

3R - 96

REPORTS

DATE:

1997



February 1, 1998

Conoco, Inc., Mid-Continent Region
Attn.: Ms. Shirley Ebert, Field SHEAR Specialist
3314 Bloomfield Hwy.
Farmington, NM 87401

RE: 1997 Annual Ground Water Report
Conoco Location: San Juan 28-7-219
Unit N, Sec. 20, T28N, R7W, NMPM, San Juan Co., NM

FEB 27 1998

Dear Ms. Ebert:

The following report summarizes the ground water remediation and monitoring activities conducted by On Site Technologies Limited Partnership and/or others on behalf of Conoco, Inc., at the referenced oil and gas location. This report covered the prior calendar year of 1997, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico*, submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF 1997 ACTIVITIES:

This report will only cover the sampling events conducted during 1997. Due to non-detectable levels of contamination New Mexico Oil Conservation Division (NMOCD), has granted an exemption to this location. The exemption allows Conoco to consider water quality monitoring complete, when four (4) consecutive quarters of sampling shows water quality levels below New Mexico Water Quality Control Commission (NMWQCC) standards. Refer to the following correspondence.

New Mexico Oil Conservation Division, January 31, 1997. letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: *Ground Water Contamination Assessment San Juan Unit Wells #219, #47, #19, #126., Conoco Location, San Juan 28-7-#219, Unit N, Sec. 20, T28N, R7W, NMPM, San Juan Co., NM.*

SAMPLING:

Following the approved Conoco plan, during each sampling event, water levels were measured on all monitoring wells prior to purging and sampling. Samples were collected in laboratory supplied containers, preserved as needed, and proper chain-of-custody protocol followed. The laboratory analyses ordered, followed the Conoco Ground Water Plan.

Table 1, summarizes the monitoring well data and water levels measured during each sampling event. Table 2, summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site, including assessment data. Table 3, summarizes the laboratory results for RCRA metals and API water quality testing, as required by NMOCD.

Copies of all laboratory reports for the calendar year 1997, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

PO Box 2606
Farmington, NM
505-325-5667 FAX: 505-327-1496

SUMMARY AND CONCLUSIONS:

The following conclusions are based on the 1997 ground water monitoring results and trends associated with a former production pit at the San Juan 28-7-219 well location:

1. BTEX contamination has been below the NMWQCC standards during the last five (5) sampling events.
2. API water analysis indicated high TDS (i.e., 2,694 mg/L), with high sulfate concentrations. This water quality is typical for ground water at similar sites in the Largo Canyon and is not suspected to have been a result of the ongoing oil and gas production at the site.
3. This site should be considered closed, due to BTEX contamination levels below NMWQCC standards, and no further remedial action taken.

RECOMMENDATION:

1. BTEX contamination levels have remained below NMWQCC standard for the last five (5) sampling events. Monitoring well should be plugged and abandoned in accordance with appropriate regulations.
1. No further remedial action will need to be taken.
2. Upon completion of ground water monitoring action, a Final Pit Closure Report will have to be submitted to NMOCD for approval.

LIMITATIONS AND CLOSURE:

This annual groundwater report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 1997. This report follows the Conoco Ground Water Plan, dated October 15, 1997.

The scope of On Site Technologies' services consisted of project management, periodic water sampling and measurement of water levels, laboratory testing for ground water quality, and preparation of the annual report. All work has been performed in accordance with generally accepted professional practices in geotechnical, petroleum and environmental engineering, and hydrogeology.

This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc., as it pertains to the referenced well location operated by Conoco.

If there are any questions regarding this status report, please contact either Myke Lane or Larry Trujillo at On Site Technologies, (505) 325-5667. Thank you for your consideration.

Respectfully submitted,

Reviewed by:



Larry Trujillo
Project Manager



Michael K. Lane, P.E.
Senior Engineer

On Site Technologies, Limited Partnership

Attachments: Table 1: Monitoring Well Details and Ground Water Levels Summary
Table 2: Ground Water BTEX Analytical Summary
Table 3: Other Constituents Analytical Summary
Figure 1: Site Sketch
Figure 2: Ground Water Potentiometric Map (Not Applicable)
Boring Logs and Monitoring Well Diagrams (Not Available)
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.

Shirley R. Gbert SHRM Spec.
(Name/Title)

2/19/98
(Date)

MKL/mkl: 41360-97.doc

On Site Technologies
 Table 1
 Ground Water Level Summary
 San Juan 28-7-219
 Unit N, Sec. 20, T28N, R7W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) (BGS) *	Sample Date	Depth to Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)
MW#1		75.6			06/10/97	69.7	
					10/09/97	55.02	
BGS - approximate measurements taken as Below Ground Surface BTOC - Below Top of Casing NM - Not Measured							

On Site Technologies

Table 2

BTEX Analytical Summary

San Juan 28-7-219

Unit N, Sec. 20, T28N, R7W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	m,p-Xylene	Total BTEX
08/11/95	0396G01375	MW#1	IML	170.0	993.0	165.0	54.1	1382.1
03/12/96	0396G0350	MW#1	IML	0.10	0.27	BDL	BDL	0.4
07/15/96	0396G01343	MW#1	IML	5.0	10.1	BDL	3.5	18.6
03/26/97	14049	MW#1	On Site Lab.	8.4	19.2	0.6	6.0	34.2
06/10/97	14897	MW#1	On Site Lab.	0.3	0.5	BDL	0.3	1.1
10/09/97	16560	MW#1	On Site Lab.	0.3	BDL	BDL	BDL	0.3
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

BDL, Below Detection Levels

On Site Technologies
 Table 3
 Other Constituents Analytical Summary
 San Juan 28-7-219
 Unit N, Sec. 20, T28N, R7W
API Results

CATIONS				ANIONS			
PARAMETER	RESULTS	UNIT OF MEASURE	WQCC Standards	PARAMETER	RESULTS	UNIT OF MEASURE	WQCC Standards
Sodium	Na	205.0	mg/L	Chloride	Cl	12.0	mg/L
Calcium	Ca	478.0	mg/L	Sulfate	SO ₄	1710.0	mg/L
Magnesium	Mg	34.2	mg/L	Carbonate	CO ₃	<1	mg/L
Potassium	K	5.4	mg/L	Bicarbonate	HCO ₃	250.0	mg/L
				Hydroxide	HO	<1	mg/L
				Sulfide	S ₂	NA	mg/L
				Iron	Fe	0.07	mg/L
Cation-Anion Balance				Total Dissolved Solids		2694.0	mg/L
Difference Cation-Anion me/L				pH		6.92	between 6 and 9
Total Cation-Anion me/L				Resistivity		3.4602	ohm-m
Difference Cation-Anion				Specific Gravity		1.0030	
				Total hardness of CaCO ₃		1334.0	mg/L

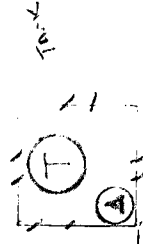
Sample Date: October 9, 1997

Cation-Anion Balance	4.30
Difference Cation-Anion me/L	
Total Cation-Anion me/L	75.75
Difference Cation-Anion	5.7%

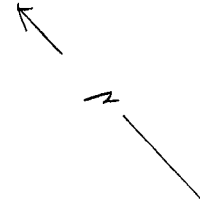
RCRA Metals
 Test Method SW-846

PARAMETER	RESULTS	UNITS	WQCC	UNITS
Mercury by CVAA	<0.0005	mg/L	0.002	mg/L
Arsenic by ICP	<0.15	mg/L	0.1	mg/L
Barium by ICP	0.27	mg/L	1.0	mg/L
Cadmium by ICP	<0.020	mg/L	0.01	mg/L
Chromium by ICP	<0.050	mg/L	0.05	mg/L
Lead by ICP	<0.20	mg/L	0.05	mg/L
Selenium by ICP	<0.35	mg/L	0.05	mg/L
Silver by ICP	<0.030	mg/L	0.05	mg/L

SAN JUAN 28-7-219
NAT TO 90.0



84'



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Larry Trujillo**
 Company: **On Site Technologies, Ltd. c/o Conoco, Inc.**
 Address: **612 E. Murray Drive**
 City, State: **Farmington, NM 87401**

Date: **22-Oct-97**
 COC No.: **6515**
 Sample ID: **16560**
 Job No.: **2-1361**

Project Name: **Conoco, Inc. - 28-7-219**
 Project Location: **28-7-219**
 Sampled by: **LT**
 Analyzed by: **HR**

Date: **9-Oct-97** Time: **13:12**
 Date: **20-Oct-97**

API RP-45 Laboratory Analysis

Parameter	Result	Unit of Measure		Result	Unit of Measure	
Cations						
Sodium Na	205	mg/L		8.92	me/L	
Calcium Ca	478	mg/L		23.85	me/L	
Magnesium Mg	34.2	mg/L		2.81	me/L	
Potassium K	5.4	mg/L		0.14	me/L	
Anions						
Chloride Cl	12	mg/L		0.33	me/L	
Sulfate SO4	1710	mg/L		35.60	me/L	
Carbonate CO3	< 1	mg/L		< 0.01	me/L	
Bicarbonate HCO3	250	mg/L		4.10	me/L	
Hydroxide OH	< 1	mg/L		< 0.01	me/L	
Sulfide S2	NA	mg/L		NA	me/L	
Iron Fe	0.07	mg/L		< 0.01	me/L	
Total Dissolved Solids			Cation-Anion Balance			
Calculated, Sum of Cation/Anion	2694	mg/L	4.30 Difference Cation-Anion, me/L			
			75.75 Total Cation-Anion, me/L			
			5.7 % Difference Cation-Anion			
pH	6.92		Comments			
Resistivity	3.4602	ohm-m	NA: Not Analyzed			
Specific Gravity	1.0030					
Total Hardness as CaCO3	1334	mg/L				

Approved by: 
 Date: **10/22/97**

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OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

API RP-45 Water Analysis

Date: 20-Oct-97

Quality Control Sample

Parameter	Laboratory Identification	True Value	Analyzed Value	Unit of Measure	% Diff	Limit % Diff
Sodium, Na	0541-QC	2.32	2.23	mg/L	-4	10
Calcium, Ca	0465-QC	2.18	2.12	mg/L	-3	10
Magnesium, Mg	0465-QC	1.14	1.18	mg/L	4	10
Potassium, K	0541-QC	1.33	1.35	mg/L	2	10
Chloride, Cl	0560-QC	85	91	mg/L	6	10
Sulfate, SO ₄	0560-QC	96	84	mg/L	-13	10
Alkalinity	1560-QC	163	180	mg/L	10	10
Iron, Fe	0495-QC	1.00	0.93	mg/L	-7	10
pH	0560-qc	9.14	9.28		1	10
Conductivity	0560-QC	900	891	uS/cm	-1	15

Matrix Spike

Parameter	Laboratory Identification	Analyzed Value	Matrix Spike	Spike Value	Unit of Measure	Spike Recovery
Sodium, Na	16560-6515	1.02	0.50	1.54	mg/L	101%
Calcium, Ca	16560-6515	2.39	0.50	3.10	mg/L	107%
Magnesium, Mg	16560-6515	0.86	0.50	1.35	mg/L	99%
Potassium, K	16560-6515	1.34	0.50	1.88	mg/L	102%
Iron, Fe	16560-6515	0.04	0.50	0.46	mg/L	85%

Method Blank

Parameter	Laboratory Identification	Analyzed Value	Unit of Measure
Sodium, Na	LF-Blank	<0.2	mg/L
Calcium, Ca	LF-Blank	<0.05	mg/L
Magnesium, Mg	LF-Blank	<0.05	mg/L
Potassium, K	LF-Blank	<0.05	mg/L
Iron, Fe	LF-Blank	<0.05	mg/L
Chloride, Cl	LF-Blank	< 3 X DL	mg/L
Sulfate, SO ₄	LF-Blank	< 1	mg/L
Sulfide, SO ₂	LF-Blank	NA	mg/L
Conductivity	LF-Blank	< 2	uS/cm

(MC) 4/12
10/22/97 10/22/97

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Larry Trujillo*
Company: *On Site Technologies, Ltd. C/o Conoco, Inc.*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *22-Oct-97*
COC No.: *6515*
Sample No.: *16560*
Job No.: *2-1361*

Project Name: *Conoco, Inc. - 28-7-219*
Project Location: *28-7-219*
Sampled by: *LT*
Analyzed by: *DC*
Sample Matrix: *Liquid*

Date: *9-Oct-97* Time: *13:12*
Date: *20-Oct-97*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>0.3</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>0.3</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

Method - *SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography*

Approved By: *[Signature]*
Date: *10/22/97*

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ON SITE
TECHNOLOGIES, LTD.

QUALITY ASSURANCE REPORT *for EPA Method 8020*

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0529/30-QC

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
<i>Average Amount of All Analytes In Blank</i>	< 0.2	ppb

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>RPD</i>	<i>Limit</i>
<i>Benzene</i>	ppb	20.0	18.5	8	15%
<i>Toluene</i>	ppb	20.0	19.2	4	15%
<i>Ethylbenzene</i>	ppb	20.0	19.2	4	15%
<i>m,p-Xylene</i>	ppb	40.0	37.2	7	15%
<i>o-Xylene</i>	ppb	20.0	19.1	5	15%

<i>Parameter</i>	<i>1 - Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>RPD</i>	<i>Limit</i>
<i>Benzene</i>	91	90	(39-150)	0	20%
<i>Toluene</i>	94	93	(46-148)	1	20%
<i>Ethylbenzene</i>	95	93	(32-160)	2	20%
<i>m,p-Xylene</i>	92	91	(35-145)	1	20%
<i>o-Xylene</i>	94	94	(35-145)	0	20%

Composite Recoveries					
	S1 Percent Recovered	S2 Percent Recovered		S1 Percent Recovered	S2 Percent Recovered
Laboratory Identification			Laboratory Identification		
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
16560-6515	95				
				JHR	(12)
				10/22/97	10/22/97

P.O. BOX 2606 • FARMINGTON, NM 87499
- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



October 24, 1997

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:

Project: 28-7-219
Project No.: 2-1361
MSAI Group: 18231

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following sample is included in the report.

16560-6515

All holding times were met for the tests performed on these samples.

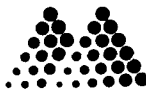
If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen
Project Manager



Mountain States Analytical, Inc.

The Quality Solution

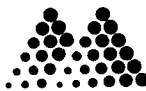
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: 28-7-219

Sample ID: 16560-6515
Matrix: Waste Water

MSAI Sample: 69548
MSAI Group: 18231
Date Reported: 10/24/97
Discard Date: 11/23/97
Date Submitted: 10/15/97
Date Sampled: 10/09/97
Collected by: LT
Purchase Order: 6515
Project No.: 2-1361

Test Analysis	Results as Received	Units	Limit of Quantitation
0259B Mercury by CVAA, w/ww, 7470 Method: SW-846 7470	ND	mg/l	0.0005
0391F Mercury Re-digest, ww, 7470 Method: SW-846 7470	Batch. w-742		
0392I Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	W 729		
0392M Mercury Prep CVAA, w/ww, 7470 Method: SW-846 7470	W 731		
7245 Arsenic by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.15
7246 Barium by ICP, w/ww, 6010A Method: SW-846 6010A	0.27	mg/l	0.02
7249 Cadmium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.020
7251 Chromium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.050
7255 Lead by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.20
7264 Selenium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.35
7266 Silver by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.030



Mountain States Analytical, Inc.

On Site Technologies, Ltd.

The Quality Solution

Page 2

MSAI Sample: 69548

MSAI Group: 18231

Sample ID: 16560-6515

ND - Not detected at the limit of quantitation

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

Analysis Batch Number: 0259B-10/21/97-107 -1

Test Identification : 0259B-Mercury by CVAA, w/ww, 7470

Sequence : 0259B-1

Number of Samples : 4

Batch Data-Date/Time : 10/22/97 / 08:47:56

ANK#	ANALYTE	CONC FOUND #	CONC LIMIT
18171-69418	Mercury	0.0900	0.1000

SPIKE							QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER	
18172-69421	Mercury	2.0000	0.1100	2.1100	100.0	80.0	120.0	

SD							QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT	
18172-69421	Mercury	2.0000	0.1100	2.0400	96.5	80.0	120.0	3.4	20.0	

DUPLICATE						
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
18172-69421	Mercury	0.1100	0.1300	16.7	20.0	1.00

CONTROL							QC LIMITS	
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	LOWER	UPPER		
18171-69419	Mercury	2.5200	2.5000	100.8	80.0	120.0		

		QC LIMITS				
CV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
CV-	Mercury	3.0000	2.9900	99.7	90.0	110.0
CCV--2	Mercury	5.0000	4.9900	99.8	80.0	120.0
CCV--3	Mercury	5.0000	5.1000	102.0	80.0	120.0

ICB#	ANALYTE	CONC FOUND #	CONC LIMIT
ICB-	Mercury	0.0100	0.1000
CB-	Mercury	0.0200	0.1000
CB-	Mercury	0.0600	0.1000

Groups & Samples

18171-69417 18171-69418 18171-69419 18172-69421 18231-69548 18236-69559

Analysis Batch Number: ICPWA-10/17/97-001 -2

Test Identification : ICPWA-*Metals by ICP

Sequence : DATE290

Number of Samples : 6

Batch Data-Date/Time : 10/20/97 / 07:44:59

ANK#	ANALYTE	CONC FOUND #	CONC LIMIT
8W1-729	Silver	0.0013	0.0060
	Arsenic	0.0015	0.0300
	Boron	0.2336(M1)	0.0400
	Barium	0.0002	0.0030
	Cadmium	0.0002	0.0040
	Chromium	0.0016	0.0100
	Copper	0.0037	0.0100
	Potassium	ND	0.1000
	Magnesium	0.0134	0.0500
	Sodium	0.0155	0.2000
	Lead	0.0158	0.0400
	Selenium	ND	0.0700

SPIKE							QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #		LOWER	UPPER
18226-69539	Silver	0.0500	0.0100	0.0562	92.4		80.0	120.0
	Arsenic	2.0000	0.0071	1.8294	91.1		80.0	120.0
	Boron	0.5000	0.3002	0.7491	89.8		80.0	120.0
	Barium	2.0000	0.0480	1.7872	87.0		80.0	120.0
	Cadmium	0.0500	0.0010	0.0465	91.0		80.0	120.0
	Chromium	0.2000	0.0082	0.1902	91.0		80.0	120.0
	Copper	0.2500	0.0453	0.2703	90.0		80.0	120.0
	Potassium	10.0000	11.2285	20.9424	97.1		80.0	120.0
	Magnesium	2.0000	9.5572	11.6844	106.4		80.0	120.0
	Sodium	3.0000	106.8546	112.3882	184.5(2a)		80.0	120.0
	Lead	0.5000	0.0011	0.4531	90.4		80.0	120.0
	Selenium	2.0000	0.0512	1.7546	85.2		80.0	120.0

MSD							QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #		LOWER	UPPER	RPD #	LIMIT
18226-69539	Silver	0.0500	0.0100	0.0556	91.2		80.0	120.0	1.1	20.0
	Arsenic	2.0000	0.0071	1.7893	89.1		80.0	120.0	2.2	20.0
	Boron	0.5000	0.3002	0.7692	93.8		80.0	120.0	2.6	20.0
	Barium	2.0000	0.0480	1.7785	86.5		80.0	120.0	0.5	20.0
	Cadmium	0.0500	0.0010	0.0426	83.2		80.0	120.0	8.8	20.0
	Chromium	0.2000	0.0082	0.1841	87.9		80.0	120.0	3.3	20.0
	Copper	0.2500	0.0453	0.2618	86.6		80.0	120.0	3.2	20.0
	Potassium	10.0000	11.2285	20.5742	93.5		80.0	120.0	1.8	20.0
	Magnesium	2.0000	9.5572	11.5492	99.6		80.0	120.0	1.2	20.0
	Sodium	3.0000	106.8546	112.1873	177.8(2a)		80.0	120.0	0.2	20.0
	Lead	0.5000	0.0011	0.4298	85.7		80.0	120.0	5.3	20.0
	Selenium	2.0000	0.0512	1.7541	85.1		80.0	120.0	0.0	20.0

REPLICATE						
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
18226-69539	Silver	0.0100	0.0099	1.0	20.0	1.00
	Arsenic	0.0071	0.0081	13.2	20.0	1.00
	Boron	0.3002	0.2599	14.4	20.0	1.00
	Barium	0.0480	0.0489	1.9	20.0	1.00
	Cadmium	0.0010	0.0005	66.7(11)	20.0	1.00

Analysis Batch Number: ICPWA-10/17/97-001 -2

Test Identification : ICPWA-*Metals by ICP

Sequence : DATE290

Number of Samples : 6

Batch Data-Date/Time : 10/20/97 / 07:44:59

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
18226-69539	Chromium	0.0082	0.0067	20.1(11)	20.0	1.00
	Copper	0.0453	0.0472	4.1	20.0	1.00
	Potassium	11.2285	11.9357	6.1	20.0	1.00
	Magnesium	9.5572	10.0518	5.0	20.0	1.00
	Sodium	106.8546	111.1993	4.0	20.0	1.00
	Lead	0.0011	0.0102	161.1(11)	20.0	1.00
	Selenium	0.0512	0.0000	200.0(11)	20.0	1.00

CONTROL

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS	
					LOWER	UPPER
LCSW-729	Silver	0.0525	0.0500	105.0	80.0	120.0
	Arsenic	1.9718	2.0000	98.6	80.0	120.0
	Boron	0.7570	0.5000	151.4(8a)	80.0	120.0
	Barium	1.9272	2.0000	96.4	80.0	120.0
	Cadmium	0.0496	0.0500	99.2	80.0	120.0
	Chromium	0.1994	0.2000	99.7	80.0	120.0
	Copper	0.2427	0.2500	97.1	80.0	120.0
	Potassium	9.5806	10.0000	95.8	80.0	120.0
	Magnesium	2.0190	2.0000	101.0	80.0	120.0
	Sodium	3.0902	3.0000	103.0	80.0	120.0
	Lead	0.4841	0.5000	96.8	80.0	120.0
	Selenium	1.9744	2.0000	98.7	80.0	120.0

QC LIMITS

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
CV-	Silver	0.4000	0.3861	96.5	90.0	110.0
	Arsenic	1.6000	1.5778	98.6	90.0	110.0
	Boron	0.8000	0.8088	101.1	90.0	110.0
	Barium	4.0000	3.8223	95.6	90.0	110.0
	Cadmium	4.0000	3.8509	96.3	90.0	110.0
	Chromium	4.0000	3.9009	97.5	90.0	110.0
	Copper	4.0000	3.8159	95.4	90.0	110.0
	Potassium	40.0000	39.6864	99.2	90.0	110.0
	Magnesium	20.0000	19.6604	98.3	90.0	110.0
	Sodium	40.0000	39.6225	99.1	90.0	110.0
	Lead	20.0000	18.3786	91.9	90.0	110.0
	Selenium	1.6000	1.5794	98.7	90.0	110.0
CCV1--2	Silver	0.4000	0.3845	96.1	90.0	110.0
	Arsenic	1.6000	1.5840	99.0	90.0	110.0
	Boron	0.8000	0.8000	100.0	90.0	110.0
	Barium	4.0000	3.8216	95.5	90.0	110.0
	Cadmium	4.0000	3.8218	95.5	90.0	110.0
	Chromium	4.0000	3.8822	97.1	90.0	110.0
	Copper	4.0000	3.8172	95.4	90.0	110.0
	Potassium	40.0000	39.5111	98.8	90.0	110.0
	Magnesium	20.0000	19.6097	98.0	90.0	110.0
	Sodium	40.0000	40.2091	100.5	90.0	110.0
	Lead	20.0000	18.2793	91.4	90.0	110.0
	Selenium	1.6000	1.5600	97.5	90.0	110.0

Analysis Batch Number: ICPWA-10/17/97-001 -2

Test Identification : ICPWA-*Metals by ICP

Sequence : DATE290

Number of Samples : 6

Batch Data-Date/Time : 10/20/97 / 07:44:59

CV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS	
					LOWER	UPPER
CCV2--3	Silver	0.4000	0.3837	95.9	90.0	110.0
	Arsenic	1.6000	1.5763	98.5	90.0	110.0
	Boron	0.8000	0.7995	99.9	90.0	110.0
	Barium	4.0000	3.7439	93.6	90.0	110.0
	Cadmium	4.0000	3.8573	96.4	90.0	110.0
	Chromium	4.0000	3.8877	97.2	90.0	110.0
	Copper	4.0000	3.7554	93.9	90.0	110.0
	Potassium	40.0000	38.8623	97.2	90.0	110.0
	Magnesium	20.0000	19.5251	97.6	90.0	110.0
	Sodium	40.0000	38.8458	97.1	90.0	110.0
	Lead	20.0000	18.4115	92.1	90.0	110.0
	Selenium	1.6000	1.5354	96.0	90.0	110.0
CV3--4	Silver	0.4000	0.3775	94.4	90.0	110.0
	Arsenic	1.6000	1.5645	97.8	90.0	110.0
	Boron	0.8000	0.7952	99.4	90.0	110.0
	Barium	4.0000	3.7368	93.4	90.0	110.0
	Cadmium	4.0000	3.8350	95.9	90.0	110.0
	Chromium	4.0000	3.8828	97.1	90.0	110.0
	Copper	4.0000	3.7522	93.8	90.0	110.0
	Potassium	40.0000	38.7104	96.8	90.0	110.0
	Magnesium	20.0000	19.5379	97.7	90.0	110.0
	Sodium	40.0000	38.7372	96.8	90.0	110.0

CB#	ANALYTE	CONC FOUND #	CONC LIMIT
CB-	Silver	ND	0.0060
	Arsenic	0.0070	0.0300
	Boron	ND	0.0400
	Barium	ND	0.0030
	Cadmium	ND	0.0040
	Chromium	0.0008	0.0100
	Copper	ND	0.0100
	Potassium	ND	0.1000
	Magnesium	ND	0.0500
	Sodium	0.0571	0.2000
	Lead	ND	0.0400
	Selenium	0.0238	0.0700
CCB1-	Silver	ND	0.0060
	Arsenic	0.0053	0.0300
	Boron	0.0003	0.0400
	Barium	0.0002	0.0030
	Cadmium	0.0005	0.0040
	Chromium	0.0029	0.0100
	Copper	0.0005	0.0100
	Potassium	0.0128	0.1000
	Magnesium	ND	0.0500
	Sodium	0.0548	0.2000

Analysis Batch Number: ICPWA-10/17/97-001 -2

Test Identification : ICPWA-*Metals by ICP

Sequence : DATE290

Number of Samples : 6

Batch Data-Date/Time : 10/20/97 / 07:44:59

CB#	ANALYTE	CONC FOUND #	CONC LIMIT
CB1-	Selenium	0.0102	0.0700
CCB2-	Silver	ND	0.0060
	Arsenic	ND	0.0300
	Boron	ND	0.0400
	Barium	ND	0.0030
	Cadmium	0.0003	0.0040
	Chromium	ND	0.0100
	Copper	ND	0.0100
	Potassium	ND	0.1000
	Magnesium	0.0076	0.0500
	Sodium	0.0283	0.2000
	Lead	0.0111	0.0400
	Selenium	0.0235	0.0700
CB3-	Silver	ND	0.0060
	Arsenic	ND	0.0300
	Boron	0.0001	0.0400
	Barium	0.0002	0.0030
	Cadmium	0.0004	0.0040
	Chromium	0.0015	0.0100
	Copper	0.0005	0.0100
	Potassium	ND	0.1000
	Magnesium	0.0037	0.0500
	Sodium	0.0106	0.2000
	Lead	ND	0.0400
	Selenium	0.0200	0.0700

----- Result Footnotes -----

- (1) - Blank is less than 1/2 the PQL (project specific)
(2a) - Recovery is insignificant because sample conc. is >4x spike added.
(1) - Both Duplicate results are less than the MDL.
(a) - See comments below.

----- Batch Notes -----

Small amounts of Boron are picked up during the digestion process from the borosilica glassware. Boron results could be biased high. jkw

Groups & Samples

18221-69531 18221-69532 18226-69539 18231-69548 18236-69559 18236-69560

ON SITE

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date:

757/01

Page

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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RECEIVED OCT 30 1997

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

October 29, 1997

Mr. David Cox
On Site Technologies
612 East Murray
Farmington NM, 87401

The following report contains analytical results for samples received at Southern Petroleum Laboratories (SPL) on October 15, 1997. The samples were assigned to Certificate of Analysis No.(s) 9710721 and analyzed for all parameters as listed on the chain of custody.

There were no analytical problems encountered with this group of samples and all quality control data was within acceptance limits.

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

Sonia West
Sonia West
Client Services Representative



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 97-10-721

Approved for Release by:

Sonia West

Sonia West, Client Services Representative

10-29-97

Date

Greg Grandits
Laboratory Director

Idelis Williams
Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.

**HOUSTON LABORATORY**8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901**Certificate of Analysis No. H9-9710721-01**On Site Technologies
612 East Murray
Farmington, NM 87401
ATTN: David CoxP.O.#
6515
10/29/97**PROJECT:** 28-7-219**PROJECT NO:** 2-1361**SITE:****MATRIX:** WATER**SAMPLED BY:** On Site Technologies**DATE SAMPLED:** 10/09/97 13:12:00**SAMPLE ID:** 28-7-219**DATE RECEIVED:** 10/15/97**ANALYTICAL DATA**

PARAMETER	RESULTS	PQL*	UNITS
Naphthalene	ND	0.1	ug/L
Acenaphthylene	ND	0.1	ug/L
Acenaphthene	ND	0.3	ug/L
Fluorene	ND	0.3	ug/L
Phenanthrene	ND	0.1	ug/L
Anthracene	ND	0.1	ug/L
Fluoranthene	ND	0.1	ug/L
Pyrene	ND	0.1	ug/L
Chrysene	ND	0.1	ug/L
Benzo (a) anthracene	ND	0.1	ug/L
Benzo (b) fluoranthene	ND	0.1	ug/L
Benzo (k) fluoranthene	ND	0.1	ug/L
Benzo (a) pyrene	ND	0.1	ug/L
Dibenzo (a,h) anthracene	ND	0.1	ug/L
Benzo (g,h,i) perylene	ND	0.1	ug/L
Indeno (1,2,3-cd) pyrene	ND	0.1	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1-Fluoronaphthalene	0.20 ug/L	60	50	150
Phenanthrene d-10	0.20 ug/L	30 MI	50	150

ANALYZED BY: KA**DATE/TIME:** 10/23/97 02:16:50**EXTRACTED BY:** PC**DATE/TIME:** 10/16/97 08:00:00**METHOD:** 8310 Polynuclear Aromatic Hydrocarbons**NOTES:** * - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

MI - Matrix Interference.

COMMENTS:**QUALITY ASSURANCE:** These analyses are performed in accordance
with EPA guidelines for quality assurance.

QUALITY CONTROL
DOCUMENTATION



SPL BATCH QUALITY CONTROL REPORT **
Method 8310 ***

PAGE

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous
Units: ug/L

Batch Id: 2971022155800

BLANK SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(**) (Advisory)	
			Result	Recovery	Result	Recovery		RPD	Recovery Range
			<1>	<4>	<1>	<5>		Max.	
NAPHTHALENE	0.10	0.50	0.61	102	0.65	110	7.55	30	33 - 122
ACENAPHTHYLENE	ND	0.50	0.57	114	0.66	132	14.6	30	42 - 138
ACENAPHTHENE	ND	0.50	0.43	86.0	0.49	98.0	13.0	30	25 - 123
FLUORENE	ND	0.50	0.44	88.0	0.42	84.0	4.65	30	19 - 142
PHENANTHRENE	0.19	0.50	0.68	98.0	0.71	104	5.94	30	40 - 121
ANTHRACENE	ND	0.50	0.42	84.0	0.44	88.0	4.65	30	32 - 121
FLUORANTHENE	ND	0.50	0.50	100	0.50	100	0	30	51 - 115
PYRENE	ND	0.50	0.50	100	0.54	108	7.69	30	45 - 117
CHRYSENE	ND	0.50	0.42	84.0	0.47	94.0	11.2	30	44 - 122
BENZO (A) ANTHRACENE	ND	0.50	0.42	84.0	0.46	92.0	9.09	30	57 - 118
BENZO (B) FLUORANTHENE	ND	0.50	0.43	86.0	0.49	98.0	13.0	30	62 - 121
BENZO (K) FLUORANTHENE	ND	0.50	0.43	86.0	0.48	96.0	11.0	30	63 - 117
BENZO (A) PYRENE	ND	0.50	0.37	74.0	0.41	82.0	10.3	30	42 - 120
DIBENZO (A,H) ANTHRACENE	ND	0.50	0.39	78.0	0.45	90.0	14.3	30	53 - 118
BENZO (G,H,I) PERYLENE	ND	0.50	0.38	76.0	0.43	86.0	12.3	30	51 - 116
INDENO (1,2,3-CD) PYRENE	ND	0.50	0.44	88.0	0.50	100	12.8	30	60 - 116

Analyst: KA

Sequence Date: 10/19/97

Method Blank File ID:

Sample File ID:

Blank Spike File ID: 971019A\012-1201

Matrix Spike File ID:

Matrix Spike Duplicate File ID:

* = Values Outside QC Range. * = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = $[(<1> - <2>) / <3>] \times 100$

Relative Percent Difference = $[(<4> - <5>) / [(<4> + <5>) \times 0.5]] \times 100$

(**) = Source: SPL Temporary Limits

SAMPLES IN BATCH(SPL ID):

9710529-01C 9710529-03C 9710529-05C 9710721-01A

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

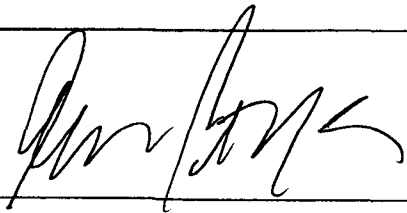
SPL Houston Environmental Laboratory

Sample Login Checklist

Date: 10-15-97	Time: 0900
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SPL Sample ID: 9710721

		Yes	No
1	Chain-of-Custody (COC) form is present.	/	
2	COC is properly completed.	/	
3	If no, Non-Conformance Worksheet has been completed.		
4	Custody seals are present on the shipping container.	/	
5	If yes, custody seals are intact.	/	
6	All samples are tagged or labeled.	/	
7	If no, Non-Conformance Worksheet has been completed.		
8	Sample containers arrived intact	/	
9	Temperature of samples upon arrival:	6° C	
10	Method of sample delivery to SPL:	SPL Delivery	
		Client Delivery	
		FedEx Delivery (airbill #)	
		Other: UPS	12WES850110005251
11	Method of sample disposal:	SPL Disposal	/
		HOLD	
		Return to Client	

Name: 	Date: 10-15-97
---	----------------

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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TECHNOLOGIES, LTD.

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LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Distribution:	White -- On Site	Yellow -- LAB	Pink -- Sampler	Goldenrod -- Client
---------------	------------------	---------------	-----------------	---------------------

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Larry Trujillo*
Company: *On Site Technologies, Ltd. c/o Conoco*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *17-Jun-97*
COC No.: *6419*
Sample No.: *14897*
Job No.: *4-1361*

Project Name: *Conoco - San Juan 28-7-219*
Project Location: *San Juan 28-7-219*
Sampled by: *LT* Date: *10-Jun-97* Time: *15:45*
Analyzed by: *DC* Date: *12-Jun-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	0.3	ug/L	0.2	ug/L
<i>Toluene</i>	0.5	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.3	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	1.0	ug/L		

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved By: *[Signature]*
Date: *6/17/97*

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ON SITE
TECHNOLOGIES, LTD.

QUALITY ASSURANCE REPORT *for EPA Method 8020*

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0529/30-QC

Parameter	Result	Unit of Measure
Average Amount of All Analytes in Blank	<0.2	ppb

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
<i>Benzene</i>	ppb	20.0	20.0	0	15%
<i>Toluene</i>	ppb	20.0	20.6	3	15%
<i>Ethylbenzene</i>	ppb	20.0	21.2	6	15%
<i>m,p-Xylene</i>	ppb	40.0	39.5	1	15%
<i>o-Xylene</i>	ppb	20.0	20.6	3	15%

<i>Parameter</i>	<i>1 - Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
<i>Benzene</i>	89	86	(39-150)	2	20%
<i>Toluene</i>	94	88	(46-148)	2	20%
<i>Ethylbenzene</i>	97	94	(32-160)	2	20%
<i>m,p-Xylene</i>	90	86	(35-145)	2	20%
<i>o-Xylene</i>	95	91	(35-145)	2	20%

	S1 Percent <i>Laboratory Identification</i> <i>Recovered</i>	S2 Percent <i>Laboratory Identification</i> <i>Recovered</i>		S1 Percent <i>Laboratory Identification</i> <i>Recovered</i>	S2 Percent <i>Laboratory Identification</i> <i>Recovered</i>
<i>Limit Percent Recovered</i>	(70-130)		<i>Limit Percent Recovered</i>	(70-130)	
14897-6419	96				
				JR	(pr)
				6/17/97	6/17/97

P.O. BOX 2606 • FARMINGTON, NM 87499

- T. J. VAN METER, B. P. ENGLISH, AND J. W. WILSON, JR.

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Michael Lane*
Company: *On Site Technologies, Ltd. c/o Conoco*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *1-Apr-97*
COC No.: *5102*
Sample No.: *14049*
Job No.: *4-1361*

Project Name: *Conoco - 28-7 #219*
Project Location: *MW-1*
Sampled by: *HR*
Analyzed by: *DC*
Sample Matrix: *Liquid*

Date: *26-Mar-97* Time: *13:40*
Date: *31-Mar-97*

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i>8.4</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>19.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>0.6</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>2.9</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>3.1</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>34.2</i>	<i>ug/L</i>		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *[Signature]*
Date: *4/1/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- ELECTRONIC DELIVERY OF RESULTS AVAILABLE -



CHAIN OF CUSTODY RECORD

5102

TECHNOLOGIES, LTD. 657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 3/26/11

Page _____ of _____

Purchase Order No.:		Job No. 4-11361		Name _____ Title _____	
SEND INVOICE TO		Company _____ Dept. _____		Company _____ Title _____	
Address _____		City, State, Zip _____		Mailing Address _____	
City, State, Zip _____		Telephone No. _____		City, State, Zip _____	
Sampling Location: _____		Analysis Requested _____		Telephone No. _____	
Sampler: _____		Number of Containers _____		LAB ID _____	
SAMPLE IDENTIFICATION		SAMPLE DATE		DATE	
DATE		TIME		PRES.	
3/26/11		13:40		1155	
Relinquished by: _____		Date/Time _____		Date/Time _____	
Relinquished by: _____		Date/Time _____		Date/Time _____	
Relinquished by: _____		Date/Time _____		Date/Time _____	
Method of Shipment: _____		Rush _____		Special Instructions: _____	
Authorized by: _____		Date _____		Date _____	
(Client Signature Must Accompany Request)		Date 3/26/11		Date 3/26/11	