	1 U	1 U	1 U	1 U
CADMIUM	UG/L	3 U	3 U	3 U	3 U
CALCIUM	UG/L	52200	46600	1180 B	3170 B
CHROMIUM	UG/L	6 U	6 U	6 U	6 U
COBALT	UG/L	3 U	3 U	3.9 B	3 U
COPPER	UG/L	6.7 UJ	19.6 B	4.7 UJ	16.9 B
IRON	UG/L	9130	21.6 U	50.3 U	40.8 U
LEAD	UG/L	1 UJ	1 U	1 U	1 U
MAGNESIUM	UG/L	2910 B	2110 B	2350 B	3980 B
MANGANESE	UG/L	105	199	6 B	27
MERCURY	UG/L	0.12 U	0.28 U	0.21 U	0.19 U
NICKEL	UG/L	17 U	17 U	17 U	17 U
POTASSIUM	UG/L	2720 B	1120 B	623 U	1900 B
SELENIUM	UG/L	2 U	3 JB	2 UJ	6.8
SILVER	UG/L	6.1 UJ	3 U	3 U	3 U
SODIUM	UG/L	5450	4980 B	6310	5640
THALLIUM	UG/L	3 UJ	3 U	3 U	3 U
VANADIUM	UG/L	3 UJ	3 UJ	3 UJ	3 UJ
ZINC	UG/L	3 UJ	5.2 U	12.2 U	58.4

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
ALUMINUM	UG/L	16 U	33.6 U	138 B	149 B	6-GW33D-01	2/4
ANTIMONY	UG/L	22 UJ	22 UJ	ND	ND		0/4
ARSENIC	UG/L	1 U	1 U	7.6 B	7.6 B	6-GW31D-01	1/4
BARIUM	UG/L	NA	NA	8.6 JB	35.2 B	6-GW34D-01	4/4
BERYLLIUM	UG/L	1 U	1 U	ND	ND		0/4
CADMIUM	UG/L	3 U	3 U	ND	ND		0/4
CALCIUM	UG/L	NA	NA	1180 B	52200	6-GW31D-01	4/4
CHROMIUM	UG/L	6 U	6 U	ND	ND		0/4
COBALT	UG/L	3 U	3 U	3.9 B	3.9 B	6-GW33D-01	1/4
COPPER	UG/L	4.7 UJ	6.7 UJ	16.9 B	19.6 B	6-GW32D-01	2/4
IRON	UG/L	21.6 U	50.3 U	9130	9130	6-GW31D-01	1/4
LEAD	UG/L	1 UJ	1 UJ	ND	ND		0/4
MAGNESIUM	UG/L	NA	NA	2110 B	3980 B	6-GW34D-01	4/4
MANGANESE	UG/L	NA	NA	6 B	199	6-GW32D-01	4/4
MERCURY	UG/L	0.12 U	0.28 U	ND	ND		0/4
NICKEL	UG/L	17 U	17 U	ND	ND		0/4
POTASSIUM	UG/L	623 U	623 U	1120 B	2720 B	6-GW31D-01	3/4
SELENIUM	UG/L	2 U	2 U	3 JB	6.8	6-GW34D-01	2/4
SILVER	UG/L	3 U	6.1 UJ	ND	ND		0/4
SODIUM	UG/L	NA	NA	4980 B	6310	6-GW33D-01	4/4
THALLIUM	UG/L	3 UJ	3 UJ	ND	ND		0/4
VANADIUM	UG/L	3 UJ	3 UJ	ND	ND		0/4
ZINC	UG/L	3 UJ	12.2 U	58.4	58.4	6-GW34D-01	1/4

CLEJ-01272-3.13-08/20/93

L.17

**Operable Unit No. 2 -
Phase II Round Two Groundwater**

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Sample No:	6-BP6-02	6-GW1S-02	6-GW1DW-02	6-GW2-02	6-GW2DW-02	6-GW3-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date sampled:	3/22/93	3/23/93	3/23/93	3/21/93	3/21/93	3/22/93
Lab Id:	930141-28	930150-03	930150-04	930141-02	930141-03	930141-30
Parameter	Units					
<u>VOLATILES</u>						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	1.0 U	1.0 U	13	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	3.7	1.0 U	1.0 U	1.7 U	1.0 U
CHLOROMETHANE	UG/L	1.0 UJ	1.0 UJ	1.4 J	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	17	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	30	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	51	1.0 U	1.0 U
TOTAL-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	26000	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	9.3 U	9.2 U	3.9 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	920	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	5.8	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	50000	1.0 U	4.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	800 J	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	6.7 J	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	10	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	52	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.4	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	2.1	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Sample No:	6-GW4-02	6-GW5-02	6-GW6-02	6-GW7DW-02	6-GW7S-02	6-GW8-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date sampled:	3/21/93	3/21/93	3/20/93	3/19/93	3/19/93	3/20/93
Lab Id:	930141-04	930141-03	930141-06	930136-20	930136-21	930141-07
Parameter	Units					
<u>VOLATILES</u>						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOTAL-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	8.7 U	1.3 U
1,1,2,2-TETRACHLOROETHANE	UG/L	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	2.1	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Sample No:	6-GW9-02	6-GW10-02	6-GW11-02	6-GW12-02	6-GW13-02	6-GW14-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date sampled:	3/19/93	3/20/93	3/21/93	3/20/93	3/20/93	3/20/93
Lab Id:	930136-22	930136-23	930141-08	930136-24	930136-25	930141-09
Parameter	Units					
<u>VOLATILES</u>						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOTAL-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	5.3 UJ	5.6 UJ	1.0 U	3.4 UJ	8.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.2
TRICHLOROFLUOROMETHANE	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.9
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Sample No:	6-GW15-02	6-GW16-02	6-GW17-02	6-GW18-02	6-GW19-02	6-GW20-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date sampled:	3/21/93	3/21/93	3/20/93	3/20/93	3/20/93	3/21/93
Lab Id:	930141-10	930141-11	930141-12	930141-13	930141-15	930141-16
Parameter	Units					
VOLATILES						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	8500	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	20	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	4.5	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOTAL-1,2-DICHLOROETHENE	UG/L	6.4	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	60	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.2	2.6	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.6	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	8.0 U	1.2 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	3.9	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3-13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

	Sample No:	6-GW21-02	6-GW22-02	6-GW23-02	6-GW25-02	6-GW26-02	6-GW27DW-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date sampled:	3/21/93	3/22/93	3/21/93	3/21/93	3/22/93	3/23/93
	Lab Id:	930141-17	930141-31	930141-18	930141-19	930141-32	930150-06
Parameter	Units						
VOLATILES							
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.8	1.0 U	110	7.7	3.6
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.6	3.5	1.0 U
CHLOROMETHANE	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	16
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	55
TOTAL-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	30000
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.4 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.4	1.0 U	1.0 U	1.0 U	18
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	22000
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	250 J
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

	Sample No:	6-GW28DW-02	6-GW28S-02	6-GW30-02	6-82-MW1-02	6-82-MW2-02	6-82-MW3-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date sampled:	3/23/93	3/18/93	3/22/93	3/23/93	3/23/93	3/23/93
	Lab Id:	930150-07	00135-02	930141-33	930150-08	930150-09	930150-10
Parameter	Units						
<u>VOLATILES</u>							
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	18	1.0 U	13	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	7.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	12	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOTAL-1,2-DICHLORETHENE	UG/L	5800	1.8 J	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	3.5 U	1.0 U	1.0 U	8.4 U	1.2 U	7.7 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	42	1.0	1.1	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	9100	4.0	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	100 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO--0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Sample No:	6-MW2-02	6-MW3-02	6-MW8-02	6-MW9-02	9-GW1-02	9-GW2-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date sampled:	3/21/93	3/23/93	3/22/93	3/21/93	3/9/93	3/9/93
Lab Id:	930141-20	930150-11	930141-38	930141-24	930115-06	930115-10
Parameter	Units					
VOLATILES						
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	2.4	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOTAL-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	7.7 U	1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	2.1 UJ	1.0 U	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

	Sample No:	9-GW3-02	9-GW4-02	9-GW5-02	9-GW6-02	9-GW7DW-02	9-GW7S-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date sampled:	3/9/93	3/8/93	3/8/93	3/8/93	3/8/93	3/8/93
	Lab Id:	930115-12	930115-14	930115-16	930115-18	930115-20	930115-22
Parameter	Units						
VOLATILES							
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BROMOMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROFORM	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOTAL-1,2-DICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TRICHLOROETHENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
BENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
ETHYLBENZENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
TOLUENE	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Sample No: 9-GW8-02
 Depth: N/A
 Date sampled: 3/9/93
 Lab Id: 930115-24

Parameter	Units	
VOLATILES		
BROMODICHLOROMETHANE	UG/L	1.0 U
BROMOFORM	UG/L	1.0 U
BROMOMETHANE	UG/L	1.0 U
CARBON TETRACHLORIDE	UG/L	1.0 U
CHLOROBENZENE	UG/L	1.0 U
CHLOROETHANE	UG/L	1.0 U
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U
CHLOROFORM	UG/L	1.0 U
CHLOROMETHANE	UG/L	1.0 UJ
DIBROMOCHLOROMETHANE	UG/L	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U
1,3-DICHLOROBENZENE	UG/L	1.0 U
1,4-DICHLOROBENZENE	UG/L	1.0 U
1,1-DICHLOROETHANE	UG/L	1.0 U
1,2-DICHLOROETHANE	UG/L	1.0 U
1,1-DICHLOROETHENE	UG/L	1.0 U
TOTAL-1,2-DICHLORETHENE	UG/L	1.0 U
1,2-DICHLOROPROPANE	UG/L	1.0 U
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U
METHYLENE CHLORIDE	UG/L	1.0 U
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U
TETRACHLOROETHENE	UG/L	1.0 U
1,1,1-TRICHLOROETHANE	UG/L	1.0 U
1,1,2-TRICHLOROETHANE	UG/L	1.0 U
TRICHLOROETHENE	UG/L	1.0 U
TRICHLOROFLUOROMETHANE	UG/L	1.0 U
VINYL CHLORIDE	UG/L	1.0 U
BENZENE	UG/L	1.0 U
1,2-DICHLOROBENZENE	UG/L	1.0 U
1,3-DICHLOROBENZENE	UG/L	3.4
1,4-DICHLOROBENZENE	UG/L	1.0 U
ETHYLBENZENE	UG/L	3.4
TOLUENE	UG/L	2.2
XYLENES (TOTAL)	UG/L	14

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 DATA AND FREQUENCY SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 VOLATILE ORGANICS

Parameter	Sample No: Depth: Date sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>VOLATILES</u>							
BROMODICHLOROMETHANE	UG/L	1.0 U	1.0 U	ND	ND		0/49
BROMOFORM	UG/L	1.0 U	1.0 U	ND	ND		0/49
BROMOMETHANE	UG/L	1.0 U	1.0 U	ND	ND		0/49
CARBON TETRACHLORIDE	UG/L	1.0 U	1.0 U	ND	ND		0/49
CHLOROBENZENE	UG/L	1.0 U	1.0 U	1.8	8500.0	6-GW16-02	8/49
CHLOROETHANE	UG/L	1.0 U	1.0 U	ND	ND		0/49
2-CHLOROETHYL VINYL ETHER	UG/L	1.0 U	1.0 U	ND	ND		0/49
CHLOROFORM	UG/L	1.0 U	1.7 U	1.6	20.0	6-GW16-02	5/49
CHLOROMETHANE	UG/L	1.0 UJ	1.0 UJ	1.4 J	1.4 J	6-GW1DW-02	1/49
DIBROMOCHLOROMETHANE	UG/L	1.0 U	1.0 U	ND	ND		0/49
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	ND	ND		0/49
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	ND	ND		0/49
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	4.5	17.0	6-GW1DW-02	2/49
1,1-DICHLOROETHANE	UG/L	1.0 U	1.0 U	ND	ND		0/49
1,2-DICHLOROETHANE	UG/L	1.0 U	1.0 U	7.5	30.0	6-GW1DW-02	3/49
1,1-DICHLOROETHENE	UG/L	1.0 U	1.0 U	12.0	55.0	6-GW27DW-02	3/49
TOTAL-1,2-DICHLORETHENE	UG/L	1.0 U	1.0 U	1.8 J	30000.0	6-GW27DW-02	5/49
1,2-DICHLOROPROPANE	UG/L	1.0 U	1.0 U	ND	ND		0/49
CIS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	ND	ND		0/49
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0 U	1.0 U	ND	ND		0/49
METHYLENE CHLORIDE	UG/L	1.0 U	9.4 U	ND	ND		0/49
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0 U	1.0 U	1.8 J	60.0	6-GW16-02	3/49
TETRACHLOROETHENE	UG/L	1.0 U	1.0 U	1.0	920.0	6-GW1DW-02	8/49
1,1,1-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	ND	ND		0/49
1,1,2-TRICHLOROETHANE	UG/L	1.0 U	1.0 U	1.6	5.8	6-GW1DW-02	2/49
TRICHLOROETHENE	UG/L	1.0 U	14.0 UJ	1.2	50000.0	6-GW1DW-02	7/49
TRICHLOROFLUOROMETHANE	UG/L	1.0 U	1.0 U	1.9	1.9	6-GW13-02	1/49
VINYL CHLORIDE	UG/L	1.0 U	1.0 U	100.0 J	800.0 J	6-GW1DW-02	3/49
BENZENE	UG/L	1.0 U	1.0 U	6.7 J	6.7 J	6-GW1DW-02	1/49
1,2-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	ND	ND		0/49
1,3-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	3.4	3.4	9-GW8-02	1/49
1,4-DICHLOROBENZENE	UG/L	1.0 U	1.0 U	3.9	10.0	6-GW1DW-02	2/49
ETHYLBENZENE	UG/L	1.0 U	1.0 U	2.0	52.0	6-GW1DW-02	3/49
TOLUENE	UG/L	1.0 U	1.0 U	1.4	2.2	9-GW8-02	2/49
XYLENES (TOTAL)	UG/L	1.0 U	1.0 U	2.1	14.0	9-GW8-02	2/49

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW28S-02	9-GW1-02	9-GW2-02	9-GW3-02	9-GW4-02	9-GW5-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	3/18/93	3/9/93	3/9/93	3/9/93	3/8/93	3/8/93	
Lab Id:	930136-07	930115-06	930115-10	930115-12	930115-14	930115-16	
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
BETA-BHC	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
DELTA-BHC	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
HEPTACHLOR	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
ALDRIN	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
ENDOSULFAN I	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
DIELDRIN	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.2 U
4,4'-DDE	UG/L	0.1 U	1 J	0.1 UJ	0.1 U	0.1 U	0.2 U
ENDRIN	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.2 U
ENDOSULFAN II	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.2 U
4,4'-DDD	UG/L	0.1 U	0.94 J	0.1 UJ	0.1 U	0.1 U	0.2 U
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.2 U
4,4'-DDT	UG/L	0.1 U	0.13 J	0.1 UJ	0.1 U	0.1 U	0.2 U
METHOXYCHLOR	UG/L	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	1 U
ENDRIN KETONE	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.2 U
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.2 U
ALPHA CHLORDANE	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
GAMMA CHLORDANE	UG/L	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.1 U
TOXAPHENE	UG/L	5 U	5 UJ	5 UJ	5 U	5 U	10 U
PCB-1016	UG/L	1 U	1 UJ	1 UJ	1 U	1 U	2 U
PCB-1221	UG/L	2 U	2 UJ	2 UJ	2 U	2 U	4 U
PCB-1232	UG/L	1 U	1 UJ	1 UJ	1 U	1 U	2 U
PCB-1242	UG/L	1 U	1 UJ	1 UJ	1 U	1 U	2 U
PCB-1248	UG/L	1 U	1 UJ	1 UJ	1 U	1 U	2 U
PCB-1254	UG/L	1 U	1 UJ	1 UJ	1 U	1 U	2 U
PCB-1260	UG/L	1 U	1 UJ	1 UJ	1 U	1 U	2 U
<u>SEMIVOLATILES</u>							
PHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
BIS(2-CHLOROETHYL)ETHER	UG/L	10 UJ	10 U	10 U	10 U	10 U	20 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
4-METHYLPHENOL	UG/L	10 UJ	10 U	10 U	10 U	10 U	20 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 UJ	10 U	10 U	10 U	10 U	20 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
BIS(2-CHLOROETHOXY) METHANE	UG/L	10 U	10 U	10 U	10 U	10 U	20 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	10 U	20 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW28S-02	9-GW1-02	9-GW2-02	9-GW3-02	9-GW4-02	9-GW5-02
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	3/18/93	3/9/93	3/9/93	3/9/93	3/8/93	3/8/93
Lab Id:	930136-07	930115-06	930115-10	930115-12	930115-14	930115-16
Parameter	Units					
<u>SEMIVOLATILES Cont.</u>						
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	20 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	20 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U	20 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U	20 U
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U	20 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	20 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U	20 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U	20 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	50 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U	20 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	50 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	20 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U	20 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	20 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	50 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U	20 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U	50 U
4-NITROPHENOL	UG/L	25 U	25 U	25 U	25 U	50 U
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U	20 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U	20 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	20 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	20 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U	20 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U	50 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U	50 U
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U	20 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U	20 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U	20 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U	50 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U	20 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	20 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	20 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	20 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U	20 U
PYRENE	UG/L	10 U	10 U	10 U	10 U	20 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	20 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U	20 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	20 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U	20 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	1 J	10 U	10 U	39
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U	20 U
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	20 U
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U	20 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U	20 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U	20 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U	20 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U	20 U

CLEJ-01272-3-13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	9-GW6-02	9-GW7DW-02	9-GW7S-02	9-GW8-02
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	3/8/93	3/8/93	3/8/93	3/9/93
	Lab Id:	930115-18	930115-20	930115-22	930115-24
Parameter	Units				
<u>PESTICIDE/PCBS</u>					
ALPHA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
BETA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
DELTA-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
ALDRIN	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
ENDOSULFAN I	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
DIELDRIN	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
ENDRIN	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
ENDOSULFAN II	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
ENDOSULFAN SULFATE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
METHOXYCHLOR	UG/L	0.5 U	0.5 U	0.5 U	0.5 U
ENDRIN KETONE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
ENDRIN ALDEHYDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U
ALPHA CHLORDANE	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
GAMMA CHLORDANE	UG/L	0.05 U	0.05 U	0.05 U	0.05 U
TOXAPHENE	UG/L	5 U	5 U	5 U	5 U
PCB-1016	UG/L	1 U	1 U	1 U	1 U
PCB-1221	UG/L	2 U	2 U	2 U	2 U
PCB-1232	UG/L	1 U	1 U	1 U	1 U
PCB-1242	UG/L	1 U	1 U	1 U	1 U
PCB-1248	UG/L	1 U	1 U	1 U	1 U
PCB-1254	UG/L	1 U	1 U	1 U	1 U
PCB-1260	UG/L	1 U	1 U	1 U	1 U
<u>SEMIVOLATILES</u>					
PHENOL	UG/L	10 U	5 J	10 U	10 U
BIS(2-CHLOROETHYL)ETHER	UG/L	10 U	10 U	10 U	10 U
2-CHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U
1,3-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
1,4-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
1,2-DICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
2-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 UJ	10 UJ	10 UJ	10 UJ
4-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	10 U	10 U	10 U
HEXACHLOROETHANE	UG/L	10 U	10 U	10 U	10 U
NITROBENZENE	UG/L	10 U	10 U	10 U	10 U
ISOPHORONE	UG/L	10 U	10 U	10 U	10 U
2-NITROPHENOL	UG/L	10 U	10 U	10 U	10 U
2,4-DIMETHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
BIS(2-CHLOROETHOXY)METHANE	UG/L	10 U	10 U	10 U	10 U
2,4-DICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

	Sample No:	9-GW6-02	9-GW7DW-02	9-GW7S-02	9-GW8-02
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	3/8/93	3/8/93	3/8/93	3/9/93
	Lab Id:	930115-18	930115-20	930115-22	930115-24
Parameter	Units				
<u>SEMIVOLATILES Cont.</u>					
1,2,4-TRICHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
NAPHTHALENE	UG/L	10 U	10 U	10 U	10 U
4-CHLORANILINE	UG/L	10 U	10 U	10 U	10 U
HEXACHLOROBUTADIENE	UG/L	10 U	10 U	10 U	10 U
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	10 U	10 U	10 U
2-METHYLNAPHTHALENE	UG/L	10 U	10 U	10 U	10 U
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	10 U	10 U	10 U
2,4,6-TRICHLOROPHENOL	UG/L	10 U	10 U	10 U	10 U
2,4,5-TRICHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U
2-CHLORONAPHTHALENE	UG/L	10 U	10 U	10 U	10 U
2-NITROANILINE	UG/L	25 U	25 U	25 U	25 U
DIMETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U
ACENAPHTHYLENE	UG/L	10 U	10 U	10 U	10 U
2,6-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U
3-NITROANILINE	UG/L	25 U	25 U	25 U	25 U
ACENAPHTHENE	UG/L	10 U	10 U	10 U	10 U
2,4-DINITROPHENOL	UG/L	25 U	25 U	25 U	25 U
4-NITROPHENOL	UG/L	25 UJ	25 UJ	25 UJ	25 UJ
DIBENZOFURAN	UG/L	10 U	10 U	10 U	10 U
2,4-DINITROTOLUENE	UG/L	10 U	10 U	10 U	10 U
DIETHYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U
FLUORENE	UG/L	10 U	10 U	10 U	10 U
4-NITROANILINE	UG/L	25 U	25 U	25 U	25 U
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	25 U	25 U	25 U
N-NITROSODIPHENYLAMINE	UG/L	10 U	10 U	10 U	10 U
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	10 U	10 U	10 U
HEXACHLOROBENZENE	UG/L	10 U	10 U	10 U	10 U
PENTACHLOROPHENOL	UG/L	25 U	25 U	25 U	25 U
PHENANTHRENE	UG/L	10 U	10 U	10 U	10 U
ANTHRACENE	UG/L	10 U	10 U	10 U	10 U
DI-N-BUTYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U
FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U
CARBAZOLE	UG/L	10 U	10 U	10 U	10 U
PYRENE	UG/L	10 U	10 U	10 U	10 U
BUTYL BENZYL PHTHALATE	UG/L	10 U	10 U	10 U	10 U
3,3-DICHLOROBENZIDINE	UG/L	10 U	10 U	10 U	10 U
BENZO(A)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U
CHRYSENE	UG/L	10 U	10 U	10 U	10 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	4 J	62	4 J	7 J
DI-N-OCTYL PHTHALATE	UG/L	10 U	10 U	10 U	6 J
BENZO(B)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U
BENZO(K)FLUORANTHENE	UG/L	10 U	10 U	10 U	10 U
BENZO(A)PYRENE	UG/L	10 U	10 U	10 U	10 U
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	10 U	10 U	10 U
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	10 U	10 U	10 U
BENZO(G,H,I)PERYLENE	UG/L	10 U	10 U	10 U	10 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units					
<u>FESTICIDE/PCBS</u>						
ALPHA-BHC	UG/L	0.05 U	0.1 U	ND	ND	0/10
BETA-BHC	UG/L	0.05 U	0.1 U	ND	ND	0/10
DELTA-BHC	UG/L	0.05 U	0.1 U	ND	ND	0/10
GAMMA-BHC(LINDANE)	UG/L	0.05 U	0.1 U	ND	ND	0/10
HEPTACHLOR	UG/L	0.05 U	0.1 U	ND	ND	0/10
ALDRIN	UG/L	0.05 U	0.1 U	ND	ND	0/10
HEPTACHLOR EPOXIDE	UG/L	0.05 U	0.1 U	ND	ND	0/10
ENDOSULFAN I	UG/L	0.05 U	0.1 U	ND	ND	0/10
DIELDRIN	UG/L	0.1 U	0.2 U	ND	ND	0/10
4,4'-DDE	UG/L	0.1 U	0.2 U	1 J	1 J	9-GW1-02 1/10
ENDRIN	UG/L	0.1 U	0.2 U	ND	ND	0/10
ENDOSULFAN II	UG/L	0.1 U	0.2 U	ND	ND	0/10
4,4'-DDD	UG/L	0.1 U	0.2 U	0.94 J	0.94 J	9-GW1-02 1/10
ENDOSULFAN SULFATE	UG/L	0.1 U	0.2 U	ND	ND	0/10
4,4'-DDT	UG/L	0.1 U	0.2 U	0.13 J	0.13 J	9-GW1-02 1/10
METHOXYCHLOR	UG/L	0.5 U	1 U	ND	ND	0/10
ENDRIN KETONE	UG/L	0.1 U	0.2 U	ND	ND	0/10
ENDRIN ALDEHYDE	UG/L	0.1 U	0.2 U	ND	ND	0/10
ALPHA CHLORDANE	UG/L	0.05 U	0.1 U	ND	ND	0/10
GAMMA CHLORDANE	UG/L	0.05 U	0.1 U	ND	ND	0/10
TOXAPHENE	UG/L	5 U	10 U	ND	ND	0/10
PCB-1016	UG/L	1 U	2 U	ND	ND	0/10
PCB-1221	UG/L	2 U	4 U	ND	ND	0/10
PCB-1232	UG/L	1 U	2 U	ND	ND	0/10
PCB-1242	UG/L	1 U	2 U	ND	ND	0/10
PCB-1248	UG/L	1 U	2 U	ND	ND	0/10
PCB-1254	UG/L	1 U	2 U	ND	ND	0/10
PCB-1260	UG/L	1 U	2 U	ND	ND	0/10
<u>SEMIVOLATILES</u>						
PHENOL	UG/L	10 U	20 U	5 J	5 J	9-GW7DW-02 1/10
BIS(2-CHLOROETHYL)ETHER	UG/L	10 U	20 U	ND	ND	0/10
2-CHLOROPHENOL	UG/L	10 U	20 U	ND	ND	0/10
1,3-DICHLOROENZENE	UG/L	10 U	20 U	ND	ND	0/10
1,4-DICHLOROENZENE	UG/L	10 U	20 U	ND	ND	0/10
1,2-DICHLOROENZENE	UG/L	10 U	20 U	ND	ND	0/10
2-METHYLPHENOL	UG/L	10 U	20 U	ND	ND	0/10
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/L	10 U	20 U	ND	ND	0/10
4-METHYLPHENOL	UG/L	10 U	20 U	ND	ND	0/10
N-NITROSODI-N-PROPYLAMINE	UG/L	10 U	20 U	ND	ND	0/10
HEXACHLOROETHANE	UG/L	10 U	20 U	ND	ND	0/10
NITROBENZENE	UG/L	10 U	20 U	ND	ND	0/10
ISOPHORONE	UG/L	10 U	20 U	ND	ND	0/10
2-NITROPHENOL	UG/L	10 U	20 U	ND	ND	0/10
2,4-DIMETHYLPHENOL	UG/L	10 U	20 U	ND	ND	0/10
BIS(2-CHLOROETHOXY)METHANE	UG/L	10 U	20 U	ND	ND	0/10
2,4-DICHLOROPHENOL	UG/L	10 U	20 U	ND	ND	0/10

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>SEMIVOLATILES Cont.</u>							
1,2,4-TRICHLOROBENZENE	UG/L	10 U	20 U	ND	ND		0/10
NAPHTHALENE	UG/L	10 U	20 U	17	17	9-GW4-02	1/10
4-CHLORANILINE	UG/L	10 U	20 U	ND	ND		0/10
HEXACHLOROBUTADIENE	UG/L	10 U	20 U	ND	ND		0/10
4-CHLORO-3-METHYLPHENOL	UG/L	10 U	20 U	ND	ND		0/10
2-METHYLNAPHTHALENE	UG/L	10 U	20 U	1 J	1 J	9-GW4-02	1/10
HEXACHLOROCYCLOPENTADIENE	UG/L	10 U	20 U	ND	ND		0/10
2,4,6-TRICHLOROPHENOL	UG/L	10 U	20 U	ND	ND		0/10
2,4,5-TRICHLOROPHENOL	UG/L	25 U	50 U	ND	ND		0/10
2-CHLORONAPHTHALENE	UG/L	10 U	20 U	ND	ND		0/10
2-NITROANILINE	UG/L	25 U	50 U	ND	ND		0/10
DIMETHYL PHTHALATE	UG/L	10 U	20 U	ND	ND		0/10
ACENAPHTHYLENE	UG/L	10 U	20 U	ND	ND		0/10
2,6-DINITROTOLUENE	UG/L	10 U	20 U	ND	ND		0/10
3-NITROANILINE	UG/L	25 U	50 U	ND	ND		0/10
ACENAPHTHENE	UG/L	10 U	20 U	11 J	11 J	9-GW4-02	1/10
2,4-DINITROPHENOL	UG/L	25 U	50 U	ND	ND		0/10
4-NITROPHENOL	UG/L	25 U	50 U	ND	ND		0/10
DIBENZOFURAN	UG/L	10 U	20 U	1 J	1 J	9-GW4-02	1/10
2,4-DINITROTOLUENE	UG/L	10 U	20 U	ND	ND		0/10
DIETHYL PHTHALATE	UG/L	10 U	20 U	ND	ND		0/10
4-CHLOROPHENYL PHENYL ETHER	UG/L	10 U	20 U	ND	ND		0/10
FLUORENE	UG/L	10 U	20 U	3 J	3 J	9-GW4-02	1/10
4-NITROANILINE	UG/L	25 U	50 U	ND	ND		0/10
4,6-DINITRO-2-METHYLPHENOL	UG/L	25 U	50 U	ND	ND		0/10
N-NITRISODIPHENYLAMINE	UG/L	10 U	20 U	ND	ND		0/10
4-BROMOPHENYL PHENYL ETHER	UG/L	10 U	20 U	ND	ND		0/10
HEXACHLOROBENZENE	UG/L	10 U	20 U	ND	ND		0/10
PENTACHLOROPHENOL	UG/L	25 U	50 U	ND	ND		0/10
PHENANTHRENE	UG/L	10 U	20 U	3 J	3 J	9-GW4-02	1/10
ANTHRACENE	UG/L	10 U	20 U	ND	ND		0/10
DI-N-BUTYL PHTHALATE	UG/L	10 U	20 U	ND	ND		0/10
FLUORANTHENE	UG/L	10 U	20 U	6 J	6 J	9-GW4-02	1/10
CARBAZOLE	UG/L	10 U	20 U	ND	ND		0/10
PYRENE	UG/L	10 U	20 U	3 J	3 J	9-GW4-02	1/10
BUTYL BENZYL PHTHALATE	UG/L	10 U	20 U	ND	ND		0/10
3,3-DICHLORO BENZIDINE	UG/L	10 U	20 U	ND	ND		0/10
BENZO(A)ANTHRACENE	UG/L	10 U	20 U	ND	ND		0/10
CHRYSENE	UG/L	10 U	20 U	ND	ND		0/10
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	10 U	10 U	1 J	62	9-GW7DW-02	7/10
DI-N-OCTYL PHTHALATE	UG/L	10 U	20 U	6 J	6 J	9-GW8-02	1/10
BENZO(B)FLUORANTHENE	UG/L	10 U	20 U	ND	ND		0/10
BENZO(K)FLUORANTHENE	UG/L	10 U	20 U	ND	ND		0/10
BENZO(A)PYRENE	UG/L	10 U	20 U	ND	ND		0/10
INDENO(1,2,3-CD) PYRENE	UG/L	10 U	20 U	ND	ND		0/10
DIBENZ(A,H)ANTHRACENE	UG/L	10 U	20 U	ND	ND		0/10
BENZO(G,H,I)PERYLENE	UG/L	10 U	20 U	ND	ND		0/10

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

	Sample No:	6-GW28S-02	9-GW1-02	9-GW2-02	9-GW3-02	9-GW4-02	9-GW5-02
	Depth:	N/A	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	N/A	3/9/93	3/9/93	3/9/93	3/8/93	3/8/93
	Lab Id:	30136-07	30115-06	30115-10	30115-12	30115-14	30115-16
Parameter	Units						
ALUMINUM	UG/L	8170	380000 J	154000 J	64500 J	1970 J	1460 J
ANTIMONY	UG/L	22 U	22 UR	22 UR	22 UR	22 UR	22 UR
ARSENIC	UG/L	2.3 U	25.4 J	5.6 JB	2.5 JB	1.1 JB	1 UJ
BARIUM	UG/L	80.8 B	745	279	413	38.4 B	74.6 B
BERYLLIUM	UG/L	1 U	3.5 B	2 B	1 B	1 U	1 U
CADMIUM	UG/L	3 U	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ
CALCIUM	UG/L	2720 B	142000	45100 U	26600 U	27600 U	62500
CHROMIUM	UG/L	18.4	351 J	170 J	60.5 J	6 UJ	6 UJ
COBALT	UG/L	3 U	16.9 U	16.2 U	3.6 U	3.8 U	3 U
COPPER	UG/L	3.5 UJ	132 UJ	42.2 U	14.7 U	2.9 UJ	2 U
CYANIDE	UG/L	10 U					
IRON	UG/L	4070	135000 J	24800 J	10400 J	1420 J	498 J
LEAD	UG/L	2.3 B	408 J	31 J	18 J	1.2 UJ	2.2 UJ
MAGNESIUM	UG/L	2580 B	9820 UJ	4780 UJ	2470 UJ	1520 UJ	2130 UJ
MANGANESE	UG/L	12.9 B	278 J	37 J	29.9 J	3.6 JB	1.5 JB
MERCURY	UG/L	0.17 UJ	0.17 U	0.19 JB	0.19 JB	0.13 U	0.13 U
NICKEL	UG/L	17 U	61.8	38.5 B	17 U	17 U	17 U
POTASSIUM	UG/L	1220 B	17300 J	6380 UJ	2630 UJ	422 UJ	9910 J
SELENIUM	UG/L	2 UJ	7.9 J	2 UJ	3.3 JB	2 UJ	3.3 JB
SILVER	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
SODIUM	UG/L	8310	1790 U	2100 U	2160 U	4300 U	3390 U
THALLIUM	UG/L	3 U	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ
VANADIUM	UG/L	15.8 B	400 J	149 J	47.4 JB	3 UJ	6.2 JB
ZINC	UG/L	19.6 B	409 J	58.2	35.3	3 U	4.2 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Sample No:	9-GW6-02	9-GW7DW-02	9-GW7S-02	9-GW8-02
Depth:	N/A	N/A	N/A	N/A
Date Sampled:	3/8/93	3/8/93	3/8/93	3/9/93
Lab Id:	30115-18	30115-20	31115-22	31115-24

Parameter	Units	9-GW6-02	9-GW7DW-02	9-GW7S-02	9-GW8-02
ALUMINUM	UG/L	1880 J	1360 J	604 J	5190 J
ANTIMONY	UG/L	22 UR	22 UR	22 UR	22 UR
ARSENIC	UG/L	1.1 JB	1 UJ	1.4 UJ	1.4 UJ
BARIUM	UG/L	14 UJ	356	6.5 UJ	21.3 B
BERYLLIUM	UG/L	1 U	1 U	1 U	1 U
CADMIUM	UG/L	3 UJ	3 UJ	3 UJ	3 UJ
CALCIUM	UG/L	38200 U	162000	19300 U	16200 U
CHROMIUM	UG/L	6 UJ	6 UJ	6 UJ	6 UJ
COBALT	UG/L	3 U	3 U	3 U	3 U
COPPER	UG/L	2 U	2.1 UJ	2 U	3.3 UJ
CYANIDE	UG/L				
IRON	UG/L	592 J	1230 J	782 J	1300 J
LEAD	UG/L	1 UJ	2.2 UJ	3 UJ	3 UJ
MAGNESIUM	UG/L	920 UJ	2780 UJ	784 UJ	1240 UJ
MANGANESE	UG/L	1 UJ	49.3 J	3.9 JB	3.3 JB
MERCURY	UG/L	0.13 U	0.13 U	0.14 U	0.13 U
NICKEL	UG/L	17 U	17 U	17 U	17 U
POTASSIUM	UG/L	625 UJ	53000 J	560 UJ	3830 UJ
SELENIUM	UG/L	2.2 JB	2.1 JB	3.6 JB	2.4 JB
SILVER	UG/L	3 U	3 U	3 U	3 U
SODIUM	UG/L	1260 U	50800 U	2560 U	1690 U
THALLIUM	UG/L	3 UJ	3 UJ	3 UJ	3 UJ
VANADIUM	UG/L	4.3 JB	3 UJ	4.1 JB	10.3 JB
ZINC	UG/L	5.4 U	10.4 U	4.3 U	5.8 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
ALUMINUM	UG/L	NA	NA	604 J	380000 J	9-GW1-02	10/10
ANTIMONY	UG/L	22 U	22 U	ND	ND		0/10
ARSENIC	UG/L	1 UJ	2.3 U	1.1 JB	25.4 J	9-GW1-02	5/10
BARIUM	UG/L	6.5 UJ	14 UJ	21.3 B	745	9-GW1-02	8/10
BERYLLIUM	UG/L	1 U	1 U	1 B	3.5 B	9-GW1-02	3/10
CADMIUM	UG/L	3 U	3 U	ND	ND		0/10
CALCIUM	UG/L	16200 U	45100 U	2720 B	162000	9-GW7DW-02	4/10
CHROMIUM	UG/L	6 UJ	6 UJ	18.4	351 J	9-GW1-02	4/10
COBALT	UG/L	3 U	16.9 U	ND	ND		0/10
COPPER	UG/L	2 U	132 UJ	ND	ND		0/10
CYANIDE	UG/L	10 U	10 U	ND	ND		0/1
IRON	UG/L	NA	NA	498 J	135000 J	9-GW1-02	10/10
LEAD	UG/L	1 UJ	3 UJ	2.3 B	408 J	9-GW1-02	4/10
MAGNESIUM	UG/L	784 UJ	9820 UJ	2580 B	2580 B	6-GW28S-02	1/10
MANGANESE	UG/L	1 UJ	1 UJ	1.5 JB	278 J	9-GW1-02	9/10
MERCURY	UG/L	0.13 U	0.17 UJ	0.19 JB	0.19 JB	9-GW3-02	2/10
NICKEL	UG/L	17 U	17 U	38.5 B	61.8	9-GW1-02	2/10
POTASSIUM	UG/L	422 UJ	6380 UJ	1220 B	53000 J	9-GW7DW-02	4/10
SELENIUM	UG/L	2 UJ	2 UJ	2.1 JB	7.9 J	9-GW1-02	7/10
SILVER	UG/L	3 U	3 U	ND	ND		0/10
SODIUM	UG/L	1260 U	50800 U	8310	8310	6-GW28S-02	1/10
THALLIUM	UG/L	3 U	3 U	ND	ND		0/10
VANADIUM	UG/L	3 UJ	3 UJ	4.1 JB	400 J	9-GW1-02	8/10
ZINC	UG/L	3 U	10.4 U	19.6 B	409 J	9-GW1-02	4/10

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

Sample No:	6-GW28SD-02	9-GW1D-02	9-GW2D-02	9-GW3D-02	9-GW4D-02	9-GW5D-02	
Depth:	N/A	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	N/A	3/9/93	3/9/93	3/9/93	3/8/93	3/8/93	
Lab Id:	30136-08	30115-08	30115-11	30115-13	30115-15	30115-17	
Parameter	Units						
ALUMINUM	UG/L	28.2 U	117 U	796	49.8 U	457	52.2 U
ANTIMONY	UG/L	22 U	22 U	22 U	22 U	22 U	22 U
ARSENIC	UG/L	1 U	1 B	6.3 JB	1.4 B	1 U	1 U
BARIUM	UG/L	9.1 JB	36.2 B	7.4 UJ	3.8 UJ	37.4 B	73.4 B
BERYLLIUM	UG/L	1 U	1 U	1 U	1 U	1 U	1 U
CADMIUM	UG/L	3 U	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ
CALCIUM	UG/L	1930 B	74600	33100	18500	28900	65800
CHROMIUM	UG/L	6 U	6 U	6 U	6 U	6 UJ	6 UJ
COBALT	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
COPPER	UG/L	18.5 B	14.7 U	8.3 U	4.9 UJ	6.4 U	8.6 U
IRON	UG/L	20.7 U	59.3 U	106 U	12 UJ	801	14.7 U
LEAD	UG/L	1 U	1 U	1 U	1 U	1 U	1 U
MAGNESIUM	UG/L	2080 B	1690 U	960 U	689 U	1590 U	2240 U
MANGANESE	UG/L	4.4 B	14.6 B	1 U	2.1 B	3.5 B	1 U
MERCURY	UG/L	0.22 U	0.13 U	0.14 U	0.15 U	0.13 U	0.14 U
NICKEL	UG/L	17 U	17 U	17 U	17 U	17 U	17 U
POTASSIUM	UG/L	808 U	4780 B	820 U	738 U	471 U	10600
SELENIUM	UG/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
SILVER	UG/L	3 U	3 U	3 U	3 U	3 U	3 U
SODIUM	UG/L	8350	1220 U	2060 U	2190 U	4550 U	3590 U
THALLIUM	UG/L	3 U	3 UJ	3 U	3 U	3 UJ	3 UJ
VANADIUM	UG/L	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	4 B
ZINC	UG/L	13.5 U	5.7 U	3.2 U	3 U	3.3 U	3 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMPLEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

	Sample No:	9-GW6D-02	9-GW7DWD-02	9-GW7SD-02	9-GW8D-02
	Depth:	N/A	N/A	N/A	N/A
	Date Sampled:	3/8/93	3/8/93	3/8/93	3/9/93
	Lab Id:	30115-19	31115-21	31115-23	31115-25
Parameter	Units				
ALUMINUM	UG/L	96.6 U	75.6 U	42 U	150 B
ANTIMONY	UG/L	22 U	22 U	22 U	22 U
ARSENIC	UG/L	1 U	1 U	1 U	1.4 UJ
BARIUM	UG/L	11 UJ	3.8 UJ	6.3 UJ	11.3 UJ
BERYLLIUM	UG/L	1 U	1 U	1 U	1 U
CADMIUM	UG/L	3 UJ	3 UJ	3 UJ	3 UJ
CALCIUM	UG/L	41600	1200 U	19500	16500
CHROMIUM	UG/L	6 UJ	6 U	6 U	6 U
COBALT	UG/L	3 U	3 U	3 U	3 U
COPPER	UG/L	8.1 U	2.8 UJ	8.4 U	4.9 UJ
IRON	UG/L	13.1 U	12 UJ	116	29.8 B
LEAD	UG/L	1 U	3 U	3 U	3 U
MAGNESIUM	UG/L	973 U	241 U	807 U	1180 U
MANGANESE	UG/L	1 U	1 UJ	3 B	1.8 B
MERCURY	UG/L	0.14 U	0.14 U	0.14 U	0.14 U
NICKEL	UG/L	17 U	17 U	17 U	17 U
POTASSIUM	UG/L	609 U	55200	673 U	3850 B
SELENIUM	UG/L	2.2 JB	2 UJ	3.7 JB	2.6 B
SILVER	UG/L	3 U	3 U	3 U	3 U
SODIUM	UG/L	1210 U	52500 U	2750 U	1830 U
THALLIUM	UG/L	3 UJ	3 UJ	3 U	3 U
VANADIUM	UG/L	3 UJ	3 UJ	3 UJ	5 B
ZINC	UG/L	3 U	3 U	3 U	3 U

CLEJ-01272-3.13-08/20/93

OPERABLE UNIT NO. 2
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 DISSOLVED METALS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
ALUMINUM	UG/L	28.2 U	117 U	150 B	796	9-GW2D-02	3/10
ANTIMONY	UG/L	22 U	22 U	ND	ND		0/10
ARSENIC	UG/L	1 U	1.4 UJ	1 B	6.3 JB	9-GW2D-02	3/10
BARIUM	UG/L	3.8 UJ	11.3 UJ	9.1 JB	73.4 B	9-GW5D-02	4/10
BERYLLIUM	UG/L	1 U	1 U	ND	ND		0/10
CADMIUM	UG/L	3 U	3 U	ND	ND		0/10
CALCIUM	UG/L	1200 U	1200 U	1930 B	74600	9-GW1D-02	9/10
CHROMIUM	UG/L	6 U	6 U	ND	ND		0/10
COBALT	UG/L	3 U	3 U	ND	ND		0/10
COPPER	UG/L	2.8 UJ	14.7 U	18.5 B	18.5 B	6-GW28SD-02	1/10
IRON	UG/L	12 UJ	106 U	29.8 B	801	9-GW4D-02	3/10
LEAD	UG/L	1 U	3 U	ND	ND		0/10
MAGNESIUM	UG/L	241 U	2240 U	2080 B	2080 B	6-GW28SD-02	1/10
MANGANESE	UG/L	1 U	1 U	1.8 B	14.6 B	9-GW1D-02	6/10
MERCURY	UG/L	0.13 U	0.22 U	ND	ND		0/10
NICKEL	UG/L	17 U	17 U	ND	ND		0/10
POTASSIUM	UG/L	471 U	820 U	3850 B	55200	9-GW7DWD-02	4/10
SELENIUM	UG/L	2 UJ	2 UJ	2.2 JB	3.7 JB	9-GW7SD-02	3/10
SILVER	UG/L	3 U	3 U	ND	ND		0/10
SODIUM	UG/L	1210 U	52500 U	8350	8350	6-GW28SD-02	1/10
THALLIUM	UG/L	3 U	3 U	ND	ND		0/10
VANADIUM	UG/L	3 UJ	3 UJ	4 B	5 B	9-GW8D-02	2/10
ZINC	UG/L	3 U	13.5 U	ND	ND		0/10

CLEJ-01272-3.13-08/20/93

L.18

**Wooded Areas and Ravine Area (Site 82)
Surface and Subsurface Soils**

WOODS & RAVINE AREA (SITE 82) SURFACE SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-2030-SB21-00	6-2030-SB22-00	6-2030-SB23-00	6-2030-SB24-00	6-2030-SB25-00
Depth:	N/A	N/A	N/A	N/A	N/A
Date Sampled:	3/4/93	3/4/93	3/4/93	3/5/93	3/5/93
Lab Id:	930095-17	930095-19	930095-21	930095-23	930095-26
Parameter	Units				
<u>VOLATILES</u>					
CHLOROMETHANE	UG/KG	12 U	12 U	11 U	13 U
BROMOMETHANE	UG/KG	12 U	12 U	11 U	13 U
VINYL CHLORIDE	UG/KG	12 U	12 U	11 U	13 U
CHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	11 U	13 U
ACETONE	UG/KG	25 U	12 U	12 U	13 U
CARBON DISULFIDE	UG/KG	12 U	12 U	11 U	13 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	13 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	11 U	13 U
CHLOROFORM	UG/KG	12 U	12 U	11 U	13 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U
2-BUTANONE	UG/KG	12 U	12 U	11 U	13 U
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	11 U	13 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	11 U	13 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	11 U	13 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 U	13 U
TRICHLOROETHENE	UG/KG	12 U	12 U	11 U	13 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	11 U	13 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U
BENZENE	UG/KG	12 U	12 U	11 U	13 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	11 U	13 U
BROMOFORM	UG/KG	12 U	12 U	11 U	13 U
4-METHYL-2-PENTANONE	UG/KG	12 U	12 U	11 U	13 U
2-HEXANONE	UG/KG	12 U	12 U	11 U	13 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	11 U	13 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	11 U	13 U
TOLUENE	UG/KG	12 U	12 U	11 U	13 U
CHLOROBENZENE	UG/KG	12 U	12 U	11 U	13 U
ETHYLBENZENE	UG/KG	12 U	12 U	11 U	13 U
STYRENE	UG/KG	12 U	12 U	11 U	13 U
TOTAL XYLENES	UG/KG	12 U	12 U	11 U	13 U

CLEJ-01272-3.13-08/20/93

WOODS & RAVINE AREA (SITE 82) SURFACE SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEBUNE, NORTH CAROLINA
 ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
	Units						
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	13 U	ND	ND		0/5
BROMOMETHANE	UG/KG	11 U	13 U	ND	ND		0/5
VINYL CHLORIDE	UG/KG	11 U	13 U	ND	ND		0/5
CHLOROETHANE	UG/KG	11 U	13 U	ND	ND		0/5
METHYLENE CHLORIDE	UG/KG	11 U	13 U	ND	ND		0/5
ACETONE	UG/KG	12 U	25 U	ND	ND		0/5
CARBON DISULFIDE	UG/KG	11 U	13 U	ND	ND		0/5
1,1-DICHLOROETHENE	UG/KG	11 U	13 U	ND	ND		0/5
1,1-DICHLOROETHANE	UG/KG	11 U	13 U	ND	ND		0/5
1,2-DICHLOROETHENE	UG/KG	11 U	13 U	ND	ND		0/5
CHLOROFORM	UG/KG	11 U	13 U	ND	ND		0/5
1,2-DICHLOROETHANE	UG/KG	11 U	13 U	ND	ND		0/5
2-BUTANONE	UG/KG	11 U	13 U	ND	ND		0/5
1,1,1-TRICHLOROETHANE	UG/KG	11 U	13 U	ND	ND		0/5
CARBON TETRACHLORIDE	UG/KG	11 U	13 U	ND	ND		0/5
BROMODICHLOROMETHANE	UG/KG	11 U	13 U	ND	ND		0/5
1,2-DICHLOROPROPANE	UG/KG	11 U	13 U	ND	ND		0/5
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	13 U	ND	ND		0/5
TRICHLOROETHENE	UG/KG	11 U	13 U	ND	ND		0/5
DIBROMOCHLOROMETHANE	UG/KG	11 U	13 U	ND	ND		0/5
1,1,2-TRICHLOROETHANE	UG/KG	11 U	13 U	ND	ND		0/5
BENZENE	UG/KG	11 U	13 U	ND	ND		0/5
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	13 U	ND	ND		0/5
BROMOFORM	UG/KG	11 U	13 U	ND	ND		0/5
4-METHYL-2-PENTANONE	UG/KG	11 U	13 U	ND	ND		0/5
2-HEXANONE	UG/KG	11 U	13 U	ND	ND		0/5
TETRACHLOROETHENE	UG/KG	11 U	13 U	ND	ND		0/5
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	13 U	ND	ND		0/5
TOLUENE	UG/KG	11 U	13 U	ND	ND		0/5
CHLOROBENZENE	UG/KG	11 U	13 U	ND	ND		0/5
ETHYLBENZENE	UG/KG	11 U	13 U	ND	ND		0/5
STYRENE	UG/KG	11 U	13 U	ND	ND		0/5
TOTAL XYLENES	UG/KG	11 U	13 U	ND	ND		0/5

CLEJ-01272-3.13-08/20/93

WOODS & RAVINE AREA (SITE 82) SUBSURFACE SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Units	6-2030-SB21-02	6-2030-SB22-04	6-2030-SB23-04	6-2030-SB24-01	6-2030-SB25-01	6-GW15D-02
Sample No:		6-2030-SB21-02	6-2030-SB22-04	6-2030-SB23-04	6-2030-SB24-01	6-2030-SB25-01	6-GW15D-02
Depth:		N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:		3/4/93	3/4/93	3/4/93	3/5/93	3/5/93	3/30/93
Lab Id:		930095-18	930095-20	930095-22	930095-25	930095-27	930170-01
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
BROMOMETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
VINYL CHLORIDE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
CHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
ACETONE	UG/KG	12 U	12 U	12 U	12 U	13 U	20 U
CARBON DISULFIDE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
CHLOROFORM	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
2-BUTANONE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
TRICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	13 U	4 J
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
BENZENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
BROMOFORM	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
4-METHYL-2-PENTANONE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
2-HEXANONE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
TOLUENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
CHLOROENZENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
ETHYLBENZENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
STYRENE	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U
TOTAL XYLENES	UG/KG	12 U	12 U	12 U	12 U	13 U	11 U

CLEJ-01272-3.13-08/20/93

WOODS & RAVINE AREA (SITE 82) SUBSURFACE SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW15D-04	6-GW1DA-06	6-GW1DA-07	6-GW30D-02	6-GW30D-03	6-GW31-06
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	3/30/93	4/3/93	4/3/93	3/2/93	3/2/93	3/2/93
Lab Id:	930170-02	930170-11	930170-12	930095-01	930095-02	930095-04
Parameter	Units					
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
BROMOMETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
VINYL CHLORIDE	UG/KG	12 U	12 U	12 U	21 U	21 U
CHLOROETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	12 U	21 U	21 U
ACETONE	UG/KG	14 U	14 U	12 U	290	180
CARBON DISULFIDE	UG/KG	12 U	12 U	12 U	21 U	21 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	21 U	21 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	21 U	21 U
CHLOROFORM	UG/KG	12 U	12 U	12 U	21 U	21 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
2-BUTANONE	UG/KG	12 U	12 U	12 U	21 U	21 U
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	12 U	21 U	21 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	12 U	21 U	21 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	21 U	21 U
TRICHLOROETHENE	UG/KG	12 U	12 U	12 U	21 U	21 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
BENZENE	UG/KG	12 U	12 U	12 U	21 U	21 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	21 U	21 U
BROMOFORM	UG/KG	12 U	12 U	12 U	21 U	21 U
4-METHYL-2-PENTANONE	UG/KG	12 U	12 U	12 U	21 U	21 U
2-HEXANONE	UG/KG	12 U	12 U	12 U	21 U	21 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	12 U	21 U	21 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	12 U	21 U	21 U
TOLUENE	UG/KG	12 U	12 U	12 U	21 U	21 U
CHLOROBENZENE	UG/KG	12 U	12 U	12 U	21 U	21 U
ETHYLBENZENE	UG/KG	12 U	12 U	12 U	21 U	21 U
STYRENE	UG/KG	12 U	12 U	12 U	21 U	21 U
TOTAL XYLENES	UG/KG	12 U	12 U	12 U	21 U	21 U

CLEJ-01272-3.13-08/20/93

WOODS & RAVINE AREA (SITE 82) SUBSURFACE SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-GW32-06	6-GW32-07	6-GW32-09	6-GW33-04	6-GW33-06	6-GW34-10
Depth:	N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:	3/6/93	3/6/93	3/6/93	3/3/93	3/3/93	3/3/93
Lab Id:	930095-31	930095-32	930095-33	930095-07	930095-08	930095-09
Parameter	Units					
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
BROMOMETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
VINYL CHLORIDE	UG/KG	12 U	12 U	12 U	12 U	11 U
CHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	12 U	12 U	12 U	12 U	11 U
ACETONE	UG/KG	12 U	12 U	12 U	12 U	11 U
CARBON DISULFIDE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,1-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	11 U
CHLOROFORM	UG/KG	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
2-BUTANONE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,1,1-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
CARBON TETRACHLORIDE	UG/KG	12 U	12 U	12 U	12 U	11 U
BROMODICHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	12 U	12 U	12 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	12 U	11 U
TRICHLOROETHENE	UG/KG	12 U	12 U	13 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	11 U
BENZENE	UG/KG	12 U	12 U	12 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U	12 U	12 U	12 U	11 U
BROMOFORM	UG/KG	12 U	12 U	12 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	12 U	12 U	12 U	12 U	11 U
2-HEXANONE	UG/KG	12 U	12 U	12 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	12 U	12 U	12 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U	12 U	12 U	12 U	49
TOLUENE	UG/KG	12 U	12 U	12 U	12 U	11 U
CHLOROBENZENE	UG/KG	12 U	12 U	12 U	12 U	11 U
ETHYLBENZENE	UG/KG	12 U	12 U	12 U	12 U	11 U
STYRENE	UG/KG	12 U	12 U	12 U	12 U	11 U
TOTAL XYLENES	UG/KG	12 U	12 U	12 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

WOODS & RAVINE AREA (SITE 82) SUBSURFACE SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJUNE, NORTH CAROLINA
 ORGANICS

Parameter	Units	6-GW34-12	6-GW35D-03	6-GW35D-04	6-GW36D-03	6-GW36D-04	6-GW37D-03
Sample No:		6-GW34-12	6-GW35D-03	6-GW35D-04	6-GW36D-03	6-GW36D-04	6-GW37D-03
Depth:		N/A	N/A	N/A	N/A	N/A	N/A
Date Sampled:		3/4/93	3/5/93	3/5/93	3/18/93	3/18/93	3/9/93
Lab Id:		930095-30	930095-35	930095-36	930136-17	930136-18	930115-01
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
BROMOMETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
VINYL CHLORIDE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
CHLOROETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
METHYLENE CHLORIDE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
ACETONE	UG/KG	59 U	1600 U	50 UJ	20 UJ	12 UJ	10 J
CARBON DISULFIDE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
1,1-DICHLOROETHENE	UG/KG	58 U	1600 U	13 U	11 UJ	12 UJ	11 U
1,1-DICHLOROETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
1,2-DICHLOROETHENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
CHLOROFORM	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
1,2-DICHLOROETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
2-BUTANONE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
1,1,1-TRICHLOROETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
CARBON TETRACHLORIDE	UG/KG	58 U	1600 U	13 U	11 UJ	12 UJ	11 U
BROMODICHLOROMETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
1,2-DICHLOROPROPANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
CIS-1,3-DICHLOROPROPENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
TRICHLOROETHENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
DIBROMOCHLOROMETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
1,1,2-TRICHLOROETHANE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
BENZENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
BROMOFORM	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
4-METHYL-2-PENTANONE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
2-HEXANONE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
TETRACHLOROETHENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	1100	1600 U	13 U	11 U	12 U	11 U
TOLUENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
CHLOROBENZENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
ETHYLBENZENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
STYRENE	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U
TOTAL XYLENES	UG/KG	58 U	1600 U	13 U	11 U	12 U	11 U

CLEJ-01272-3.13-08/20/93

WOODS & RAVINE AREA (SITE 82) SUBSURFACE SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No: 6-GW37D-04
 Depth: N/A
 Date Sampled: 3/9/93
 Lab Id: 930115-02

Parameter	Units	
<u>VOLATILES</u>		
CHLOROMETHANE	UG/KG	12 U
BROMOMETHANE	UG/KG	12 U
VINYL CHLORIDE	UG/KG	12 U
CHLOROETHANE	UG/KG	12 U
METHYLENE CHLORIDE	UG/KG	12 U
ACETONE	UG/KG	15
CARBON DISULFIDE	UG/KG	12 U
1,1-DICHLOROETHENE	UG/KG	12 U
1,1-DICHLOROETHANE	UG/KG	12 U
1,2-DICHLOROETHENE	UG/KG	12 U
CHLOROPFORM	UG/KG	12 U
1,2-DICHLOROETHANE	UG/KG	12 U
2-BUTANONE	UG/KG	12 U
1,1,1-TRICHLOROETHANE	UG/KG	12 U
CARBON TETRACHLORIDE	UG/KG	12 U
BROMODICHLOROMETHANE	UG/KG	12 U
1,2-DICHLOROPROPANE	UG/KG	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	12 U
TRICHLOROETHENE	UG/KG	12 U
DIBROMOCHLOROMETHANE	UG/KG	12 U
1,1,2-TRICHLOROETHANE	UG/KG	12 U
BENZENE	UG/KG	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	12 U
BROMOFORM	UG/KG	12 U
4-METHYL-2-PENTANONE	UG/KG	12 U
2-HEXANONE	UG/KG	12 U
TETRACHLOROETHENE	UG/KG	12 U
1,1,2,2-TETRACHLOROETHANE	UG/KG	12 U
TOLUENE	UG/KG	12 U
CHLOROBENZENE	UG/KG	12 U
ETHYLBENZENE	UG/KG	12 U
STYRENE	UG/KG	12 U
TOTAL XYLENES	UG/KG	12 U

CLEJ-01272-3.13-08/20/93

WOODS & RAVINE AREA (SITE 82) SUBSURFACE SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	1600 U	ND	ND		0/25
BROMOMETHANE	UG/KG	11 U	1600 U	22 J	22 J	6-GW31-06	1/25
VINYL CHLORIDE	UG/KG	11 U	1600 U	ND	ND		0/25
CHLOROETHANE	UG/KG	11 U	1600 U	ND	ND		0/25
METHYLENE CHLORIDE	UG/KG	11 U	1600 U	12 J	12 J	6-GW37D-04	1/25
ACETONE	UG/KG	11 U	1600 U	10 J	290	6-GW30D-02	4/25
CARBON DISULFIDE	UG/KG	11 U	1600 U	ND	ND		0/25
1,1-DICHLOROETHENE	UG/KG	11 U	1600 U	ND	ND		0/25
1,1-DICHLOROETHANE	UG/KG	11 U	1600 U	ND	ND		0/25
1,2-DICHLOROETHENE	UG/KG	11 U	1600 U	12 J	12 J	6-GW37D-04	1/25
CHLOROFORM	UG/KG	11 U	1600 U	ND	ND		0/25
1,2-DICHLOROETHANE	UG/KG	11 U	1600 U	ND	ND		0/25
2-BUTANONE	UG/KG	11 U	1600 U	ND	ND		0/25
1,1,1-TRICHLOROETHANE	UG/KG	11 U	1600 U	ND	ND		0/25
CARBON TETRACHLORIDE	UG/KG	11 U	1600 U	ND	ND		0/25
BROMODICHLOROMETHANE	UG/KG	11 U	1600 U	ND	ND		0/25
1,2-DICHLOROPROPANE	UG/KG	11 U	1600 U	ND	ND		0/25
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	1600 U	ND	ND		0/25
TRICHLOROETHENE	UG/KG	11 U	1600 U	4 J	13 J	6-GW35D-04	2/25
DIBROMOCHLOROMETHANE	UG/KG	11 U	1600 U	ND	ND		0/25
1,1,2-TRICHLOROETHANE	UG/KG	11 U	1600 U	ND	ND		0/25
BENZENE	UG/KG	11 U	1600 U	ND	ND		0/25
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	1600 U	ND	ND		0/25
BROMOFORM	UG/KG	11 U	1600 U	ND	ND		0/25
4-METHYL-2-PENTANONE	UG/KG	11 U	1600 U	ND	ND		0/25
2-HEXANONE	UG/KG	11 U	1600 U	ND	ND		0/25
TETRACHLOROETHENE	UG/KG	11 U	1600 U	ND	ND		0/25
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	1600 U	49	1100	6-GW34-12	2/25
TOLUENE	UG/KG	11 U	1600 U	ND	ND		0/25
CHLOROBENZENE	UG/KG	11 U	1600 U	ND	ND		0/25
ETHYLBENZENE	UG/KG	11 U	1600 U	35 J	35 J	6-GW31-06	1/25
STYRENE	UG/KG	11 U	1600 U	ND	ND		0/25
TOTAL XYLENES	UG/KG	11 U	1600 U	ND	ND		0/25

CLEJ-01272-3.13-08/20/93

L.19

Phase II Test Pits

PHASE II TEST PIT SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-TP2-02	6-TP3-02	6-TP4-02	6-TP5-02	6-TP7-02	
Depth:	N/A	N/A	N/A	N/A	N/A	
Date Sampled:	3/3/93	3/3/93	3/3/93	3/3/93	3/3/93	
Lab Id:	930095-10	930095-11	930095-12	930095-13	930095-15	
Parameter	Units					
<u>PESTICIDE/PCBS</u>						
ALPHA-BHC	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	3.1 J
BETA-BHC	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
DELTA-BHC	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
GAMMA-BHC(LINDANE)	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
HEPTACHLOR	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
ALDRIN	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
HEPTACHLOR EPOXIDE	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
ENDOSULFAN I	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
DIELDRIN	UG/KG	3.7 UJ	3.5 U	3.6 U	3.6 U	3.6 UJ
4,4'-DDE	UG/KG	7.3 J	3.5 U	3.6 U	3.6 U	7.4 J
ENDRIN	UG/KG	3.7 UJ	3.5 U	3.6 U	3.6 U	3.6 UJ
ENDOSULFAN II	UG/KG	3.7 UJ	3.5 U	3.6 U	3.6 U	3.6 UJ
4,4'-DDD	UG/KG	3.7 UJ	3.5 U	3.6 U	3.6 UJ	3.6 UJ
ENDOSULFAN SULFATE	UG/KG	3.7 UJ	3.5 U	3.6 U	3.6 U	3.6 UJ
4,4'-DDT	UG/KG	33 J	3.5 U	3.6 U	3.6 UJ	3.6 UJ
METHOXYCHLOR	UG/KG	19 UJ	18 U	18 U	18 U	18 UJ
ENDRIN KETONE	UG/KG	3.7 UJ	3.5 U	3.6 U	3.6 U	3.6 UJ
ENDRIN ALDEHYDE	UG/KG	3.7 UJ	3.5 U	3.6 U	3.6 U	3.6 UJ
ALPHA CHLORDANE	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
GAMMA CHLORDANE	UG/KG	1.9 UJ	1.8 U	1.8 U	1.8 U	1.8 UJ
TOXAPHENE	UG/KG	190 UJ	180 U	180 U	180 U	180 UJ
PCB-1016	UG/KG	37 UJ	35 U	36 U	36 U	36 UJ
PCB-1221	UG/KG	75 UJ	72 U	73 U	72 U	73 UJ
PCB-1232	UG/KG	37 UJ	35 U	36 U	36 U	36 UJ
PCB-1242	UG/KG	37 UJ	35 U	36 U	36 U	36 UJ
PCB-1248	UG/KG	37 UJ	35 U	36 U	36 U	36 UJ
PCB-1254	UG/KG	37 UJ	35 U	36 U	36 U	36 UJ
PCB-1260	UG/KG	37 UJ	35 U	36 U	36 U	36 UJ
<u>VOLATILES</u>						
CHLOROMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
BROMOMETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
VINYL CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
CHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
METHYLENE CHLORIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
ACETONE	UG/KG	11 U	11 U	11 U	11 U	12 U
CARBON DISULFIDE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,1-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,1-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
1,2-DICHLOROETHENE	UG/KG	11 U	11 U	11 U	11 U	12 U
CHLOROFORM	UG/KG	11 U	11 U	11 U	11 U	12 U
1,2-DICHLOROETHANE	UG/KG	11 U	11 U	11 U	11 U	12 U
2-BUTANONE	UG/KG	11 U	11 U	11 U	11 U	12 U

CLEJ-01272-3.13-08/20/93

PHASE II TEST PIT SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6--TP2-02	6--TP3-02	6--TP4-02	6--TP5-02	6--TP7-02
Depth:	N/A	N/A	N/A	N/A	N/A
Date Sampled:	3/3/93	3/3/93	3/3/93	3/3/93	3/3/93
Lab Id:	930095-10	930095-11	930095-12	930095-13	930095-15
Parameter	Units				
<u>VOLATILES Cont.</u>					
1,1,1-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	12 U
CARBON TETRACHLORIDE	UG/KG	11 U	11 U	11 U	12 U
BROMODICHLOROMETHANE	UG/KG	11 U	11 U	11 U	12 U
1,2-DICHLOROPROPANE	UG/KG	11 U	11 U	11 U	12 U
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	12 U
TRICHLOROETHENE	UG/KG	11 U	11 U	11 U	12 U
DIBROMOCHLOROMETHANE	UG/KG	11 U	11 U	11 U	12 U
1,1,2-TRICHLOROETHANE	UG/KG	11 U	11 U	11 U	12 U
BENZENE	UG/KG	11 U	11 U	11 U	12 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	11 U	11 U	12 U
BROMOFORM	UG/KG	11 U	11 U	11 U	12 U
4-METHYL-2-PENTANONE	UG/KG	11 U	11 U	11 U	12 U
2-HEXANONE	UG/KG	11 U	11 U	11 U	12 U
TETRACHLOROETHENE	UG/KG	130	210	3 J	1 J
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	11 U	11 U	12 U
TOLUENE	UG/KG	11 U	11 U	11 U	12 U
CHLOROBENZENE	UG/KG	11 U	11 U	11 U	12 U
ETHYLBENZENE	UG/KG	11 U	11 U	11 U	12 U
STYRENE	UG/KG	11 U	11 U	11 U	12 U
TOTAL XYLENES	UG/KG	11 U	11 U	11 U	12 U
<u>SEMIVOLATILES</u>					
PHENOL	UG/KG	370 UJ	350 U	360 U	7200 UJ
BIS(2-CHLOROETHYL) ETHER	UG/KG	370 U	350 U	360 U	7200 U
2-CHLOROPHENOL	UG/KG	370 U	350 U	360 U	7200 U
1,3-DICHLOROBENZENE	UG/KG	370 U	350 U	360 U	7200 U
1,4-DICHLOROBENZENE	UG/KG	370 U	350 U	360 U	7200 U
1,2-DICHLOROBENZENE	UG/KG	370 U	350 U	360 U	7200 U
2-METHYLPHENOL	UG/KG	370 U	350 U	360 U	7200 U
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	370 UJ	350 UJ	360 UJ	7200 UJ
4-METHYLPHENOL	UG/KG	370 U	350 U	360 U	7200 U
N-NITROSODI-N-PROPYLAMINE	UG/KG	370 U	350 U	360 U	7200 U
HEXACHLOROETHANE	UG/KG	370 U	350 U	360 U	7200 U
NITROBENZENE	UG/KG	370 U	350 U	360 U	7200 U
ISOPHORONE	UG/KG	370 U	350 U	360 U	7200 U
2-NITROPHENOL	UG/KG	370 U	350 U	360 U	7200 U
2,4-DIMETHYLPHENOL	UG/KG	370 U	350 U	360 U	7200 U
BIS(2-CHLOROETHOXY) METHANE	UG/KG	370 UJ	350 U	360 U	7200 UJ
2,4-DICHLOROPHENOL	UG/KG	370 U	350 U	360 U	7200 U
1,2,4-TRICHLOROBENZENE	UG/KG	370 U	350 U	360 U	7200 U
NAPHTHALENE	UG/KG	370 U	350 U	360 U	7200 U
4-CHLORANILINE	UG/KG	370 U	350 U	360 U	7200 U
HEXACHLOROBUTADIENE	UG/KG	370 U	350 U	360 U	7200 U

CLEJ-01272-3.13-08/20/93

PHASE II TEST PIT SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Sample No:	6-TP2-02	6-TP3-02	6-TP4-02	6-TP5-02	6-TP7-02
Depth:	N/A	N/A	N/A	N/A	N/A
Date Sampled:	3/3/93	3/3/93	3/3/93	3/3/93	3/3/93
Lab Id:	930095-10	930095-11	930095-12	930095-13	930095-15
Parameter	Units				
<u>SEMIVOLATILES Cont.</u>					
4-CHLORO-3-METHYLPHENOL	UG/KG	370 U	350 U	360 U	7200 U
2-METHYLNAPHTHALENE	UG/KG	370 U	350 U	360 U	7200 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	370 U	350 U	360 U	7200 U
2,4,6-TRICHLOROPHENOL	UG/KG	370 U	350 U	360 U	7200 U
2,4,5-TRICHLOROPHENOL	UG/KG	900 U	850 U	860 U	17000 U
2-CHLORONAPHTHALENE	UG/KG	370 U	350 U	360 U	7200 U
2-NITROANILINE	UG/KG	900 U	850 U	860 U	17000 U
DIMETHYL PHTHALATE	UG/KG	370 U	350 U	360 U	7200 U
ACENAPHTHYLENE	UG/KG	370 U	350 U	360 U	7200 U
2,6-DINITROTOLUENE	UG/KG	370 U	350 U	360 U	7200 U
3-NITROANILINE	UG/KG	900 U	850 U	860 U	17000 U
ACENAPHTHENE	UG/KG	370 U	350 U	360 U	7200 U
2,4-DINITROPHENOL	UG/KG	900 U	850 U	860 U	17000 U
4-NITROPHENOL	UG/KG	900 U	850 U	860 U	17000 U
DIBENZOFURAN	UG/KG	370 U	350 U	360 U	7200 U
2,4-DINITROTOLUENE	UG/KG	370 U	350 U	360 U	7200 U
DIETHYL PHTHALATE	UG/KG	370 U	350 U	360 U	7200 U
4-CHLOROPHENYL PHENYL ETHER	UG/KG	370 U	350 U	360 U	7200 U
FLUORENE	UG/KG	370 U	350 U	360 U	7200 U
4-NITROANILINE	UG/KG	900 U	850 U	860 U	17000 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	900 U	850 U	860 U	17000 U
N-NITRISODIPHENYLAMINE	UG/KG	370 U	350 U	360 U	7200 U
4-BROMOPHENYL PHENYL ETHER	UG/KG	370 U	350 U	360 U	7200 U
HEXACHLOROBENZENE	UG/KG	370 U	350 U	360 U	7200 U
PENTACHLOROPHENOL	UG/KG	900 U	850 U	860 U	17000 U
PHENANTHRENE	UG/KG	370 U	350 U	360 U	7200 U
ANTHRACENE	UG/KG	370 U	350 U	360 U	7200 U
DI-N-BUTYL PHTHALATE	UG/KG	370 U	350 U	360 U	7200 U
FLUORANTHENE	UG/KG	370 U	350 U	360 U	7200 U
CARBAZOLE	UG/KG	370 U	350 U	360 U	7200 U
PYRENE	UG/KG	370 U	350 U	360 U	7200 U
BUTYL BENZYL PHTHALATE	UG/KG	370 U	350 U	360 U	7200 U
3,3-DICHLOROBENZIDINE	UG/KG	370 U	350 U	360 U	7200 U
BENZO(A)ANTHRACENE	UG/KG	370 U	350 U	360 U	7200 U
CHRYSENE	UG/KG	370 U	350 U	360 U	7200 U
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	370 U	350 U	360 U	7200 U
DI-N-OCTYL PHTHALATE	UG/KG	370 UJ	350 U	360 U	7200 U
BENZO(B)FLUORANTHENE	UG/KG	370 UJ	350 U	360 U	7200 U
BENZO(K)FLUORANTHENE	UG/KG	370 UJ	350 U	360 U	7200 U
BENZO(A)PYRENE	UG/KG	97 J	350 U	360 U	7200 U
INDENO(1,2,3-CD) PYRENE	UG/KG	53 J	350 U	360 U	7200 U
DIBENZ(AH)ANTHRACENE	UG/KG	370 UJ	350 U	360 U	7200 U
BENZO(G,H,I)PERYLENE	UG/KG	210 J	350 U	360 U	7200 U

CLEJ-01272-3.13-08/20/93

PHASE II TEST PIT SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Sample No: Depth: Date Sampled: Lab Id:	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
Parameter	Units						
<u>PESTICIDE/PCBS</u>							
ALPHA-BHC	UG/KG	1.8 U	1.9 UJ	3.1 J	3.1 J	6-TP7-02	1/5
BETA-BHC	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
DELTA-BHC	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
GAMMA-BHC(LINDANE)	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
HEPTACHLOR	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
ALDRIN	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
HEPTACHLOR EPOXIDE	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
ENDOSULFAN I	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
DIELDRIN	UG/KG	3.5 U	3.7 UJ	ND	ND		0/5
4,4'-DDE	UG/KG	3.5 U	3.6 U	7.3 J	7.4 J	6-TP7-02	2/5
ENDRIN	UG/KG	3.5 U	3.7 UJ	ND	ND		0/5
ENDOSULFAN II	UG/KG	3.5 U	3.7 UJ	ND	ND		0/5
4,4'-DDD	UG/KG	3.5 U	3.7 UJ	ND	ND		0/5
ENDOSULFAN SULFATE	UG/KG	3.5 U	3.7 UJ	ND	ND		0/5
4,4'-DDT	UG/KG	3.5 U	3.6 U	33 J	33 J	6-TP2-02	1/5
METHOXYCHLOR	UG/KG	18 U	19 UJ	ND	ND		0/5
ENDRIN KETONE	UG/KG	3.5 U	3.7 UJ	ND	ND		0/5
ENDRIN ALDEHYDE	UG/KG	3.5 U	3.7 UJ	ND	ND		0/5
ALPHA CHLORDANE	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
GAMMA CHLORDANE	UG/KG	1.8 U	1.9 UJ	ND	ND		0/5
TOXAPHENE	UG/KG	180 U	190 UJ	ND	ND		0/5
PCB-1016	UG/KG	35 U	37 UJ	ND	ND		0/5
PCB-1221	UG/KG	72 U	75 UJ	ND	ND		0/5
PCB-1232	UG/KG	35 U	37 UJ	ND	ND		0/5
PCB-1242	UG/KG	35 U	37 UJ	ND	ND		0/5
PCB-1248	UG/KG	35 U	37 UJ	ND	ND		0/5
PCB-1254	UG/KG	35 U	37 UJ	ND	ND		0/5
PCB-1260	UG/KG	35 U	37 UJ	ND	ND		0/5
<u>VOLATILES</u>							
CHLOROMETHANE	UG/KG	11 U	12 U	ND	ND		0/5
BROMOMETHANE	UG/KG	11 U	12 U	ND	ND		0/5
VINYL CHLORIDE	UG/KG	11 U	12 U	ND	ND		0/5
CHLOROETHANE	UG/KG	11 U	12 U	ND	ND		0/5
METHYLENE CHLORIDE	UG/KG	11 U	12 U	ND	ND		0/5
ACETONE	UG/KG	11 U	12 U	ND	ND		0/5
CARBON DISULFIDE	UG/KG	11 U	12 U	ND	ND		0/5
1,1-DICHLOROETHENE	UG/KG	11 U	12 U	ND	ND		0/5
1,1-DICHLOROETHANE	UG/KG	11 U	12 U	ND	ND		0/5
1,2-DICHLOROETHENE	UG/KG	11 U	12 U	ND	ND		0/5
CHLOROFORM	UG/KG	11 U	12 U	ND	ND		0/5
1,2-DICHLOROETHANE	UG/KG	11 U	12 U	ND	ND		0/5
2-BUTANONE	UG/KG	11 U	12 U	ND	ND		0/5

CLEJ-01272-3.13-08/20/93

PHASE II TEST PIT SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>VOLATILES Cont.</u>							
1,1,1-TRICHLOROETHANE	UG/KG	11 U	12 U	ND	ND		0/5
CARBON TETRACHLORIDE	UG/KG	11 U	12 U	ND	ND		0/5
BROMODICHLOROMETHANE	UG/KG	11 U	12 U	ND	ND		0/5
1,2-DICHLOROPROPANE	UG/KG	11 U	12 U	ND	ND		0/5
CIS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	ND	ND		0/5
TRICHLOROETHENE	UG/KG	11 U	12 U	ND	ND		0/5
DIBROMOCHLOROMETHANE	UG/KG	11 U	12 U	ND	ND		0/5
1,1,2-TRICHLOROETHANE	UG/KG	11 U	12 U	ND	ND		0/5
BENZENE	UG/KG	11 U	12 U	ND	ND		0/5
TRANS-1,3-DICHLOROPROPENE	UG/KG	11 U	12 U	ND	ND		0/5
BROMOFORM	UG/KG	11 U	12 U	ND	ND		0/5
4-METHYL-2-PENTANONE	UG/KG	11 U	12 U	ND	ND		0/5
2-HEXANONE	UG/KG	11 U	12 U	ND	ND		0/5
TETRACHLOROETHENE	UG/KG	12 U	12 U	1 J	210	6-TP3-02	4/5
1,1,2,2-TETRACHLOROETHANE	UG/KG	11 U	12 U	ND	ND		0/5
TOLUENE	UG/KG	11 U	12 U	ND	ND		0/5
CHLOROBENZENE	UG/KG	11 U	12 U	ND	ND		0/5
ETHYLBENZENE	UG/KG	11 U	12 U	ND	ND		0/5
STYRENE	UG/KG	11 U	12 U	ND	ND		0/5
TOTAL XYLENES	UG/KG	11 U	12 U	ND	ND		0/5
<u>SEMIVOLATILES</u>							
PHENOL	UG/KG	350 U	7200 UJ	ND	ND		0/5
BIS(2-CHLOROETHYL) ETHER	UG/KG	350 U	7200 U	ND	ND		0/5
2-CHLOROPHENOL	UG/KG	350 U	7200 U	ND	ND		0/5
1,3-DICHLOROBENZENE	UG/KG	350 U	7200 U	ND	ND		0/5
1,4-DICHLOROBENZENE	UG/KG	350 U	7200 U	ND	ND		0/5
1,2-DICHLOROBENZENE	UG/KG	350 U	7200 U	ND	ND		0/5
2-METHYLPHENOL	UG/KG	350 U	7200 U	ND	ND		0/5
2,2'-OXYBIS(1-CHLOROPROPANE)	UG/KG	350 UJ	7200 UJ	ND	ND		0/5
4-METHYLPHENOL	UG/KG	350 U	7200 U	ND	ND		0/5
N-NITROSODI-N-PROPYLAMINE	UG/KG	350 U	7200 U	ND	ND		0/5
HEXACHLOROETHANE	UG/KG	350 U	7200 U	ND	ND		0/5
NITROBENZENE	UG/KG	350 U	7200 U	ND	ND		0/5
ISOPHORONE	UG/KG	350 U	7200 U	ND	ND		0/5
2-NITROPHENOL	UG/KG	350 U	7200 U	ND	ND		0/5
2,4-DIMETHYLPHENOL	UG/KG	350 U	7200 U	ND	ND		0/5
BIS(2-CHLOROETHOXY) METHANE	UG/KG	350 U	7200 UJ	ND	ND		0/5
2,4-DICHLOROPHENOL	UG/KG	350 U	7200 U	ND	ND		0/5
1,2,4-TRICHLOROBENZENE	UG/KG	350 U	7200 U	ND	ND		0/5
NAPHTHALENE	UG/KG	350 U	7200 U	ND	ND		0/5
4-CHLORANILINE	UG/KG	350 U	7200 U	ND	ND		0/5
HEXACHLOROBUTADIENE	UG/KG	350 U	7200 U	ND	ND		0/5

CLEJ-01272-3.13-08/20/93

PHASE II TEST PIT SOILS
 FREQUENCY OF DETECTION SUMMARY
 REMEDIAL INVESTIGATION CTO-0133
 MCB CAMP LEJEUNE, NORTH CAROLINA
 ORGANICS

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
<u>SEMIVOLATILES Cont.</u>							
4-CHLORO-3-METHYLPHENOL	UG/KG	350 U	7200 U	ND	ND		0/5
2-METHYLNAPHTHALENE	UG/KG	350 U	7200 U	ND	ND		0/5
HEXACHLOROCYCLOPENTADIENE	UG/KG	350 U	7200 U	ND	ND		0/5
2,4,6-TRICHLOROPHENOL	UG/KG	350 U	7200 U	ND	ND		0/5
2,4,5-TRICHLOROPHENOL	UG/KG	850 U	17000 U	ND	ND		0/5
2-CHLORONAPHTHALENE	UG/KG	350 U	7200 U	ND	ND		0/5
2-NITROANILINE	UG/KG	850 U	17000 U	ND	ND		0/5
DIMETHYL PHTHALATE	UG/KG	350 U	7200 U	ND	ND		0/5
ACENAPHTHYLENE	UG/KG	350 U	7200 U	ND	ND		0/5
2,6-DINITROTOLUENE	UG/KG	350 U	7200 U	ND	ND		0/5
3-NITROANILINE	UG/KG	850 U	17000 U	ND	ND		0/5
ACENAPHTHENE	UG/KG	350 U	7200 U	ND	ND		0/5
2,4-DINITROPHENOL	UG/KG	850 U	17000 U	ND	ND		0/5
4-NITROPHENOL	UG/KG	850 U	17000 U	ND	ND		0/5
DIBENZOFURAN	UG/KG	350 U	7200 U	ND	ND		0/5
2,4-DINITROTOLUENE	UG/KG	350 U	7200 U	ND	ND		0/5
DIETHYL PHTHALATE	UG/KG	350 U	7200 U	ND	ND		0/5
4-CHLOROPHENYL PHENYL ETHER	UG/KG	350 U	7200 U	ND	ND		0/5
FLUORENE	UG/KG	350 U	7200 U	ND	ND		0/5
4-NITROANILINE	UG/KG	850 U	17000 U	ND	ND		0/5
4,6-DINITRO-2-METHYLPHENOL	UG/KG	850 U	17000 U	ND	ND		0/5
N-NITRISODIPHENYLAMINE	UG/KG	350 U	7200 U	ND	ND		0/5
4-BROMOPHENYL PHENYL ETHER	UG/KG	350 U	7200 U	ND	ND		0/5
HEXACHLOROBENZENE	UG/KG	350 U	7200 U	ND	ND		0/5
PENTACHLOROPHENOL	UG/KG	850 U	17000 U	ND	ND		0/5
PHENANTHRENE	UG/KG	350 U	7200 U	ND	ND		0/5
ANTHRACENE	UG/KG	350 U	7200 U	ND	ND		0/5
DI-N-BUTYL PHTHALATE	UG/KG	350 U	7200 U	ND	ND		0/5
FLUORANTHENE	UG/KG	350 U	7200 U	ND	ND		0/5
CARBAZOLE	UG/KG	350 U	7200 U	ND	ND		0/5
PYRENE	UG/KG	350 U	7200 U	ND	ND		0/5
BUTYL BENZYL PHTHALATE	UG/KG	350 U	7200 U	ND	ND		0/5
3,3-DICHLOROBENZIDINE	UG/KG	350 U	7200 U	ND	ND		0/5
BENZO(A)ANTHRACENE	UG/KG	350 U	7200 U	ND	ND		0/5
CHRYSENE	UG/KG	350 U	7200 U	ND	ND		0/5
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	350 U	7200 U	ND	ND		0/5
DI-N-OCTYL PHTHALATE	UG/KG	350 U	7200 U	ND	ND		0/5
BENZO(B)FLUORANTHENE	UG/KG	350 U	7200 U	ND	ND		0/5
BENZO(K)FLUORANTHENE	UG/KG	350 U	7200 U	ND	ND		0/5
BENZO(A)PYRENE	UG/KG	350 U	7200 U	97 J	97 J	6--TP2-02	1/5
INDENO(1,2,3-CD) PYRENE	UG/KG	350 U	7200 U	33 J	33 J	6--TP2-02	1/5
DIBENZ(A,H)ANTHRACENE	UG/KG	350 U	7200 U	ND	ND		0/5
BENZO(G,H,I)PERYLENE	UG/KG	350 U	7200 U	210 J	210 J	6--TP2-02	1/5

CLEJ-01272-3.13-08/20/93

PHASE II TEST PIT SOILS
FREQUENCY OF DETECTION SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJUNE, NORTH CAROLINA
TOTAL METALS

	Sample No:	6-TP2-02	6-TP3-02	6-TP4-02	6-TP5-02	6-TP7-02
	Depth:	N/A	N/A	N/A	N/A	N/A
	Date Sampled:	3/3/93	3/3/93	3/3/93	3/3/93	3/3/93
	Lab Id:	30095-10	30095-11	30095-12	30095-13	30095-15
Parameter	Units					
ALUMINUM	MG/KG	7910	3490	3540	11300 J	2180
ANTIMONY	MG/KG	4.6 UR	4.1 UR	4.6 UR	4.5 UR	5.1 UR
ARSENIC	MG/KG	2.2	0.68 B	0.7 B	2.7	3.5
BARIUM	MG/KG	36.2 B	7.6 B	8 B	18.7 B	59.5
BERYLLIUM	MG/KG	0.21 U	0.19 U	0.21 U	0.2 U	0.23 U
CADMIUM	MG/KG	0.63 U	0.56 U	0.63 U	0.61 U	0.7 U
CALCIUM	MG/KG	212 B	22.5 U	95.5 U	508 B	324 B
CHROMIUM	MG/KG	7.4	2.5	3.6	10.9	1.5 B
COBALT	MG/KG	0.74 B	0.56 U	0.63 U	0.79 B	0.7 U
COPPER	MG/KG	4680	1.1 JB	1.2 JB	2.9 B	3 B
IRON	MG/KG	4970	1610	1950	6740 J	7200
LEAD	MG/KG	9.3 J	3.5 J	4.4 J	4.3 J	133 J
MAGNESIUM	MG/KG	197 B	84 B	83.3 B	321 B	98.2 B
MANGANESE	MG/KG	8	2.6 B	4.9	7.1	12.6
MERCURY	MG/KG	0.05 U	0.05 U	0.04 U	0.08 U	0.05 U
NICKEL	MG/KG	3.6 U	3.2 U	3.6 U	3.8 B	4 U
POTASSIUM	MG/KG	178 B	110 U	91.7 U	436 B	173 B
SELENIUM	MG/KG	0.61 B	0.47 JB	0.4 UJ	0.9 B	3.3
SILVER	MG/KG	0.63 U	0.56 U	0.63 U	0.61 U	0.7 U
SODIUM	MG/KG	65.9 U	40.6 U	47.1 U	123 U	239 U
THALLIUM	MG/KG	0.6 U	0.56 U	0.6 U	0.59 U	0.66 U
VANADIUM	MG/KG	12.4	4.9 B	5.1 B	17.7	3.6 B
ZINC	MG/KG	87.8	1.6 U	2.8 U	5.4 U	4.5 U

CLEJ-01272-3.13-08/20/93

PHASE II TEST PIT SOILS
FREQUENCY OF DETECTION SUMMARY
REMEDIAL INVESTIGATION CTO-0133
MCB CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

Sample No:
 Depth:
 Date Sampled:
 Lab Id:

Parameter	Units	MINIMUM NONDETECTED	MAXIMUM NONDETECTED	MINIMUM DETECTED	MAXIMUM DETECTED	LOCATION OF MAXIMUM DETECTED	FREQUENCY OF DETECTION
ALUMINUM	MG/KG	NA	NA	2180	11300 J	6-TP5-02	5/5
ANTIMONY	MG/KG	4.1 UR	5.1 UR	ND	ND		0/5
ARSENIC	MG/KG	NA	NA	0.68 B	3.5	6-TP7-02	5/5
BARIUM	MG/KG	NA	NA	7.6 B	59.5	6-TP7-02	5/5
BERYLLIUM	MG/KG	0.19 U	0.23 U	ND	ND		0/5
CADMIUM	MG/KG	0.56 U	0.7 U	ND	ND		0/5
CALCIUM	MG/KG	22.5 U	95.5 U	212 B	508 B	6-TP5-02	3/5
CHROMIUM	MG/KG	NA	NA	1.5 B	10.9	6-TP5-02	5/5
COBALT	MG/KG	0.56 U	0.7 U	0.74 B	0.79 B	6-TP5-02	2/5
COPPER	MG/KG	NA	NA	1.1 JB	4680	6-TP2-02	5/5
IRON	MG/KG	NA	NA	1610	7200	6-TP7-02	5/5
LEAD	MG/KG	NA	NA	3.5 J	133 J	6-TP7-02	5/5
MAGNESIUM	MG/KG	NA	NA	83.3 B	321 B	6-TP5-02	5/5
MANGANESE	MG/KG	NA	NA	2.6 B	12.6	6-TP7-02	5/5
MERCURY	MG/KG	0.04 U	0.08 U	ND	ND		0/5
NICKEL	MG/KG	3.2 U	4 U	3.8 B	3.8 B	6-TP5-02	1/5
POTASSIUM	MG/KG	91.7 U	110 U	173 B	436 B	6-TP5-02	3/5
SELENIUM	MG/KG	0.4 UJ	0.4 UJ	0.47 JB	3.3	6-TP7-02	4/5
SILVER	MG/KG	0.56 U	0.7 U	ND	ND		0/5
SODIUM	MG/KG	40.6 U	239 U	ND	ND		0/5
THALLIUM	MG/KG	0.56 U	0.66 U	ND	ND		0/5
VANADIUM	MG/KG	NA	NA	3.6 B	17.7	6-TP5-02	5/5
ZINC	MG/KG	1.6 U	5.4 U	87.8	87.8	6-TP2-02	1/5

CLEJ-01272-3.13-08/20/93

**Example Calculation of a Log-Normal 95% Upper Confidence Level
Used For the Camp Lejeune Marine Corp. Base Under CTO-0133**

Prepared for: Baker Environmental, Inc.

Prepared by: Chester Environmental

Example: Site 9 Surface Soil Pesticide Data for 4,4'-DDT

Concentrations of Seven Applicable Samples: 650, 1.75, 1.7, 1.7, 13, 44, and 41 ug/Kg

The formula for calculation of the log-normal 95% Upper Confidence Level (UCL) is from the U.S.EPA document "Supplemental Guidance to RAGs: Calculating the Concentration Term" published in May, 1992. The concentrations used for calculating the site-specific 95% UCL for 4,4'-DDT are as shown above. The detection limits used in the calculation for the three nondetected results in this sample set were divided by two as shown in U.S.EPA guidance for estimating the potential concentration contribution of nondetected results to an average concentration. A base 10 log was taken for each concentration, an average and standard deviation was calculated of the log-normal concentrations, and the calculated statistics were used in the formula shown below.

<u>Result</u>	<u>Log of Data</u>	
650	2.81291336	Average of Logs (χ) = 1.12671845
1.75	0.24303805	
1.7	0.23044892	Sample Standard Deviation (s) = 0.97759735
1.7	0.23044892	
13	1.11394335	n = 7
44	1.64345268	
41	1.61278386	H-Statistic (H) = 3.698 (for s \cong 1.0 and n = 7)

$$UCL = 10^{(\chi + 0.5s^2 + sH/(n-1))^{0.5}}$$

$$UCL = 10^{(1.1267 + (0.5)(0.9776)^2 + (0.9776)(3.698)/(6)^{0.5}}$$

$$UCL = 10^{(3.08044759)}$$

$$UCL = 1203.5$$

ks102