



CLIENT: Curtis Franklin
Dougherty Sprague Env., Inc.
3902 Industrial St. Suite A
Rowlett, TX 75088

GD Air Testing Lab. ID: GD11-0033-001
Report Date: 14-Mar-11
Date Analyzed: 10-Mar-11
Analyzed by: LAJ
GD Air QC Batch: QC-031011TO14
Method: EPATO14
NELAP Certification #: T104704364

Project No.: 1038000-3

REPORT OF ANALYTICAL RESULTS

Table with columns: SAMPLE DESCRIPTION, MATRIX, SAMPLE BY, SAMPLED DATE /RECEIVED, CONSTITUENT, MW, CAS, PQL* ppbv, RESULT ppbv, NOTE, ug/cu M. Includes rows for Benzene, Benzylchloride, Bromomethane, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1-Dichloroethane, 1,1-Dichlorethene, Dichlorodifluoromethane, Dichlorotetrafluoroethane, 1,2-Dichloroethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Dichloromethane, 1,2-Dichloropropane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, Ethylbenzene, Hexachlorobutadiene, Styrene, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Toluene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 1,2,4-Trichlorobenzene, Trichloroethene.



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REPORT OF ANALYTICAL RESULTS

Table with columns: SAMPLE DESCRIPTION, MATRIX, SAMPLE BY, SAMPLED DATE /RECEIVED, MW, CAS, PQL*, RESULT, NOTE. Includes rows for Trichlorofluoromethane, Trichlorotrifluoroethane, Vinyl Chloride, m&p-Xylenes, o-Xylene, and Surrogate Recovery Report.

*Comparison with the method blank this sample run with a dilution factor of: 1.27

Canister #9904 was received at an initial pressure of 0.0psi and pressurized to 4.0psi.

N: Not in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.

Analyte determined as tentatively identified compound (TIC).

*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.

*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted
GD Air Testing, Inc.

Signature of George Dai

George Dai, Ph.D.
Laboratory Director

Data File: CHEM\gd5973.1\031011.B\03101113.D

Report File: GDAIR D:\Client-Report\GD11-0033-1



CLIENT: **Curtis Franklin
DSE, Inc.
3902 Industrial St., Suite A
Rowlett, TX 75088**

GD Air Testing Lab. ID: **GD11-0033-1H2S**
Report Date: **3/16/2011**
Date Analyzed: **3/10/2011**
Analyzed by: **JCA**
GD QC Batch: **QC-031011H2S**

Project No.: **1038000-3**

Method: **ASTM 1946**

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION | MATRIX | SAMPLED BY | SAMPLED DATE /RECEIVED | |
|-----------------------------|--------|---------------------|------------------------|-----------------|
| Sample #1-RW03101105 | Air | Charlotte S. | 03/10/11 | 03/10/11 |

| CONSTITUENT | MW | PQL* ppmv | RESULT ppmv | NOTE |
|------------------|------|--------------|----------------|----------|
| Hydrogen Sulfide | 34.0 | 318 | ND | S |

S: Not in the Scope of NELAC Accreditation. Constituent analyzed using ASTM 1946.
Comparison with the method blank this sample run with a dilution factor of: **1.27**
RESULTS listed as "ND" were not detected at or above the listed PQL (Practical Quantitation Limit).
QA/QC reports following this report include: Method Blank, Blank Spike (BS), and Blank Spike Duplicate (BSD).

Respectfully submitted
GD Air Testing, Inc.

AJ for Dr. Dai
George Dai, Ph.D.
Laboratory Director

Report File: GDAIR D:\Client_Report\gd11-0033-1H2S
Data File: C:\HPCHEM\1\DATA\110310\S1031006.D



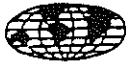
CLIENT: Curtis Franklin
Dougherty Sprague Env., Inc.
3902 Industrial St. Suite A
Rowlett, TX 75088

GD Air Testing Lab. ID: GD11-0033-002
Report Date: 14-Mar-11
Date Analyzed: 10-Mar-11
Analyzed by: LAJ
GD Air QC Batch: QC-031011TO14
Method: EPATO14
NELAP Certification #: T104704364

Project No.: 1038000-3

REPORT OF ANALYTICAL RESULTS

Table with columns: SAMPLE DESCRIPTION, MATRIX, SAMPLE BY, SAMPLED DATE /RECEIVED, MW, CAS, PQL*, RESULT, NOTE. Includes rows for Benzene, Benzychloride, Bromomethane, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1-Dichloroethane, 1,1-Dichlorethene, Dichlorodifluoromethane, Dichlorotetrafluoroethane, 1,2-Dichloroethane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Dichloromethane, 1,2-Dichloropropane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, Ethylbenzene, Hexachlorobutadiene, Styrene, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Toluene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 1,2,4-Trichlorobenzene, Trichloroethene.



CLIENT: Curtis Franklin
Dougherty Sprague Env., Inc.
3902 Industrial St. Suite A
Rowlett, TX 75088

GD Air Testing Lab. ID: GD11-0033-002
Report Date: 14-Mar-11
Date Analyzed: 10-Mar-11
Analyzed by: LAJ
GD Air QC Batch: QC-031011TO14
Method: EPATO14
NELAP Certification #: T104704364

Project No.: 1038000-3

REPORT OF ANALYTICAL RESULTS

Table with columns: SAMPLE DESCRIPTION, MATRIX, SAMPLE BY, SAMPLED DATE /RECEIVED, CONSTITUENT, MW, CAS, PQL*, RESULT, NOTE. Includes rows for Trichlorofluoromethane, Trichlorotrifluoroethane, Vinyl Chloride, m&p-Xylenes, o-Xylene, and Surrogate Recovery Report.

*Comparison with the method blank this sample run with a dilution factor of: 1.23
Canister #99015 was received at an initial pressure of 0.3psi and pressurized to 3.7psi.
N: Not in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.
Analyte determined as tentatively identified compound (TIC).
*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).
* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.
*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.
*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted
GD Air Testing, Inc.

Handwritten signature: AJ for Dr. Dai

George Dai, Ph.D.
Laboratory Director
Data File: CHEM\gd5973.1\031011.B\03101114.D
Report File: GDAIR D:\Client-Report\GD11-0033-2



CLIENT: **Curtis Franklin
DSE, Inc.
3902 Industrial St., Suite A
Rowlett, TX 75088**

GD Air Testing Lab. ID: **GD11-0033-2H2S**
Report Date: **3/16/2011**
Date Analyzed: **3/10/2011**
Analyzed by: **JCA**
GD QC Batch: **QC-031011H2S**

Project No.: **1038000-3**

Method: **ASTM 1946**

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION | MATRIX | SAMPLED BY | SAMPLED DATE /RECEIVED | |
|-----------------------------|--------|---------------------|------------------------|-----------------|
| Sample #2-RW03101106 | Air | Charlotte S. | 03/10/11 | 03/10/11 |
| CONSTITUENT | MW | PQL* ppmv | RESULT ppmv | NOTE |
| Hydrogen Sulfide | 34.0 | 308 | ND | S |

S: Not in the Scope of NELAC Accreditation. Constituent analyzed using ASTM 1946.
Comparison with the method blank this sample run with a dilution factor of: **1.23**
RESULTS listed as "ND" were not detected at or above the listed PQL (Practical Quantitation Limit).
QA/QC reports following this report include: Method Blank, Blank Spike (BS), and Blank Spike Duplicate (BSD).

Respectfully submitted
GD Air Testing, Inc.

George Dai, Ph.D.
Laboratory Director

Report File: GDAIR D:\Client_Report\gd11-0033-2H2S
Data File: C:\HPCHEM\1\DATA\110310\S1031007.D



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

Method Blank

Report Date:

03/10/11

Date Analyzed:

03/10/11

Analyzed by:

LAJ

GD Air QC Batch:

QC-031011

Project No.:

Method:

EPATO14

NELAP Certification #:

T104704364

REPORT OF METHOD BLANK RESULTS

| SAMPLE DESCRIPTION | MATRIX | SAMPLE BY | SAMPLED DATE /RECEIVED | | | |
|---------------------------------------|--------|-----------|------------------------|----------------|-----------------|---|
| BLK | Air | | | | | |
| CONSTITUENT | MW | CAS | PQL* ppbv | RESULT ppbv | NOTE ug/cu M | |
| Benzene | 78 | 71432 | 0.20 | ND | ND | |
| Benzylchloride | 126.6 | 100447 | 0.20 | ND | ND | N |
| Bromomethane (Methyl Bromide) | 94.9 | 74839 | 0.20 | ND | ND | |
| Carbon tetrachloride | 153.8 | 56235 | 0.20 | ND | ND | |
| Chlorobenzene | 112.6 | 108907 | 0.20 | ND | ND | |
| Chloroethane (Ethyl Chloride) | 64.5 | 75003 | 0.20 | ND | ND | |
| Chloroform | 119 | 67663 | 0.20 | ND | ND | |
| Chloromethane (Methyl Chloride) | 50.4 | 74873 | 0.20 | ND | ND | |
| 1,2-Dibromoethane (EDB) | 187.9 | 106934 | 0.20 | ND | ND | |
| 1,2-Dichlorobenzene | 147 | 95501 | 0.20 | ND | ND | |
| 1,3-Dichlorobenzene | 147 | 541731 | 0.20 | ND | ND | |
| 1,4-Dichlorobenzene | 147 | 106467 | 0.20 | ND | ND | |
| 1,1-Dichloroethane | 99 | 74343 | 0.20 | ND | ND | |
| 1,1-Dichlorethene | 97 | 75354 | 0.20 | ND | ND | |
| Dichlorodifluoromethane (F12) | 120.9 | 75718 | 0.20 | ND | ND | |
| Dichlorotetrafluoroethane (F114) | 170.9 | 76142 | 0.20 | ND | ND | |
| 1,2-Dichloroethane (EDC) | 99 | 107062 | 0.20 | ND | ND | |
| cis-1,2-Dichloroethene | 97 | 156592 | 0.20 | ND | ND | |
| trans-1,2-Dichloroethene | 97 | 156605 | 0.20 | ND | ND | N |
| Dichloromethane (Methylene chloride) | 84.9 | 75092 | 0.20 | ND | ND | |
| 1,2-Dichloropropane | 113 | 78875 | 0.20 | ND | ND | |
| cis-1,3-Dichloropropene | 111 | 10061015 | 0.20 | ND | ND | |
| trans-1,3-Dichloropropene | 111 | 10061026 | 0.20 | ND | ND | |
| Ethylbenzene | 106 | 100414 | 0.20 | ND | ND | |
| Hexachlorobutadiene | 260.8 | 87683 | 0.20 | ND | ND | |
| Styrene | 104 | 100425 | 0.20 | ND | ND | |
| 1,1,2,2-Tetrachloroethane | 167.9 | 79345 | 0.20 | ND | ND | |
| Tetrachloroethene (PCE) | 165.8 | 127184 | 0.20 | ND | ND | |
| Toluene | 92 | 108883 | 0.20 | ND | ND | |
| 1,1,1-Trichloroethane (TCA) | 133.4 | 71556 | 0.20 | ND | ND | |
| 1,1,2-Trichloroethane | 133.4 | 79005 | 0.20 | ND | ND | |
| 1,3,5-Trimethylbenzene/4-Ethyltoluene | 120.2 | 108678 | 0.20 | ND | ND | |
| 1,2,4-Trimethylbenzene | 120.2 | 95636 | 0.20 | ND | ND | |
| 1,2,4-Trichlorobenzene | 181.5 | 120821 | 0.20 | ND | ND | |
| Trichloroethene (TCE) | 131.3 | 79016 | 0.20 | ND | ND | |



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

Method Blank

Report Date:

03/10/11

Date Analyzed:

03/10/11

Analyzed by:

LAJ

Project No.: QC

GD Air QC Batch:

QC-031011

Method:

EPATO14

NELAP Certification #:

T104704364

REPORT OF METHOD BLANK RESULTS

Page 2 of 2

| SAMPLE DESCRIPTION | MATRIX | SAMPLE BY | | SAMPLED DATE /RECEIVED | | |
|----------------------------------|--------|-----------|--------|------------------------|---------|--|
| BLK | Air | | | | | |
| CONSTITUENT | MW | CAS | PQL* | RESULT | NOTE | |
| | | | ppbv | ppbv | ug/cu M | |
| Trichlorofluoromethane (F-11) | 137.4 | 75694 | 0.20 | ND | ND | |
| Trichlorotrifluoroethane (F-113) | 187.4 | 76131 | 0.20 | ND | ND | |
| Vinyl Chloride | 62.5 | 75014 | 0.20 | ND | ND | |
| m&p-Xylenes | 106 | 1330207 | 0.20 | ND | ND | |
| o-Xylene | 106 | 95476 | 0.20 | ND | ND | |
| Surrogate Recovery Report | | | Spiked | Found | R% | |
| | | | ppbv | ppbv | | |
| 1,4-Difluorobenzene (SS1) | 118.1 | 540363 | 5.00 | 4.94 | 98.8 | |
| Bromofluorobenzene (SS2) | 175 | 460004 | 5.00 | 4.73 | 94.6 | |

*Comparison with the method blank this sample run with a dilution factor of:

1.0

N: Not included in the Scope of NELAC Accrediation. Instrument calibration not performed for this analyte.

Analyte determined as tentatively identified compound (TIC).

*RESULTS Listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit).

* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

*Concentrations in ug/cu M reported at 760 mm Hg pressure and 298 deg.K.

*QA/QC reports followed this report include: Method blank, Blank spike (BS) and Blank spike duplicate (BSD)

Respectfully submitted

GD Air Testing, Inc.

George Dai, Ph.D.

Laboratory Director

Data File: Chemstation\c\chem\gd5973.I\031011.B\03101109.D

Report File: GD SRI\D\QC-11-TO14\Blank



CLIENT: GD Air Testing, Inc.

GD Air Testing Lab. ID:

BS/BSD

Report Date:

03/10/11

Date Analyzed:

03/10/11

Project No.:

Analyzed by:

LAJ

GD Air QC Batch:

QC-031011

Method:

EPATO14

NELAP Certification #:

T104704364-09-TX

REPORT OF BLANK SPIKE RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION | MATRIX | SAMPLE BY | SAMPLED DATE /RECEIVED | | | |
|--------------------|--------|-----------|------------------------|--|--|--|
| BS/BSD | Air | | | | | |

| Spike Control Compounds | Spiked ppbv | Found and Recovery | | | | |
|-------------------------|----------------|--------------------|-------|-----|--------|-------|
| | | BS/ppbv | BS R% | BSD | BSD R% | % RPD |

VOLATILE ORGANICS BY EPA TO-14

| | | | | | | |
|--------------------------------------|------|------|-----|------|-----|------|
| Vinyl Chloride | 10.0 | 8.3 | 83 | 7.4 | 74 | 11.5 |
| Methylene chloride (Dichloromethane) | 10.0 | 8.3 | 83 | 8.2 | 82 | 1.2 |
| 1,1,1-Trichloroethane | 10.0 | 9.3 | 93 | 9.5 | 95 | 2.1 |
| 1,2-Dichloroethane (EDC) | 10.0 | 8.8 | 88 | 9.3 | 93 | 5.5 |
| Benzene | 10.0 | 9.3 | 93 | 9.2 | 92 | 1.1 |
| Carbon tetrachloride | 10.0 | 9.0 | 90 | 9.5 | 95 | 5.4 |
| Trichloroethene (TCE) | 10.0 | 12.0 | 120 | 11.0 | 110 | 8.7 |
| Toluene | 10.0 | 11.0 | 110 | 11.0 | 110 | 0.0 |
| Chlorobenzene | 10.0 | 10.0 | 100 | 11.0 | 110 | 9.5 |
| Ethylbenzene | 10.0 | 11.0 | 110 | 11.0 | 110 | 0.0 |
| o-Xylene | 10.0 | 12.0 | 120 | 13.0 | 130 | 8.0 |

Surrogate Recovery Report

| | | | | | | |
|---------------------------|-----|------|-------|------|------|------|
| 1,4-Difluorobenzene (SS1) | 5.0 | 5.07 | 101.4 | 4.90 | 98.0 | 3.4 |
| Bromofluorobenzene (SS2) | 5.0 | 4.34 | 86.8 | 4.84 | 96.8 | 10.9 |

* The control limit for BS Recovery % of all spiked compound is 70% - 130%

* The control limit for relative percentage difference of BS/BSD is 30%

* If any control compound is not within the control limit, please see the case narrative for more details.

* The control limit for Surrogate Recovery % of all spiked compound is 70% - 130%. Only one is required to pass.

Respectfully submitted

GD Air Testing, Inc.

George Dai, Ph.D.

Laboratory Director

Data File: c:\chem\gd5973.I\031011.B\03101104.D and 03101107.D

Report File: GD\SR\ID\QC-TO14\BS-BSD



CLIENT: **GD Air Testing, Inc.**

GD Air Testing Lab. ID: **QC-BLK-031011H2S**
 Report Date: 3/16/2011
 Date Analyzed: 3/10/2011
 Analyzed by: JCA
 GD QC Batch: **QC-031011H2S**
 NELAP Certification No.: T104704364
 Method: **ASTM 1946**

REPORT OF METHOD BLANK RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION | MATRIX | SAMPLED BY | SAMPLED DATE /RECEIVED | |
|--------------------|--------|------------|------------------------|----------|
| Blank | Air | JCA | 03/10/11 | 03/10/11 |

| CONSTITUENT | MW | PQL* ppmv | RESULT ppmv | NOTE |
|------------------|------|--------------|----------------|------|
| Hydrogen Sulfide | 34.0 | 250 | ND | |

* If any compound is out of control limit, please see the case narrative for more details.

Respectfully submitted
GD Air Testing, Inc.

George Dai, Ph.D.
Laboratory Director

Report File: GDAIR D:\Client_Report\QC-blk-031011-H2S
Data File: C:\HPCHEM1\DATA\110310\S1031002.D



CLIENT: GD Air Testing Inc. QA

GD Air Testing Lab. ID: QC-031011H2S
Report Date: 3/16/2011
Date Analyzed: 3/10/2011
Analyzed by: JCA
NELAP Certification No.: T104704364
Method: ASTM 1946

REPORT OF BLANK SPIKE RESULTS

Page 1 of 1

| SAMPLE DESCRIPTION | MATRIX | SAMPLE BY | | SAMPLED DATE /RECEIVED | | |
|--------------------|----------------|--------------------|--------|------------------------|---------|-------|
| BS/BSD | GAS | | | | | |
| CONSTITUENT | Spiked ppmv | Found and Recovery | | | NOTE | |
| | | BS | BS, R% | BSD | BSD, R% | RPD % |
| Hydrogen Sulfide | 1000 | 1250 | 125 | 1320 | 132 | 5.4 |

- * The control limit for BS Recovery % of all spiked compound is 70% - 130%
- ** The control limit for relative percentage difference of BS/BSD is 30%
- *** If any control compound is not within the control limit, please see the case narrative for more details.

Respectfully submitted
GD Air Testing, Inc.

George Dai, Ph.D.
Laboratory Director

Data File: C:\HPCHEM\1\DATA\110310\S1031003.D, S1031004.D
Report File: GDAIR D:\Client_Report\H2S-BS-031011F