Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

August 21, 2012

Sandy Wackett
DEQ LABORATORY
602 N. Fifth St.
Baton Rouge, LA 70802

RE: Project 20142693
Project ID: BAYOU CORNE

Dear Sandy Wackett:

Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen
cindy.olavesen@pacelabs.com

**REPORT OF LABORATORY ANALYSIS**

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# Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20142693

**Client:** DEQ LABORATORY

**Project ID:** BAYOU CORNE

Washington Department of Ecology C2078
Oregon Environmental Laboratory Accreditation - LA200001
U.S. Dept. of Agriculture Foreign Soil Import P330-10-00119
Pennsylviania Dept. of Env Protection (NELAC) 68-04202
Texas Commission on Env. Quality (NELAC) T104704405-09-TX
Kansas Department of Health and Environment (NELAC) E-10266
Florida Department of Health (NELAC) E87595
Oklahoma Department of Environmental Quality - 2010-139
Illinois Environmental Protection Agency - 0025721
California Env. Lab Accreditation Program Branch - 11277CA
Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

8/21/2012 10:35:03

# Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20142693

**Client:** DEQ LABORATORY

**Project ID:** BAYOU CORNE

| Client Sample ID | Lab ID | Matrix | Collection Date/Time | Received Date/Time |
|---|---|---|---|---|
| 314-081012-007-90 | 201012242 | Water | 10-Aug-12 14:15 | 10-Aug-12 17:15 |
| 314-081012-007-98 | 201012243 | Water | 10-Aug-12 12:05 | 10-Aug-12 17:15 |
| 314-081012-007-88 | 201012244 | Water | 10-Aug-12 12:15 | 10-Aug-12 17:15 |
| 314-081012-007-89 | 201012248 | Water | 10-Aug-12 14:35 | 10-Aug-12 17:15 |
| 314-081012-007-131 | 201012249 | Water | 10-Aug-12 11:50 | 10-Aug-12 17:15 |
| 314-081012-007-TB | 201012250 | Water | 10-Aug-12 00:00 | 10-Aug-12 17:15 |

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**Project:** 20142693

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

All surrogate recoveries were within QC limits.

Regulatory, Permit or Client Specified Limits:

57 results were found that exceeded regulatory, permit or client specified limits.

# QC Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20142693

| Analytical Method | Batch | Sample used for QC |
|---|---|---|
| EPA 8260 | 190210 | Client sample 327-1200810-14 from project 20142694 |
| SM 2540C | 190240 | Client sample 048-120810-10 from project 20142691 |
| SM 4500-Cl E | 190235 | Client sample 048-120810-10 from project 20142691 |
| ASTM D516-90 | 190466 | Client sample 048-120810-10 from project 20142691 |



For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from a different client was used.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-90
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012242
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 62-53-3 | Aniline | 1 | ND | | 10.0 | 12.0 | 15-Aug-12 14:11 | JAM |
| 92-52-4 | Biphenyl (Diphenyl) | 1 | ND | | 10.0 | 30.0 | 15-Aug-12 14:11 | JAM |
| 85-68-7 | Butylbenzylphthalate | 1 | ND | | 10.0 | 730. | 15-Aug-12 14:11 | JAM |
| 88-85-7 | Dinoseb | 1 | ND | | 10.0 | 7.00 | 15-Aug-12 14:11 | JAM |
| 106-47-8 | 3&4-Chloroaniline | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 14:11 | JAM |
| 111-44-4 | bis(2-Chloroethyl) ether | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 14:11 | JAM |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 14:11 | JAM |
| 91-58-7 | 2-Chloronaphthalene | 1 | ND | | 10.0 | 49.0 | 15-Aug-12 14:11 | JAM |
| 95-57-8 | 2-Chlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 | JAM |
| 132-64-9 | Dibenzofuran | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 | JAM |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | ND | | 10.0 | 600. | 15-Aug-12 14:11 | JAM |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 | JAM |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | ND | | 10.0 | 75.0 | 15-Aug-12 14:11 | JAM |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | ND | | 20.0 | 20.0 | 15-Aug-12 14:11 | JAM |
| 120-83-2 | 2,4-Dichlorophenol | 1 | ND | | 10.0 | 11.0 | 15-Aug-12 14:11 | JAM |
| 84-66-2 | Diethylphthalate | 1 | ND | | 10.0 | 2900 | 15-Aug-12 14:11 | JAM |
| 105-67-9 | 2,4-Dimethylphenol | 1 | ND | | 10.0 | 73.0 | 15-Aug-12 14:11 | JAM |
| 131-11-3 | Dimethylphthalate | 1 | ND | | 10.0 | 37000 | 15-Aug-12 14:11 | JAM |
| 99-65-0 | 1,3-Dinitrobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 | JAM |
| 51-28-5 | 2,4-Dinitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:11 | JAM |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 | JAM |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 | JAM |
| 117-84-0 | Di-n-octylphthalate | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 14:11 | JAM |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | ND | | 10.0 | 6.00 | 15-Aug-12 14:11 | JAM |
| 118-74-1 | Hexachlorobenzene | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 14:11 | JAM |
| 87-68-3 | Hexachloro-1,3-butadiene | 1 | ND | | 10.0 | 0.730 | 15-Aug-12 14:11 | JAM |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:11 | JAM |
| 67-72-1 | Hexachloroethane | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 | JAM |
| 78-59-1 | Isophorone | 1 | ND | | 10.0 | 70.0 | 15-Aug-12 14:11 | JAM |
| 88-74-4 | 2-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:11 | JAM |
| 99-09-2 | 3-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:11 | JAM |
| 100-01-6 | 4-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:11 | JAM |
| 98-95-3 | Nitrobenzene | 1 | ND | | 10.0 | 1.90 | 15-Aug-12 14:11 | JAM |
| 100-02-7 | 4-Nitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:11 | JAM |

Protocol 8/21/2012 10:36:18

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-90
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012242
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 JAM |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | ND | | 10.0 | 14.0 | 15-Aug-12 14:11 JAM |
| 87-86-5 | Pentachlorophenol | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 14:11 JAM |
| 108-95-2 | Phenol | 1 | ND | | 10.0 | 180. | 15-Aug-12 14:11 JAM |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | ND | | 10.0 | 1.10 | 15-Aug-12 14:11 JAM |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | ND | | 10.0 | 110. | 15-Aug-12 14:11 JAM |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | ND | | 10.0 | 370. | 15-Aug-12 14:11 JAM |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:11 JAM |

**42 compound(s) reported**

Protocol 8/21/2012 10:36:18

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# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-90
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012242
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190216
**Method:** EPA 8270
GCMS SVOAs SIM Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 1 | ND | | 0.000100 | 0.0370 | 13-Aug-12 19:47 JAM |
| 208-96-8 | Acenaphthylene | 1 | ND | | 0.000100 | 0.100 | 13-Aug-12 19:47 JAM |
| 120-12-7 | Anthracene | 1 | ND | | 0.000100 | 0.0430 | 13-Aug-12 19:47 JAM |
| 56-55-3 | Benzo(a)anthracene | 1 | ND | | 0.000100 | 0.00780 | 13-Aug-12 19:47 JAM |
| 205-99-2 | Benzo(b)fluoranthene | 1 | ND | | 0.000100 | 0.00480 | 13-Aug-12 19:47 JAM |
| 207-08-9 | Benzo(k)fluoranthene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 19:47 JAM |
| 50-32-8 | Benzo(a)pyrene | 1 | ND | | 0.000100 | 0.000200 | 13-Aug-12 19:47 JAM |
| 218-01-9 | Chrysene | 1 | ND | | 0.000100 | 0.00160 | 13-Aug-12 19:47 JAM |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 19:47 JAM |
| 206-44-0 | Fluoranthene | 1 | ND | | 0.000100 | 0.150 | 13-Aug-12 19:47 JAM |
| 86-73-7 | Fluorene | 1 | ND | | 0.000100 | 0.0240 | 13-Aug-12 19:47 JAM |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | ND | | 0.000100 | 0.00370 | 13-Aug-12 19:47 JAM |
| 91-57-6 | 2-Methylnaphthalene | 1 | 0.000230 | | 0.000100 | 0.000620 | 13-Aug-12 19:47 JAM |
| 91-20-3 | Naphthalene | 1 | 0.000250 | | 0.000100 | 0.0100 | 13-Aug-12 19:47 JAM |
| 85-01-8 | Phenanthrene | 1 | ND | | 0.000100 | 0.180 | 13-Aug-12 19:47 JAM |
| 129-00-0 | Pyrene | 1 | ND | | 0.000100 | 0.0180 | 13-Aug-12 19:47 JAM |

**16 compound(s) reported**

Protocol 8/21/2012 10:36:19

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-90
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012242
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 1 | ND | | 0.0100 | 0.100 | 13-Aug-12 12:04 | RMP |
| 71-43-2 | Benzene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 75-27-4 | Bromodichloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:04 | RMP |
| 75-25-2 | Bromoform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:04 | RMP |
| 74-83-9 | Bromomethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:04 | RMP |
| 78-93-3 | 2-Butanone (MEK) | 1 | ND | | 0.0100 | 0.190 | 13-Aug-12 12:04 | RMP |
| 75-15-0 | Carbon disulfide | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:04 | RMP |
| 56-23-5 | Carbon tetrachloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 108-90-7 | Chlorobenzene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:04 | RMP |
| 75-00-3 | Chloroethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:04 | RMP |
| 67-66-3 | Chloroform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:04 | RMP |
| 74-87-3 | Chloromethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:04 | RMP |
| 124-48-1 | Dibromochloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:04 | RMP |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | ND | | 0.00500 | 0.000200 | 13-Aug-12 12:04 | RMP |
| 75-34-3 | 1,1-Dichloroethane | 1 | ND | | 0.00500 | 0.0810 | 13-Aug-12 12:04 | RMP |
| 107-06-2 | 1,2-Dichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 75-35-4 | 1,1-Dichloroethene | 1 | ND | | 0.00500 | 0.00700 | 13-Aug-12 12:04 | RMP |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 12:04 | RMP |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:04 | RMP |
| 78-87-5 | 1,2-Dichloropropane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 100-41-4 | Ethylbenzene | 1 | ND | | 0.00500 | 0.700 | 13-Aug-12 12:04 | RMP |
| 1634-04-4 | Methyl-tert-butyl ether | 1 | ND | | 0.00500 | 0.0200 | 13-Aug-12 12:04 | RMP |
| 75-09-2 | Methylene chloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1 | ND | | 0.0100 | 0.200 | 13-Aug-12 12:04 | RMP |
| 78-83-1 | Isobutanol | 1 | ND | | 0.250 | 1.10 | 13-Aug-12 12:04 | RMP |
| 100-42-5 | Styrene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:04 | RMP |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.000500 | 13-Aug-12 12:04 | RMP |
| 127-18-4 | Tetrachloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 | RMP |
| 108-88-3 | Toluene | 1 | ND | | 0.00500 | 1.00 | 13-Aug-12 12:04 | RMP |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 12:04 | RMP |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | ND | | 0.00500 | 0.200 | 13-Aug-12 12:04 | RMP |

Protocol 8/21/2012 10:36:19

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-90
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012242
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 RMP |
| 79-01-6 | Trichloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:04 RMP |
| 75-69-4 | Trichlorofluoromethane | 1 | ND | | 0.00500 | 0.130 | 13-Aug-12 12:04 RMP |
| 75-01-4 | Vinyl chloride | 1 | ND | | 0.00200 | 0.00200 | 13-Aug-12 12:04 RMP |
| | m&p-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 12:04 RMP |
| 95-47-6 | o-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 12:04 RMP |

**40 compound(s) reported**

Protocol 8/21/2012 10:36:19

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-98
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012243
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 62-53-3 | Aniline | 1 | ND | | 10.0 | 12.0 | 15-Aug-12 14:37 JAM |
| 92-52-4 | Biphenyl (Diphenyl) | 1 | ND | | 10.0 | 30.0 | 15-Aug-12 14:37 JAM |
| 85-68-7 | Butylbenzylphthalate | 1 | ND | | 10.0 | 730. | 15-Aug-12 14:37 JAM |
| 88-85-7 | Dinoseb | 1 | ND | | 10.0 | 7.00 | 15-Aug-12 14:37 JAM |
| 106-47-8 | 3&4-Chloroaniline | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 14:37 JAM |
| 111-44-4 | bis(2-Chloroethyl) ether | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 14:37 JAM |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 14:37 JAM |
| 91-58-7 | 2-Chloronaphthalene | 1 | ND | | 10.0 | 49.0 | 15-Aug-12 14:37 JAM |
| 95-57-8 | 2-Chlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |
| 132-64-9 | Dibenzofuran | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | ND | | 10.0 | 600. | 15-Aug-12 14:37 JAM |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | ND | | 10.0 | 75.0 | 15-Aug-12 14:37 JAM |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | ND | | 20.0 | 20.0 | 15-Aug-12 14:37 JAM |
| 120-83-2 | 2,4-Dichlorophenol | 1 | ND | | 10.0 | 11.0 | 15-Aug-12 14:37 JAM |
| 84-66-2 | Diethylphthalate | 1 | ND | | 10.0 | 2900 | 15-Aug-12 14:37 JAM |
| 105-67-9 | 2,4-Dimethylphenol | 1 | ND | | 10.0 | 73.0 | 15-Aug-12 14:37 JAM |
| 131-11-3 | Dimethylphthalate | 1 | ND | | 10.0 | 37000 | 15-Aug-12 14:37 JAM |
| 99-65-0 | 1,3-Dinitrobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |
| 51-28-5 | 2,4-Dinitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:37 JAM |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |
| 117-84-0 | Di-n-octylphthalate | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 14:37 JAM |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | ND | | 10.0 | 6.00 | 15-Aug-12 14:37 JAM |
| 118-74-1 | Hexachlorobenzene | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 14:37 JAM |
| 87-68-3 | Hexachloro-1,3-butadiene | 1 | ND | | 10.0 | 0.730 | 15-Aug-12 14:37 JAM |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:37 JAM |
| 67-72-1 | Hexachloroethane | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |
| 78-59-1 | Isophorone | 1 | ND | | 10.0 | 70.0 | 15-Aug-12 14:37 JAM |
| 88-74-4 | 2-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:37 JAM |
| 99-09-2 | 3-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:37 JAM |
| 100-01-6 | 4-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:37 JAM |
| 98-95-3 | Nitrobenzene | 1 | ND | | 10.0 | 1.90 | 15-Aug-12 14:37 JAM |
| 100-02-7 | 4-Nitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 14:37 JAM |

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-98
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012243
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | ND | | 10.0 | 14.0 | 15-Aug-12 14:37 JAM |
| 87-86-5 | Pentachlorophenol | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 14:37 JAM |
| 108-95-2 | Phenol | 1 | ND | | 10.0 | 180. | 15-Aug-12 14:37 JAM |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | ND | | 10.0 | 1.10 | 15-Aug-12 14:37 JAM |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | ND | | 10.0 | 110. | 15-Aug-12 14:37 JAM |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | ND | | 10.0 | 370. | 15-Aug-12 14:37 JAM |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 14:37 JAM |

**42 compound(s) reported**

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-98
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012243
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190216
**Method:** EPA 8270
GCMS SVOAs SIM Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 1 | ND | | 0.000100 | 0.0370 | 13-Aug-12 20:09 JAM |
| 208-96-8 | Acenaphthylene | 1 | ND | | 0.000100 | 0.100 | 13-Aug-12 20:09 JAM |
| 120-12-7 | Anthracene | 1 | ND | | 0.000100 | 0.0430 | 13-Aug-12 20:09 JAM |
| 56-55-3 | Benzo(a)anthracene | 1 | ND | | 0.000100 | 0.00780 | 13-Aug-12 20:09 JAM |
| 205-99-2 | Benzo(b)fluoranthene | 1 | ND | | 0.000100 | 0.00480 | 13-Aug-12 20:09 JAM |
| 207-08-9 | Benzo(k)fluoranthene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 20:09 JAM |
| 50-32-8 | Benzo(a)pyrene | 1 | ND | | 0.000100 | 0.000200 | 13-Aug-12 20:09 JAM |
| 218-01-9 | Chrysene | 1 | ND | | 0.000100 | 0.00160 | 13-Aug-12 20:09 JAM |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 20:09 JAM |
| 206-44-0 | Fluoranthene | 1 | ND | | 0.000100 | 0.150 | 13-Aug-12 20:09 JAM |
| 86-73-7 | Fluorene | 1 | ND | | 0.000100 | 0.0240 | 13-Aug-12 20:09 JAM |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | ND | | 0.000100 | 0.00370 | 13-Aug-12 20:09 JAM |
| 91-57-6 | 2-Methylnaphthalene | 1 | ND | | 0.000100 | 0.000620 | 13-Aug-12 20:09 JAM |
| 91-20-3 | Naphthalene | 1 | ND | | 0.000100 | 0.0100 | 13-Aug-12 20:09 JAM |
| 85-01-8 | Phenanthrene | 1 | ND | | 0.000100 | 0.180 | 13-Aug-12 20:09 JAM |
| 129-00-0 | Pyrene | 1 | ND | | 0.000100 | 0.0180 | 13-Aug-12 20:09 JAM |

**16 compound(s) reported**

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-98
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012243
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 1 | ND | | 0.0100 | 0.100 | 13-Aug-12 12:24 | RMP |
| 71-43-2 | Benzene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 75-27-4 | Bromodichloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:24 | RMP |
| 75-25-2 | Bromoform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:24 | RMP |
| 74-83-9 | Bromomethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:24 | RMP |
| 78-93-3 | 2-Butanone (MEK) | 1 | ND | | 0.0100 | 0.190 | 13-Aug-12 12:24 | RMP |
| 75-15-0 | Carbon disulfide | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:24 | RMP |
| 56-23-5 | Carbon tetrachloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 108-90-7 | Chlorobenzene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:24 | RMP |
| 75-00-3 | Chloroethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:24 | RMP |
| 67-66-3 | Chloroform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:24 | RMP |
| 74-87-3 | Chloromethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:24 | RMP |
| 124-48-1 | Dibromochloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:24 | RMP |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | ND | | 0.00500 | 0.000200 | 13-Aug-12 12:24 | RMP |
| 75-34-3 | 1,1-Dichloroethane | 1 | ND | | 0.00500 | 0.0810 | 13-Aug-12 12:24 | RMP |
| 107-06-2 | 1,2-Dichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 75-35-4 | 1,1-Dichloroethene | 1 | ND | | 0.00500 | 0.00700 | 13-Aug-12 12:24 | RMP |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 12:24 | RMP |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:24 | RMP |
| 78-87-5 | 1,2-Dichloropropane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 100-41-4 | Ethylbenzene | 1 | ND | | 0.00500 | 0.700 | 13-Aug-12 12:24 | RMP |
| 1634-04-4 | Methyl-tert-butyl ether | 1 | ND | | 0.00500 | 0.0200 | 13-Aug-12 12:24 | RMP |
| 75-09-2 | Methylene chloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1 | ND | | 0.0100 | 0.200 | 13-Aug-12 12:24 | RMP |
| 78-83-1 | Isobutanol | 1 | ND | | 0.250 | 1.10 | 13-Aug-12 12:24 | RMP |
| 100-42-5 | Styrene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:24 | RMP |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.000500 | 13-Aug-12 12:24 | RMP |
| 127-18-4 | Tetrachloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 | RMP |
| 108-88-3 | Toluene | 1 | ND | | 0.00500 | 1.00 | 13-Aug-12 12:24 | RMP |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 12:24 | RMP |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | ND | | 0.00500 | 0.200 | 13-Aug-12 12:24 | RMP |

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-98
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012243
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 RMP |
| 79-01-6 | Trichloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:24 RMP |
| 75-69-4 | Trichlorofluoromethane | 1 | ND | | 0.00500 | 0.130 | 13-Aug-12 12:24 RMP |
| 75-01-4 | Vinyl chloride | 1 | ND | | 0.00200 | 0.00200 | 13-Aug-12 12:24 RMP |
| | m&p-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 12:24 RMP |
| 95-47-6 | o-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 12:24 RMP |

**40 compound(s) reported**

Protocol 8/21/2012 10:36:19

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-88
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012244
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 62-53-3 | Aniline | 1 | ND | | 10.0 | 12.0 | 15-Aug-12 15:02 | JAM |
| 92-52-4 | Biphenyl (Diphenyl) | 1 | ND | | 10.0 | 30.0 | 15-Aug-12 15:02 | JAM |
| 85-68-7 | Butylbenzylphthalate | 1 | ND | | 10.0 | 730. | 15-Aug-12 15:02 | JAM |
| 88-85-7 | Dinoseb | 1 | ND | | 10.0 | 7.00 | 15-Aug-12 15:02 | JAM |
| 106-47-8 | 3&4-Chloroaniline | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 15:02 | JAM |
| 111-44-4 | bis(2-Chloroethyl) ether | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 15:02 | JAM |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 15:02 | JAM |
| 91-58-7 | 2-Chloronaphthalene | 1 | ND | | 10.0 | 49.0 | 15-Aug-12 15:02 | JAM |
| 95-57-8 | 2-Chlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 | JAM |
| 132-64-9 | Dibenzofuran | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 | JAM |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | ND | | 10.0 | 600. | 15-Aug-12 15:02 | JAM |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 | JAM |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | ND | | 10.0 | 75.0 | 15-Aug-12 15:02 | JAM |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | ND | | 20.0 | 20.0 | 15-Aug-12 15:02 | JAM |
| 120-83-2 | 2,4-Dichlorophenol | 1 | ND | | 10.0 | 11.0 | 15-Aug-12 15:02 | JAM |
| 84-66-2 | Diethylphthalate | 1 | ND | | 10.0 | 2900 | 15-Aug-12 15:02 | JAM |
| 105-67-9 | 2,4-Dimethylphenol | 1 | ND | | 10.0 | 73.0 | 15-Aug-12 15:02 | JAM |
| 131-11-3 | Dimethylphthalate | 1 | ND | | 10.0 | 37000 | 15-Aug-12 15:02 | JAM |
| 99-65-0 | 1,3-Dinitrobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 | JAM |
| 51-28-5 | 2,4-Dinitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:02 | JAM |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 | JAM |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 | JAM |
| 117-84-0 | Di-n-octylphthalate | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 15:02 | JAM |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | ND | | 10.0 | 6.00 | 15-Aug-12 15:02 | JAM |
| 118-74-1 | Hexachlorobenzene | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 15:02 | JAM |
| 87-68-3 | Hexachloro-1,3-butadiene | 1 | ND | | 10.0 | 0.730 | 15-Aug-12 15:02 | JAM |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:02 | JAM |
| 67-72-1 | Hexachloroethane | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 | JAM |
| 78-59-1 | Isophorone | 1 | ND | | 10.0 | 70.0 | 15-Aug-12 15:02 | JAM |
| 88-74-4 | 2-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:02 | JAM |
| 99-09-2 | 3-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:02 | JAM |
| 100-01-6 | 4-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:02 | JAM |
| 98-95-3 | Nitrobenzene | 1 | ND | | 10.0 | 1.90 | 15-Aug-12 15:02 | JAM |
| 100-02-7 | 4-Nitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:02 | JAM |

Protocol 8/21/2012 10:36:19

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-88
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012244
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 JAM |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | ND | | 10.0 | 14.0 | 15-Aug-12 15:02 JAM |
| 87-86-5 | Pentachlorophenol | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 15:02 JAM |
| 108-95-2 | Phenol | 1 | ND | | 10.0 | 180. | 15-Aug-12 15:02 JAM |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | ND | | 10.0 | 1.10 | 15-Aug-12 15:02 JAM |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | ND | | 10.0 | 110. | 15-Aug-12 15:02 JAM |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | ND | | 10.0 | 370. | 15-Aug-12 15:02 JAM |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:02 JAM |

**42 compound(s) reported**

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-88
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012244
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190216
**Method:** EPA 8270
GCMS SVOAs SIM Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 1 | ND | | 0.000100 | 0.0370 | 13-Aug-12 20:30 JAM |
| 208-96-8 | Acenaphthylene | 1 | ND | | 0.000100 | 0.100 | 13-Aug-12 20:30 JAM |
| 120-12-7 | Anthracene | 1 | ND | | 0.000100 | 0.0430 | 13-Aug-12 20:30 JAM |
| 56-55-3 | Benzo(a)anthracene | 1 | ND | | 0.000100 | 0.00780 | 13-Aug-12 20:30 JAM |
| 205-99-2 | Benzo(b)fluoranthene | 1 | ND | | 0.000100 | 0.00480 | 13-Aug-12 20:30 JAM |
| 207-08-9 | Benzo(k)fluoranthene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 20:30 JAM |
| 50-32-8 | Benzo(a)pyrene | 1 | ND | | 0.000100 | 0.000200 | 13-Aug-12 20:30 JAM |
| 218-01-9 | Chrysene | 1 | ND | | 0.000100 | 0.00160 | 13-Aug-12 20:30 JAM |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 20:30 JAM |
| 206-44-0 | Fluoranthene | 1 | ND | | 0.000100 | 0.150 | 13-Aug-12 20:30 JAM |
| 86-73-7 | Fluorene | 1 | ND | | 0.000100 | 0.0240 | 13-Aug-12 20:30 JAM |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | ND | | 0.000100 | 0.00370 | 13-Aug-12 20:30 JAM |
| 91-57-6 | 2-Methylnaphthalene | 1 | ND | | 0.000100 | 0.000620 | 13-Aug-12 20:30 JAM |
| 91-20-3 | Naphthalene | 1 | ND | | 0.000100 | 0.0100 | 13-Aug-12 20:30 JAM |
| 85-01-8 | Phenanthrene | 1 | ND | | 0.000100 | 0.180 | 13-Aug-12 20:30 JAM |
| 129-00-0 | Pyrene | 1 | ND | | 0.000100 | 0.0180 | 13-Aug-12 20:30 JAM |

**16 compound(s) reported**

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-88
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012244
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 1 | ND | | 0.0100 | 0.100 | 13-Aug-12 12:44 | RMP |
| 71-43-2 | Benzene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 75-27-4 | Bromodichloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:44 | RMP |
| 75-25-2 | Bromoform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:44 | RMP |
| 74-83-9 | Bromomethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:44 | RMP |
| 78-93-3 | 2-Butanone (MEK) | 1 | ND | | 0.0100 | 0.190 | 13-Aug-12 12:44 | RMP |
| 75-15-0 | Carbon disulfide | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:44 | RMP |
| 56-23-5 | Carbon tetrachloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 108-90-7 | Chlorobenzene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:44 | RMP |
| 75-00-3 | Chloroethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:44 | RMP |
| 67-66-3 | Chloroform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:44 | RMP |
| 74-87-3 | Chloromethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 12:44 | RMP |
| 124-48-1 | Dibromochloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:44 | RMP |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | ND | | 0.00500 | 0.000200 | 13-Aug-12 12:44 | RMP |
| 75-34-3 | 1,1-Dichloroethane | 1 | ND | | 0.00500 | 0.0810 | 13-Aug-12 12:44 | RMP |
| 107-06-2 | 1,2-Dichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 75-35-4 | 1,1-Dichloroethene | 1 | ND | | 0.00500 | 0.00700 | 13-Aug-12 12:44 | RMP |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 12:44 | RMP |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:44 | RMP |
| 78-87-5 | 1,2-Dichloropropane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 100-41-4 | Ethylbenzene | 1 | ND | | 0.00500 | 0.700 | 13-Aug-12 12:44 | RMP |
| 1634-04-4 | Methyl-tert-butyl ether | 1 | ND | | 0.00500 | 0.0200 | 13-Aug-12 12:44 | RMP |
| 75-09-2 | Methylene chloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1 | ND | | 0.0100 | 0.200 | 13-Aug-12 12:44 | RMP |
| 78-83-1 | Isobutanol | 1 | ND | | 0.250 | 1.10 | 13-Aug-12 12:44 | RMP |
| 100-42-5 | Styrene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 12:44 | RMP |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.000500 | 13-Aug-12 12:44 | RMP |
| 127-18-4 | Tetrachloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 | RMP |
| 108-88-3 | Toluene | 1 | ND | | 0.00500 | 1.00 | 13-Aug-12 12:44 | RMP |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 12:44 | RMP |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | ND | | 0.00500 | 0.200 | 13-Aug-12 12:44 | RMP |

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-88
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012244
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 RMP |
| 79-01-6 | Trichloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 12:44 RMP |
| 75-69-4 | Trichlorofluoromethane | 1 | ND | | 0.00500 | 0.130 | 13-Aug-12 12:44 RMP |
| 75-01-4 | Vinyl chloride | 1 | ND | | 0.00200 | 0.00200 | 13-Aug-12 12:44 RMP |
| | m&p-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 12:44 RMP |
| 95-47-6 | o-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 12:44 RMP |

**40 compound(s) reported**

Protocol 8/21/2012 10:36:19

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Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-89
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012248
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 62-53-3 | Aniline | 1 | ND | | 10.0 | 12.0 | 15-Aug-12 15:27 JAM |
| 92-52-4 | Biphenyl (Diphenyl) | 1 | ND | | 10.0 | 30.0 | 15-Aug-12 15:27 JAM |
| 85-68-7 | Butylbenzylphthalate | 1 | ND | | 10.0 | 730. | 15-Aug-12 15:27 JAM |
| 88-85-7 | Dinoseb | 1 | ND | | 10.0 | 7.00 | 15-Aug-12 15:27 JAM |
| 106-47-8 | 3&4-Chloroaniline | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 15:27 JAM |
| 111-44-4 | bis(2-Chloroethyl) ether | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 15:27 JAM |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 15:27 JAM |
| 91-58-7 | 2-Chloronaphthalene | 1 | ND | | 10.0 | 49.0 | 15-Aug-12 15:27 JAM |
| 95-57-8 | 2-Chlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |
| 132-64-9 | Dibenzofuran | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | ND | | 10.0 | 600. | 15-Aug-12 15:27 JAM |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | ND | | 10.0 | 75.0 | 15-Aug-12 15:27 JAM |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | ND | | 20.0 | 20.0 | 15-Aug-12 15:27 JAM |
| 120-83-2 | 2,4-Dichlorophenol | 1 | ND | | 10.0 | 11.0 | 15-Aug-12 15:27 JAM |
| 84-66-2 | Diethylphthalate | 1 | ND | | 10.0 | 2900 | 15-Aug-12 15:27 JAM |
| 105-67-9 | 2,4-Dimethylphenol | 1 | ND | | 10.0 | 73.0 | 15-Aug-12 15:27 JAM |
| 131-11-3 | Dimethylphthalate | 1 | ND | | 10.0 | 37000 | 15-Aug-12 15:27 JAM |
| 99-65-0 | 1,3-Dinitrobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |
| 51-28-5 | 2,4-Dinitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:27 JAM |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |
| 117-84-0 | Di-n-octylphthalate | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 15:27 JAM |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | ND | | 10.0 | 6.00 | 15-Aug-12 15:27 JAM |
| 118-74-1 | Hexachlorobenzene | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 15:27 JAM |
| 87-68-3 | Hexachloro-1,3-butadiene | 1 | ND | | 10.0 | 0.730 | 15-Aug-12 15:27 JAM |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:27 JAM |
| 67-72-1 | Hexachloroethane | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |
| 78-59-1 | Isophorone | 1 | ND | | 10.0 | 70.0 | 15-Aug-12 15:27 JAM |
| 88-74-4 | 2-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:27 JAM |
| 99-09-2 | 3-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:27 JAM |
| 100-01-6 | 4-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:27 JAM |
| 98-95-3 | Nitrobenzene | 1 | ND | | 10.0 | 1.90 | 15-Aug-12 15:27 JAM |
| 100-02-7 | 4-Nitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:27 JAM |

Protocol 8/21/2012 10:36:19

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-89
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012248
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | ND | | 10.0 | 14.0 | 15-Aug-12 15:27 JAM |
| 87-86-5 | Pentachlorophenol | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 15:27 JAM |
| 108-95-2 | Phenol | 1 | ND | | 10.0 | 180. | 15-Aug-12 15:27 JAM |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | ND | | 10.0 | 1.10 | 15-Aug-12 15:27 JAM |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | ND | | 10.0 | 110. | 15-Aug-12 15:27 JAM |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | ND | | 10.0 | 370. | 15-Aug-12 15:27 JAM |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:27 JAM |

**42 compound(s) reported**

Protocol 8/21/2012 10:36:19

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-89
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012248
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190216
**Method:** EPA 8270
GCMS SVOAs SIM Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 1 | ND | | 0.000100 | 0.0370 | 13-Aug-12 20:52 JAM |
| 208-96-8 | Acenaphthylene | 1 | ND | | 0.000100 | 0.100 | 13-Aug-12 20:52 JAM |
| 120-12-7 | Anthracene | 1 | ND | | 0.000100 | 0.0430 | 13-Aug-12 20:52 JAM |
| 56-55-3 | Benzo(a)anthracene | 1 | ND | | 0.000100 | 0.00780 | 13-Aug-12 20:52 JAM |
| 205-99-2 | Benzo(b)fluoranthene | 1 | ND | | 0.000100 | 0.00480 | 13-Aug-12 20:52 JAM |
| 207-08-9 | Benzo(k)fluoranthene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 20:52 JAM |
| 50-32-8 | Benzo(a)pyrene | 1 | ND | | 0.000100 | 0.000200 | 13-Aug-12 20:52 JAM |
| 218-01-9 | Chrysene | 1 | ND | | 0.000100 | 0.00160 | 13-Aug-12 20:52 JAM |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 20:52 JAM |
| 206-44-0 | Fluoranthene | 1 | ND | | 0.000100 | 0.150 | 13-Aug-12 20:52 JAM |
| 86-73-7 | Fluorene | 1 | ND | | 0.000100 | 0.0240 | 13-Aug-12 20:52 JAM |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | ND | | 0.000100 | 0.00370 | 13-Aug-12 20:52 JAM |
| 91-57-6 | 2-Methylnaphthalene | 1 | ND | | 0.000100 | 0.000620 | 13-Aug-12 20:52 JAM |
| 91-20-3 | Naphthalene | 1 | ND | | 0.000100 | 0.0100 | 13-Aug-12 20:52 JAM |
| 85-01-8 | Phenanthrene | 1 | ND | | 0.000100 | 0.180 | 13-Aug-12 20:52 JAM |
| 129-00-0 | Pyrene | 1 | ND | | 0.000100 | 0.0180 | 13-Aug-12 20:52 JAM |

**16 compound(s) reported**

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-89
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012248
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 1 | ND | | 0.0100 | 0.100 | 13-Aug-12 13:04 | RMP |
| 71-43-2 | Benzene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 75-27-4 | Bromodichloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:04 | RMP |
| 75-25-2 | Bromoform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:04 | RMP |
| 74-83-9 | Bromomethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:04 | RMP |
| 78-93-3 | 2-Butanone (MEK) | 1 | ND | | 0.0100 | 0.190 | 13-Aug-12 13:04 | RMP |
| 75-15-0 | Carbon disulfide | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:04 | RMP |
| 56-23-5 | Carbon tetrachloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 108-90-7 | Chlorobenzene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:04 | RMP |
| 75-00-3 | Chloroethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:04 | RMP |
| 67-66-3 | Chloroform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:04 | RMP |
| 74-87-3 | Chloromethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:04 | RMP |
| 124-48-1 | Dibromochloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:04 | RMP |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | ND | | 0.00500 | 0.000200 | 13-Aug-12 13:04 | RMP |
| 75-34-3 | 1,1-Dichloroethane | 1 | ND | | 0.00500 | 0.0810 | 13-Aug-12 13:04 | RMP |
| 107-06-2 | 1,2-Dichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 75-35-4 | 1,1-Dichloroethene | 1 | ND | | 0.00500 | 0.00700 | 13-Aug-12 13:04 | RMP |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 13:04 | RMP |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:04 | RMP |
| 78-87-5 | 1,2-Dichloropropane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 100-41-4 | Ethylbenzene | 1 | ND | | 0.00500 | 0.700 | 13-Aug-12 13:04 | RMP |
| 1634-04-4 | Methyl-tert-butyl ether | 1 | ND | | 0.00500 | 0.0200 | 13-Aug-12 13:04 | RMP |
| 75-09-2 | Methylene chloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1 | ND | | 0.0100 | 0.200 | 13-Aug-12 13:04 | RMP |
| 78-83-1 | Isobutanol | 1 | ND | | 0.250 | 1.10 | 13-Aug-12 13:04 | RMP |
| 100-42-5 | Styrene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:04 | RMP |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.000500 | 13-Aug-12 13:04 | RMP |
| 127-18-4 | Tetrachloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 | RMP |
| 108-88-3 | Toluene | 1 | ND | | 0.00500 | 1.00 | 13-Aug-12 13:04 | RMP |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 13:04 | RMP |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | ND | | 0.00500 | 0.200 | 13-Aug-12 13:04 | RMP |

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-89
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012248
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 RMP |
| 79-01-6 | Trichloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:04 RMP |
| 75-69-4 | Trichlorofluoromethane | 1 | ND | | 0.00500 | 0.130 | 13-Aug-12 13:04 RMP |
| 75-01-4 | Vinyl chloride | 1 | ND | | 0.00200 | 0.00200 | 13-Aug-12 13:04 RMP |
| | m&p-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 13:04 RMP |
| 95-47-6 | o-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 13:04 RMP |

**40 compound(s) reported**

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-131
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012249
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 62-53-3 | Aniline | 1 | ND | | 10.0 | 12.0 | 15-Aug-12 15:52 | JAM |
| 92-52-4 | Biphenyl (Diphenyl) | 1 | ND | | 10.0 | 30.0 | 15-Aug-12 15:52 | JAM |
| 85-68-7 | Butylbenzylphthalate | 1 | ND | | 10.0 | 730. | 15-Aug-12 15:52 | JAM |
| 88-85-7 | Dinoseb | 1 | ND | | 10.0 | 7.00 | 15-Aug-12 15:52 | JAM |
| 106-47-8 | 3&4-Chloroaniline | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 15:52 | JAM |
| 111-44-4 | bis(2-Chloroethyl) ether | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 15:52 | JAM |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 1 | ND | | 10.0 | 5.70 | 15-Aug-12 15:52 | JAM |
| 91-58-7 | 2-Chloronaphthalene | 1 | ND | | 10.0 | 49.0 | 15-Aug-12 15:52 | JAM |
| 95-57-8 | 2-Chlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 | JAM |
| 132-64-9 | Dibenzofuran | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 | JAM |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | ND | | 10.0 | 600. | 15-Aug-12 15:52 | JAM |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 | JAM |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | ND | | 10.0 | 75.0 | 15-Aug-12 15:52 | JAM |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | ND | | 20.0 | 20.0 | 15-Aug-12 15:52 | JAM |
| 120-83-2 | 2,4-Dichlorophenol | 1 | ND | | 10.0 | 11.0 | 15-Aug-12 15:52 | JAM |
| 84-66-2 | Diethylphthalate | 1 | ND | | 10.0 | 2900 | 15-Aug-12 15:52 | JAM |
| 105-67-9 | 2,4-Dimethylphenol | 1 | ND | | 10.0 | 73.0 | 15-Aug-12 15:52 | JAM |
| 131-11-3 | Dimethylphthalate | 1 | ND | | 10.0 | 37000 | 15-Aug-12 15:52 | JAM |
| 99-65-0 | 1,3-Dinitrobenzene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 | JAM |
| 51-28-5 | 2,4-Dinitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:52 | JAM |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 | JAM |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 | JAM |
| 117-84-0 | Di-n-octylphthalate | 1 | ND | | 10.0 | 20.0 | 15-Aug-12 15:52 | JAM |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | ND | | 10.0 | 6.00 | 15-Aug-12 15:52 | JAM |
| 118-74-1 | Hexachlorobenzene | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 15:52 | JAM |
| 87-68-3 | Hexachloro-1,3-butadiene | 1 | ND | | 10.0 | 0.730 | 15-Aug-12 15:52 | JAM |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:52 | JAM |
| 67-72-1 | Hexachloroethane | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 | JAM |
| 78-59-1 | Isophorone | 1 | ND | | 10.0 | 70.0 | 15-Aug-12 15:52 | JAM |
| 88-74-4 | 2-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:52 | JAM |
| 99-09-2 | 3-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:52 | JAM |
| 100-01-6 | 4-Nitroaniline | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:52 | JAM |
| 98-95-3 | Nitrobenzene | 1 | ND | | 10.0 | 1.90 | 15-Aug-12 15:52 | JAM |
| 100-02-7 | 4-Nitrophenol | 1 | ND | | 10.0 | 50.0 | 15-Aug-12 15:52 | JAM |

Protocol 8/21/2012 10:36:19

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Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-131
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012249
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** EPA 8270
GCMS SVOAs Dual pH
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 JAM |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | ND | | 10.0 | 14.0 | 15-Aug-12 15:52 JAM |
| 87-86-5 | Pentachlorophenol | 1 | ND | | 10.0 | 1.00 | 15-Aug-12 15:52 JAM |
| 108-95-2 | Phenol | 1 | ND | | 10.0 | 180. | 15-Aug-12 15:52 JAM |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | ND | | 10.0 | 1.10 | 15-Aug-12 15:52 JAM |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | ND | | 10.0 | 110. | 15-Aug-12 15:52 JAM |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | ND | | 10.0 | 370. | 15-Aug-12 15:52 JAM |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | ND | | 10.0 | 10.0 | 15-Aug-12 15:52 JAM |

**42 compound(s) reported**

Protocol 8/21/2012 10:36:19

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-131
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012249
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190216
**Method:** EPA 8270
GCMS SVOAs SIM Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 1 | ND | | 0.000100 | 0.0370 | 13-Aug-12 21:13 JAM |
| 208-96-8 | Acenaphthylene | 1 | ND | | 0.000100 | 0.100 | 13-Aug-12 21:13 JAM |
| 120-12-7 | Anthracene | 1 | ND | | 0.000100 | 0.0430 | 13-Aug-12 21:13 JAM |
| 56-55-3 | Benzo(a)anthracene | 1 | ND | | 0.000100 | 0.00780 | 13-Aug-12 21:13 JAM |
| 205-99-2 | Benzo(b)fluoranthene | 1 | ND | | 0.000100 | 0.00480 | 13-Aug-12 21:13 JAM |
| 207-08-9 | Benzo(k)fluoranthene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 21:13 JAM |
| 50-32-8 | Benzo(a)pyrene | 1 | ND | | 0.000100 | 0.000200 | 13-Aug-12 21:13 JAM |
| 218-01-9 | Chrysene | 1 | ND | | 0.000100 | 0.00160 | 13-Aug-12 21:13 JAM |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | ND | | 0.000100 | 0.00250 | 13-Aug-12 21:13 JAM |
| 206-44-0 | Fluoranthene | 1 | ND | | 0.000100 | 0.150 | 13-Aug-12 21:13 JAM |
| 86-73-7 | Fluorene | 1 | ND | | 0.000100 | 0.0240 | 13-Aug-12 21:13 JAM |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | ND | | 0.000100 | 0.00370 | 13-Aug-12 21:13 JAM |
| 91-57-6 | 2-Methylnaphthalene | 1 | ND | | 0.000100 | 0.000620 | 13-Aug-12 21:13 JAM |
| 91-20-3 | Naphthalene | 1 | ND | | 0.000100 | 0.0100 | 13-Aug-12 21:13 JAM |
| 85-01-8 | Phenanthrene | 1 | ND | | 0.000100 | 0.180 | 13-Aug-12 21:13 JAM |
| 129-00-0 | Pyrene | 1 | ND | | 0.000100 | 0.0180 | 13-Aug-12 21:13 JAM |

**16 compound(s) reported**

Protocol 8/21/2012 10:36:19

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Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-131
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012249
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis | |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 1 | ND | | 0.0100 | 0.100 | 13-Aug-12 13:24 | RMP |
| 71-43-2 | Benzene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 75-27-4 | Bromodichloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:24 | RMP |
| 75-25-2 | Bromoform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:24 | RMP |
| 74-83-9 | Bromomethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:24 | RMP |
| 78-93-3 | 2-Butanone (MEK) | 1 | ND | | 0.0100 | 0.190 | 13-Aug-12 13:24 | RMP |
| 75-15-0 | Carbon disulfide | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:24 | RMP |
| 56-23-5 | Carbon tetrachloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 108-90-7 | Chlorobenzene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:24 | RMP |
| 75-00-3 | Chloroethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:24 | RMP |
| 67-66-3 | Chloroform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:24 | RMP |
| 74-87-3 | Chloromethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:24 | RMP |
| 124-48-1 | Dibromochloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:24 | RMP |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | ND | | 0.00500 | 0.000200 | 13-Aug-12 13:24 | RMP |
| 75-34-3 | 1,1-Dichloroethane | 1 | ND | | 0.00500 | 0.0810 | 13-Aug-12 13:24 | RMP |
| 107-06-2 | 1,2-Dichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 75-35-4 | 1,1-Dichloroethene | 1 | ND | | 0.00500 | 0.00700 | 13-Aug-12 13:24 | RMP |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 13:24 | RMP |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:24 | RMP |
| 78-87-5 | 1,2-Dichloropropane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 100-41-4 | Ethylbenzene | 1 | ND | | 0.00500 | 0.700 | 13-Aug-12 13:24 | RMP |
| 1634-04-4 | Methyl-tert-butyl ether | 1 | ND | | 0.00500 | 0.0200 | 13-Aug-12 13:24 | RMP |
| 75-09-2 | Methylene chloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1 | ND | | 0.0100 | 0.200 | 13-Aug-12 13:24 | RMP |
| 78-83-1 | Isobutanol | 1 | ND | | 0.250 | 1.10 | 13-Aug-12 13:24 | RMP |
| 100-42-5 | Styrene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:24 | RMP |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.000500 | 13-Aug-12 13:24 | RMP |
| 127-18-4 | Tetrachloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 | RMP |
| 108-88-3 | Toluene | 1 | ND | | 0.00500 | 1.00 | 13-Aug-12 13:24 | RMP |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 13:24 | RMP |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | ND | | 0.00500 | 0.200 | 13-Aug-12 13:24 | RMP |

Protocol 8/21/2012 10:36:19

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-131
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012249
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 RMP |
| 79-01-6 | Trichloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:24 RMP |
| 75-69-4 | Trichlorofluoromethane | 1 | ND | | 0.00500 | 0.130 | 13-Aug-12 13:24 RMP |
| 75-01-4 | Vinyl chloride | 1 | ND | | 0.00200 | 0.00200 | 13-Aug-12 13:24 RMP |
| | m&p-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 13:24 RMP |
| 95-47-6 | o-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 13:24 RMP |

**40 compound(s) reported**

Protocol 8/21/2012 10:36:20

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-TB
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012250
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 1 | ND | | 0.0100 | 0.100 | 13-Aug-12 13:44 MHM |
| 71-43-2 | Benzene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 75-27-4 | Bromodichloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:44 MHM |
| 75-25-2 | Bromoform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:44 MHM |
| 74-83-9 | Bromomethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:44 MHM |
| 78-93-3 | 2-Butanone (MEK) | 1 | ND | | 0.0100 | 0.190 | 13-Aug-12 13:44 MHM |
| 75-15-0 | Carbon disulfide | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:44 MHM |
| 56-23-5 | Carbon tetrachloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 108-90-7 | Chlorobenzene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:44 MHM |
| 75-00-3 | Chloroethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:44 MHM |
| 67-66-3 | Chloroform | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:44 MHM |
| 74-87-3 | Chloromethane | 1 | ND | | 0.00500 | 0.0100 | 13-Aug-12 13:44 MHM |
| 124-48-1 | Dibromochloromethane | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:44 MHM |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | ND | | 0.00500 | 0.000200 | 13-Aug-12 13:44 MHM |
| 75-34-3 | 1,1-Dichloroethane | 1 | ND | | 0.00500 | 0.0810 | 13-Aug-12 13:44 MHM |
| 107-06-2 | 1,2-Dichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 75-35-4 | 1,1-Dichloroethene | 1 | ND | | 0.00500 | 0.00700 | 13-Aug-12 13:44 MHM |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 13:44 MHM |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:44 MHM |
| 78-87-5 | 1,2-Dichloropropane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 100-41-4 | Ethylbenzene | 1 | ND | | 0.00500 | 0.700 | 13-Aug-12 13:44 MHM |
| 1634-04-4 | Methyl-tert-butyl ether | 1 | ND | | 0.00500 | 0.0200 | 13-Aug-12 13:44 MHM |
| 75-09-2 | Methylene chloride | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1 | ND | | 0.0100 | 0.200 | 13-Aug-12 13:44 MHM |
| 78-83-1 | Isobutanol | 1 | ND | | 0.250 | 1.10 | 13-Aug-12 13:44 MHM |
| 100-42-5 | Styrene | 1 | ND | | 0.00500 | 0.100 | 13-Aug-12 13:44 MHM |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | ND | | 0.00500 | 0.000500 | 13-Aug-12 13:44 MHM |
| 127-18-4 | Tetrachloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 108-88-3 | Toluene | 1 | ND | | 0.00500 | 1.00 | 13-Aug-12 13:44 MHM |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | ND | | 0.00500 | 0.0700 | 13-Aug-12 13:44 MHM |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | ND | | 0.00500 | 0.200 | 13-Aug-12 13:44 MHM |

Protocol 8/21/2012 10:36:20

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-TB
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012250
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** EPA 8260
GCMS VOAs Water
**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | Analyte | Dilution | Result | Qu | Reporting Limit | Reg Limit | Analysis |
|---|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 79-01-6 | Trichloroethene | 1 | ND | | 0.00500 | 0.00500 | 13-Aug-12 13:44 MHM |
| 75-69-4 | Trichlorofluoromethane | 1 | ND | | 0.00500 | 0.130 | 13-Aug-12 13:44 MHM |
| 75-01-4 | Vinyl chloride | 1 | ND | | 0.00200 | 0.00200 | 13-Aug-12 13:44 MHM |
| | m&p-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 13:44 MHM |
| 95-47-6 | o-Xylene | 1 | ND | | 0.00500 | 10.0 | 13-Aug-12 13:44 MHM |

**40 compound(s) reported**

Protocol 8/21/2012 10:36:20

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-90
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012242
**Matrix:** Water
**%Moisture:** n/a
**Description:** None

**Collected:** 10-Aug-12
**Received:** 10-Aug-12

| Analyte | Method | Batch | DF | Result | Qu | Units | Reporting Limit | Prep. | Analysis | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | SM 4500-Cl E | 190235 | 100 | 2480 | D1 | mg/L | 100. | 13-Aug-12 | 13-Aug-12 11:41 TAE | |
| Sulfate | ASTM D516-9 | 190466 | 1 | ND | | mg/L | 1.00 | 15-Aug-12 | 15-Aug-12 11:46 JMA | |
| Total Dissolved Solids | SM 2540C | 190240 | 1 | 5420 | | mg/L | 10.0 | 13-Aug-12 | 13-Aug-12 11:03 SMS2 | |

**3 parameter(s) reported**

Inorganics 8/21/2012 10:36:21

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-98
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012243
**Matrix:** Water
**%Moisture:** n/a
**Description:** None

**Collected:** 10-Aug-12
**Received:** 10-Aug-12

| Analyte | Method | Batch | DF | Result | Qu | Units | Reporting Limit | Prep. | Analysis | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | SM 4500-Cl E | 190235 | 100 | 3350 | D1 | mg/L | 100. | 13-Aug-12 | 13-Aug-12 13:01 TAE | |
| Sulfate | ASTM D516-9 | 190466 | 1 | ND | | mg/L | 1.00 | 15-Aug-12 | 15-Aug-12 11:46 JMA | |
| Total Dissolved Solids | SM 2540C | 190240 | 1 | 7180 | | mg/L | 10.0 | 13-Aug-12 | 13-Aug-12 11:03 SMS2 | |

**3 parameter(s) reported**

Inorganics 8/21/2012 10:36:21

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-88
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012244
**Matrix:** Water
**%Moisture:** n/a
**Description:** None

**Collected:** 10-Aug-12
**Received:** 10-Aug-12

| Analyte | Method | Batch | DF | Result | Qu | Units | Reporting Limit | Prep. | Analysis | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | SM 4500-Cl E | 190235 | 100 | 3950 | D1 | mg/L | 100. | 13-Aug-12 | 13-Aug-12 13:01 TAE | |
| Sulfate | ASTM D516-9 | 190466 | 1 | ND | | mg/L | 1.00 | 15-Aug-12 | 15-Aug-12 11:46 JMA | |
| Total Dissolved Solids | SM 2540C | 190240 | 1 | 8660 | | mg/L | 10.0 | 13-Aug-12 | 13-Aug-12 11:03 SMS2 | |

**3 parameter(s) reported**

Inorganics 8/21/2012 10:36:21

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-89
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012248
**Matrix:** Water
**%Moisture:** n/a
**Description:** None

**Collected:** 10-Aug-12
**Received:** 10-Aug-12

| Analyte | Method | Batch | DF | Result | Qu | Units | Reporting Limit | Prep. | Analysis | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | SM 4500-Cl E | 190235 | 10 | 789. | D1 | mg/L | 10.0 | 13-Aug-12 | 13-Aug-12 11:08 TAE | |
| Sulfate | ASTM D516-9 | 190466 | 1 | ND | | mg/L | 1.00 | 15-Aug-12 | 15-Aug-12 11:46 JMA | |
| Total Dissolved Solids | SM 2540C | 190240 | 1 | 1930 | | mg/L | 10.0 | 13-Aug-12 | 13-Aug-12 11:04 SMS2 | |

**3 parameter(s) reported**

Inorganics 8/21/2012 10:36:21

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-131
**Project:** 20142693
**Project ID:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012249
**Matrix:** Water
**%Moisture:** n/a
**Description:** None

**Collected:** 10-Aug-12
**Received:** 10-Aug-12

| Analyte | Method | Batch | DF | Result | Qu | Units | Reporting Limit | Prep. | Analysis | Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | SM 4500-Cl E | 190235 | 100 | 3180 | D1 | mg/L | 100. | 13-Aug-12 | 13-Aug-12 13:01 TAE | |
| Sulfate | ASTM D516-9 | 190466 | 1 | ND | | mg/L | 1.00 | 15-Aug-12 | 15-Aug-12 11:46 JMA | |
| Total Dissolved Solids | SM 2540C | 190240 | 1 | 6500 | | mg/L | 10.0 | 13-Aug-12 | 13-Aug-12 11:04 SMS2 | |

**3 parameter(s) reported**

Inorganics 8/21/2012 10:36:21

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 190216 **Project:** 20142693

**Method:** Water GC/MS Semivolatile Organics

| Lab ID | Sample ID | Qu | Sur 1 %Rec | Sur 2 %Rec | Sur 3 %Rec | Sur 4 %Rec | Sur 5 %Rec | Sur 6 %Rec | Sur 7 %Rec | Sur 8 %Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| 201012309 | 190216 BLANK 1 | | 75 | 76 | | | | | | |
| 201012310 | 190216 LCS 1 | | 70 | 66 | | | | | | |
| 201012249 | 314-081012-007-131 | | 60 | 56 | | | | | | |
| 201012244 | 314-081012-007-88 | | 54 | 90 | | | | | | |
| 201012248 | 314-081012-007-89 | | 70 | 67 | | | | | | |
| 201012242 | 314-081012-007-90 | | 65 | 66 | | | | | | |
| 201012243 | 314-081012-007-98 | | 66 | 72 | | | | | | |
| | QC limits: | | 12-110 | 25-113 | | | | | | |

Sur 1: 2-Fluorobiphenyl (S)
Sur 2: Terphenyl-d14 (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.**

# Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 190246 **Project:** 20142693

**Method:** Water GC/MS Semivolatile Organics

| Lab ID | Sample ID | Qu | Sur 1 %Rec | Sur 2 %Rec | Sur 3 %Rec | Sur 4 %Rec | Sur 5 %Rec | Sur 6 %Rec | Sur 7 %Rec | Sur 8 %Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| 201012411 | 190246 BLANK 1 | | 84 | 78 | 64 | 96 | 78 | 87 | | |
| 201012412 | 190246 LCS 1 | | 68 | 80 | 64 | 83 | 64 | 80 | | |
| 201012249 | 314-081012-007-131 | | 87 | 73 | 65 | 89 | 82 | 79 | | |
| 201012244 | 314-081012-007-88 | | 88 | 72 | 65 | 87 | 80 | 82 | | |
| 201012248 | 314-081012-007-89 | | 86 | 77 | 60 | 96 | 83 | 87 | | |
| 201012242 | 314-081012-007-90 | | 78 | 69 | 51 | 83 | 72 | 69 | | |
| 201012243 | 314-081012-007-98 | | 71 | 67 | 56 | 85 | 76 | 75 | | |
| | QC limits: | | 25-145 | 34-117 | 10-118 | 33-120 | 15-134 | 24-133 | | |

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (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.**

# Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 190210 **Project:** 20142693

**Method:** Water GC/MS Volatile Organics

| Lab ID | Sample ID | Qu | Sur 1 %Rec | Sur 2 %Rec | Sur 3 %Rec | Sur 4 %Rec | Sur 5 %Rec | Sur 6 %Rec | Sur 7 %Rec | Sur 8 %Rec |
|---|---|---|---|---|---|---|---|---|---|---|
| 201012293 | 190210 BLANK 1 | | 94 | 112 | 106 | | | | | |
| 201012862 | 190210 BLANK 2 | | 95 | 112 | 105 | | | | | |
| 201012294 | 190210 LCS 1 | | 103 | 98 | 108 | | | | | |
| 201012863 | 190210 LCS 2 | | 97 | 98 | 103 | | | | | |
| 201012249 | 314-081012-007-131 | | 96 | 105 | 103 | | | | | |
| 201012244 | 314-081012-007-88 | | 97 | 108 | 104 | | | | | |
| 201012248 | 314-081012-007-89 | | 93 | 104 | 106 | | | | | |
| 201012242 | 314-081012-007-90 | | 99 | 110 | 107 | | | | | |
| 201012243 | 314-081012-007-98 | | 97 | 105 | 104 | | | | | |
| 201012250 | 314-081012-007-TB | | 91 | 101 | 103 | | | | | |
| 201012295 | 327-1200810-14 MS 1 | | 97 | 101 | 103 | | | | | |
| 201012296 | 327-1200810-14 MSD 1 | | 96 | 99 | 106 | | | | | |
| | QC limits: | | 68-124 | 72-126 | 79-119 | | | | | |

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

# Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 190216 **Project:** 20142693 **LCS:** 20101231 13-Aug-12 14:44

**Method:** Water GC/MS Semivolatile Organics **MS:**

**Units:** ug/L **MSD:**

**Original for MS:**

| Parameter Name | LCS Spike | LCS Found | LCS %Rec | MS Spike | Sample Found | MS Found | MSD Found | MS %Rec | MSD %Rec | RPD | QC Limits LCS | QC Limits MS/MSD | Max RPD | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 2.00 | 1.39 | 70 | | | | | | | | 39-110 | | | Q5 |
| Acenaphthylene | 2.00 | 1.31 | 66 | | | | | | | | 30-110 | | | Q5 |
| Anthracene | 2.00 | 1.34 | 67 | | | | | | | | 34-110 | | | Q5 |
| Benzo(a)anthracene | 2.00 | 1.26 | 63 | | | | | | | | 32-110 | | | Q5 |
| Benzo(b)fluoranthene | 2.00 | 1.30 | 65 | | | | | | | | 30-110 | | | Q5 |
| Benzo(k)fluoranthene | 2.00 | 1.49 | 75 | | | | | | | | 28-110 | | | Q5 |
| Benzo(a)pyrene | 2.00 | 1.19 | 60 | | | | | | | | 29-110 | | | Q5 |
| Chrysene | 2.00 | 1.50 | 75 | | | | | | | | 34-110 | | | Q5 |
| Dibenz(a,h)anthracene | 2.00 | 1.49 | 75 | | | | | | | | 21-110 | | | Q5 |
| Fluoranthene | 2.00 | 1.45 | 73 | | | | | | | | 39-114 | | | Q5 |
| Fluorene | 2.00 | 1.43 | 72 | | | | | | | | 37-110 | | | Q5 |
| Indeno(1,2,3-cd)pyrene | 2.00 | 1.49 | 75 | | | | | | | | 27-110 | | | Q5 |
| 2-Methylnaphthalene | 2.00 | 1.19 | 60 | | | | | | | | 35-110 | | | Q5 |
| Naphthalene | 2.00 | 1.46 | 73 | | | | | | | | 40-110 | | | Q5 |
| Phenanthrene | 2.00 | 1.44 | 72 | | | | | | | | 36-110 | | | Q5 |
| Pyrene | 2.00 | 1.28 | 64 | | | | | | | | 32-110 | | | Q5 |

**16 compound(s) reported**

*** denotes recovery outside of QC limits.**
**MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.**

# Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 190246 **Project:** 20142693 **LCS:** 20101241 15-Aug-12 10:50

**Method:** Water GC/MS Semivolatile Organics **MS:**

**Units:** ug/L **MSD:**

**Original for MS:**

| Parameter Name | LCS Spike | LCS Found | LCS %Rec | MS Spike | Sample Found | MS Found | MSD Found | MS %Rec | MSD %Rec | RPD | QC Limits LCS | QC Limits MS/MSD | Max RPD | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aniline | 50.0 | 45.0 | 90 | | | | | | | | 10-142 | | | Q5 |
| Butylbenzylphthalate | 50.0 | 27.5 | 55 | | | | | | | | 48-117 | | | Q5 |
| 3&4-Chloroaniline | 50.0 | 41.0 | 82 | | | | | | | | 21-122 | | | Q5 |
| bis(2-Chloroethyl) ether | 50.0 | 32.7 | 65 | | | | | | | | 48-110 | | | Q5 |
| 2-Chloronaphthalene | 50.0 | 32.7 | 65 | | | | | | | | 53-110 | | | Q5 |
| 2-Chlorophenol | 50.0 | 34.6 | 69 | | | | | | | | 44-110 | | | Q5 |
| Dibenzofuran | 50.0 | 32.1 | 64 | | | | | | | | 53-110 | | | Q5 |
| 1,2-Dichlorobenzene | 50.0 | 33.5 | 67 | | | | | | | | 46-110 | | | Q5 |
| 1,3-Dichlorobenzene | 50.0 | 34.3 | 69 | | | | | | | | 43-110 | | | Q5 |
| 1,4-Dichlorobenzene | 50.0 | 34.1 | 68 | | | | | | | | 44-110 | | | Q5 |
| 3,3'-Dichlorobenzidine | 50.0 | 47.0 | 94 | | | | | | | | 21-132 | | | Q5 |
| 2,4-Dichlorophenol | 50.0 | 37.7 | 75 | | | | | | | | 40-110 | | | Q5 |
| Diethylphthalate | 50.0 | 29.2 | 58 | | | | | | | | 50-116 | | | Q5 |
| 2,4-Dimethylphenol | 50.0 | 37.4 | 75 | | | | | | | | 23-110 | | | Q5 |
| Dimethylphthalate | 50.0 | 29.4 | 59 | | | | | | | | 52-112 | | | Q5 |
| 2,4-Dinitrophenol | 50.0 | 27.7 | 56 | | | | | | | | 10-130 | | | Q5 |
| 2,4-Dinitrotoluene | 50.0 | 31.3 | 63 | | | | | | | | 49-113 | | | Q5 |
| 2,6-Dinitrotoluene | 50.0 | 31.8 | 64 | | | | | | | | 52-112 | | | Q5 |
| Di-n-octylphthalate | 50.0 | 26.9 | 54 | | | | | | | | 41-126 | | | Q5 |
| bis(2-Ethylhexyl)phthalate | 50.0 | 27.6 | 55 | | | | | | | | 46-123 | | | Q5 |
| Hexachloro-1,3-butadiene | 50.0 | 37.5 | 75 | | | | | | | | 33-110 | | | Q5 |
| Hexachlorobenzene | 50.0 | 30.6 | 61 | | | | | | | | 51-110 | | | Q5 |
| Hexachlorocyclopentadiene | 50.0 | 12.3 | 25 | | | | | | | | 10-110 | | | Q5 |
| Hexachloroethane | 50.0 | 35.1 | 70 | | | | | | | | 40-110 | | | Q5 |
| Isophorone | 50.0 | 35.1 | 70 | | | | | | | | 42-110 | | | Q5 |
| 2-Nitroaniline | 50.0 | 37.0 | 74 | | | | | | | | 51-114 | | | Q5 |
| 3-Nitroaniline | 50.0 | 36.7 | 73 | | | | | | | | 40-118 | | | Q5 |
| 4-Nitroaniline | 50.0 | 39.6 | 79 | | | | | | | | 40-125 | | | Q5 |
| Nitrobenzene | 50.0 | 35.7 | 71 | | | | | | | | 42-110 | | | Q5 |
| 4-Nitrophenol | 50.0 | 28.7 | 57 | | | | | | | | 28-126 | | | Q5 |
| N-Nitroso-di-n-propylamine | 50.0 | 31.5 | 63 | | | | | | | | 47-116 | | | Q5 |
| N-Nitrosodiphenylamine | 50.0 | 38.2 | 76 | | | | | | | | 39-125 | | | Q5 |
| 2,2'-Oxybis(1-chloropropane) | 50.0 | 31.4 | 63 | | | | | | | | 39-118 | | | Q5 |
| Pentachlorophenol | 50.0 | 26.2 | 52 | | | | | | | | 31-122 | | | Q5 |
| Phenol | 50.0 | 34.6 | 69 | | | | | | | | 42-110 | | | Q5 |
| 2,4,5-Trichlorophenol | 50.0 | 33.7 | 67 | | | | | | | | 46-110 | | | Q5 |
| 2,4,6-Trichlorophenol | 50.0 | 34.2 | 68 | | | | | | | | 47-110 | | | Q5 |

**37 compound(s) reported**

QC Protocol 8/21/2012 10:36:24

*** denotes recovery outside of QC limits.**
**MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.**

# Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Batch:** 190210 **Project:** 20142693 **LCS:** 20101229 13-Aug-12 9:43

**Method:** Water GC/MS Volatile Organics **MS:** 20101229 14-Aug-12 11:40

**Units:** ug/L **MSD:** 20101229 14-Aug-12 12:00

**Original for MS:** Batch Sample 201012253

| Parameter Name | LCS Spike | LCS Found | LCS %Rec | MS Spike | Sample Found | MS Found | MSD Found | MS %Rec | MSD %Rec | RPD | QC Limits LCS | QC Limits MS/MSD | Max RPD | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 50.0 | 56.5 | 113 | 50.0 | | 59.1 | 52.3 | 118 | 105 | 12 | 10-195 | 10-204 | 20 | |
| Benzene | 50.0 | 50.6 | 101 | 50.0 | 0.540 | 50.5 | 49.4 | 100 | 98 | 2 | 66-132 | 58-140 | 20 | |
| Bromodichloromethane | 50.0 | 54.5 | 109 | 50.0 | | 55.3 | 54.0 | 111 | 108 | 2 | 67-132 | 63-137 | 20 | |
| Bromoform | 50.0 | 62.9 | 126 | 50.0 | | 56.5 | 56.4 | 113 | 113 | 0 | 53-152 | 49-156 | 20 | |
| Bromomethane | 50.0 | 43.2 | 86 | 50.0 | | 43.1 | 41.3 | 86 | 83 | 4 | 47-150 | 43-152 | 20 | |
| 2-Butanone (MEK) | 50.0 | 50.2 | 100 | 50.0 | | 51.0 | 43.9 | 102 | 88 | 15 | 16-167 | 11-180 | 20 | |
| Carbon disulfide | 50.0 | 41.7 | 83 | 50.0 | | 43.6 | 44.2 | 87 | 88 | 1 | 18-173 | 10-184 | 20 | |
| Carbon tetrachloride | 50.0 | 53.3 | 107 | 50.0 | | 53.5 | 53.6 | 107 | 107 | 0 | 55-143 | 50-148 | 20 | |
| Chlorobenzene | 50.0 | 55.0 | 110 | 50.0 | | 52.9 | 53.5 | 106 | 107 | 1 | 71-131 | 69-136 | 20 | |
| Chloroethane | 50.0 | 38.4 | 77 | 50.0 | | 39.7 | 38.3 | 80 | 77 | 4 | 31-192 | 20-193 | 20 | |
| Chloroform | 50.0 | 49.7 | 99 | 50.0 | | 51.8 | 51.0 | 104 | 102 | 2 | 69-134 | 65-140 | 20 | |
| Chloromethane | 50.0 | 32.5 | 65 | 50.0 | | 30.3 | 30.5 | 61 | 61 | 1 | 29-157 | 27-160 | 20 | |
| 1,2-Dibromo-3-chloropropane | 50.0 | 54.7 | 109 | 50.0 | | 52.2 | 47.6 | 104 | 95 | 9 | 37-151 | 34-159 | 20 | |
| Dibromochloromethane | 50.0 | 56.4 | 113 | 50.0 | | 52.2 | 50.7 | 104 | 101 | 3 | 61-138 | 59-143 | 20 | |
| 1,1-Dichloroethane | 50.0 | 46.5 | 93 | 50.0 | | 49.0 | 48.1 | 98 | 96 | 2 | 62-137 | 59-143 | 20 | |
| 1,2-Dichloroethane | 50.0 | 60.9 | 122 | 50.0 | | 59.3 | 57.4 | 119 | 115 | 3 | 59-145 | 58-151 | 20 | |
| 1,1-Dichloroethene | 50.0 | 47.3 | 95 | 50.0 | | 48.9 | 48.5 | 98 | 97 | 1 | 46-156 | 32-169 | 20 | |
| cis-1,2-Dichloroethene | 50.0 | 48.6 | 97 | 50.0 | | 49.0 | 50.2 | 98 | 101 | 3 | 64-131 | 61-138 | 20 | |
| trans-1,2-Dichloroethene | 50.0 | 45.6 | 91 | 50.0 | | 46.6 | 47.3 | 93 | 95 | 1 | 55-138 | 51-145 | 20 | |
| 1,2-Dichloropropane | 50.0 | 55.1 | 110 | 50.0 | | 54.0 | 51.8 | 108 | 104 | 4 | 65-130 | 63-134 | 20 | |
| cis-1,3-Dichloropropene | 50.0 | 54.5 | 109 | 50.0 | | 52.6 | 51.7 | 105 | 103 | 2 | 63-137 | 59-139 | 20 | |
| trans-1,3-Dichloropropene | 50.0 | 66.1 | 132 | 50.0 | | 64.5 | 63.6 | 129 | 127 | 2 | 61-143 | 57-149 | 20 | |
| Ethylbenzene | 50.0 | 53.3 | 107 | 50.0 | | 51.0 | 52.6 | 102 | 105 | 3 | 71-130 | 65-136 | 20 | |
| Isobutanol | 1050 | 1040 | 99 | 1050 | | 1110 | 922. | 105 | 88 | 18 | 10-180 | 10-189 | 20 | |
| Methylene chloride | 50.0 | 43.4 | 87 | 50.0 | | 43.7 | 43.0 | 87 | 86 | 2 | 39-172 | 33-167 | 20 | |
| 4-Methyl-2-pentanone (MIBK | 50.0 | 60.8 | 122 | 50.0 | | 53.4 | 50.4 | 107 | 101 | 6 | 43-159 | 39-167 | 20 | |
| Methyl-tert-butyl ether | 50.0 | 47.5 | 95 | 50.0 | | 48.1 | 45.4 | 96 | 91 | 6 | 49-157 | 45-168 | 20 | |
| Styrene | 50.0 | 56.6 | 113 | 50.0 | | 52.9 | 54.8 | 106 | 110 | 3 | 72-134 | 62-141 | 20 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 50.7 | 101 | 50.0 | | 47.3 | 48.7 | 95 | 98 | 3 | 70-136 | 67-139 | 20 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 54.8 | 110 | 50.0 | | 51.9 | 49.0 | 104 | 98 | 6 | 40-157 | 35-164 | 20 | |
| Tetrachloroethene | 50.0 | 50.6 | 101 | 50.0 | | 48.0 | 49.8 | 96 | 100 | 4 | 55-156 | 44-162 | 20 | |
| Toluene | 50.0 | 54.9 | 110 | 50.0 | | 53.3 | 54.1 | 107 | 108 | 2 | 68-131 | 60-137 | 20 | |
| 1,2,4-Trichlorobenzene | 50.0 | 44.3 | 89 | 50.0 | | 44.6 | 43.6 | 89 | 87 | 2 | 51-143 | 49-147 | 20 | |
| 1,1,1-Trichloroethane | 50.0 | 48.5 | 97 | 50.0 | | 49.4 | 49.0 | 99 | 98 | 1 | 63-133 | 58-139 | 20 | |
| 1,1,2-Trichloroethane | 50.0 | 66.4 | 133 | 50.0 | | 64.9 | 61.0 | 130 | 122 | 6 | 64-135 | 61-140 | 20 | |
| Trichloroethene | 50.0 | 49.8 | 100 | 50.0 | | 48.7 | 48.9 | 97 | 98 | 0 | 68-134 | 58-145 | 20 | |
| Trichlorofluoromethane | 50.0 | 43.8 | 88 | 50.0 | | 44.6 | 44.9 | 89 | 90 | 1 | 39-185 | 15-192 | 20 | |
| Vinyl chloride | 50.0 | 42.3 | 85 | 50.0 | | 41.8 | 42.4 | 84 | 85 | 1 | 40-152 | 32-157 | 20 | |
| m&p-Xylene | 100. | 111. | 111 | 100. | | 103. | 109. | 103 | 109 | 5 | 68-134 | 62-139 | 20 | |
| o-Xylene | 50.0 | 51.6 | 103 | 50.0 | | 50.0 | 50.9 | 100 | 102 | 2 | 67-131 | 61-137 | 20 | |

**40 compound(s) reported**

QC Protocol 8/21/2012 10:36:24

*** denotes recovery outside of QC limits.**
**MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.**

# Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Blank ID:** 190216 BLANK 1 **Project:** 20142693

**Lab ID:** 201012309

**Prep Level:** Water **Batch:** 190216

**Method:** Water GC/MS Semivolatile Organics

**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS Numb | Analyte | Dilution | Result | Qu | Reporting Limit | Analysis |
|---|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 208-96-8 | Acenaphthylene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 120-12-7 | Anthracene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 56-55-3 | Benzo(a)anthracene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 205-99-2 | Benzo(b)fluoranthene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 207-08-9 | Benzo(k)fluoranthene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 50-32-8 | Benzo(a)pyrene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 218-01-9 | Chrysene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 206-44-0 | Fluoranthene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 86-73-7 | Fluorene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 91-57-6 | 2-Methylnaphthalene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 91-20-3 | Naphthalene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 85-01-8 | Phenanthrene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |
| 129-00-0 | Pyrene | 1 | ND | | 0.100 | 13-Aug-12 14:22 JAM |

**16 compound(s) reported**

Protocol Blank 8/21/2012 10:36:2

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Blank ID:** 190246 BLANK 1 **Project:** 20142693

**Lab ID:** 201012411

**Prep Level:** Water **Batch:** 190246

**Method:** Water GC/MS Semivolatile Organics

**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS Numb | Analyte | Dilution | Result | Qu | Reporting Limit | Analysis |
|---|---|---|---|---|---|---|
| 62-53-3 | Aniline | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 92-52-4 | Biphenyl (Diphenyl) | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 85-68-7 | Butylbenzylphthalate | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 106-47-8 | 3&4-Chloroaniline | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 111-44-4 | bis(2-Chloroethyl) ether | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 91-58-7 | 2-Chloronaphthalene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 95-57-8 | 2-Chlorophenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 132-64-9 | Dibenzofuran | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | ND | | 20.0 | 15-Aug-12 10:26 JAM |
| 120-83-2 | 2,4-Dichlorophenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 84-66-2 | Diethylphthalate | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 105-67-9 | 2,4-Dimethylphenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 131-11-3 | Dimethylphthalate | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 99-65-0 | 1,3-Dinitrobenzene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 51-28-5 | 2,4-Dinitrophenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 117-84-0 | Di-n-octylphthalate | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 88-85-7 | Dinoseb | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 87-68-3 | Hexachloro-1,3-butadiene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 118-74-1 | Hexachlorobenzene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 67-72-1 | Hexachloroethane | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 78-59-1 | Isophorone | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 88-74-4 | 2-Nitroaniline | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 99-09-2 | 3-Nitroaniline | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 100-01-6 | 4-Nitroaniline | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 98-95-3 | Nitrobenzene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 100-02-7 | 4-Nitrophenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |

Protocol Blank 8/21/2012 10:36:2

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Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Blank ID:** 190246 BLANK 1 **Project:** 20142693

**Lab ID:** 201012411

**Prep Level:** Water **Batch:** 190246

**Method:** Water GC/MS Semivolatile Organics

**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS Numb | Analyte | Dilution | Result | Qu | Reporting Limit | Analysis |
|---|---|---|---|---|---|---|
| 86-30-6 | N-Nitrosodiphenylamine | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 108-60-1 | 2,2'-Oxybis(1-chloropropane) | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 87-86-5 | Pentachlorophenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 108-95-2 | Phenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | ND | | 10.0 | 15-Aug-12 10:26 JAM |

**42 compound(s) reported**

Protocol Blank 8/21/2012 10:36:2

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Blank ID:** 190210 BLANK 1 **Project:** 20142693

**Lab ID:** 201012293

**Prep Level:** Water **Batch:** 190210

**Method:** Water GC/MS Volatile Organics

**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS Numb | Analyte | Dilution | Result | Qu | Reporting Limit | Analysis |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 1 | ND | | 10.0 | 13-Aug-12 09:24 RMP |
| 71-43-2 | Benzene | 1 | 0.930 | J | 5.00 | 13-Aug-12 09:24 RMP |
| 75-27-4 | Bromodichloromethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 75-25-2 | Bromoform | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 74-83-9 | Bromomethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 78-93-3 | 2-Butanone (MEK) | 1 | ND | | 10.0 | 13-Aug-12 09:24 RMP |
| 75-15-0 | Carbon disulfide | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 56-23-5 | Carbon tetrachloride | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 108-90-7 | Chlorobenzene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 75-00-3 | Chloroethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 67-66-3 | Chloroform | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 74-87-3 | Chloromethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 124-48-1 | Dibromochloromethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 75-34-3 | 1,1-Dichloroethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 107-06-2 | 1,2-Dichloroethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 75-35-4 | 1,1-Dichloroethene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 78-87-5 | 1,2-Dichloropropane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 100-41-4 | Ethylbenzene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 78-83-1 | Isobutanol | 1 | ND | | 250. | 13-Aug-12 09:24 RMP |
| 75-09-2 | Methylene chloride | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1 | ND | | 10.0 | 13-Aug-12 09:24 RMP |
| 1634-04-4 | Methyl-tert-butyl ether | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 100-42-5 | Styrene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 127-18-4 | Tetrachloroethene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 108-88-3 | Toluene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |

Protocol Blank 8/21/2012 10:36:2

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Blank ID:** 190210 BLANK 1 **Project:** 20142693

**Lab ID:** 201012293

**Prep Level:** Water **Batch:** 190210

**Method:** Water GC/MS Volatile Organics

**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS Numb | Analyte | Dilution | Result | Qu | Reporting Limit | Analysis |
|---|---|---|---|---|---|---|
| 79-00-5 | 1,1,2-Trichloroethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 79-01-6 | Trichloroethene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 75-69-4 | Trichlorofluoromethane | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 75-01-4 | Vinyl chloride | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| | m&p-Xylene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |
| 95-47-6 | o-Xylene | 1 | ND | | 5.00 | 13-Aug-12 09:24 RMP |

**40 compound(s) reported**

Protocol Blank 8/21/2012 10:36:2

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

# Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20142693

| Parameter | Batch | Blank | Units | LCS Spike | LCS Found | LCS %Rec | MS Spike | Sample Found | MS Found | MSD Found | MS %Rec | MSD %Rec | RPD | QC Limits LCS | QC Limits MS/MSD | Max RPD | Qu |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 190235 | < 1.00 | mg/L | 69.0 | 63.1 | 92 | 100. | 1720 | 1650 | | 0 * | | 2 | 90-110 | 75-125 | 20 | D1,Q3 |
| Total Dissolved Solid | 190240 | < 10.0 | mg/L | 100. | 103. | 103 | | | | | | | 6 | 80-120 | | 20 | |
| Sulfate | 190466 | < 1.00 | mg/L | 30.9 | 29.9 | 97 | 10.0 | | 11.1 | | 111 | | 0 | 90-110 | 75-125 | 20 | |

*** denotes recovery outside of QC limits.**

**MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.**

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-90
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012242
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** GCMS SVOAs Dual pH

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| | 3.46 | unknown hydrocarbon | 1 | 0.00418 | J A1 | 15-Aug-12 14:11 JAM |

**1 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-90
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012242
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** GCMS VOAs Water

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| 000541-05-9 | 7.49 | Cyclotrisiloxane, hexamethyl- | 1 | 0.772 | J A1 | 13-Aug-12 12:04 RMP |

**1 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-98
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012243
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** GCMS SVOAs Dual pH

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis | |
|---|---|---|---|---|---|---|---|
| | 3.32 | unknown | 1 | 0.00229 | J A1 | 15-Aug-12 14:37 | JAM |
| | 3.46 | unknown hydrocarbon | 1 | 0.00378 | J A1 | 15-Aug-12 14:37 | JAM |

**2 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-98
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012243
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** GCMS VOAs Water

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| 000541-05-9 | 7.5 | Cyclotrisiloxane, hexamethyl- | 1 | 0.749 | J A1 | 13-Aug-12 12:24 RMP |

**1 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-88
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012244
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** GCMS SVOAs Dual pH

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| | 3.32 | unknown | 1 | 0.00236 | J A1 | 15-Aug-12 15:02 JAM |
| | 3.47 | unknown hydrocarbon | 1 | 0.00414 | J A1 | 15-Aug-12 15:02 JAM |
| | 5.46 | unknown | 1 | 0.00272 | J A1 | 15-Aug-12 15:02 JAM |
| | 11.34 | unknown | 1 | 0.00216 | J A1 | 15-Aug-12 15:02 JAM |

**4 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-88
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012244
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** GCMS VOAs Water

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| 000000-00-0 | 1.12 | No Hits From R:\NBS75K.L | 1 | 1.13 | J A1 | 13-Aug-12 12:44 RMP |
| 000075-09-2 | 2.468 | Methylene Chloride | 1 | 0.860 | J A1 | 13-Aug-12 12:44 RMP |
| 000541-05-9 | 7.499 | Cyclotrisiloxane, hexamethyl- | 1 | 1.66 | J A1 | 13-Aug-12 12:44 RMP |
| 003789-85-3 | 10.838 | Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyls | 1 | 0.911 | J A1 | 13-Aug-12 12:44 RMP |

**4 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-89
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012248
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** GCMS SVOAs Dual pH

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| | 3.32 | unknown | 1 | 0.00271 | J A1 | 15-Aug-12 15:27 JAM |
| | 3.46 | unknown hydrocarbon | 1 | 0.00459 | J A1 | 15-Aug-12 15:27 JAM |
| | 5.46 | unknown | 1 | 0.00471 | J A1 | 15-Aug-12 15:27 JAM |
| 003622-84-2 | 11.34 | Benzenesulfonamide, N-butyl- | 1 | 0.00247 | J A1 | 15-Aug-12 15:27 JAM |

**4 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-89
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012248
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** GCMS VOAs Water

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| | 1.07 | unknown hydrocarbon (43-57-71) | 1 | 6.19 | J A1 | 13-Aug-12 13:04 RMP |
| | 1.15 | unknown hydrocarbon (43-57-71) | 1 | 11.0 | J A1 | 13-Aug-12 13:04 RMP |
| | 1.4 | unknown hydrocarbon (43-57-71) | 1 | 1.29 | J A1 | 13-Aug-12 13:04 RMP |
| | 1.43 | unknown hydrocarbon (43-57-71) | 1 | 2.54 | J A1 | 13-Aug-12 13:04 RMP |
| | 2.24 | unknown hydrocarbon (43-57-71) | 1 | 1.45 | J A1 | 13-Aug-12 13:04 RMP |
| | 2.46 | unknown hydrocarbon (43-57-71) | 1 | 0.829 | J A1 | 13-Aug-12 13:04 RMP |

**6 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-131
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012249
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190246
**Method:** GCMS SVOAs Dual pH

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** ug/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis | |
|---|---|---|---|---|---|---|---|
| | 3.32 | unknown hydrocarbon | 1 | 0.00232 | J A1 | 15-Aug-12 15:52 | JAM |
| | 3.46 | unknown hydrocarbon | 1 | 0.00399 | J A1 | 15-Aug-12 15:52 | JAM |
| | 5.46 | unknown | 1 | 0.00497 | J A1 | 15-Aug-12 15:52 | JAM |
| | 11.34 | unknown | 1 | 0.00225 | J A1 | 15-Aug-12 15:52 | JAM |

**4 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-131
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012249
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** GCMS VOAs Water

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| 000075-09-2 | 2.47 | Methylene Chloride | 1 | 1.06 | J A1 | 13-Aug-12 13:24 RMP |
| 055334-51-5 | 9.3 | 1,4-Benzenedicarboxylic acid, [4-(methox | 1 | 0.984 | J A1 | 13-Aug-12 13:24 RMP |

**2 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Sample Results

## Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Client:** DEQ LABORATORY

**Client ID:** 314-081012-007-TB
**Project No.:** 20142693
**Project:** BAYOU CORNE
**Site:** None
**Lab ID:** 201012250
**Matrix:** Water
**% Moisture:** n/a
**Description:** None
**Prep Level:** Water
**Batch:** 190210
**Method:** GCMS VOAs Water

**Collected:** 10-Aug-12
**Received:** 10-Aug-12
**Prepared:** 13-Aug-12

**Units:** mg/L

| CAS No. | RT | Tentatively Identified Compound | Dilution | Result | Qu | Analysis |
|---|---|---|---|---|---|---|
| 000075-09-2 | 2.45 | Methylene Chloride | 1 | 0.959 | J A1 | 13-Aug-12 13:44 MHM |
| 055429-29-3 | 7.5 | Arsenous acid, tris(trimethylsilyl) este | 1 | 3.33 | J A1 | 13-Aug-12 13:44 MHM |
| 003789-85-3 | 10.85 | Benzoic acid, 2-[(trimethylsilyl)oxy]-, | 1 | 1.48 | J A1 | 13-Aug-12 13:44 MHM |

**3 TIC(s) reported**

TICs 8/21/2012 10:36:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

# Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

**Project:** 20142693

| Value | Description |
|---|---|
| A1 | The reported values are estimated concentrations determined using a relative response factor of 1.0 for these analytes. Quantitation was based upon the nearest internal standard free of interferences. |
| D1 | The analysis was performed at a dilution due to the high analyte concentration. |
| Q3 | The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample. |
| Q5 | Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery. |
| J | This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit. |
| U | The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated. |
| B | This analyte was detected in the method blank. |
| E | The sample concentration is above the linear calibrated range of the analysis. |
| LCS | Laboratory Control Sample. |
| MS(D) | Matrix Spike (Duplicate). |
| DUP | Sample Duplicate. |
| RPD | Relative Percent Difference. |

Pace Analytical Services, In
1000 Riverbend Blvd. Suite F
St. Rose, LA 7008
(504) 469-033

# Chains of Custody

Pace Analytical™

# INTERNAL CHAIN OF CUSTODY

**EPN/SDG #:** 20142693
**Client:** DEQ
**Analytical Fraction:** VOCS/ORREP/WQ

| PACE ID | CLIENT ID | PACE ID | CLIENT ID |
|---|---|---|---|
| 201012242 | 314-081012-007-90 | | |
| 243 | " - 98 | | |
| 244 | " - 88 | | |
| 248 | " - 89 | | |
| 249 | " - 131 | | |
| 250 | - TB | | |
| | | | |
| | | | |
| | | | |

| DATE | RELINQUISHED BY | RECEIVED BY | COMMENTS |
|---|---|---|---|
| 8/10/12 1N | Printed Name: Lisa Debbett<br>Signature: | Printed Name: TRACY BASLEY<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |

Pace Analytical™

# INTERNAL CHAIN OF CUSTODY

**EPN/SDG #:** 20142693
**Client:** DEQ
**Analytical Fraction:** VOQS/ORRep/WQ

| PACE ID | CLIENT ID | PACE ID | CLIENT ID |
|---|---|---|---|
| 201012242 | 314-081012-007-90 | | |
| 243 | 11 - 98 | | |
| 244 | 11 - 88 | | |
| 248 | 11 - 89 | | |
| 249 | 11 - 131 | | |
| 250 | - TB | | |
| | | | |
| | | | |
| | | | |

| DATE | RELINQUISHED BY | RECEIVED BY | COMMENTS |
|---|---|---|---|
| 8/10/12 1N | Printed Name: Lisa Detlefs<br>Signature: | Printed Name: Shelley Antoine<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |

Pace Analytical™

# INTERNAL CHAIN OF CUSTODY

**EPN/SDG #:** 20142693
**Client:** DEQ
**Analytical Fraction:** VOCs/ORRep/WQ

| PACE ID | CLIENT ID | PACE ID | CLIENT ID |
|---|---|---|---|
| 201012242 | 314-081012-007-90 | | |
| 243 | " - 98 | | |
| 244 | " - 88 | | |
| 248 | " - 89 | | |
| 249 | " - 131 | | |
| 250 | - TB | | |
| | | | |
| | | | |
| | | | |

| DATE | RELINQUISHED BY | RECEIVED BY | COMMENTS |
|---|---|---|---|
| 8/10/12 1N | Printed Name: Lisa Wolcott<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |

Pace Analytical™

# INTERNAL CHAIN OF CUSTODY

**EPN/SDG #:** 20142693
**Client:** DEQ
**Analytical Fraction:** VOCS/ORREP/WQ

| PACE ID | CLIENT ID | PACE ID | CLIENT ID |
|---|---|---|---|
| 201012242 | 314-081012-007-90 | | |
| 243 | 11 - 98 | | |
| 244 | 11 - 88 | | |
| 248 | 11 - 89 | | |
| 249 | 11 - 131 | | |
| 250 | - TB | | |
| | | | |
| | | | |
| | | | |

| DATE | RELINQUISHED BY | RECEIVED BY | COMMENTS |
|---|---|---|---|
| 8/13/12 1N | Printed Name: Lisa Ockert<br>Signature: [illegible] | Printed Name: L Bernell Akin<br>Signature: [illegible] | 8/16/12 825 |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |
| | Printed Name:<br>Signature: | Printed Name:<br>Signature: | |

2 20142693 20-DEQ LAB 2

60127149

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: CROSSTEX ID#: 182981

Address:

Location: Hwy 70

Parish: ASSUMPTION Team Leader: DON LON

Permit Number/Inspector's Log Number:

Additional Team Members:

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Requested Analysis: VOC 8260; SVOC 8270; SM4500-Cl; SM 2540-C

Additional Comments: Grab EQ VOM EFFLUENT USED NOT TESTED FOR STYRENE

| Sample #/Sample I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | VOC 8260 | SVOC 8270 | SM4500-Cl | SM 2540-C | | | | | | | Destination* AL, BL, RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34-081012-007-[illegible] | 90 | 8/10/12 | 1415 | WATER | | HCl ICE | X | 3 | | X | | | | | | | | | | | |
| 39-081012-007-[illegible] | 90 | 8/10/12 | 1415 | WATER | | ICE | X | 3 | | | X | | | | | | | | 2010122242 | 1BP3U | |
| 34-081012-007-[illegible] | 90 | 8/10/12 | 1415 | WATER | | ICE | X | 1 | | | | X | X | | | | | | | | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished by: | Date | Time | Received By: |
|---|---|---|---|
| [illegible] | 8/10/12 | 1504 | [illegible] |
| [illegible] | 8/10/12 | 1532 | [illegible] |
| [illegible] | 8-10-12 | 1715 | [illegible] |
| [illegible] | 8-15-12 | 1200 | |
| | 8-16-12 | 825 | [illegible] PASIRS 1.5°C |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab

60127149

20142693

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: Bayou Cane AG Seep (PB Energy) ID# 182981

Address: 600 W. 5th Street

Location: PB Energy (1B)

Parish: Assumption Team Leader: DONLON

Permit Number/Inspector's Log Number:

Additional Team Members: SEAN DARENSBOURG

List any Field Data Sheets that accompany the sample

Office Org. # Project Code

Additional Comments: SAMPLES RECEIVED

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | VOC's 8260 | SVOC's 8270 | Cl SM4500 | SM 2540-C | Destination* AL, BL, RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314-081012-007-98 | WELL | 8/10/12 | 1205 | WATER | 8260 | HCl/ICE | X | 3 | | X | | | | 20142693 | IBP34 |
| 314-081012-007-98 | WELL | 8/10/12 | 1205 | WATER | 8270 | ICE | X | 3 | | | X | | | | |
| 314-081012-007-98 | WELL | 8/10/12 | 1205 | WATER | 4500/2540C | ICE | X | 1 | | | | X | X | | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished by: | Date | Time | Received By: |
|---|---|---|---|
| [illegible] | 8/10/12 | 1504 | [illegible] |
| [illegible] | 8/10/12 | 1530 | [illegible] |
| [illegible] | 8/10/12 | 1715 | [illegible] 2.0 |
| [illegible] | 8-11-12 | 1200 | |
| | 8-11-12 | 935 | [illegible] TKS 1.5°C |

Recommended Sample Disposition:

Final Sample Disposition: Date:

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab

6012 7149

2014 2693

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: Bruce Corne McGoey (PB Energy) ID# 182981

Address: 607 N. 5th Street

Location: PB Energy (3A)

Parish: Assumption Team Leader: Duncan

Permit Number/Inspector's Log Number:

Additional Team Members: Sean Darcsdoung

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: Sample ID's

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | VOC's 8260 | SVOC's 8270 | Cl, SM 4500 | SM 2540-C | Destination* AL, BL, RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3H4-08102-007-88 | well | 8/10/12 | 1215 | water | | HCl/ICE | x | 3 | | x | | | | 20/0/12 2 | 4/1 83 |
| 3H4-08102-007-88 | well | 8/10/12 | 1215 | water | | ICE | x | 3 | | | x | | | | |
| 3H4-08102-007-88 | well | 8/10/12 | 1215 | water | | ICE | x | 1 | | | | x | x | | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished By: | Date | Time | Received By: |
|---|---|---|---|
| [illegible] | 8/10/12 | 1504 | [illegible] |
| [illegible] | 8/10/12 | 1530 | [illegible] |
| [illegible] | 8-10-12 | 1715 | [illegible] |
| [illegible] | 8-13-12 | 1200 | |
| | 8-6-12 | 825 | [illegible] |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab

60127149

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STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: CROSSTEX ID# 182981

Address: 602 N. 5TH ST.

Location: Houma 70

Parish: TERREBONNE Team Leader: DAMON

Permit Number/Inspector's Log Number:

Additional Team Members: SEAN DAMONSBURG

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: SAMPLES VERIFIED

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | Requested Analysis: VOC 8260 | SVOC 8270 | SW4500-Cl | SW 2540-C | Destination* AL, BL, RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 214 051012-001-[illegible] | 89 | 8/10/12 | 1435 | WATER | | HCl ICE | X | 3 | | X | | | | 20/01/2243 | 1B031 |
| 214 051012-001-[illegible] | 89 | 8/10/12 | 1435 | WATER | | ICE | X | 3 | | | X | | | | |
| 214 051012-001-[illegible] | 89 | 8/10/12 | 1435 | WATER | | ICE | X | 1 | | | | X | X | | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished By: | Date | Time | Received By: |
|---|---|---|---|
| [illegible] | 8/10/12 | 1509 | [illegible] |
| [illegible] | 8/10/12 | 1520 | [illegible] |
| [illegible] | 8-10-12 | 1715 | [illegible] |
| [illegible] | 8-15-12 | 1700 | |
| [illegible] | 8-16-12 | 825 | [illegible] |

Recommended Sample Disposition: Final Sample Disposition: Date:

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab

60127149

20142653

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: BAYOU CORNE UG SEEP (PB Energy) ID# 182981

Address: 602 N. 5TH STREET

Location: PB Energy (ZB)

Parish: ASSUMPTION Team Leader: DONLON

Permit Number/Inspector's Log Number:

Additional Team Members: SEAN DARNSBOURG

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: SAMPLES EFFERVESCENT

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | VOCs 8260 | SVOCs 8270 | Cl SVM4500 | SVM 2540-C | Destination* AL, BL, RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S14-081012-007-131 | WELL | 8/10/12 | 1150 | WATER | | HCL ICE | X | 3 | | X | | | | | |
| S15-081012-007-131 | WELL | 8/10/12 | 1150 | WATER | | ICE | X | 3 | | | X | | | 2012224 | IBPSU |
| S16-081012-007-131 | WELL | 8/10/12 | 1150 | WATER | | ICE | X | 1 | | | | X | X | | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished by: | Date | Time | Received By: |
|---|---|---|---|
| [illegible] | 8/10/12 | 1504 | [illegible] |
| [illegible] | 8/10/12 | 1530 | [illegible] |
| [illegible] | 8-10-12 | 1715 | [illegible] |
| [illegible] | 8-11-12 | 1200 | [illegible] |
| [illegible] | 8-11-12 | 820 | [illegible] 2.0 KS 1.5° |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab

## Sample Condition Upon Receipt

Pace Analytical www.pacelabs.com

Client Name: PASI N.O. Project # 60127149

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 435623072664 Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals Intact: ☑ Yes ☐ No

Optional
Proj. Due Date: 8/20
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other Zplc

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.5

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 8-16-12 BA

| | | Comments: |
|---|---|---|
| Chain of Custody present: | ☑ Yes ☐ No ☐ N/A | 1. |
| Chain of Custody filled out: | ☑ Yes ☐ No ☐ N/A | 2. |
| Chain of Custody relinquished: | ☑ Yes ☐ No ☐ N/A | 3. |
| Sampler name & signature on COC: | ☐ Yes ☑ No ☐ N/A | 4. |
| Samples arrived within holding time: | ☑ Yes ☐ No ☐ N/A | 5. |
| **Short Hold Time analyses (<72hr):** | ☐ Yes ☑ No ☐ N/A | 6. |
| **Rush Turn Around Time requested:** | ☑ Yes ☐ No ☐ N/A | 7. 2 Day |
| Sufficient volume: | ☑ Yes ☐ No ☐ N/A | 8. |
| Correct containers used: | ☑ Yes ☐ No ☐ N/A | 9. |
| -Pace containers used: | ☑ Yes ☐ No ☐ N/A | |
| Containers intact: | ☑ Yes ☐ No ☐ N/A | 10. |
| Unpreserved 5035A soils frozen w/in 48hrs? | ☐ Yes ☐ No ☑ N/A | 11. |
| Filtered volume received for dissolved tests | ☐ Yes ☐ No ☑ N/A | 12. |
| Sample labels match COC: | ☑ Yes ☐ No ☐ N/A | 13. |
| -includes date/time/ID/analyses Matrix: WT | | |
| All containers needing preservation have been checked. | ☐ Yes ☐ No ☑ N/A | 14. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ☐ Yes ☐ No ☑ N/A | |
| Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics | ☐ Yes ☑ No | Initial when completed: Lot # of added preservative: |
| Trip Blank present: | ☐ Yes ☐ No ☑ N/A | 15. |
| Pace Trip Blank lot # (if purchased): | | |
| Headspace in VOA vials ( >6mm): | ☐ Yes ☐ No ☑ N/A | 16. |
| Project sampled in USDA Regulated Area: | ☐ Yes ☐ No ☑ N/A | 17. List State: |

**Client Notification/ Resolution:** Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 8/16/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev 05, 19February2010

2 20142693 20-DEQ LAB 1

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: CROSSTEX ID# 182981

Address:

Location: Hwy 70

Parish: ASSUMPTION Team Leader: DON LON

Permit Number/Inspector's Log Number:

Additional Team Members:

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: Samples very reflective well not tested for 5 yrs

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | VOC 8260 | SVOC 8270 | SM4500-Cl | SM 2540-C | | | | | | | Destination* AL, BL,RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314-081012-007-~~[illegible]~~ LAV | 90 | 8/10/12 | 1415 | WATER | | HCL ICE | X | 3 | | X | | | | | | | | | | | |
| 314-081012-007-~~[illegible]~~ | 90 | 8/10/12 | 1415 | WATER | | ICE | X | 3 | | | X | | | | | | | | | 2010122242 | |
| 314-081012-007-~~[illegible]~~ | 90 | 8/10/12 | 1415 | WATER | | ICE | X | 1 | | | | X | X | | | | | | | | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished by: | Date | Time | Received By: |
|---|---|---|---|
| Don Dolan | 8/10/12 | 1504 | [illegible] |
| [illegible] | 8/10/12 | 1530 | [illegible] |
| [illegible] | 8-10-12 | 1715 | [illegible] |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL-Radiation Lab. WL=Water Lab

20142693

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: Bayou Corne NG Seep (PB Energy) ID# 182981

Address: 602 N. 5th Street

Location: PB Energy (1B)

Parish: Assumption Team Leader: DONLON

Permit Number/Inspector's Log Number:

Additional Team Members: SEAN DARENSBOURG

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: SAMPLES RECEIVED

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | VOC's 8260 | SVOC's 8270 | CI SM4500 | SM 2540-C | | | | | | | Destination* AL, BL,RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314-081012-007-98 | WELL | 8/10/12 | 1205 | WATER | 8260 | HCl/ICE | X | 3 | | X | | | | | | | | | | | |
| 314-081012-007-98 | WELL | 8/10/12 | 1205 | WATER | 8270 | ICE | X | 3 | | | X | | | | | | | | | | |
| 314-081012-007-98 | WELL | 8/10/12 | 1205 | WATER | 4500/2540C | ICE | X | 1 | | | | X | X | | | | | | | | |

20101293

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished by: | Date | Time | Received By: |
|---|---|---|---|
| [illegible signature] | 8/10/12 | 1504 | Mary Dyad |
| Mary Dyad | 8/10/12 | 1530 | William J. Pennington |
| William J. Pennington | 8-10-12 | 1715 | [illegible signature] |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL-Radiation Lab, WL=Water Lab

2014269 3

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: Bayou Corne MGSCP (PB Energy) ID# 182981

Address: 602 N. 5th Street

Location: PB Energy (3A)

Parish: Assumption Team Leader: Donlon

Permit Number/Inspector's Log Number:

Additional Team Members: Sean Darnsbourg

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: Sample (ES) Effluent Tank

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | Requested Analysis: VOC's 8260 | SVOC's 8270 | Cl SM 4500 | SM 2540-C | Destination* AL, BL, RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314-081012-007-88 | well | 8/10/12 | 1215 | water | | HCl/ice | x | 3 | | x | | | | 2010 12244 | |
| 314-081012-007-88 | well | 8/10/12 | 1215 | water | | ice | x | 3 | | | x | | | | |
| 314-081012-007-88 | well | 8/10/12 | 1215 | water | | ice | x | 1 | | | | x | x | | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished by: | Date | Time | Received By: |
|---|---|---|---|
| [illegible signature] | 8/10/12 | 1504 | Mary Daigle |
| Mary Daigle | 8/10/12 | 1530 | William J. Lunsford |
| William J. Lunsford | 8-10-12 | 1715 | Robert Brown/Ace 20 |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab

2012267_3

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: CROSSTEX ID# 182981

Address: 602 N. 5TH ST.

Location: HWY 70

Parish: ASSUMPTION Team Leader: DONON

Permit Number/Inspector's Log Number:

Additional Team Members: SEAN DOUGLASBURG

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: SAMPLES VOA EFFLUENTS

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | VOC 8260 | SVOC 8270 | SM4500-Cl | SM 2540-C | | | | | | | Destination* AL, BL,RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314 081012-001-MP | 89 | 8/10/12 | 1435 | WATER | | HCl ICE | X | 3 | | X | | | | | | | | | | 20/01/2248 | |
| 314 081012-001- | 89 | 8/10/12 | 1435 | WATER | | ICE | X | 3 | | | X | | | | | | | | | | |
| 314 081012-001- | 89 | 8/10/12 | 1435 | WATER | | ICE | X | 1 | | | | X | X | | | | | | | | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished By: | Date | Time | Received By: |
|---|---|---|---|
| [illegible] | 8/10/12 | 1504 | [illegible] |
| [illegible] | 8/10/12 | 1530 | [illegible] |
| [illegible] | 8-10-12 | 1715 | [illegible] |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL-Radiation Lab, WL=Water Lab

2014-2653

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

# CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: BAYOU CORNE NG SEEP (PB Energy) ID# 182981

Address: 602 N. 5TH STREET

Location: PB Energy (2B)

Parish: ASSUMPTION Team Leader: DON LON

Permit Number/Inspector's Log Number:

Additional Team Members: SEAN DARNSBOURG

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: SAMPLES EFFERVESCENT

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | VOCs 8260 | SVOCs 8270 | Cl SM4500 | SM 2540-C | | | | | | | | Destination* AL, BL,RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 314-081012-007-131 | WELL | 8/10/12 | 1150 | WATER | | HCl / ICE | X | 3 | | X | | | | | | | | | | | | |
| 314-081012-007-131 | WELL | 8/10/12 | 1150 | WATER | | ICE | X | 3 | | | X | | | | | | | | | | | |
| 314-081012-007-131 | WELL | 8/10/12 | 1150 | WATER | | ICE | X | 1 | | | | X | X | | | | | | | | | |

20101224 9

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished by: | Date | Time | Received By: |
|---|---|---|---|
| [illegible] | 8/10/12 | 1504 | Mary Dayd |
| Mary Dayd | 8/10/12 | 1530 | William J. Pusazin |
| William J. Pusazin | 8-10-12 | 1715 | Karen A. Brown / Karen J.D. |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL-Radiation Lab, WL=Water Lab

2014 2693

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

LABORATORY SERVICES

# CHAIN OF CUSTODY

Page ____ of ____

Name: BAYOU CORNE NG SEEP ID# 182981

Address: 602 N. 5TH ST

Location: N/A

Parish: ASSUMPTION Team Leader: DARELON

Permit Number/Inspector's Log Number:

Additional Team Members: SEAN DAVENSBOURG

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments:

| Sample #/Sampler I.D. | Location ID/Outfall/ (Canister S.N.) | Date | Time | Sample Medium/Type | Methodology | Preservatives | Grab or Comp | # Containers | # Aliquots | Requested Analysis: VOC 8260 | | | | | | | | | Destination* AL, BL,RL, WL | Remarks (Priority, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TRIP BLANK | N/A | 8/10/12 | N/A | WATER | | HCl ICE | X | 3 | | X | | | | | | | | 2 | 01012250 | |

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

| Sample Number | Aliquot | Grab | Team | Witness Name/Signature | Title |
|---|---|---|---|---|---|
| | | | | | |

CHAIN OF CUSTODY

| Relinquished by: | Date | Time | Received By: |
|---|---|---|---|
| [illegible] | 8/10/12 | 1504 | [illegible] |
| [illegible] | 8/10/12 | 1530 | [illegible] |
| [illegible] | 8-10-12 | 1715 | [illegible] Pace 20 |

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL-Radiation Lab, WL=Water Lab

2 20142693 20-DEQ LAB 1

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

## Sample Condition

**Courier:** ☐ Pace Courier ☐ Hackbarth ☐ Fed X ☐ UPS ☐ DHL ☐ USPS ☑ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☐Yes ☑No

**Therometer Used:** ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 4

**Type of Ice:** Wet Blue None Samples on ice: [see COC]

Cooler Temperature: [see COC] Temp should be above freezing to 6°C

**Date and Initials of person examining contents:** IN 8/10/12

Temp must be measured from Temperature blank when present

| | | | | Comments: |
|---|---|---|---|---|
| Temperature Blank Present"? | ☐Yes | ☑No | ☐N/A | 1 |
| Chain of Custody Present: | ☑Yes | ☐No | ☐N/A | 2 |
| Chain of Custody Complete: | ☑Yes | ☐No | ☐N/A | 3 |
| Chain of Custody Relinquished: | ☑Yes | ☐No | ☐N/A | 4 |
| Sampler Name & Signature on COC: | ☑Yes | ☐No | ☐N/A | 5 |
| Samples Arrived within Hold Time: | ☑Yes | ☐No | ☐N/A | 6 |
| Sufficient Volume: | ☑Yes | ☐No | ☐N/A | 7 |
| Correct Containers Used: | ☑Yes | ☐No | ☐N/A | 8 |
| Filtered vol. Rec. for Diss. tests | ☐Yes | ☑No | ☐N/A | 9 |
| Sample Labels match COC: | ☑Yes | ☐No | ☐N/A | 10 |
| All containers received within manafacture's precautionary and/or expiration dates. | ☑Yes | ☐No | ☐N/A | 11 |
| All containers needing preservation have been checked (except VOA, coliform, & O&G). | ☑Yes | ☐No | ☐N/A | 12 |
| All containers preservation checked found to be in compliance with EPA recommendation. | ☑Yes | ☐No | ☐N/A | 13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____ |
| Samples checked for dechlorination: | ☐Yes | ☑No | ☐N/A | 14 |
| Headspace in VOA Vials ( >6mm): | ☐Yes | ☑No | ☐N/A | 14 |
| Trip Blank Present: | ☐Yes | ☑No | ☐N/A | 16 |
| Trip Blank Custody Seals Present | ☐Yes | ☑No | ☐N/A | 17 |
| Pace Trip Blank Lot # (if purchased): N/A | | | | 18 |

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.06, 28Jul2010 - mod

Pace Analytical Services, In
1000 Riverbend Blvd. Suite I
St. Rose, LA 7008
(504) 469-033

# Subcontract Data/Reports

**Pace Analytical Services, Inc.**
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 20, 2012

Project Manager
Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087

RE: Project: 20142693 BAYOU CORNE
Pace Project No.: 60127149

Dear Project Manager:
Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures



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**Pace Analytical Services, Inc.**
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

## CERTIFICATIONS

| | |
|---|---|
| Project: | 20142693 BAYOU CORNE |
| Pace Project No.: | 60127149 |

**Kansas Certification IDs**
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2



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Lenexa, KS 66219
(913)599-5665

## SAMPLE SUMMARY

Project: 20142693 BAYOU CORNE
Pace Project No.: 60127149

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **201012242** | **314-081012-007-90** | Water | 08/10/12 14:15 | 08/16/12 08:45 |
| **201012243** | **314-081012-007-98** | Water | 08/10/12 12:05 | 08/16/12 08:45 |
| **201012244** | **314-081012-007-88** | Water | 08/10/12 12:15 | 08/16/12 08:45 |
| **201012248** | **314-081012-007-89** | Water | 08/10/12 14:35 | 08/16/12 08:45 |
| **201012249** | **314-081012-007-131** | Water | 08/10/12 11:50 | 08/16/12 08:45 |



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Lenexa, KS 66219
(913)599-5665

## SAMPLE ANALYTE COUNT

Project: 20142693 BAYOU CORNE
Pace Project No.: 60127149

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **201012242** | **314-081012-007-90** | EPA 300.0 | OL | 1 |
| **201012243** | **314-081012-007-98** | EPA 300.0 | OL | 1 |
| **201012244** | **314-081012-007-88** | EPA 300.0 | OL | 1 |
| **201012248** | **314-081012-007-89** | EPA 300.0 | OL | 1 |
| **201012249** | **314-081012-007-131** | EPA 300.0 | OL | 1 |



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Lenexa, KS 66219
(913)599-5665

# ANALYTICAL RESULTS

Project: 20142693 BAYOU CORNE
Pace Project No.: 60127149

**Sample: 314-081012-007-90** **Lab ID: 201012242** Collected: 08/10/12 14:15 Received: 08/16/12 08:45 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | |
| Bromide | **5.4** | mg/L | 1.0 | 1 | | 08/17/12 12:52 | 24959-67-9 | |

**Sample: 314-081012-007-98** **Lab ID: 201012243** Collected: 08/10/12 12:05 Received: 08/16/12 08:45 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | |
| Bromide | **8.4** | mg/L | 1.0 | 1 | | 08/17/12 13:09 | 24959-67-9 | |

**Sample: 314-081012-007-88** **Lab ID: 201012244** Collected: 08/10/12 12:15 Received: 08/16/12 08:45 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | |
| Bromide | **9.1** | mg/L | 1.0 | 1 | | 08/17/12 13:27 | 24959-67-9 | |

**Sample: 314-081012-007-89** **Lab ID: 201012248** Collected: 08/10/12 14:35 Received: 08/16/12 08:45 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | |
| Bromide | **2.0** | mg/L | 1.0 | 1 | | 08/17/12 14:02 | 24959-67-9 | |

**Sample: 314-081012-007-131** **Lab ID: 201012249** Collected: 08/10/12 11:50 Received: 08/16/12 08:45 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | |
| Bromide | **8.2** | mg/L | 1.0 | 1 | | 08/17/12 14:54 | 24959-67-9 | |



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# QUALITY CONTROL DATA

Project: 20142693 BAYOU CORNE
Pace Project No.: 60127149

QC Batch: WETA/21338 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 201012242, 201012243, 201012244, 201012248, 201012249

METHOD BLANK: 1046427 Matrix: Water
Associated Lab Samples: 201012242, 201012243, 201012244, 201012248, 201012249

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Bromide | mg/L | ND | 1.0 | 08/17/12 09:05 | |

LABORATORY CONTROL SAMPLE: 1046428

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromide | mg/L | 5 | 5.2 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1046429 1046430

| Parameter | Units | 201012233 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromide | mg/L | 4.5 | 5 | 5 | 9.9 | 9.8 | 108 | 106 | 75-119 | 1 | 10 | |

MATRIX SPIKE SAMPLE: 1046431

| Parameter | Units | 201012244 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Bromide | mg/L | 9.1 | 5 | 13.4 | 85 | 75-119 | |



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# QUALIFIERS

Project: 20142693 BAYOU CORNE
Pace Project No.: 60127149

**DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20142693 BAYOU CORNE
Pace Project No.: 60127149

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **201012242** | **314-081012-007-90** | EPA 300.0 | WETA/21338 | | |
| **201012243** | **314-081012-007-98** | EPA 300.0 | WETA/21338 | | |
| **201012244** | **314-081012-007-88** | EPA 300.0 | WETA/21338 | | |
| **201012248** | **314-081012-007-89** | EPA 300.0 | WETA/21338 | | |
| **201012249** | **314-081012-007-131** | EPA 300.0 | WETA/21338 | | |



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