

3R - 391

REPORTS

DATE:

MAY, 2004



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

September 30, 2004

Ms. Michelle Cowherd
ChevronTexaco
11111 S. Wilcrest
Houston, Texas 77099

**RE: CASE # 3R-391
GALLEGOS GALLUP SAND UNIT
SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Cowherd:

The New Mexico Oil Conservation Division (OCD) has reviewed ChevronTexaco's May 5, 2004 "PIT REMEDIATION AND CLOSURE REPORT". This document requests closure of remedial actions related to an unlined pit at ChevronTexaco's Gallegos Gallup Sand Unit located in the NW/4 of the SE/4 of Section 7, Township 26 North, Range 11 West, San Juan County, New Mexico.

A review of the OCD's files on this site shows that ground water underlying the source area on the site is contaminated in excess of New Mexico Water Quality Control Commission (WQCC) ground water standards. Therefore, the ChevronTexaco's request for closure of the site is denied.

In order to remedy this matter the OCD requires that ChevronTexaco submit a work plan for remediation and monitoring of ground water contamination at the site. The work plan shall be submitted to the OCD Santa Fe Office by November 28, 2004 with a copy provided to the OCD Aztec District Office.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

Revised June 10, 2003

PIT REMEDIATION AND CLOSURE REPORT

Operator: Chevron USA Telephone: (281) 561-4995

Address: Attn: Michelle Cowherd, 11111 S. Wilcrest, Houston, Texas 77099

Facility Or: Gallegos Gallup Sand Unit
Well Name

Location: Unit or Qtr/Qtr Sec NW/SE Sec 7 T 26N R 11W County San Juan

Pit Type: Separator Dehydrator Other X Unlined Pit

Land Type: BLM , State , Fee Other X Navajo Indian Reservation

Pit Location: Pit dimensions: length 45', width 45', depth 25'
(Attach diagram)

Reference: wellhead N/A, other X Tank Battery Remediation Pit

Footage from reference:

Direction from reference: Degrees East North
of
 West South

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet to 99 feet	(10 points)
	Greater than 100 feet	(0 points) <u>20</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Yes	(20 points)
	☒ No	(0 points) <u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet	(20 points)
	200 feet to 1000 feet	(10 points)
	Greater than 1000 feet	(0 points) <u>0</u>
RANKING SCORE (TOTAL POINTS):		<u>20</u>

Date Remediation Started: November 4, 2003 Date completed: November 28, 2003

Remediation Method: Excavation X Approx. cubic yards 4315
(Check all appropriate sections.) Landfarmed X Insitu Bioremediation _____
Other _____

Remediation Location: Onsite _____ Offsite X Envirotech Soil Remediation Facility
(i.e. landfarmed onsite, name and location of offsite facility) Landfarm #2

General Description of Remedial Action: Excavation of Hydrocarbon impacted Soil

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit:
Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location *See attached tables* _____

Sample depth _____

Sample Date _____ Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) _____

TPH _____

**Reference Chevron USA
Gallegos Gallup Sand Unit
Pit Closure Report
December 2003**

Ground Water Sample: Yes X No _____ (If yes, attach sample results)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signature M. O. Cowherd Date May 5, 2004

Printed Name Michelle O. Cowherd Title EMC Senior Specialist

E-mail Address mcowherd@chevrontexaco.com

Envirotech Inc.

Company ChevronTexaco
 Location Gallegos Gallup Sand Unit
 Date 12/04/03
 Project # 01079-004

Summary of Soil Samples

NNEPA/ EPA Action Levels		10.0	50	1,000	100		
Sample Number Location	Sample Date	ppm(mg/L)					
		Benzene	BTEX (8021)	TPH (8015)	PID Headspace		
S. Wall @ 25'	11-Nov-03	< 0.002	0.51	< 0.2	186.0		
S. Wall @ 20'	11-Nov-03	< 0.002	0.05	166	89.0		
W. Wall @ 16'	11-Nov-03	< 0.002	1.57	75	1.5		
Btm @ 25'	12-Nov-03	0.0	2.67	2,720	368.0		
N. Wall @ 25'	12-Nov-03	0.0	2.98	4,800	968.0		
E. Wall @ 25'	12-Nov-03	< 0.002	0.52	167	165.0		
NWC @ 25'	12-Nov-03	0.0	3.29	1,890	285.0		
MW-7 @ 30'	26-Nov-03	<0.002	1.94	2,770	410.0		
MW-7 @ 33.5'	26-Nov-03	<0.002	2.63	4,260	322.0		
MW-7 @ 45'	26-Nov-03	<0.002	0.73	1,420	188.0		

Summary of Water Samples

NNEPA/ EPA Action Levels		5.0	2000	680	440	na	
Sample Number Location	Sample Date	ppb (ug/L)					
		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	
MW-7	1-Dec-03	14.9	36.1	21.2	80.1	152.0	

Note: ND Not Detected

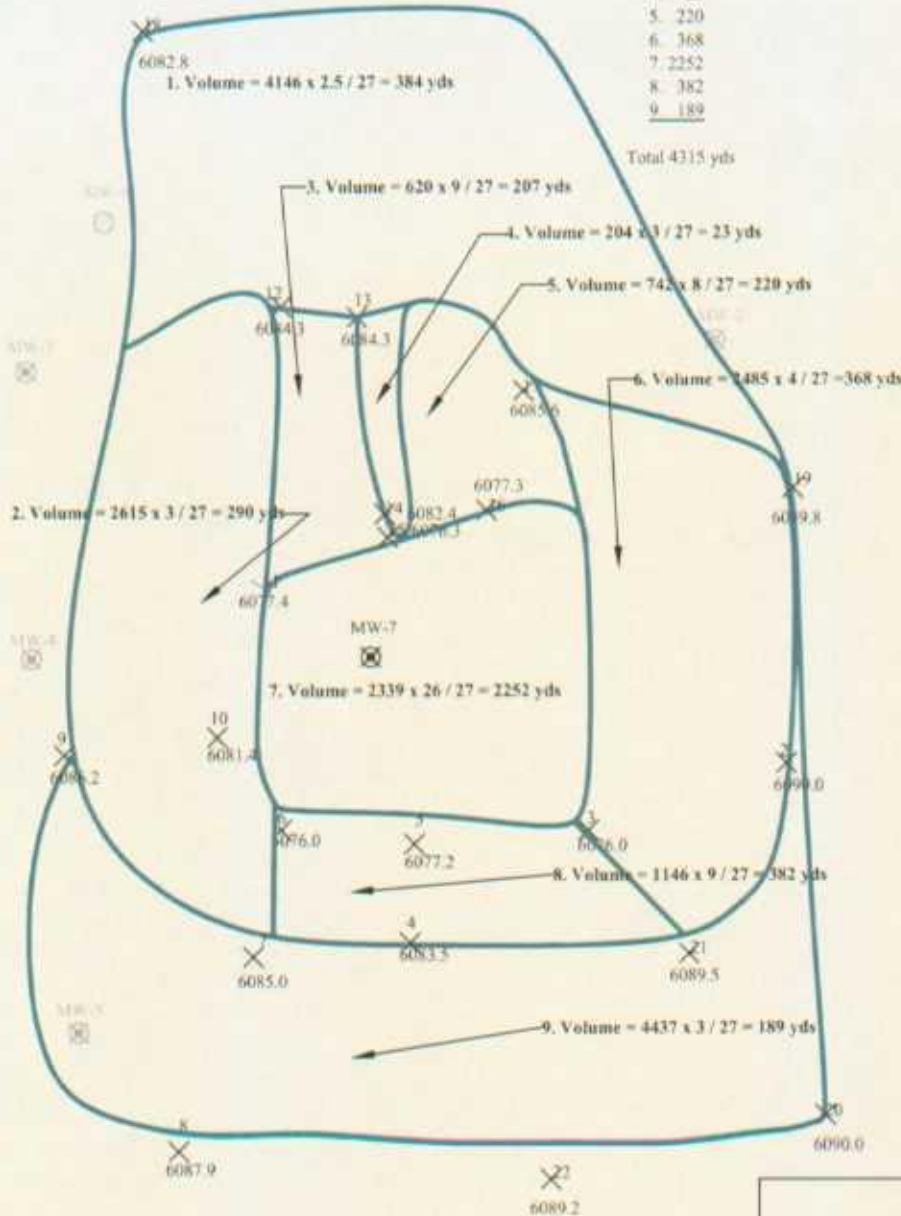
NA Not Available NS Not Sampled

ppm parts per million

Excavation Volumes in yds (in place)

1. 384
2. 290
3. 207
4. 23
5. 220
6. 368
7. 2252
8. 382
9. 189

Total 4315 yds



LEGEND



- Outline of excavation

MW-7



- Monitor Well Location & Number



6089.2 - Survey point & elevation

CHEVRONTEXACO INC
Gallegos Gallup Sand Unit
Pit Remediation

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401
(505) 632-0615

Excavation Volume
Calculations

REVISIONS

BY KPK DATE 12/02/02
BY CJC DATE 12/03/03

PROJECT #01079-003

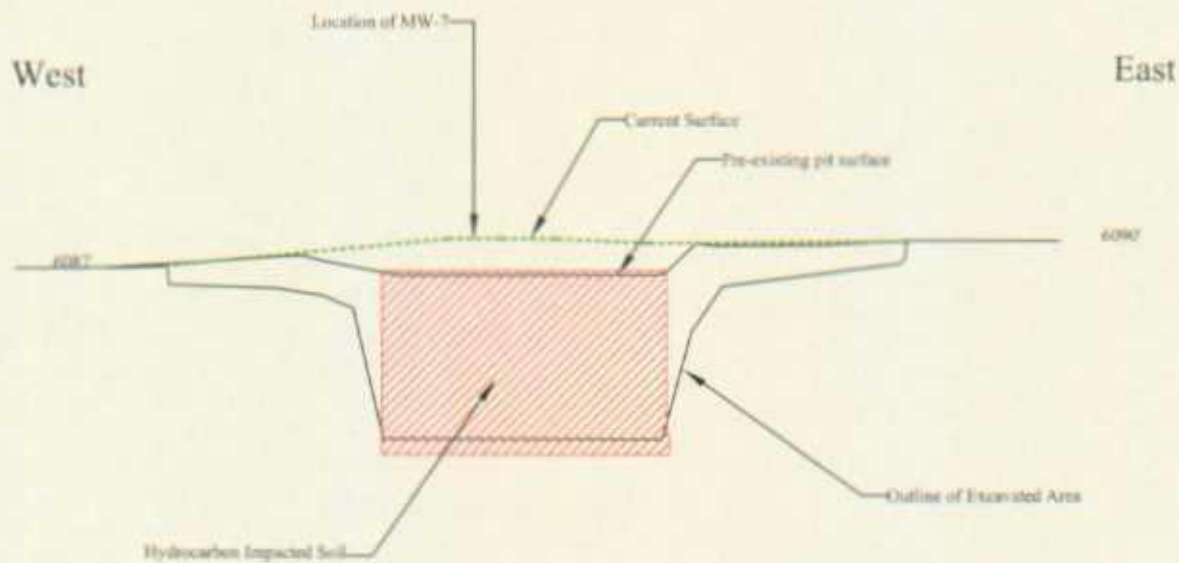
DATE 09/20/01

DRAWN CJC

FIGURE

SCALE 1" = 30'

APPROVED CJC



LEGEND

CHEVRONTEXACO INC
Gallegos Gallup Sand Unit
Pit Remediation

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5795 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401
(505) 632-0615

West - East X Section
Thru Pit

REVISIONS

BY KPK DATE 12/02/02
BY CJC DATE 12/03/03

PROJECT #01079-003

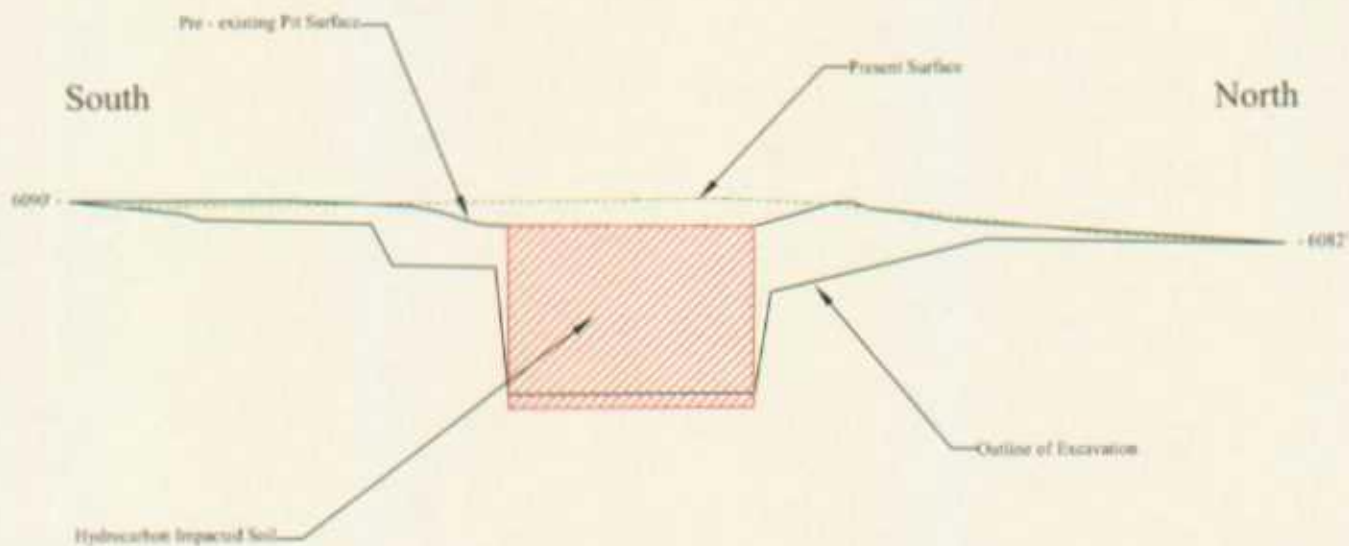
DATE 09/20/01

DRAWN CJC

FIGURE

SCALE 1" = 30'

APPROVED CJC



LEGEND

CHEVRONTEXACO INC
Gallegos Gallup Sand Unit
Pit Remediation

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401
(505) 632-0615

South - North X - Section
Thru MW-7

REVISIONS

BY KPK DATE 12/02/02
BY CJC DATE 12/03/03

PROJECT #01079-003

DATE 09/20/01

DRAWN CJC

FIGURE

SCALE 1" = 30'

APPROVED CJC

Chevron Environmental
Management Company
11111 S. Wilcrest
Houston, TX 77099
Tel 281-561-4995
Fax 866-653-0305
mcowherd@chevrontexaco.com

Michelle Cowherd
Senior Specialist



May 6, 2004

NEW MEXICO OCD
OIL & GAS DIVISION
1220 South St. Francis Dr.
Santa Fe, NM. 87505

Attn: Mr. Denny Foust

RE: CHEVRONTExACO GALLEGOS GALLUP SAND UNIT GROUND WATER ANALYSIS

Dear Mr. Foust:

Enclosed are the recent lab results and table for MW-7 from the sampling event conducted by Envirotech Inc. on April 16, 2004. This well was installed during December, 2003 to monitor natural attenuation of groundwater at this former unlined disposal pit.

The results indicate that the groundwater quality is continuing to improve. Only total naphthalenes at 115 ppb were detected above the EPA action level of 30 ppb. All other analytes were below action levels. The next scheduled sampling event will be conducted October, 2004.

Feel free to contact me should you have any questions or require any additional information.

Sincerely,

A handwritten signature in cursive script that reads "Michelle Cowherd".
Michelle O. Cowherd

Cc: Mr. Jack Collins, Envirotech
Mr. Bill Freeman, NNEPA
Mr. Jim Walker, USEPA

Envirotech Inc.

Company	ChevronTexaco
Location	Gallegos Gallup Sand Unit
Date	05/05/04
Project #	01079-004

Table 1. Laboratory Results of Water Sample Analyses

NNEPA/ EPA Action Levels			5.0	2000	680	440	30	NA
Sample Number	Sample	EPA	ppb (ug/L)					
Location	Date	Method	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Naphthalenes	Total BTEX
MW-7	1-Dec-03	8021B	14.9	36.1	21.2	80.1	NA	152.3
	16-Apr-04	8260	<10	<10	<10	208.0	115.0	208.0

Note: ND Not Detected

NA Not Available NS Not Sampled

ppm parts per million

Pace Analytical Services, Inc.
1000 Poydras Blvd, Suite F
Saint Louis, LA 70007

Phone 504.469.0323
Fax 504.469.0353



Report of Laboratory Analysis
Project Number: 2031634





Sample Cross Reference Report

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Baton Rouge, LA 70807
Phone: 504 455-0333
Fax: 504 455-0533

www.pacelabs.com

Client: CHEVRON ENV. MGMT.

Project: GALLEGOS GALLUP SAND UNIT

Project No.: 2031634

Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
GGSU-MW-7	20246612	Water	04/16/2004 11:20	04/20/2004 10:10

4/27/2004 09:31:08

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Baton Rouge, LA 70807
Phone 504 466 0333
Fax 504 466 0335

www.pacelabs.com

Client: CHEVRON ENV. MGMT.

Client ID: GGSU-MW-7

Site: None

Project: GALLEGOS GALLUP SAND UNIT

Project No.: 2031634

Sample Qu:

Lab ID: 20246612

Matrix: Water

% Moisture: n/a

Description: None

Prep Level: Water

Batch: 40863

Method: SW 8260 Volatile Organics

Units: ug/L

Target List: SRA54MVWAT

Collected: 04/16/04

Received: 04/20/04

Prep Factor: 1

Leached: n/a

Prepared:

Analyzed: 04/23/04

13:27 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	2	ND	D6 A99	20.0	
71-43-2	Benzene	2	ND	D6	10.0	
75-27-4	Bromodichloromethane	2	ND	D6	10.0	
75-25-2	Bromoform	2	ND	D6	10.0	
74-83-9	Bromomethane (Methyl bromide)	2	ND	D6	10.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	2	ND	D6 A99	20.0	
75-15-0	Carbon disulfide	2	ND	D6 A99	10.0	
56-23-5	Carbon tetrachloride	2	ND	D6	10.0	
108-90-7	Chlorobenzene	2	ND	D6	10.0	
75-00-3	Chloroethane	2	ND	D6	10.0	
67-66-3	Chloroform	2	ND	D6	10.0	
74-87-3	Chloromethane (Methyl chloride)	2	ND	D6	10.0	
124-48-1	Dibromochloromethane	2	ND	D6	10.0	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2	ND	D6 A99	10.0	
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	2	ND	D6	10.0	
75-71-8	Dichlorodifluoromethane (Freon 12)	2	ND	D6	10.0	
75-34-3	1,1-Dichloroethane	2	ND	D6	10.0	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	2	ND	D6	10.0	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	2	ND	D6	10.0	
156-59-2	cis-1,2-Dichloroethene	2	ND	D6	10.0	
156-60-5	trans-1,2-Dichloroethene	2	ND	D6	10.0	
78-87-5	1,2-Dichloropropane	2	ND	D6	10.0	
10061-01-5	cis-1,3-Dichloropropene	2	ND	D6	10.0	
10061-02-6	trans-1,3-Dichloropropene	2	ND	D6	10.0	
100-41-4	Ethylbenzene	2	ND	D6	10.0	
591-78-6	2-Hexanone	2	ND	D6 A99	20.0	
98-82-8	Isopropylbenzene (Cumene)	2	17.4	D6	10.0	
79-20-9	Methylacetate	2	ND	D6	20.0	
1634-04-4	Methyl tert-butyl ether (MTBE)	2	ND	D6 A99	10.0	
75-09-2	Methylene chloride (Dichloromethane)	2	ND	D6	10.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	2	ND	D6 A99	20.0	
100-42-5	Styrene	2	ND	D6	10.0	
79-34-5	1,1,2,2-Tetrachloroethane	2	ND	D6	10.0	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/27/2004 09:31:23

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Laboratory Analysis

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Slidell, LA 70067

Phone 504 469 0333
Fax 504 469 0334

www.pacelabs.com

Client: CHEVRON ENV. MGMT.

Client ID: GGSU-MW-7

Site: None

Project: GALLEGOS GALLUP SAND UNIT

Project No.: 2031634

Sample Qu:

Lab ID: 20246612

Matrix: Water

% Moisture: n/a

Description: None

Prep Level: Water

Batch: 40863

Method: SW 8260 Volatile Organics

Units: ug/L

Target List: SRA54MVWAT

Collected: 04/16/04

Received: 04/20/04

Prep Factor: 1

Leached: n/a

Prepared:

Analyzed: 04/23/04 13:27 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
127-18-4	Tetrachloroethene (Perchloroethylene)	2	ND	D6	10.0	
108-88-3	Toluene	2	ND	D6	10.0	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	2	ND	D6	10.0	
79-00-5	1,1,2-Trichloroethane	2	ND	D6	10.0	
79-01-6	Trichloroethene (Trichloroethylene)	2	ND	D6	10.0	
75-69-4	Trichlorofluoromethane (Freon 11)	2	ND	D6	10.0	
75-01-4	Vinyl chloride (Chloroethene)	2	ND	D6	10.0	
1330-20-7	m,p-Xylene	2	208.	D6	10.0	
95-47-6	o-Xylene	2	ND	D6	10.0	
91-20-3	Naphthalene	2	115.	D6	10.0	

43 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/27/2004 09:31:23

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWRW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Quality Control

Pace Analytical Services, Inc.
1000 Highway 803, Suite 1-
B, New Orleans, LA 70097

Phone: 504 469 0333
Fax: 504 469 0333

www.pacelabs.com

Project No.: 2031634

Method: Water GC/MS Volatile Organics

Batch: 40863

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	MS/MSD	Max RPD	Qu
Acetone (2-Propanone, Dimethyl keton	50	105			50	99	99	0		50 - 150	50 - 150	25	
Acetone (2-Propanone, Dimethyl keton	50	112			100					50 - 150	50 - 150	25	
Acetone (2-Propanone, Dimethyl keton	50	80			100					50 - 150	50 - 150	25	
Benzene	50	102			50	103	104	1		74 - 137	76 - 127	25	
Benzene	50	109			50					74 - 137	76 - 127	25	
Benzene	50	103			50					74 - 137	76 - 127	25	
Bromodichloromethane	50	127			50	123	125	1		70 - 130	61 - 150	25	
Bromodichloromethane	50	132 *			50					70 - 130	61 - 150	25	Q10
Bromodichloromethane	50	94			50					70 - 130	61 - 150	25	
Bromoform	50	138			50	137	131	4		69 - 150	63 - 150	25	
Bromoform	50	147			50					69 - 150	63 - 150	25	
Bromoform	50	114			50					69 - 150	63 - 150	25	
Bromomethane (Methyl bromide)	50	93			50	87	90	3		53 - 140	51 - 144	25	
Bromomethane (Methyl bromide)	50	100			50					53 - 140	51 - 144	25	
Bromomethane (Methyl bromide)	50	88			50					53 - 140	51 - 144	25	
2-Butanone (Methyl ethyl ketone)	50	98			100					50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	50	98			50	109	106	3		50 - 150	50 - 150	25	
2-Butanone (Methyl ethyl ketone)	50	85			100					50 - 150	50 - 150	25	
Carbon disulfide	50	90			50					50 - 141	50 - 143	25	
Carbon disulfide	50	79			50	81	79	2		50 - 141	50 - 143	25	
Carbon disulfide	50	84			50					50 - 141	50 - 143	25	
Carbon tetrachloride	50	122			50	114	116	2		59 - 150	50 - 150	25	
Carbon tetrachloride	50	140			50					59 - 150	50 - 150	25	
Carbon tetrachloride	50	100			50					59 - 150	50 - 150	25	
Chlorobenzene	50	104			50	104	102	2		76 - 131	75 - 130	25	
Chlorobenzene	50	115			50					76 - 131	75 - 130	25	
Chlorobenzene	50	113			50					76 - 131	75 - 130	25	
Chloroethane	50	100			50					50 - 143	50 - 148	25	
Chloroethane	50	91			50	52	89	52 *		50 - 143	50 - 148	25	
Chloroethane	50	74			50					50 - 143	50 - 148	25	
Chloroform	50	102			50	102	102	0		74 - 133	69 - 137	25	
Chloroform	50	107			50					74 - 133	69 - 137	25	
Chloroform	50	86			50					74 - 133	69 - 137	25	
Chloromethane (Methyl chloride)	50	94			50					50 - 149	50 - 150	25	
Chloromethane (Methyl chloride)	50	89			50	91	92	1		50 - 149	50 - 150	25	
Chloromethane (Methyl chloride)	50	59			50					50 - 149	50 - 150	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	116			50					50 - 150	50 - 150	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	122			50	119	120	1		50 - 150	50 - 150	25	
Dibromochloromethane	50	106			50					73 - 150	68 - 150	25	

* denotes recovery outside of QC limits.

MS spike concentrations are not corrected for moisture content of the spiked sample.

(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4/27/2004 09:31:24

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/H2O - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Slidell, LA 70667
Phone: 504.469.0335
Fax: 504.469.0335

Method: Water GC/MS Volatile Organics

Project No.: 2031634

Batch: 40863

Units: ug/L

Parameter Name	LCS	LCS	LCSD	LCS	MS	MS	MSD	(1)MS	DUP	QC Limits		Max	Qu
	Spike	%Rec	%Rec	RPD	Spike	%Rec	%Rec	RPD	RPD	LCS	MS/MSD	RPD	
1,2-Dibromoethane (Ethylene dibromid	50	134			50	130	131	1		74 - 141	50 - 146	25	
1,2-Dibromoethane (Ethylene dibromid	50	134			50					74 - 141	50 - 146	25	
1,2-Dibromo-3-chloropropane (DBCP)	50	65			50					50 - 150	50 - 150	25	
Dichlorodifluoromethane (Freon 12)	50	42 *			50	43 *	49 *	12		50 - 150	50 - 150	25	
Dichlorodifluoromethane (Freon 12)	50	85			50					50 - 150	50 - 150	25	
1,2-Dibromoethane (Ethylene dibromid	50	105			50					74 - 141	50 - 146	25	
Dibromochloromethane	50	137			50					73 - 150	68 - 150	25	
Dibromochloromethane	50	129			50	131	127	3		73 - 150	68 - 150	25	
1,1-Dichloroethane	50	96			50					64 - 136	61 - 139	25	
1,1-Dichloroethane	50	94			50	100	99	1		64 - 136	61 - 139	25	
1,1-Dichloroethane	50	92			50					64 - 136	61 - 139	25	
1,2-Dichloroethane (Ethylene dichlorid	50	124			50	119	119	1		62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	119			50					62 - 150	57 - 150	25	
1,2-Dichloroethane (Ethylene dichlorid	50	109			50					62 - 150	57 - 150	25	
1,1-Dichloroethene (Dichloroethylene)	50	90			50	90	90	1		50 - 140	61 - 145	25	
1,1-Dichloroethene (Dichloroethylene)	50	101			50					50 - 140	61 - 145	25	
1,1-Dichloroethene (Dichloroethylene)	50	95			50					50 - 140	61 - 145	25	
cis-1,2-Dichloroethene	50	96			50					52 - 143	50 - 150	25	
cis-1,2-Dichloroethene	50	93			50	96	96	0		52 - 143	50 - 150	25	
cis-1,2-Dichloroethene	50	89			50					52 - 143	50 - 150	25	
trans-1,2-Dichloroethene	50	90			50	92	92	0		52 - 135	50 - 139	25	
trans-1,2-Dichloroethene	50	97			50					52 - 135	50 - 139	25	
trans-1,2-Dichloroethene	50	88			50					52 - 135	50 - 139	25	
1,2-Dichloropropane	50	106			50	108	110	2		70 - 138	68 - 142	25	
1,2-Dichloropropane	50	106			50					70 - 138	68 - 142	25	
1,2-Dichloropropane	50	101			50					70 - 138	68 - 142	25	
cis-1,3-Dichloropropene	50	116			50					73 - 145	69 - 146	25	
cis-1,3-Dichloropropene	50	116			50	115	118	2		73 - 145	69 - 146	25	
cis-1,3-Dichloropropene	50	88			50					73 - 145	69 - 146	25	
trans-1,3-Dichloropropene	50	130			50					65 - 150	60 - 150	25	
trans-1,3-Dichloropropene	50	130			50	125	127	2		65 - 150	60 - 150	25	
trans-1,3-Dichloropropene	50	83			50					65 - 150	60 - 150	25	
Ethylbenzene	50	122			50					65 - 133	57 - 138	25	
Ethylbenzene	50	85			50	81	76	7		65 - 133	57 - 138	25	
Ethylbenzene	50	104			50					65 - 133	57 - 138	25	
2-Hexanone	50	125			100					50 - 150	50 - 150	25	
2-Hexanone	50	121			50	127	123	3		50 - 150	50 - 150	25	
2-Hexanone	50	79			100					50 - 150	50 - 150	25	
Isopropylbenzene (Cumene)	50	95			50					62 - 134	54 - 141	25	

* denotes recovery outside of QC limits.

MS spike concentrations are not corrected for moisture content of the spiked sample.

(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4/27/2004 09:31:25

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/H2O) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Quality Control

Pace Analytical Services, Inc.
1000 Riverchase Blvd, Suite F
Birmingham, AL 35244
Phone 205-462-0333
Fax 205-462-0555

www.pacelabs.com

Project No.: 2031634

Method: Water GC/MS Volatile Organics

Batch: 40863

Units: ug/L

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	LCS RPD	MS Spike	MS %Rec	MSD %Rec	(1)MS RPD	DUP RPD	QC Limits LCS	MS/MSD	Max RPD	Qu
Isopropylbenzene (Cumene)	50	86			50	89	90	2		62 - 134	54 - 141	25	
Isopropylbenzene (Cumene)	50	88			50					62 - 134	54 - 141	25	
Methylene chloride (Dichloromethane)	50	96			50					50 - 150	50 - 144	25	
Methylene chloride (Dichloromethane)	50	95			50	97	94	3		50 - 150	50 - 144	25	
Methyl tert-butyl ether (MTBE)	50	82			50					50 - 142	50 - 150	25	
4-Methyl-2-pentanone (MIBK)	50	99			100					50 - 150	50 - 150	25	
4-Methyl-2-pentanone (MIBK)	50	96			50	81	78	4		50 - 150	50 - 150	25	
Methylene chloride (Dichloromethane)	50	89			50					50 - 150	50 - 144	25	
Methyl tert-butyl ether (MTBE)	50	106			50	107	107	0		50 - 142	50 - 150	25	
Methyl tert-butyl ether (MTBE)	50	104			50					50 - 142	50 - 150	25	
4-Methyl-2-pentanone (MIBK)	50	87			100					50 - 150	50 - 150	25	
Styrene	50	126			50					50 - 134	56 - 143	25	
Styrene	50	116			50	106	109	2		50 - 134	56 - 143	25	
Styrene	50	116			50					50 - 134	56 - 143	25	
1,1,2,2-Tetrachloroethane	50	92			50					56 - 146	58 - 143	25	
1,1,2,2-Tetrachloroethane	50	94			50	99	99	0		56 - 146	58 - 143	25	
1,1,2,2-Tetrachloroethane	50	81			50					56 - 146	58 - 143	25	
Tetrachloroethene (Perchloroethylene)	50	101			50	100	99	2		50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	119			50					50 - 150	50 - 150	25	
Tetrachloroethene (Perchloroethylene)	50	117			50					50 - 150	50 - 150	25	
Toluene	50	103			50	103	105	2		73 - 133	76 - 125	25	
Toluene	50	110			50					73 - 133	76 - 125	25	
Toluene	50	105			50					73 - 133	76 - 125	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	116			50					69 - 138	60 - 143	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	102			50	100	101	1		69 - 138	60 - 143	25	
1,1,1-Trichloroethane (Methyl chlorofo	50	82			50					69 - 138	60 - 143	25	
1,1,2-Trichloroethane	50	117			50	115	115	0		75 - 146	70 - 149	25	
1,1,2-Trichloroethane	50	119			50					75 - 146	70 - 149	25	
1,1,2-Trichloroethane	50	104			50					75 - 146	70 - 149	25	
Trichloroethene (Trichloroethylene)	50	99			50	96	98	2		76 - 138	71 - 120	25	
Trichloroethene (Trichloroethylene)	50	110			50					76 - 138	71 - 120	25	
Trichloroethene (Trichloroethylene)	50	121			50					76 - 138	71 - 120	25	
Trichlorofluoromethane (Freon 11)	50	118			50					50 - 150	50 - 150	25	
Trichlorofluoromethane (Freon 11)	50	90			50	85	83	2		50 - 150	50 - 150	25	
Trichlorofluoromethane (Freon 11)	50	91			50					50 - 150	50 - 150	25	
Vinyl chloride (Chloroethene)	50	89			50	90	91	2		50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	100			50					50 - 144	50 - 146	25	
Vinyl chloride (Chloroethene)	50	71			50					50 - 144	50 - 146	25	
m,p-Xylene	100	126			100					72 - 130	70 - 130	25	

* denotes recovery outside of QC limits.

MS spike concentrations are not corrected for moisture content of the spiked sample.

(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP/Drinking Water LA 030013)
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

4/27/2004 09:31:25



Report of Quality Control

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverchase Blvd, Suite F
Salem, MA 01967
Phone: 504 455 0333
Fax: 504 455 0333

Method: Water GC/MS Volatile Organics

Project No.: 2031634

Batch: 40863

Units: ug/L

Parameter Name	LCS	LCS	LCSD	LCS	MS	MS	MSD	(1)MS	DUP	QC Limits		Max	Qu
	Spike	%Rec	%Rec	RPD	Spike	%Rec	%Rec	RPD	RPD	LCS	MS/MSD	RPD	
m,p-Xylene		100	107			100	106	106	0	72 - 130	70 - 130	25	
m,p-Xylene		100	113			100				72 - 130	70 - 130	25	
o-Xylene		50	127			50				74 - 133	64 - 141	25	
o-Xylene		50	112			50	113	111	3	74 - 133	64 - 141	25	
o-Xylene		50	110			50				74 - 133	64 - 141	25	
Naphthalene		50	79			50				50 - 136	50 - 150	25	

123 compound(s) reported

* denotes recovery outside of QC limits.

MS spike concentrations are not corrected for moisture content of the spiked sample.

(1) MS RPD is calculated via SW-846 rules: on the basis of spiked sample concentrations rather than spike recoveries.

4/27/2004 09:31:25

Laboratory Certifications:

Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/H2) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Batch Surrogate Recovery

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
Saltillo, TN 37087
Phone: 604 469 0333
Fax: 604 469 0555

Method: Water GC/MS Volatile Organics

Report: 2031634

Batch: 40863

Lab ID	Type and Qualifiers	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20239859	Sample N	95	99	89					
20239860	Sample N	96	105	89					
20239861	Sample N	95	100	86					
20239862	Sample N	95	107	88					
20239883	Sample	91	103	88					
20239885	Sample	95	105	88					
20239887	Sample	96	109	86					
20239890	Sample	96	109	88					
20239897	Sample	96	108	88					
20239898	Sample N	97	110	87					
20239901	Sample	97	112	86					
20239910	Sample N	94	109	89					
20239911	Sample N	94	109	86					
20239912	Sample N	95	113	85					
20240990	Sample	96	110	88					
20241020	Sample	96	110	86					
20241021	Sample	95	109	89					
20241022	Sample	97	109	88					
20241023	Sample	96	111	88					
20241024	Sample	96	111	90					
20246612	Sample D6	105	92	89					
40863BM23	Blank	101	119	98					
40863BZ12	Blank	94	96	95					
40863BZ13	Blank	94	98	92					
40863MS	Spike	94	91	93					
40863MSD	Spike Dup	95	90	91					
40863SM23	LCS	96	94	83					
40863SZ12	LCS	94	87	93					
40863SZ13	LCS	97	87	90					

QC limits: 78-119 76-126 71-117

Sur 1: Toluene-d8 (S)
Sur 2: 4-Bromofluorobenzene (S)
Sur 3: Dibromofluoromethane (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

4/27/2004 09:31:26



Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverland Blvd. Suite F
Sunnyvale, CA 94087
Phone 504 466 0333
Fax 504 466 0333

Lab ID: 40863BM23

Description: Water Method Blank

Project No.: 2031634

Method: Water GC/MS Volatile Organics

Batch: 40863

Units: ug/L

Prep Factor: 1

Leached:

Prepared:

Analyzed: 23-Apr-04 10:36 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto)	1	ND	A99	10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND	A99	10.0
75-15-0	Carbon disulfide	1	ND	A99	5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND	A99	5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND	A99	10.0
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
79-20-9	Methylacetate	1	ND		10.0
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND	A99	10.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND	A99	5.00
100-42-5	Styrene	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.

DF denotes Dilution Factor.

RL denotes sample Reporting Limit.

Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/27/2004 09:31:27

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/H2 - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Saint Louis, LA 70067
Phone 504.466.8335
Fax 504.466.8335

Lab ID: 40863BM23

Description: Water Method Blank

Project No.: 2031634

Method: Water GC/MS Volatile Organics

Batch: 40863

Units: ug/L

Prep Factor: 1

Leached:

Prepared:

Analyzed: 23-Apr-04 10:36 MLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

42 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/27/2004 09:31:27

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Method Blank

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite 1
Slidell, LA 70687
Phone 504 466 0333
Fax 504 466 0335

www.pacelabs.com

Lab ID: 40863BZ12

Description: Water Method Blank

Project No.: 2031634

Method: Water GC/MS Volatile Organics

Batch: 40863

Units: ug/L

Prep Factor: 1

Leached:

Prepared:

Analyzed: 12-Apr-04 22:20 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto)	1	ND	A99	10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND	A99	10.0
75-15-0	Carbon disulfide	1	ND	A99	5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND	A99	5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND	A99	10.0
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
79-20-9	Methylacetate	1	ND		10.0
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND	A99	10.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND	A99	5.00
100-42-5	Styrene	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.

DF denotes Dilution Factor.

RL denotes sample Reporting Limit.

Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/27/2004 09:31:27

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP) Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E07595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP) WA/12 - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Rhineland Blvd, Suite F
Spartanburg, SC 29597
Phone 804 466 0333
Fax 804 466 0335

Lab ID: 40863BZ12

Description: Water Method Blank

Project No.: 2031634

Method: Water GC/MS Volatile Organics

Batch: 40863

Units: ug/L

Prep Factor: 1

Leached:

Prepared:

Analyzed: 12-Apr-04 22:20 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

42 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/27/2004 09:31:27

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQ8 - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Method Blank

Pace Analytical Services, Inc.
1000 Richmond Blvd. Suite F
Slidell, LA 70687
Phone 504 469 0333
Fax 504 469 0555

www.pacelabs.com

Lab ID: 40863BZ13

Description: Water Method Blank

Project No.: 2031634

Method: Water GC/MS Volatile Organics

Batch: 40863

Units: ug/L

Prep Factor: 1

Leached:

Prepared:

Analyzed: 13-Apr-04 12:23 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl keto)	1	ND	A99	10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		5.00
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND	A99	10.0
75-15-0	Carbon disulfide	1	ND	A99	5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		5.00
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		5.00
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1	ND	A99	5.00
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	1	ND		5.00
75-71-8	Dichlorodifluoromethane (Freon 12)	1	ND		5.00
124-48-1	Dibromochloromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.00
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND	A99	10.0
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00
79-20-9	Methylacetate	1	ND		10.0
75-09-2	Methylene chloride (Dichloromethane)	1	ND		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND	A99	10.0
1634-04-4	Methyl tert-butyl ether (MTBE)	1	ND	A99	5.00
100-42-5	Styrene	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00

ND denotes Not Detected at or above the reporting limit.

DF denotes Dilution Factor.

RL denotes sample Reporting Limit.

Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/27/2004 09:31:28

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/H2) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)



Report of Method Blank

www.pacelabs.com

Pace Analytical Services, Inc.
1000 Riverchase Blvd, Suite F
Sunnyvale, CA 94087
Phone 504 466 0333
Fax 504 466 0338

Lab ID: 40863BZ13

Description: Water Method Blank

Project No.: 2031634

Method: Water GC/MS Volatile Organics

Batch: 40863

Units: ug/L

Prep Factor: 1

Leached:

Prepared:

Analyzed: 13-Apr-04 12:23 RMP

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-69-4	Trichlorofluoromethane (Freon 11)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		5.00
1330-20-7	m,p-Xylene	1	ND		5.00
95-47-6	o-Xylene	1	ND		5.00

42 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

4/27/2004 09:31:28

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)

Report Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
Baton Rouge, LA 70807
Phone: 504 469 0333
Fax: 504 469 0533

Pace Analytical™
New Orleans Laboratory

www.pacelabs.com

Project No.: **2031634**

Analyte Qualifiers

Qualifier	Qualifier Description
-----------	-----------------------

A99	This analyte is a poor performer by this method. The QC recovery data for this analyte may be poor or erratic as demonstrated by a performance-based statistical evaluation.
-----	--

QC Qualifiers

Qualifier	Qualifier Description
-----------	-----------------------

Q10	The spike recovery was above the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples.
-----	---

Sample Qualifiers

Qualifier	Qualifier Description
-----------	-----------------------

D6	The sample was analyzed at a dilution based upon the screening information.
----	---

4/27/2004 09:31:28

Laboratory Certifications:
Louisiana Dept. of Health and Hospitals (ELAP)/Drinking Water LA 030013
Florida Dept. of Health/Hazardous Waste - E87595
Kansas Dept. of Health & Environment/ELWHW - E-10266
LELAP (NELAP WW/HZ) - 02006
EQB - Certified Puerto Rico Chemist
U.S. Dept. of Agriculture Animal & Plant Health Inspection Services -
Foreign Soil Import (U.S. Territories)