

2007 Water Analysis



The following are water analysis of the Upper Leon River MWD for the year indicated, as required by the Texas Commission on Environmental Quality (TCEQ) and the Federal EPA.

| Analysis Type | Collection Date | Analysis Date |
|-------------------------|-----------------|-----------------|
| SOC ₅ | 06/26/07 | 06/29/07 |
| Minerals | 09/26/07 | 10/1-10/12 2007 |
| VOC | 09/26/07 | 10/04/07 |
| Trihalomethanes (THM) | 10/10/07 | 10/12/07 |
| Haloacetic Acids (HAA5) | 10/10/07 | 10/17/07 |



Texas Department of State Health Services

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LABORATORY SERVICES SECTION
CLIA #45D0660644

CONFIDENTIAL LABORATORY REPORT

Semivolatiles Organic Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported: 07/09/2007

Report ID#: 20070709081203AA16856

Lab Sample ID#: AA16856
Sample Priority: Routine
TCEQ ID#(s): 0707207

Water Source: Surface
Entry Point(s): 001

Date Collected: 06/26/2007 10:47
Date Received: 06/26/2007
Date Analyzed: 06/29/2007
Extraction Date: 06/29/2007

Conc. Units: µg/L
Method: 525.2
Analyst: DH

| Regulated Compounds | Result | Qualifier | Monitored Compounds continued | Result | Qualifier |
|----------------------------|---------------|------------------|--|--------|-----------|
| Alachlor | <0.20 | | Dieldrin | <0.20 | |
| Atrazine | <0.20 | | Diethylphthalate | <2.0 | |
| Benzo[a]pyrene | <0.20 | | Dimethylphthalate | <2.0 | |
| alpha-Chlordane | <0.20 | | Fluorene | <0.20 | |
| gamma-Chlordane | <0.20 | | 2,2',3,3',4,4',6-Heptachlorobiphenyl | <0.51 | |
| trans-Nonachlor | <0.20 | | 2,2',4,4',5,6'-Hexachlorobiphenyl | <0.20 | |
| bis(2-Ethylhexyl)adipate | <2.0 | | Indeno[1,2,3-cd]pyrene | <0.20 | |
| bis(2-Ethylhexyl)phthalate | <2.0 | | Metolachlor | <0.20 | |
| Endrin | <0.20 | | Metribuzin | <0.20 | |
| Heptachlor | <0.20 | | Naphthalene | <0.20 | |
| Heptachlor epoxide | <0.20 | | 2,2',3,3',4,5',6,6'-Octachlorobiphenyl | <0.51 | |
| Hexachlorobenzene | <0.20 | | 2,2',3',4,6-Pentachlorobiphenyl | <0.20 | |
| Hexachlorocyclopentadiene | <1.0 | * | Phenanthrene | <0.20 | |
| Lindane | <0.20 | | Prometon | <0.20 | * |
| Methoxychlor | <0.20 | | Propachlor | <0.20 | |
| Pentachlorophenol | <1.0 | | Pyrene | <0.20 | |
| Simazine | <0.20 | | 2,2',4,4'-Tetrachlorobiphenyl | <0.20 | |
| Monitored Compounds | Result | Qualifier | 2,4,5-Trichlorobiphenyl | <0.20 | |
| Acenaphthene | <0.20 | | Trifluralin | <0.20 | |
| Acenaphthylene | <0.20 | | | | |
| Aldrin | <0.20 | | | | |
| Anthracene | <0.20 | | | | |
| Benzo(a)anthracene | <0.20 | | | | |
| Benzo[b]fluoranthene | <0.20 | | | | |
| Benzo[g,h,i]perylene | <0.20 | | | | |
| Benzo[k]fluoranthene | <0.20 | | | | |
| Bromacil | <0.20 | | | | |
| Butachlor | <0.20 | | | | |
| Butylbenzylphthalate | <2.0 | | | | |
| 2-Chlorobiphenyl | <0.20 | | | | |
| Chrysene | <0.20 | | | | |
| Dibenz[a,h]anthracene | <0.20 | | | | |
| Di-n-butylphthalate | <2.0 | | | | |
| 2,3-Dichlorobiphenyl | <0.20 | | | | |

Comments:

* This analyte has known instability and/or method performance issues and quantitation should be considered approximate.

The recoveries for pentachlorophenol were above QC limits in both LFB QC samples.

Approved By: MTERRY Approval Date: 07/02/2007



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LABORATORY SERVICES SECTION
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CONFIDENTIAL LABORATORY REPORT

***ALL MINERALS**

Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported: 10/22/2007
Report ID#: 20071022123908AA38861

Lab Sample ID#: AA38861
Sample Priority: Routine
TCEQ ID#(s): 0707206

Water Source: Surface
Entry Point(s): 001

Date Collected: 09/26/2007 13:15
Date Received: 09/28/2007

| Analyte | Result | Unit | Method | Date Analyzed | Analyst |
|---|--------|------|-------------|---------------|---------|
| pH | 7.1 | S.U. | SM 4500-H B | 10/01/2007 | RF |
| Diluted Conductance | 546 | µS | SM 2510 B | 10/02/2007 | RF |
| Phenolphthalein Alkalinity as CaCO ₃ | <1 | mg/L | SM 2320B | 10/02/2007 | LA |
| Total Alkalinity as CaCO ₃ | 121 | mg/L | SM 2320B | 10/02/2007 | LA |
| Bicarbonate | 148 | mg/L | SM 2320B | 10/02/2007 | LA |
| Carbonate | <1 | mg/L | SM 2320B | 10/02/2007 | LA |
| Fluoride | 0.12 | mg/L | EPA 300.0 | 10/09/2007 | BF |
| Chloride | 63 | mg/L | EPA 300.0 | 10/12/2007 | BF |
| Sulfate | 31 | mg/L | EPA 300.0 | 10/12/2007 | BF |
| Total Dissolved Solids | 302 | mg/L | SM 2540C | 10/01/2007 | RF |
| Nitrate as N | 0.05 | mg/L | EPA 353.2 | 10/03/2007 | LM |

Comments:

Approved By : LARCHER Approval Date: 10/19/2007

LABORATORY SERVICES SECTION
CLIA #45D0660644

CONFIDENTIAL LABORATORY REPORT
Volatile Organic Compounds by GC/MS
Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported: 10/16/2007
Report ID#: 20071016133517AA39010

Lab Sample ID#: AA39010
Sample Priority: Quarterly
TCEQ ID#(s): 0707208

Water Source: Surface
Entry Point(s): 001

Date Collected: 09/26/2007 13:12
Date Received: 09/28/2007
Date Analyzed: 10/04/2007

Conc. Units: µg/L
Method: EPA 524.2
Analyst: MK

| Regulated Cmpds.[40 CFR 141.81(a)] | Result | Qualifier | Screened Compounds * | Result | Qualifier |
|---|---------------|------------------|---|---------------|------------------|
| Benzene | <0.5 | | 1,2-Dibromo-3-chloropropane | <1.0 | |
| Carbon tetrachloride | <0.5 | | 1,2-Dibromoethane | <1.0 | |
| Chlorobenzene | <0.5 | | Monitored Cmpds.[40 CFR 141.40(j)] | Result | Qualifier |
| 1,2-Dichlorobenzene | <0.5 | | 1,2,4-Trimethylbenzene | <1.0 | |
| 1,4-Dichlorobenzene | <0.5 | | 1,2,3-Trichlorobenzene | <1.0 | |
| 1,2-Dichloroethane | <0.5 | | n-Propylbenzene | <1.0 | |
| 1,1-Dichloroethene | <0.5 | | n-Butylbenzene | <1.0 | |
| cis-1,2-Dichloroethene | <0.5 | | Naphthalene | <1.0 | |
| trans-1,2-Dichloroethene | <0.5 | | Hexachlorobutadiene | <1.0 | |
| 1,2-Dichloropropane | <0.5 | | 1,3,5-Trimethylbenzene | <1.0 | |
| Methylene chloride (DCM) | <0.5 | | 4-Isopropyltoluene | <1.0 | |
| Ethylbenzene | <0.5 | | Isopropylbenzene | <1.0 | |
| Styrene | <0.5 | | t-Butylbenzene | <1.0 | |
| Tetrachloroethene | <0.5 | | s-Butylbenzene | <1.0 | |
| Toluene | <0.5 | | Trichlorofluoromethane | <2.0 | |
| 1,2,4-Trichlorobenzene | <0.5 | | Dichlorodifluoromethane | <2.0 | |
| 1,1,1-Trichloroethane | <0.5 | | Bromochloromethane | <1.0 | |
| 1,1,2-Trichloroethane | <0.5 | | Other Compounds | Result | Qualifier |
| Trichloroethene | <0.5 | | Acetone | <10 | |
| Vinyl chloride | <0.5 | | Acrylonitrile | <10 | |
| m&p-Xylene | <1.0 | | 2-Butanone (MEK) | <10 | |
| o-Xylene | <0.5 | | Carbon disulfide | <1.0 | |
| Monitored Cmpds.[40 CFR 141.40(e)] | Result | Qualifier | Ethyl methacrylate | <1.0 | |
| Chloroform | 242 | E | 2-Hexanone | <1.0 | |
| Bromodichloromethane | 100 | | Iodomethane | <2.0 | |
| Dibromochloromethane | 29 | | Methyl methacrylate | <1.0 | |
| Bromoform | 1.2 | | 4-Methyl-2-pentanone (MIBK) | <2.0 | |
| Dibromomethane | <1.0 | | Methyl-t-butyl ether (MTBE) | <2.0 | |
| 1,3-Dichlorobenzene | <1.0 | | Tetrahydrofuran | <5.0 | |
| 1,1-Dichloropropene | <1.0 | | Vinyl acetate | <10 | |
| 1,1-Dichloroethane | <1.0 | | Comments: | | |
| 1,1,2,2-Tetrachloroethane | <1.0 | | * Screened Compounds: Method 524.2 is not an approved method for these compounds. | | |
| 1,3-Dichloropropane | <1.0 | | E = Amount exceeds upper limit of calibration. Value is an approximation. | | |
| Chloromethane | <2.0 | | Approved By: GNESBITT Approval Date: 10/12/2007 | | |
| Bromomethane | <2.0 | | | | |
| 1,2,3-Trichloropropane | <1.0 | | | | |
| 1,1,1,2-Tetrachloroethane | <1.0 | | | | |
| Chloroethane | <2.0 | | | | |
| 2,2-Dichloropropane | <1.0 | | | | |
| 2-Chlorotoluene | <1.0 | | | | |
| 4-Chlorotoluene | <1.0 | | | | |
| Bromobenzene | <1.0 | | | | |
| cis-1,3-Dichloropropene | <1.0 | | | | |
| trans-1,3-Dichloropropene | <1.0 | | | | |



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LABORATORY SERVICES SECTION
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CONFIDENTIAL LABORATORY REPORT

Trihalomethanes Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 10/16/2007
Report ID# : 20071016133517AA40777

Lab Sample ID# : AA40777
Sample Priority :
TCEQ ID#(s) : 0707210

Water Source : Surface
Dist. Location : CR 436 FOLEYS

Date Collected : 10/10/2007 10:52
Date Received : 10/11/2007
Date Analyzed : 10/12/2007

Conc. Units : µg/L
Method : EPA 502.2
Analyst : LZ

| Trihalomethanes | Result | Qualifier |
|----------------------|--------|-----------|
| Chloroform | 23.8 | |
| Bromodichloromethane | 18.8 | |
| Dibromochloromethane | 7.5 | |
| Bromoform | 1.3 | |
| Total THM | 51.4 | |

Comments:

Approved By : AREN Approval Date: 10/15/2007



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LABORATORY SERVICES SECTION
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CONFIDENTIAL LABORATORY REPORT

Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 10/22/2007
Report ID# : 20071022123908AA40756

Lab Sample ID# : AA40756
Sample Priority :
TCEQ ID#(s) : 0707209

Water Source : Surface
Dist. Location : CR 436 FOLEYS

Date Collected : 10/10/2007 10:56
Date Received : 10/11/2007
Date Analyzed : 10/17/2007
Extraction Date : 10/15/2007

Conc. Units : µg/L
Method : 552.2 Rev 1.0
Analyst : TD

| <u>Regulated Compounds</u> | <u>Result</u> | <u>Qualifier</u> |
|----------------------------|---------------|------------------|
| Monochloroacetic acid | 9.0 | |
| Dichloroacetic acid | 37.0 | |
| Trichloroacetic acid | 6.7 | |
| Monobromoacetic acid | <1.0 | |
| Dibromoacetic acid | 7.7 | |
| Total HAA5 | 60.4 | |
| <u>Monitored Compounds</u> | <u>Result</u> | <u>Qualifier</u> |
| Bromochloroacetic acid | 22.3 | |
| Dalapon | <1.0 | |

Comments: