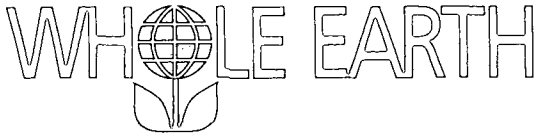


1R - 187

REPORTS

DATE:

3/26/2002



Whole Earth Environmental, Inc.

19606 San Gabriel, Houston, Texas 77084
281/492-7077 • Fax: 281/646-8996

March 26, 2002

NMOCD
1220 South St. Francis Dr.
Sante Fe, NM 87505

Attn: Wayne Price

Dear Wayne:

Enclosed, please find the final four series of test results from the UMC Carlisle State COM # 1 monitor wells near Lovington. I believe that this was the last item preventing final closure of the project, but if you've any additional questions, please do not hesitate to call.

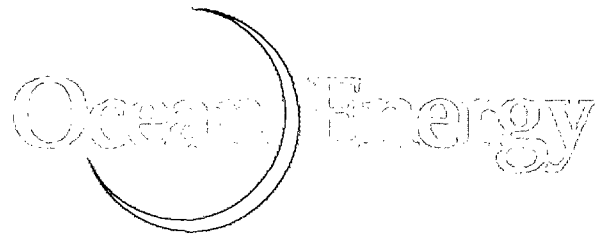
Warmest regards,

Mike Griffin
President
Whole Earth Environmental, Inc.

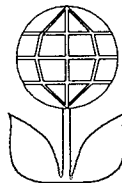
Cc: NMOCD
P.O. Box 1980
Hobbs, NM 88241

Attn: Paul Sheeley

RECEIVED
APR 01 2002
Environmental Bureau
Of Conservation Division



**Ocean Energy Corporation
UMC Carlisle
Remediation Project
Water Monitoring Report**



**Whole Earth Environmental
19606 San Gabriel
Houston, Tx. 77084**



Executive Summary

On March 20th, 1998 a drilling upset occurred at the UMC Carlisle # 1 well site. The upset released hydrocarbons under high pressure resulting in an aerial plume extending for a distance of several hundred feet from the well bore. Additionally, significant quantities of hydrocarbon and brine liquids were ejected from the well. These fluids were substantially contained within two emergency pits situated to the east and west of the source. The fluids contained within these impoundments were subsequently sent to commercial disposal.

Remediation of the site was conducted in three phases. The first involved the remediation of approximately 77,000 yd³ of soils impacted by run-off, over-spray or cross contamination within the spread zones. Included within this first phase was the drilling, development and testing of three monitor wells. Two of the wells were situated immediately southeast of the emergency pits and a third located approximately 1,500 ft. downgradient of the east / west midpoint of the two emergency pit monitor wells. The closure report for this phase of the project was submitted to the OCD on March 11, 1999. On August 2nd, 1999 the OCD requested additional information related to the project. Clarifications were submitted to the NMOCD on November 8, 1999.

On April 25th, 2000 the NMOCD requested that additional remediation occur in the area of the southern mix zone. This second phase of the remediation project was completed and reported to the OCD in October 2000.

The third phase of the project was to analyze the waters within the three monitor wells. The acceptance criterion for this phase of the project was four consecutive quarters in which the BTEX concentrations within the monitor wells fell within NMWQCC drinking water standards. Additionally, Whole Earth analyzed for major cations, anions, volatile and semi-volatile compounds, carbonates, bicarbonate, sulfate and TDS. The final test for these criteria contaminants was completed on April 6, 2002.



Exhibit Index

Exhibit 1. Survey of the overall impact area showing the location of the spread zones, and emergency impoundments.

Exhibit 2. Survey showing the location of the individual monitor wells.

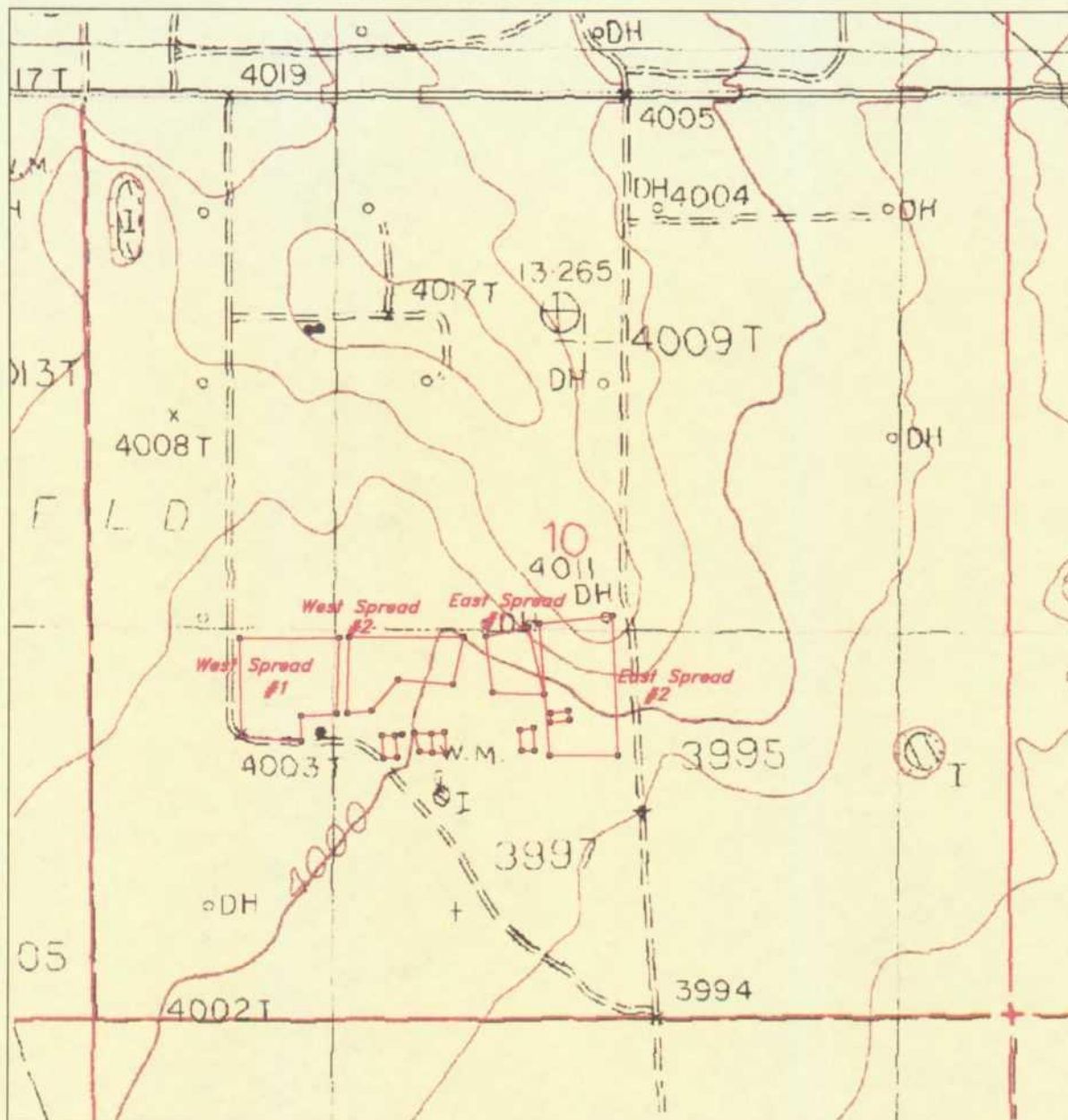
Exhibit 3. Environmental Labs of Texas Chain of Custody and analytical testing results dated April 9, 2001.

Exhibit 4. Environmental Labs of Texas Chain of Custody and analytical testing results dated July 10, 2001.

Exhibit 5. Environmental Labs of Texas Chain of Custody and analytical testing results dated October 10, 2001.

Exhibit 6. Environmental Labs of Texas Chain of Custody and analytical testing results dated January 31, 2002.

EXHIBIT 1



UMC CARLISLE STATE COM #1

Section 10, Township 16 South, Range 35 East,
N.M.P.M., Lea County, New Mexico.



focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number: WHOLEEARTH3-KJG #122

Survey Date: VARIES

Scale: 1" = 1000'

Date: 10-21-99

**WHOLE EARTH
ENVIROMENTAL, INC.**

SECTION 10, TOWNSHIP 16 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

NOTE: T.O.C. MARK ON NORTH SIDE OF 2" PVC CASING.
T.O.R. SHOT ON TOP ON IRON RING AROUND WELL COVER LID.

EXHIBIT 2

OCEAN ENERGY CARLISLE ST. COM 1-Y
1721'/S & 1909'/W

1/4 COR.
9 10

ELEV. No. 1
Top of csng. (T.O.C.)
4003.19
Top of ring (T.O.R.)
4003.45

COORDS N.M.
704497.944
812629.334

N.32°56'00.76"
W.103°26'54.42"

WELL

No. 1

ELEV. No. 2
T.O.C. 4001.29
T.O.R. 4001.51

COORDS. N.M.
704556.333
813618.168

N.32°56'01.27"
W.103°26'45.16"

No. 2

ELEV. No. 3
T.O.C. 4001.20
T.O.R. 4001.46

COORDS. N.M.
703765.967
813669.867

N.32°55'53.44"
W.103°26'44.28"

No. 3

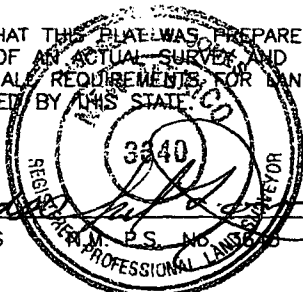
SOUTHWEST CORNER OF
SECTION 10, T. 16 S., R. 36 E.,

9 10
16 15

SCALE 1"=500'

I HEREBY CERTIFY THAT THIS PLATE WAS PREPARED
FROM FIELD NOTES OF AN ACTUAL SURVEY AND
MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND
SURVEYS AS SPECIFIED BY THIS STATE.

HERSCHEL L. JONES



P.O. BOX 996
LOVINGTON, NEW MEXICO

GENERAL SURVEYING COMPANY

WHOLE WORLD ENVIRONMENTAL

REF: ELEVATION

THREE MONITOR WELLS IN SOUTHWEST
QUARTER OF SECTION 10, TOWNSHIP 16
SOUTH, RANGE 36 EAST, N.M.P.M., LEA
COUNTY, NEW MEXICO.

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EXHIBIT 3

WHOLE EARTH ENVIRONMENTAL INC.
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

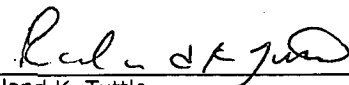
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 2:5 deg. C
Project #: Ocean Energy
Project Name: Carlisle #1
Project Location: None Given

Sampling Date: 04/01/01
Receiving Date: 04/06/01
Analysis Date: 04/06/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
38914	South	<0.001	<0.001	<0.001	0.001	<0.001
38915	East	<0.001	<0.001	<0.001	0.001	<0.001
38916	West	0.005	<0.001	<0.001	0.002	0.001

%IA	99	102	102	100	101
%EA	88	93	97	95	97
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030


Randal K. Tuttle

4-9-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EXHIBIT 4

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996
FAX: 505-397-3591 (Motel)

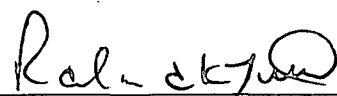
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 2 deg C
Project #: None Given
Project Name: Ocean Energy Carlisle Project
Project Location: Lovington, N.M.

Sampling Date: 07/05/01
Receiving Date: 07/07/01
Analysis Date: 07/07/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
101097-01	East	<0.001	<0.001	<0.001	<0.001	<0.001
101097-02	South	<0.001	<0.001	<0.001	<0.001	<0.001
101097-03	West	0.005	<0.001	<0.001	<0.001	<0.001

QUALITY CONTROL	0.110	0.108	0.112	0.224	0.114
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	110	108	112	112	114
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.001	<0.001	<0.001	<0.001	<0.001
SPIKE	0.092	0.088	0.087	0.171	0.089
SPIKE DUP	0.088	0.084	0.085	0.167	0.086
% EXTRACTION ACCURACY	92	88	87	86	89
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	4	4	2	2	3

METHODS: EPA SW 846-8021B ,5030


Raland K. Tuttle

7-10-01
Date

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Carlisle # 1

Project #: Ocean Energy

Project Loc:

##

Fax No: 281.646.8996

Sampler Signature:

[illegible]

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Project Name: Ocean Energy Carlisle Project

Company Name Whole Earth Environmental, Inc.

Project #:

Company Address: 19606 San Gabriel

Project Loc: Lovington, NM

City/State/Zip: Houston, Tx. 77084

PO#:

Telephone No: (800) 854-4358, 713-208-4285

Fax No: (281) 546-8996

Sampler Signature:[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.

ATTN: MR. MIKE GRIFFIN

19606 SAN GABRIEL

HOUSTON, TEXAS 77084

FAX: 281-646-8996

EXHIBIT 5

Sample Type: Water
Sample Condition: Intact/ Iced/ HNO3/ 0.0 deg C
Project Name: Ocean Carlisle
Project #: None Given
Project Location: Lovington, NM

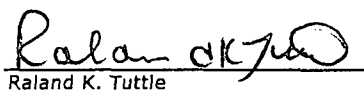
Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 10/05/01
Analysis Date: Hg 10/08/01

TOTAL METALS (mg/L)

ELT#	Field Code	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
0101641-01	East	0.005	0.017	0.100	ND	0.008	0.007	0.014	0.017
0101641-02	West	0.008	0.023	0.145	0.002	0.014	ND	0.029	0.019
0101641-03	South	0.004	0.015	0.054	ND	0.008	0.007	0.028	0.014
REPORT LIMIT		0.002	0.008	0.001	0.001	0.002	0.002	0.011	0.004
QUALITY CONTROL		0.994	1.01	1.01	0.980	1.00	0.014	0.995	0.996
TRUE VALUE		1.00	1.00	1.00	1.00	1.00	0.015	1.00	1.00
% INSTRUMENT ACCURACY		99	101	101	98	100	97	100	100
ORIGINAL SAMPLE		0.005	0.017	0.100	<0.001	0.008	<0.002	0.014	0.017
SPIKED AMOUNT		1.00	0.200	1.00	0.200	1.00	0.015	1.00	0.200
SPIKE		1.16	0.213	1.06	0.189	0.894	0.015	1.03	0.210
SPIKE DUP		1.15	0.217	1.08	0.189	0.902	0.014	1.01	0.211
% EXTRACTION ACCURACY		114	100	97	95	89	98	99	97
BLANK		<0.002	<0.008	<0.001	<0.001	<0.002	<0.100	<0.011	<0.004
RPD		1.04	1.77	1.31	0.21	0.91	3.45	1.87	0.28

ND= Not detected at report limit.

METHODS: EPA SW 846- 3015, 7470, 6010B


Ralanda K. Tuttle

10-09-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77804
FAX: 281-646-8996

Sample Type: Water
Sample Condition: Intact/ Iced/ 0.0 deg. C
Project #: None Given
Project Name: Ocean Carlisle
Project Location: Lovington, NM

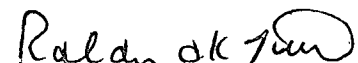
Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: See Below

ELT #	FIELD CODE	Carbonate mg/L	Bicarbonate mg/L	Sulfate mg/L	TDS mg/L
0101641-01	East	<0.10	244	98	900
0101641-02	West	<0.10	248	59	951
0101641-03	South	<0.10	142	52.6	343

REPORT LIMIT	0.10	2.00	0.50	5.00
QUALITY CONTROL	0.02	0.02	44.1	N/A
TRUE VALUE	0.02	0.02	50.0	N/A
% INSTRUMENT ACCURACY	100	100	88	N/A
SPIKED AMOUNT	N/A	N/A	N/A	N/A
ORIGINAL SAMPLE	N/A	N/A	N/A	N/A
SPIKE	N/A	N/A	N/A	N/A
% EXTRACTION ACCURACY	N/A	N/A	N/A	N/A
BLANK	<0.10	<2.00	<0.50	<5.00
RPD	0.90	0.90	0.63	8.39

ANALYSIS DATE	10/01/01	10/01/01	10/01/01	9/29/01
---------------	----------	----------	----------	---------

METHODS: EPA 310.1, 375.4, 160.1


Raland K. Tuttle

10-09-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

Sample Type: Water
Sample Condition: Intact/ Iced/ 0.0 deg C
Project #: None Given
Project Name: Ocean Carlisle
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 10/03/01

ELT#	FIELD CODE	Ca mg/L	K mg/L	Mg mg/L	Na mg/L
0101641-01	East	131	6.20	20.5	105
0101641-02	West	145	3.81	23.1	48.6
0101641-03	South	54.7	2.79	8.91	41.6

REPORT LIMIT	0.01	0.05	0.001	0.01
QUALITY CONTROL	1.96	1.73	2.09	1.76
TRUE VALUE	2.00	2.00	2.00	2.00
% INSTRUMENT ACCURACY	98	86	105	88
SPIKE AMOUNT	1.00	1.00	1.00	1.00
ORIGINAL SAMPLE	<0.01	<0.05	<0.001	<0.01
SPIKE	1.01	0.832	1.05	0.945
SPIKE DUP	0.960	0.832	1.04	0.852
% EXTRACTION ACCURACY	101	83	105	94
BLANK	<0.01	<0.05	<0.001	<0.01
RPD	4.78	0.05	2.04	10.3

METHODS: SW846-6010B


Ralanda K. Tuttle

10-09-01
Date

ENVIRONMENTAL

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL

ATTN: MIKE GRIFFIN

19606 SAN GABRIEL

HOUSTON, TEXAS 77084

FAX: 281-646-8996

Sample Type: Water

Sample Condition: Intact/ Iced/ 0.0 deg. C

Project Name: Ocean Carlisle

Project #: None Given

Project Location: Lovington, NM

ELT#: 0101641-01

Sampling Date: 09/22/01

Receiving Date: 09/26/01

Extraction Date: 09/28/01

Analysis Date: 09/30/01

Field Code: East

EPA 8270 COMPOUNDS	Reporting Limit	East Concentration mg/L	%DEV	RPD	% EA
N-Nitrosodimethylamine	0.005	ND	9.1		
Aniline	0.005	ND	16.6		
Phenol	0.005	ND	13.4	7	48
Bis (2-chloroethyl)ether	0.005	ND	9.7		
2-Chlorophenol	0.005	ND	6.7	6	51
1,3-Dichlorobenzene	0.005	ND	6.3		
1,4-Dichlorobenzene	0.005	ND	-3.4	1	53
1,2-Dichlorobenzene	0.005	ND	9.1		
Benzyl Alcohol	0.005	ND	9.3		
Bis (2-chloroisopropyl) ether	0.005	ND	7.3		
2-Methylphenol	0.005	ND	-5.0		
n-Nitroso-di-n-propylamine	0.005	ND	-0.7	11	54
4-Methylphenol	0.005	ND	6.4		
Hexachloroethane	0.005	ND	10.0		
Nitrobenzene	0.005	ND	-11.1		
Isophorone	0.005	ND	9.4		
2-Nitrophenol	0.005	ND	-2.1		
2,4-Dimethylphenol	0.005	ND	4.5		
Bis (2-chloroethoxy) methane	0.005	ND	0.4		
2,4-Dichlorophenol	0.005	ND	19.9		
Benzoic acid	0.005	ND	4.8		
1,2,4-Trichlorobenzene	0.005	ND	8.8	4	55
Naphthalene	0.005	ND	7.6		
4-Chloroaniline	0.005	ND	22.4		
Hexachlorobutadiene	0.005	ND	0.1		
4-Chloro-3-methylphenol	0.005	ND	4.9	8	52
2-Methylnaphthalene	0.005	ND	10.2		
Hexachlorocyclopentadiene	0.005	ND	-3.3		
2,4,6-Trichlorophenol	0.005	ND	-1.4		
2,4,5-Trichlorophenol	0.005	ND	-2.1		
2-Chloronaphthalene	0.005	ND	2.6		
2-Nitroaniline	0.005	ND	2.6		
Dimethylphthalate	0.005	ND	7.6		
2,6-Dinitrotoluene	0.005	ND	0.5		

EPA 8270 COMPOUNDS	Reporting Limits	Concentration mg/L	%DEV	RPD	%EA
Acenaphthylene	0.005	ND	0.8		
3-Nitroaniline	0.005	ND	6.5		
Acenaphthene	0.005	ND	0.1	1	52
2,4-Dinitrophenol	0.005	ND	9.0		
4-Nitrophenol	0.005	ND	18.1	5	62
Dibenzofuran	0.005	ND	0.2		
2,4-Dinitrotoluene	0.005	ND	12.0	6	36
Diethylphthalate	0.005	ND	6.4		
Fluorene	0.005	ND	1.5		
4-Chlorophenyl phenyl ether	0.005	ND	-0.3		
4-Nitroaniline	0.005	ND	-0.9		
Azobenzene	0.005	ND	-5.9		
4,6-Dinitro-2-methylphenol	0.005	ND	1.3		
n-Nitrosodiphenylamine	0.005	ND	-17.0		
4-Bromophenyl phenyl ether	0.005	ND	3.0		
Hexachlorobenzene	0.005	ND	4.3		
Pentachlorophenol	0.005	ND	-25.3	16	28
Phenanthrene	0.005	ND	-10.3		
Anthracene	0.005	ND	-4.1		
Carbazole	0.005	ND	-4.8		
Di-n-butylphthalate	0.005	ND	-29.2		
Fluoranthene	0.005	ND	-6.8		
Benzidine	0.005	ND	-63.5#		
Pyrene	0.005	ND	-13.2	10	69
Butylbenzylphthalate	0.005	ND	-10.1		
Benzo {a} anthracene	0.005	ND	-3.0		
3,3'-Dichlorobenzidine	0.005	ND	3.3		
Chrysene	0.005	ND	1.2		
Bis (2-ethylhexyl) phthalate	0.005	0.030	-20.9		
Di-n-octylphthalate	0.005	ND	-9.2		
Benzo {b} fluoranthene	0.005	ND	6.1		
Benzo {k} fluoranthene	0.005	ND	6.4		
Benzo {a} pyrene	0.005	ND	9.3		
Indeno (1,2,3-c,d) pyrene	0.005	ND	7.3		
Dibenzo {a,h} anthracene	0.005	ND	4.8		
Benzo {g,h,i} perylene	0.005	ND	22.3		

SURROGATES

% RECOVERY

2-Fluorophenol SURR	74
Phenol-d5 SURR	63
Nitrobenzene-d5 SURR	92
2-Fluorobiphenyl SURR	81
2,4,6-Tribromophenol SURR	18
Terphenyl-d14 SURR	85

Method: SW 846-8270C

Raland K Tuttle
Raland K. Tuttle

10-09-01
Date

ENVIRONMENTAL

LAB OF , INC.

WHOLE EARTH ENVIRONMENTAL

ATTN: MIKE GRIFFIN

19606 SAN GABRIEL

HOUSTON, TEXAS 77084

FAX: 281-646-8996

"Don't Treat Your Soil Like Dirt!"

Sample Type: Water

Sample Condition: Intact/ Iced/ 0.0 deg. C

Project Name: Ocean Carlisle

Project #: None Given

Project Location: Lovington, NM

ELT#: 0101641-02

Sampling Date: 09/22/01

Receiving Date: 09/26/01

Extraction Date: 09/28/01

Analysis Date: 09/30/01

Field Code: West

EPA 8270 COMPOUNDS	Reporting Limit	West Concentration mg/L	%DEV	RPD	% EA
N-Nitrosodimethylamine	0.005	ND	9.1		
Aniline	0.005	ND	16.6		
Phenol	0.005	ND	13.4	7	48
Bis (2-chloroethyl) ether	0.005	ND	9.7		
2-Chlorophenol	0.005	ND	6.7	6	51
1,3-Dichlorobenzene	0.005	ND	6.3		
1,4-Dichlorobenzene	0.005	ND	-3.4	1	53
1,2-Dichlorobenzene	0.005	ND	9.1		
Benzyl Alcohol	0.005	ND	9.3		
Bis (2-chloroisopropyl) ether	0.005	ND	7.3		
2-Methylphenol	0.005	ND	-5.0		
n-Nitroso-di-n-propylamine	0.005	ND	-0.7	11	54
4-Methylphenol	0.005	ND	6.4		
Hexachloroethane	0.005	ND	10.0		
Nitrobenzene	0.005	ND	-11.1		
Isophorone	0.005	ND	9.4		
2-Nitrophenol	0.005	ND	-2.1		
2,4-Dimethylphenol	0.005	ND	4.5		
Bis (2-chloroethoxy) methane	0.005	ND	0.4		
2,4-Dichlorophenol	0.005	ND	19.9		
Benzoic acid	0.005	ND	4.8		
1,2,4-Trichlorobenzene	0.005	ND	8.8	4	55
Naphthalene	0.005	ND	7.6		
4-Chloroaniline	0.005	ND	22.4		
Hexachlorobutadiene	0.005	ND	0.1		
4-Chloro-3-methylphenol	0.005	ND	4.9	8	52
2-Methylnaphthalene	0.005	ND	10.2		
Hexachlorocyclopentadiene	0.005	ND	-3.3		
2,4,6-Trichlorophenol	0.005	ND	-1.4		
2,4,5-Trichlorophenol	0.005	ND	-2.1		
2-Chloronaphthalene	0.005	ND	2.6		
2-Nitroaniline	0.005	ND	2.6		
Dimethylphthalate	0.005	ND	7.6		
2,6-Dinitrotoluene	0.005	ND	0.5		

EPA 8270 COMPOUNDS	Reporting Limits	Concentration mg/L	%DEV	RPD	%EA	
Acenaphthylene	0.005	ND	0.8			
3-Nitroaniline	0.005	ND	6.5			
Acenaphthene	0.005	ND	0.1	1	52	
2,4-Dinitrophenol	0.005	ND	9.0			
4-Nitrophenol	0.005	ND	18.1	5	62	
Dibenzofuran	0.005	ND	0.2			
2,4-Dinitrotoluene	0.005	ND	12.0	6	36	
Diethylphthalate	0.005	ND	6.4			
Fluorene	0.005	ND	1.5			
4-Chlorophenyl phenyl ether	0.005	ND	-0.3			
4-Nitroaniline	0.005	ND	-0.9			
Azobenzene	0.005	ND	-5.9			
4,6-Dinitro-2-methylphenol	0.005	ND	1.3			
n-Nitrosodiphenylamine	0.005	ND	-17.0			
4-Bromophenyl phenyl ether	0.005	ND	3.0			
Hexachlorobenzene	0.005	ND	4.3			
Pentachlorophenol	0.005	ND	-25.3	16	28	
Phenanthrene	0.005	ND	-10.3			
Anthracene	0.005	ND	-4.1			
Carbazole	0.005	ND	-4.8			
Di-n-butylphthalate	0.005	ND	-29.2			
Fluoranthene	0.005	ND	-6.8			
Benzidine	0.005	ND	-63.5#			
Pyrene	0.005	ND	-13.2	10	69	
Butylbenzylphthalate	0.005	ND	-10.1			
Benzo {a} anthracene	0.005	ND	-3.0			
3,3'-Dichlorobenzidine	0.005	ND	3.3			
Chrysene	0.005	ND	1.2			
Bis (2-ethylhexyl) phthalate	0.005	0.010	-20.9			
Di-n-octylphthalate	0.005	ND	-9.2			
Benzo {b} fluoranthene	0.005	ND	6.1			
Benzo {k} fluoranthene	0.005	ND	6.4			
Benzo {a} pyrene	0.005	ND	9.3			
Indeno (1,2,3-c,d) pyrene	0.005	ND	7.3			
Dibenzo {a,h} anthracene	0.005	ND	4.8			
Benzo {g,h,i} perylene	0.005	ND	22.3			

SURROGATES

% RECOVERY

2-Fluorophenol SURR

76

Phenol-d5 SURR

70

Nitrobenzene-d5 SURR

99

2-Fluorobiphenyl SURR

82

2,4,6-Tribromophenol SURR

19

Terphenyl-d14 SURR

89

Method: SW 846-8270C

Raland K. Tuttle
Raland K. Tuttle

10-09-01
Date

ENVIRONMENTAL

LAB OF INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL

ATTN: MIKE GRIFFIN

19606 SAN GABRIEL

HOUSTON, TEXAS 77084

FAX: 281-646-8996

Sample Type: Water

Sample Condition: Intact/ Iced/ 0.0 deg. C

Project Name: Ocean Carlisle

Project #: None Given

Project Location: Lovington, NM

ELT#: 0101641-03

Sampling Date: 09/22/01

Receiving Date: 09/26/01

Extraction Date: 09/28/01

Analysis Date: 09/30/01

Field Code: South

EPA 8270 COMPOUNDS	Reporting Limit	South Concentration mg/L	%DEV	RPD	% EA
N-Nitrosodimethylamine	0.005	ND	9.1		
Aniline	0.005	ND	16.6		
Phenol	0.005	ND	13.4	7	48
Bis (2-chloroethyl)ether	0.005	ND	9.7		
2-Chlorophenol	0.005	ND	6.7	6	51
1,3-Dichlorobenzene	0.005	ND	6.3		
1,4-Dichlorobenzene	0.005	ND	-3.4	1	53
1,2-Dichlorobenzene	0.005	ND	9.1		
Benzyl Alcohol	0.005	ND	9.3		
Bis (2-chloroisopropyl) ether	0.005	ND	7.3		
2-Methylphenol	0.005	ND	-5.0		
n-Nitroso-di-n-propylamine	0.005	ND	-0.7	11	54
4-Methylphenol	0.005	ND	6.4		
Hexachloroethane	0.005	ND	10.0		
Nitrobenzene	0.005	ND	-11.1		
Isophorone	0.005	ND	9.4		
2-Nitrophenol	0.005	ND	-2.1		
2,4-Dimethylphenol	0.005	ND	4.5		
Bis (2-chloroethoxy) methane	0.005	ND	0.4		
2,4-Dichlorophenol	0.005	ND	19.9		
Benzoic acid	0.005	ND	4.8		
1,2,4-Trichlorobenzene	0.005	ND	8.8	4	55
Naphthalene	0.005	ND	7.6		
4-Chloroaniline	0.005	ND	22.4		
Hexachlorobutadiene	0.005	ND	0.1		
4-Chloro-3-methylphenol	0.005	ND	4.9	8	52
2-Methylnaphthalene	0.005	ND	10.2		
Hexachlorocyclopentadiene	0.005	ND	-3.3		
2,4,6-Trichlorophenol	0.005	ND	-1.4		
2,4,5-Trichlorophenol	0.005	ND	-2.1		
2-Chloronaphthalene	0.005	ND	2.6		
2-Nitroaniline	0.005	ND	2.6		
Dimethylphthalate	0.005	ND	7.6		
2,6-Dinitrotoluene	0.005	ND	0.5		

EPA 8270 COMPOUNDS	Reporting Limits	Concentration mg/L	%DEV	RPD	%EA	
Acenaphthylene	0.005	ND	0.8			
3-Nitroaniline	0.005	ND	6.5			
Acenaphthene	0.005	ND	0.1	1	52	
2,4-Dinitrophenol	0.005	ND	9.0			
4-Nitrophenol	0.005	ND	18.1	5	62	
Dibenzofuran	0.005	ND	0.2			
2,4-Dinitrotoluene	0.005	ND	12.0	6	36	
Diethylphthalate	0.005	ND	6.4			
Fluorene	0.005	ND	1.5			
4-Chlorophenyl phenyl ether	0.005	ND	-0.3			
4-Nitroaniline	0.005	ND	-0.9			
Azobenzene	0.005	ND	-5.9			
4,6-Dinitro-2-methylphenol	0.005	ND	1.3			
n-Nitrosodiphenylamine	0.005	ND	-17.0			
4-Bromophenyl phenyl ether	0.005	ND	3.0			
Hexachlorobenzene	0.005	ND	4.3			
Pentachlorophenol	0.005	ND	-25.3	16	28	
Phenanthrene	0.005	ND	-10.3			
Anthracene	0.005	ND	-4.1			
Carbazole	0.005	ND	-4.8			
Di-n-butylphthalate	0.005	ND	-29.2			
Fluoranthene	0.005	ND	-6.8			
Benzidine	0.005	ND	-63.5#			
Pyrene	0.005	ND	-13.2	10	69	
Butylbenzylphthalate	0.005	ND	-10.1			
Benzo {a} anthracene	0.005	ND	-3.0			
3,3'-Dichlorobenzidine	0.005	ND	3.3			
Chrysene	0.005	ND	1.2			
Bis (2-ethylhexyl) phthalate	0.005	ND	-20.9			
Di-n-octylphthalate	0.005	ND	-9.2			
Benzo {b} fluoranthene	0.005	ND	6.1			
Benzo {k} fluoranthene	0.005	ND	6.4			
Benzo {a} pyrene	0.005	ND	9.3			
Indeno (1,2,3-c,d) pyrene	0.005	ND	7.3			
Dibenzo {a,h} anthracene	0.005	ND	4.8			
Benzo {g,h,i} perylene	0.005	ND	22.3			

SURROGATES

% RECOVERY

2-Fluorophenol SURR	73
Phenol-d5 SURR	65
Nitrobenzene-d5 SURR	93
2-Fluorobiphenyl SURR	73
2,4,6-Tribromophenol SURR	18
Terphenyl-d14 SURR	87

Method: SW 846-8270C

Raland K. Tuttle
Raland K. Tuttle

10-09-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

Page 1 of 2

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 0.0 deg C
Project Name: Ocean Carlisle
Project #: None Given
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 10/01/01
Field Code: East

Volatiles EPA SW 846-8260B, (mg/L) Compounds	ELT# 0101641-01	REPORTING LIMIT	%DEV	Method Blank	% EA	RPD
Dichlorodifluoromethane	ND	0.002	1.3	ND		
Chloromethane	ND	0.002	7.2	ND		
Vinyl chloride	ND	0.002	-5.3	ND		
Bromomethane	ND	0.002	0.3	ND		
Chloroethane	ND	0.002	-0.9	ND		
Trichlorofluoromethane	ND	0.002	0.7	ND		
1,1-Dichloroethene	ND	0.002	-6.9	ND	83	2
Acetone	ND	0.005	6.7	ND		
Iodomethane	ND	0.002	0.3	ND		
Carbon Disulfide	ND	0.002	-0.5	ND		
Methylene Chloride	ND	0.0002	7.9	ND		
trans-1,2-Dichloroethene	ND	0.002	2.1	ND		
Acrylonitrile	ND	0.005	9.2	ND		
1,1-Dichloroethane	ND	0.002	2.4	ND		
Vinyl Acetate	ND	0.002	6.1	ND		
cis-1,2-Dichloroethene	ND	0.002	0.7	ND		
2-Butanone	ND	0.010	14.1	ND		
Bromochloromethane	ND	0.002	2.3	ND		
Chloroform	ND	0.002	1.3	ND		
1,1,1-Trichloroethane	ND	0.002	1.7	ND		
2,2-Dichloropropane	ND	0.002	-0.9	ND		
Carbon tetrachloride	ND	0.002	-0.3	ND		
1,1-Dichloropropene	ND	0.002	3.0	ND		
1,2-Dichloroethane	ND	0.002	3.6	ND		
Benzene	ND	0.002	1.5	ND	113	3
Trichloroethene	ND	0.002	0.9	ND	89	2
1,2-Dichloropropane	ND	0.002	2.5	ND		
Dibromomethane	ND	0.002	3.1	ND		
Bromodichloromethane	ND	0.002	1.9	ND		
2-Chloroethyl vinyl ether	ND	0.002	-37.5#	ND		
cis-1,3-Dichloropropene	ND	0.002	4.8	ND		
4-Methyl 2-Pentanone	ND	0.010	10.7	ND		
Toluene	ND	0.002	2.0	ND	120	2
trans 1,3-Dichloropropene	ND	0.002	3.7	ND		
1,1,2-Trichloroethane	ND	0.002	8.2	ND		
2-Hexanone	ND	0.010	10.4	ND		

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

Page 2 of 2

Sample Type: Water
Sample Condition: Intact/ Iced/ / HCl/ 0.0 deg C
Project Name: Ocean Carlisle
Project #: None Given
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 10/01/01
Field Code: East

Volatiles EPA SW 846-8260B, (mg/L) Compounds	ELT# 0101641-01	REPORTING LIMIT	%DEV	Method Blank	% EA	RPD
Tetrachloroethene	ND	0.002	13.6	ND		
1,3-Dichloropropane	ND	0.002	1.8	ND		
Dibromochloromethane	ND	0.002	1.4	ND		
1,2-Dibromoethane	ND	0.002	2.7	ND		
Chlorobenzene	ND	0.002	-2.8	ND	116	3
1,1,1,2-Tetrachloroethane	ND	0.002	-1.0	ND		
Ethylbenzene	ND	0.002	-9.4	ND		
m,p-Xylene	ND	0.002	-5.3	ND		
o-Xylene	ND	0.002	-3.1	ND		
Styrene	ND	0.002	-3.5	ND		
Bromoform	ND	0.002	4.1	ND		
trans-1,4-Dichloro-2-butene	ND	0.002	0.5	ND		
Isopropylbenzene	ND	0.002	-7.3	ND		
1,2,3-Trichloropropane	ND	0.002	3.6	ND		
1,1,2,2-Tetrachloroethane	ND	0.002	4.2	ND		
Bromobenzene	ND	0.002	0.8	ND		
n-Propylbenzene	ND	0.002	-6.2	ND		
2-Chlorotoluene	ND	0.002	-0.0	ND		
1,3,5-Trimethylbenzene	ND	0.002	-3.6	ND		
4-Chlorotoluene	ND	0.002	-2.7	ND		
tert-Butylbenzene	ND	0.002	-5.7	ND		
1,2,4-Trimethylbenzene	ND	0.002	-2.5	ND		
sec-Butylbenzene	ND	0.002	-9.7	ND		
1,3-Dichlorobenzene	ND	0.002	2.0	ND		
p-Isopropyltoluene	ND	0.002	-9.8	ND		
1,4-Dichlorobenzene	ND	0.002	0.9	ND		
n-Butylbenzene	ND	0.002	-8.1	ND		
1,2-Dichlorobenzene	ND	0.002	0.7	ND		
1,2-Dibromo-3-chloropropane	ND	0.010	6.8	ND		
1,2,4-Trichlorobenzene	ND	0.002	-1.8	ND		
Hexachlorobutadiene	ND	0.002	-8.7	ND		
Naphthalene	ND	0.002	2.8	ND		
1,2,3-Trichlorobenzene	ND	0.002	4.6	ND		

SYSTEM MONITORING COMPOUNDS

% RECOVERY

Dibromofluoromethane	114
Toluene-d8	114
4-Bromofluorobenzene	112
1,2-dichloroethane-d4	104

ND= <REPORTING LIMIT

Raland K. Tuttle
Raland K. Tuttle

10-09-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

Page 1 of 2

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 0.0 deg C
Project Name: Ocean Carlisle
Project #: None Given
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 10/01/01
Field Code: West

Volatiles EPA SW 846-8260B, (mg/L) Compounds	ELT# 0101641-02	REPORTING LIMIT	%DEV	Method Blank	% EA	RPD
Dichlorodifluoromethane	ND	0.002	1.3	ND		
Chloromethane	ND	0.002	7.2	ND		
Vinyl chloride	ND	0.002	-5.3	ND		
Bromomethane	ND	0.002	0.3	ND		
Chloroethane	ND	0.002	-0.9	ND		
Trichlorofluoromethane	ND	0.002	0.7	ND		
1,1-Dichloroethene	ND	0.002	-6.9	ND	83	2
Acetone	ND	0.005	6.7	ND		
Iodomethane	ND	0.002	0.3	ND		
Carbon Disulfide	ND	0.002	-0.5	ND		
Methylene Chloride	ND	0.0002	7.9	ND		
trans-1,2-Dichloroethene	ND	0.002	2.1	ND		
Acrylonitrile	ND	0.005	9.2	ND		
1,1-Dichloroethane	ND	0.002	2.4	ND		
Vinyl Acetate	ND	0.002	6.1	ND		
cis-1,2-Dichloroethene	ND	0.002	0.7	ND		
2-Butanone	ND	0.010	14.1	ND		
Bromochloromethane	ND	0.002	2.3	ND		
Chloroform	ND	0.002	1.3	ND		
1,1,1-Trichloroethane	ND	0.002	1.7	ND		
2,2-Dichloropropane	ND	0.002	-0.9	ND		
Carbon tetrachloride	ND	0.002	-0.3	ND		
1,1-Dichloropropene	ND	0.002	3.0	ND		
1,2-Dichloroethane	ND	0.002	3.6	ND		
Benzene	0.009	0.002	1.5	ND	113	3
Trichloroethene	ND	0.002	0.9	ND	89	2
1,2-Dichloropropane	ND	0.002	2.5	ND		
Dibromomethane	ND	0.002	3.1	ND		
Bromodichloromethane	ND	0.002	1.9	ND		
2-Chloroethyl vinyl ether	ND	0.002	-37.5#	ND		
cis-1,3-Dichloropropene	ND	0.002	4.8	ND		
4-Methyl 2-Pentanone	ND	0.010	10.7	ND		
Toluene	ND	0.002	2.0	ND	120	2
trans 1,3-Dichloropropene	ND	0.002	3.7	ND		
1,1,2-Trichloroethane	ND	0.002	8.2	ND		
2-Hexanone	ND	0.010	10.4	ND		

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

Page 2 of 2

Sample Type: Water
Sample Condition: Intact/ Iced/ / HCl/ 0.0 deg C
Project Name: Ocean Carlisle
Project #: None Given
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 10/01/01
Field Code: West

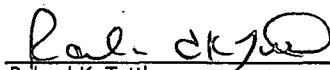
Volatiles EPA SW 846-8260B, (mg/L) Compounds	ELT# 0101641-02	REPORTING LIMIT	%DEV	Method Blank	% EA	RPD
Tetrachloroethene	ND	0.002	13.6	ND		
1,3-Dichloropropane	ND	0.002	1.8	ND		
Dibromochloromethane	ND	0.002	1.4	ND		
1,2-Dibromoethane	ND	0.002	2.7	ND		
Chlorobenzene	ND	0.002	-2.8	ND	116	3
1,1,1,2-Tetrachloroethane	ND	0.002	-1.0	ND		
Ethylbenzene	ND	0.002	-9.4	ND		
m,p-Xylene	0.003	0.002	-5.3	ND		
o-Xylene	ND	0.002	-3.1	ND		
Styrene	ND	0.002	-3.5	ND		
Bromoform	ND	0.002	4.1	ND		
trans-1,4-Dichloro-2-butene	ND	0.002	0.5	ND		
Isopropylbenzene	0.002	0.002	-7.3	ND		
1,2,3-Trichloropropane	ND	0.002	3.6	ND		
1,1,2,2-Tetrachloroethane	ND	0.002	4.2	ND		
Bromobenzene	ND	0.002	0.8	ND		
n-Propylbenzene	ND	0.002	-6.2	ND		
2-Chlorotoluene	ND	0.002	-0.0	ND		
1,3,5-Trimethylbenzene	ND	0.002	-3.6	ND		
4-Chlorotoluene	ND	0.002	-2.7	ND		
tert-Butylbenzene	ND	0.002	-5.7	ND		
1,2,4-Trimethylbenzene	0.002	0.002	-2.5	ND		
sec-Butylbenzene	ND	0.002	-9.7	ND		
1,3-Dichlorobenzene	ND	0.002	2.0	ND		
p-Isopropyltoluene	ND	0.002	-9.8	ND		
1,4-Dichlorobenzene	ND	0.002	0.9	ND		
n-Butylbenzene	ND	0.002	-8.1	ND		
1,2-Dichlorobenzene	ND	0.002	0.7	ND		
1,2-Dibromo-3-chloropropane	ND	0.010	6.8	ND		
1,2,4-Trichlorobenzene	ND	0.002	-1.8	ND		
Hexachlorobutadiene	ND	0.002	-8.7	ND		
Naphthalene	0.003	0.002	2.8	ND		
1,2,3-Trichlorobenzene	ND	0.002	4.6	ND		

SYSTEM MONITORING COMPOUNDS

% RECOVERY

Dibromofluoromethane	162#
Toluene-d8	146#
4-Bromofluorobenzene	164#
1,2-dichloroethane-d4	135

ND= <REPORTING LIMIT


Raland K. Tuttle

10-09-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

Page 1 of 2

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 0.0 deg C
Project Name: Ocean Carlisle
Project #: None Given
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 10/01/01
Field Code: South

Volatiles EPA SW 846-8260B, (mg/L) Compounds	ELT# 0101641-03	REPORTING LIMIT	%DEV	Method Blank	% EA	RPD
Dichlorodifluoromethane	ND	0.002	1.3	ND		
Chloromethane	ND	0.002	7.2	ND		
Vinyl chloride	ND	0.002	-5.3	ND		
Bromomethane	ND	0.002	0.3	ND		
Chloroethane	ND	0.002	-0.9	ND		
Trichlorofluoromethane	ND	0.002	0.7	ND		
1,1-Dichloroethene	ND	0.002	-6.9	ND	83	2
Acetone	ND	0.005	6.7	ND		
Iodomethane	ND	0.002	0.3	ND		
Carbon Disulfide	ND	0.002	-0.5	ND		
Methylene Chloride	ND	0.0002	7.9	ND		
trans-1,2-Dichloroethene	ND	0.002	2.1	ND		
Acrylonitrile	ND	0.005	9.2	ND		
1,1-Dichloroethane	ND	0.002	2.4	ND		
Vinyl Acetate	ND	0.002	6.1	ND		
cis-1,2-Dichloroethene	ND	0.002	0.7	ND		
2-Butanone	ND	0.010	14.1	ND		
Bromochloromethane	ND	0.002	2.3	ND		
Chloroform	ND	0.002	1.3	ND		
1,1,1-Trichloroethane	ND	0.002	1.7	ND		
2,2-Dichloropropane	ND	0.002	-0.9	ND		
Carbon tetrachloride	ND	0.002	-0.3	ND		
1,1-Dichloropropene	ND	0.002	3.0	ND		
1,2-Dichloroethane	ND	0.002	3.6	ND		
Benzene	ND	0.002	1.5	ND	113	3
Trichloroethene	ND	0.002	0.9	ND	89	2
1,2-Dichloropropane	ND	0.002	2.5	ND		
Dibromomethane	ND	0.002	3.1	ND		
Bromodichloromethane	ND	0.002	1.9	ND		
2-Chloroethyl vinyl ether	ND	0.002	-37.5#	ND		
cis-1,3-Dichloropropene	ND	0.002	4.8	ND		
4-Methyl 2-Pentanone	ND	0.010	10.7	ND		
Toluene	ND	0.002	2.0	ND	120	2
trans 1,3-Dichloropropene	ND	0.002	3.7	ND		
1,1,2-Trichloroethane	ND	0.002	8.2	ND		
2-Hexanone	ND	0.010	10.4	ND		

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

Page 2 of 2

Sample Type: Water
Sample Condition: Intact/ Iced/ / HCl/ 0.0 deg C
Project Name: Ocean Carlisle
Project #: None Given
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 10/01/01
Field Code: South

Volatiles EPA SW 846-8260B, (mg/L) Compounds	ELT# 0101641-03	REPORTING LIMIT	%DEV	Method Blank	% EA	RPD
Tetrachloroethene	ND	0.002	13.6	ND		
1,3-Dichloropropane	ND	0.002	1.8	ND		
Dibromochloromethane	ND	0.002	1.4	ND		
1,2-Dibromoethane	ND	0.002	2.7	ND		
Chlorobenzene	ND	0.002	-2.8	ND	116	3
1,1,1,2-Tetrachloroethane	ND	0.002	-1.0	ND		
Ethylbenzene	ND	0.002	-9.4	ND		
m,p-Xylene	0.002	0.002	-5.3	ND		
o-Xylene	ND	0.002	-3.1	ND		
Styrene	ND	0.002	-3.5	ND		
Bromoform	ND	0.002	4.1	ND		
trans-1,4-Dichloro-2-butene	ND	0.002	0.5	ND		
Isopropylbenzene	ND	0.002	-7.3	ND		
1,2,3-Trichloropropane	ND	0.002	3.6	ND		
1,1,2,2-Tetrachloroethane	ND	0.002	4.2	ND		
Bromobenzene	ND	0.002	0.8	ND		
n-Propylbenzene	ND	0.002	-6.2	ND		
2-Chlorotoluene	ND	0.002	-0.0	ND		
1,3,5-Trimethylbenzene	ND	0.002	-3.6	ND		
4-Chlorotoluene	ND	0.002	-2.7	ND		
tert-Butylbenzene	ND	0.002	-5.7	ND		
1,2,4-Trimethylbenzene	ND	0.002	-2.5	ND		
sec-Butylbenzene	ND	0.002	-9.7	ND		
1,3-Dichlorobenzene	ND	0.002	2.0	ND		
p-Isopropyltoluene	ND	0.002	-9.8	ND		
1,4-Dichlorobenzene	ND	0.002	0.9	ND		
n-Butylbenzene	ND	0.002	-8.1	ND		
1,2-Dichlorobenzene	ND	0.002	0.7	ND		
1,2-Dibromo-3-chloropropane	ND	0.010	6.8	ND		
1,2,4-Trichlorobenzene	ND	0.002	-1.8	ND		
Hexachlorobutadiene	ND	0.002	-8.7	ND		
Naphthalene	ND	0.002	2.8	ND		
1,2,3-Trichlorobenzene	ND	0.002	4.6	ND		

SYSTEM MONITORING COMPOUNDS

% RECOVERY

Dibromofluoromethane	117
Toluene-d8	116#
4-Bromofluorobenzene	115
1,2-dichloroethane-d4	107

ND=<REPORTING LIMIT

Ral K Tuttle
Raland K. Tuttle

10-09-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

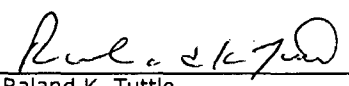
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 0.0 deg C
Project Name: Ocean Carlisle
Project #: None Given
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 09/26/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
0101641-01	East	<0.001	<0.001	<0.001	<0.001	<0.001
0101641-02	West	0.005	<0.001	<0.001	<0.001	<0.001
0101641-03	South	<0.001	<0.001	<0.001	0.001	<0.001

QUALITY CONTROL	0.097	0.095	0.092	0.186	0.089
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	97	95	92	93	89
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.001	<0.001	<0.001	<0.001	<0.001
SPIKE	0.099	0.098	0.094	0.189	0.090
SPIKE DUP	0.099	0.098	0.095	0.191	0.090
%EA	99	98	94	94	90
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	0.00	0.00	1.06	2.10	0.00

METHODS: EPA SW 846-8021B ,5030


Raland K. Tuttle

9-28-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

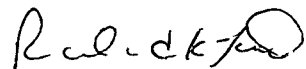
SampleType: Water
Sample Condition: Intact/ Iced/ 0.0 deg C
Project #: None Given
Project Name: Ocean Carlisle
Project Location: Lovington, NM

Sampling Date: 09/22/01
Receiving Date: 09/26/01
Analysis Date: 09/27/01

ELT#	FIELD CODE	Chloride mg/L
0101641-01	East	213
0101641-02	West	177
0101641-03	South	30

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	500
ORIGINAL SAMPLE	177
SPIKE	674
SPIKE DUP	682
% EXTRACTION ACCURACY	99
BLANK	<5.00
RPD	1.18

METHODS: SW 846-9253



Raland K. Tuttle

9-28-01

Date

**12600 West I-20 East
Odessa, Texas 79763**

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Project Name: Ocean Carlisle

Company Name Whole Earth Environmental, Inc.

Project #:

Company Address: 19606 San Gabriel

Project Loc: Lovington, NM

City/State/Zip: Houston, Tx. 77084

PO#:

Telephone No: 800.854.4358

Fax No: 281.646.8996

Fax No:

Sampler Signature:

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL, INC.
ATTN: MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8996

EXHIBIT 6

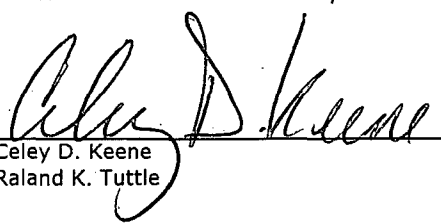
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 1.0 deg. C
Project Name: Quarterly Sampling
Project #: None Given
Project Location: Lovington, New Mexico

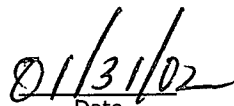
Sampling Date: 01/29/02
Receiving Date: 01/30/02
Analysis Date: 01/30/02

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
0202511-01	East Well	<0.001	<0.001	<0.001	<0.001	<0.001
0202511-02	West Well	<0.001	<0.001	<0.001	<0.001	<0.001
0202511-03	South Well	<0.001	<0.001	<0.001	<0.001	<0.001

QUALITY CONTROL	0.109	0.106	0.095	0.202	0.090
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	109	106	95	101	90
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.001	<0.001	<0.001	<0.001	<0.001
SPIKE	0.110	0.109	0.100	0.213	0.097
SPIKE DUP	0.111	0.108	0.096	0.202	0.092
%EA	110	109	100	106	97
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	0.90	0.92	4.08	5.30	5.29

METHODS: EPA SW 846-8021B ,5030


Celey D. Keene
Raland K. Tuttle


Date

**12600 West I-20 East
Odessa, Texas 79763**

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Project Name: Quarterly Sampling

Company Name Whole Earth Environmental, Inc.

Project #:

Company Address: 19606 San Gabriel

Project Loc: Lovington, NM

City/State/Zip: Houston, Tx. 77084

PO#:

Telephone No: (800) 854-4358

Fax No: (281) 646-8996

Sampler Signature:

[illegible]

Special Instructions:

Sample Containers Intact?
Temperature Upon Receipt:
Laboratory Comments:

Relinquished by:

Relinquished by: A	Date	Time	Received by:
--------------------	------	------	--------------

Date	Time
------	------

Relinquished by:

Relinquished by: <i>[Signature]</i>	Date	Time	Received by ELOT:
-------------------------------------	------	------	-------------------

Date	Time
------	------

farmhouse road



Procedures

This section contains copies of the well development and sample collection procedures employed on this project.



QP-28

WHOLE EARTH ENVIRONMENTAL QUALITY PROCEDURE

Procedure for Developing Cased Water Monitoring Wells

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed to develop cased monitoring wells.

2.0 Scope

This procedure shall be used for developed, cased water monitoring wells. It is not to be used for standing water samples such as ponds or streams.

3.0 Preliminary

3.1 Prior to development, the static water level and height of the water column within the well casing will be measured with the use of an electric D.C. probe or a steel engineer's tape and water sensitive paste.

3.2 All measurements will be recorded within a field log notebook and subsequently reported within the driller's boring log report.

3.3 All equipment used to measure the static water level will be decontaminated after each use by means of Alconox, a phosphate free laboratory detergent, and water to reduce the possibility of cross-contamination. The volume of water in each well casing will be calculated.

4.0 Purging

4.1 Wells will be purged by removing a minimum of three well casing volumes by using a 2" decontaminated submersible pump or dedicated one liter Teflon bailer.

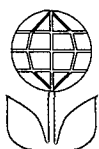
4.2 If a submersible is used the pump will be decontaminated prior to use by scrubbing the outside surface of tubing and wiring with an Alconox-water mixture, pumping an Alconox-water mixture through the pump, and a final flush with fresh water.

5.0 Water Disposal

5.1 All purge and decontamination water will be temporarily stored within a 60 gallon portable tank and then pumped into a permanent storage tank to be later disposed of in an appropriate manner.

6.0 Records

6.1 Whole Earth will record the amount of water removed from the well during development procedures. The purge volume will be reported to the appropriate regulatory authority when filing the closure report.



QP-78

**WHOLE EARTH ENVIRONMENTAL
QUALITY PROCEDURE**

**Procedure for Obtaining Water Samples (Cased Wells)
Using Grundfos Pump**

Completed By: Approved By: Effective Date: / /

1.0 Purpose

This procedure outlines the methods to be employed in obtaining water samples from cased monitoring wells.

2.0 Scope

This procedure shall be used for developed, cased water monitoring wells. It is not to be used for standing water samples such as ponds or streams.

3.0 Preliminary

3.1 Obtain sterile sampling containers from the testing laboratory designated to conduct analyses of the water. The shipment should include a Certificate of Compliance from the manufacturer of the collection bottle or vial and a Serial Number for the lot of containers. Retain this Certificate for future documentation purposes.

3.2 The following table shall be used to select the appropriate sampling container, preservative method and holding times for the various elements and compounds to be analyzed.

Compound to be Analyzed	Sample Container Size	Sample Container Description	Cap Requirements	Preservative	Maximum Hold Time
BTEX	40 ml.	VOA Container	Teflon Lined	HCl	7 days
TPH	1 liter	clear glass	Teflon Lined	HCl	28 days
PAH	1 liter	clear glass	Teflon Lined	Ice	7 days
Cation / Anion	1 liter	clear glass	Teflon Lined	None	48 Hrs.
Metals	1 liter	HD polyethylene	Any Plastic	Ice / HNO ₃	28 Days
TDS	300 ml.	clear glass	Any Plastic	Ice	7 Days

4.0 Chain of Custody

- 4.1 Prepare a Sample Plan. The plan will list the well identification and the individual tests to be performed at that location. The sampler will check the list against the available inventory of appropriate sample collection bottles to insure against shortage.
- 4.2 Transfer the data to the Laboratory Chain of Custody Form. Complete all sections of the form except those that relate to the time of delivery of the samples to the laboratory.
- 4.3 Pre-label the sample collection jars. Include all requested information except time of collection. (Use a fine point Sharpie to insure that the ink remains on the label). Affix the labels to the jars.

5.0 Bailing Procedure

- 5.1 Identify the well from the site schematics. Place pre-labeled jar(s) next to the well. Remove the bolts from the well cover and place the cover with the bolts nearby. Remove the plastic cap from the well bore by first lifting the metal lever and then unscrewing the entire assembly.
- 5.2 Lower the ES-60 pump into the monitor well bore taking care to insure that the pump and first 10' of hose and cable does not touch the ground or become cross-contaminated by contact with anything containing hydrocarbon residues. When the pump reaches the bottom of the well bore you will feel the hose and cable assembly go slack. Lift the pump a minimum distance of 18" above the bottom of the well bore and clamp the hose assembly to the top of the well bore by means of vice grips. (Take care to insure that the vice grips are adjusted so as not to "choke" the hose.
- 5.3 Attach the electrical cable leads to an automobile battery and begin pumping the well bore. If the pump does not bring fluid to the surface within one minute, disconnect the electrical leads, and re-connect for four seconds three times to remove air cavitation.
- 5.4 The pump has a minimum volume of 2.8 gallons per minute at 60'. Purge the well by pumping for a minimum of 10 minutes before taking a sample.

6.0 Sampling Procedure

- 6.1 Once the well has been bailed in accordance with 5.2 of this procedure, a sample may be decanted into the appropriate sample collection jar directly from the bailer. The collection jar should be filled to the brim. Once the jar is sealed, turn the jar over to detect any bubbles that may be present. Add additional water to remove all bubbles from the sample container.

- 6.2 Note the time of collection on the sample collection jar with a fine Sharpie.
- 6.3 Place the sample directly on ice for transport to the laboratory. The preceding table shows the maximum hold times between collection and testing for the various analyses.
- 6.4 Complete the Chain of Custody form to include the collection times for each sample. Deliver all samples to the laboratory.

7.0 Decontamination

- 7.1 After removing the pump from the well, use an aerosol spray pump bottle filled with denatured isopropyl alcohol to clean the pump and first 10' of the cable and hose assembly. Rinse the sprayed portion with distilled water to remove the alcohol and dry with a clean rag. Discard the rag after each use. During transport, the pump assembly should be carried in a 2" PVC protective sleeve.

8.0 Documentation

- 8.1 The testing laboratory shall provide the following minimum information:
 - A. Client, Project and sample name.
 - B. Signed copy of the original Chain of Custody Form including data on the time the sample was received by the lab.
 - C. Results of the requested analyses
 - D. Test Methods employed
 - E. Quality Control methods and results