Southeast ACCUTEST LABORATORIES

06/17/14

# Technical Report for

## ISI Environmental Services

Clean Harbors; Wichita, KS

Accutest Job Number: FA15814

Sampling Date: 06/13/14

Report to:

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ATTN: Brady Gerber

Total number of pages in report: **34**

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Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

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# Sample Summary

ISI Environmental Services

Clean Harbors; Wichita, KS

**Job No:** FA15814

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| FA15814-1 | 06/13/14 | 00:00 | SKBG | 06/14/14 | SO | Soil | J2-S1 |
| FA15814-2 | 06/13/14 | 00:00 | SKBG | 06/14/14 | SO | Soil | J2-F1 |
| FA15814-3 | 06/13/14 | 00:00 | SKBG | 06/14/14 | SO | Soil | J2-S2 |
| FA15814-4 | 06/13/14 | 00:00 | SKBG | 06/14/14 | SO | Soil | J2-S3 |
| FA15814-5 | 06/13/14 | 00:00 | SKBG | 06/14/14 | SO | Trip Blank Soil | TRIP BLANK |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# Summary of Hits

**Job Number:** FA15814
**Account:** ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS
**Collected:** 06/13/14

| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **FA15814-1** | **J2-S1** | | | | | |
| Tetrachloroethylene | | 151 | 4.0 | | ug/kg | SW846 8260B |
| Trichloroethylene | | 6.4 | 4.0 | | ug/kg | SW846 8260B |
| **FA15814-2** | **J2-F1** | | | | | |
| Tetrachloroethylene | | 3310 | 290 | | ug/kg | SW846 8260B |
| Trichloroethylene | | 20.4 | 4.2 | | ug/kg | SW846 8260B |
| **FA15814-3** | **J2-S2** | | | | | |
| Tetrachloroethylene | | 25.6 | 3.9 | | ug/kg | SW846 8260B |
| **FA15814-4** | **J2-S3** | | | | | |
| Tetrachloroethylene | | 39.8 | 4.1 | | ug/kg | SW846 8260B |
| **FA15814-5** | **TRIP BLANK** | | | | | |

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES



## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S1 | | |
| **Lab Sample ID:** | FA15814-1 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 95.5 |
| **Project:** | Clean Harbors; Wichita, KS | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | H0086019.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.62 g |
| Run #2 | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 40 | ug/kg | |
| 107-02-8 | Acrolein | ND | 20 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 20 | ug/kg | |
| 71-43-2 | Benzene | ND | 4.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 4.0 | ug/kg | |
| 74-97-5 | Bromochloromethane [a] | ND | 4.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane [a] | ND | 4.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 4.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 4.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 4.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 4.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 4.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 4.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 4.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 20 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 4.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride [a] | ND | 4.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 4.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 4.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 4.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 4.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 4.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane [a] | ND | 4.0 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 4.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 4.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 4.0 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S1 | | |
| **Lab Sample ID:** | FA15814-1 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 95.5 |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 541-73-1 | m-Dichlorobenzene | ND | 4.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 4.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 4.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 4.0 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 4.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 4.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 20 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 4.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 4.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 4.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 20 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 4.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 4.0 | ug/kg | |
| 74-95-3 | Methylene bromide [a] | ND | 4.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 7.9 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 20 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 4.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 4.0 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 4.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 4.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 4.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane [a] | ND | 4.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 4.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 4.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 4.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.0 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 4.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 4.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | 151 | 4.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 4.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | 6.4 | 4.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.0 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 4.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 20 | ug/kg | |
| | m,p-Xylene | ND | 7.9 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 4.0 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S1 | | |
| **Lab Sample ID:** | FA15814-1 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 95.5 |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 75-124% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 72-135% |

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-F1 | | |
| **Lab Sample ID:** | FA15814-2 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 80.8 |
| **Project:** | Clean Harbors; Wichita, KS | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | H0086026.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| Run #2 | H0086027.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |

| | Initial Weight | Methanol Aliquot |
|---|---|---|
| Run #1 | 7.44 g | |
| Run #2 | 6.67 g | 100 ul |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 42 | ug/kg | |
| 107-02-8 | Acrolein | ND | 21 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 21 | ug/kg | |
| 71-43-2 | Benzene | ND | 4.2 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 4.2 | ug/kg | |
| 74-97-5 | Bromochloromethane [a] | ND | 4.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane [a] | ND | 4.2 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.2 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 4.2 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 4.2 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 4.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 4.2 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 4.2 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 4.2 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 4.2 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 21 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 4.2 | ug/kg | |
| 56-23-5 | Carbon tetrachloride [a] | ND | 4.2 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 4.2 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 4.2 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 4.2 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.2 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.2 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 4.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.2 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 4.2 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane [a] | ND | 4.2 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 4.2 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 4.2 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 4.2 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-F1 | | |
| **Lab Sample ID:** | FA15814-2 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 80.8 |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 541-73-1 | m-Dichlorobenzene | ND | 4.2 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 4.2 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 4.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 4.2 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 4.2 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 4.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 21 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 4.2 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 4.2 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 4.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 21 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 4.2 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 4.2 | ug/kg | |
| 74-95-3 | Methylene bromide [a] | ND | 4.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 8.3 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 21 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 4.2 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 4.2 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 4.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 4.2 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 4.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane [a] | ND | 4.2 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 4.2 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 4.2 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.2 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 4.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.2 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 4.2 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 4.2 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | 3310 [b] | 290 | ug/kg | |
| 108-88-3 | Toluene | ND | 4.2 | ug/kg | |
| 79-01-6 | Trichloroethylene | 20.4 | 4.2 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.2 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 4.2 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 21 | ug/kg | |
| | m,p-Xylene | ND | 8.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 4.2 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-F1 | | |
| **Lab Sample ID:** | FA15814-2 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 80.8 |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 92% | 75-124% |
| 2037-26-5 | Toluene-D8 | 87% | 88% | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 93% | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | 94% | 72-135% |

(a) Associated BS recovery outside control limits.
(b) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S2 | | |
| **Lab Sample ID:** | FA15814-3 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 96.2 |
| **Project:** | Clean Harbors; Wichita, KS | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | H0086023.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.67 g |
| Run #2 | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 39 | ug/kg | |
| 107-02-8 | Acrolein | ND | 19 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 19 | ug/kg | |
| 71-43-2 | Benzene | ND | 3.9 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 3.9 | ug/kg | |
| 74-97-5 | Bromochloromethane [a] | ND | 3.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane [a] | ND | 3.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 3.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 3.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 3.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 3.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 3.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 3.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 3.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 3.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 3.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 19 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 3.9 | ug/kg | |
| 56-23-5 | Carbon tetrachloride [a] | ND | 3.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 3.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 3.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 3.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 3.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 3.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 3.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 3.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 3.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane [a] | ND | 3.9 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 3.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 3.9 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 3.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 3.9 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S2 | | |
| **Lab Sample ID:** | FA15814-3 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 96.2 |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 541-73-1 | m-Dichlorobenzene | ND | 3.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 3.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 3.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 3.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 3.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 3.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 19 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 3.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 3.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 3.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 19 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 3.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 3.9 | ug/kg | |
| 74-95-3 | Methylene bromide [a] | ND | 3.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 7.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 19 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 3.9 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 3.9 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 3.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 3.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 3.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane [a] | ND | 3.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 3.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 3.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 3.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 3.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 3.9 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 3.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 3.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | 25.6 | 3.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 3.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 3.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 3.9 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 3.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 19 | ug/kg | |
| | m,p-Xylene | ND | 7.8 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 3.9 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S2 | | |
| **Lab Sample ID:** | FA15814-3 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 96.2 |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 75-124% |
| 2037-26-5 | Toluene-D8 | 88% | | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 72-135% |

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S3 | | |
| **Lab Sample ID:** | FA15814-4 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 97.6 |
| **Project:** | Clean Harbors; Wichita, KS | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | H0086024.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.18 g |
| Run #2 | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 41 | ug/kg | |
| 107-02-8 | Acrolein | ND | 21 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 21 | ug/kg | |
| 71-43-2 | Benzene | ND | 4.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 4.1 | ug/kg | |
| 74-97-5 | Bromochloromethane [a] | ND | 4.1 | ug/kg | |
| 75-27-4 | Bromodichloromethane [a] | ND | 4.1 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.1 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 4.1 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 4.1 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 4.1 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 4.1 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.1 | ug/kg | |
| 67-66-3 | Chloroform | ND | 4.1 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 4.1 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 4.1 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 21 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 4.1 | ug/kg | |
| 56-23-5 | Carbon tetrachloride [a] | ND | 4.1 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 4.1 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 4.1 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 4.1 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.1 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.1 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 4.1 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.1 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 4.1 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane [a] | ND | 4.1 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 4.1 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 4.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 4.1 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S3 | | |
| **Lab Sample ID:** | FA15814-4 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 97.6 |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 541-73-1 | m-Dichlorobenzene | ND | 4.1 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 4.1 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 4.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 4.1 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 4.1 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 4.1 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 21 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 4.1 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 4.1 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 4.1 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 21 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 4.1 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 4.1 | ug/kg | |
| 74-95-3 | Methylene bromide [a] | ND | 4.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 8.3 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 21 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 4.1 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 4.1 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 4.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 4.1 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 4.1 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane [a] | ND | 4.1 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 4.1 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 4.1 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.1 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 4.1 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.1 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 4.1 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 4.1 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | 39.8 | 4.1 | ug/kg | |
| 108-88-3 | Toluene | ND | 4.1 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 4.1 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.1 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 4.1 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 21 | ug/kg | |
| | m,p-Xylene | ND | 8.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 4.1 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | J2-S3 | | |
| **Lab Sample ID:** | FA15814-4 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | 97.6 |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 75-124% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 72-135% |

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | FA15814-5 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Trip Blank Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | Clean Harbors; Wichita, KS | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | H0086025.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.00 g |
| Run #2 | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | ug/kg | |
| 107-02-8 | Acrolein | ND | 25 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 25 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.0 | ug/kg | |
| 74-97-5 | Bromochloromethane [a] | ND | 5.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane [a] | ND | 5.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride [a] | ND | 5.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane [a] | ND | 5.0 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | FA15814-5 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Trip Blank Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 541-73-1 | m-Dichlorobenzene | ND | 5.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.0 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 25 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.0 | ug/kg | |
| 74-95-3 | Methylene bromide [a] | ND | 5.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 10 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 25 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.0 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane [a] | ND | 5.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 25 | ug/kg | |
| | m,p-Xylene | ND | 10 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.0 | ug/kg | |

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | FA15814-5 | **Date Sampled:** | 06/13/14 |
| **Matrix:** | SO - Trip Blank Soil | **Date Received:** | 06/14/14 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | Clean Harbors; Wichita, KS | | |

**VOA 8260 List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 75-124% |
| 2037-26-5 | Toluene-D8 | 87% | | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 72-135% |

(a) Associated BS recovery outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES



# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# Accutest Laboratories Southeast
## Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA15814 PAGE 1 OF 1

Accutest Quote #

SKIFF#

**Client / Reporting Information**

Company Name: 1Si Environmental
Address: 215 S. Laura
City: Wichita State: KS Zip: 67211
Project Contact: Brady Gerber E-mail: bgerber@1sienvironmental.com
Phone#: 316-264-7050
Sampler(s) Name(s) (Printed): Stuart Klaus / Brady Gerber

**Project Information**

Project Name: Clean Harbors - Wichita KS
Street
City State
Project # Fax #
Client Purchase Order #

**Analytical Information**

| Accutest Sample # | Field ID / Point of Collection | Collection Date | Time | Sampled By | Matrix | Total # of Bottles | Other | NONE | HCl | NaOH | HNO3 | H2SO4 | NaOH+ZnAc | DI WATER | MEOH | VOC's |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | J2-S1 | 6-13-14 | | BG | SO | 4 | | X | | | | | | X | X | X |
| 2 | J2-F1 | 6-13-14 | | BG | SO | 4 | | X | | | | | | X | X | X |
| 3 | J2-S2 | 6-13-14 | | BG | SO | 4 | | X | | | | | | X | X | X |
| 4 | J2-S3 | 6-13-14 | | BG | SO | 4 | | X | | | | | | X | X | X |
| 5 | Trip Blank | | | | | 3 | | | | | | | | | | X |

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

LAB USE ONLY

**TURNAROUND TIME (Business Days)**

Approved By: / Rush Code

- [ ] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [x] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

**Data Deliverable Information**

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

**Comments / Remarks**

Sample Custody must be documented below each time samples change possession, including courier delivery.

| Relinquished by Sampler: | Date Time: | Received By: | Relinquished by: | Date Time: | Received By: |
|---|---|---|---|---|---|
| 1 Brady Gerber | 6-13-14/1700 | 2 FX | 3 FX | 6-14-14 | 4 Courier (AIR) 10:00 |
| Relinquished by: | Date Time: | Received By: | Relinquished by: | Date Time: | Received By: |
| 5 | | 6 | 7 | | 8 |

**Lab Use Only:** Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 3.6

**FA15814: Chain of Custody**
**Page 1 of 3**

# ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA15814 CLIENT: ISI ENV PROJECT: CLEAN HARBORS

DATE/TIME RECEIVED: 6-14-14 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8055 3264 5667

## COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

## TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

## MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? 4FG

NUMBER OF LAB FILTERED METALS ? _____

## TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.1
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.6

## SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 6-14-14 REVIEWER SIGNATURE/DATE

RS 04/14 receipt confirmation 041514.xls

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**FA15814: Chain of Custody**
**Page 2 of 3**

FedEx Express Package US Airbill

FedEx Tracking Number 8055 3264 5667

From

Date [redacted]

Sender's Name [illegible] Phone 716 264-7050

Company [illegible]

Address [illegible] Dept./Floor/Suite/Room

City [illegible] State [illegible] ZIP 67211

Your Internal Billing Reference

To

Recipient's Name SAMPLE RECEIVING Phone 407 425-6700

Company ACCUTEST LABORATORIES SE, INC

Address 4405 VINELAND RD STE C15 Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City ORLANDO State FL ZIP 32811-5803

0114053202

8055 3264 5667

02115 Recipient's Copy

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., see the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning* delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

6 Special Handling and Delivery Signature Options

- [x] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted] 82

Total Packages 1 Total Weight 40 lbs.

Credit Card Auth.

611

*Our liability is limited to U$500.00 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

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**FA15814: Chain of Custody**

**Page 3 of 3**

Southeast ACCUTEST LABORATORIES



# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary



**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VH3272-MB | H0086016.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | ug/kg | |
| 107-02-8 | Acrolein | ND | 25 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 25 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.0 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 25 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.0 | ug/kg | |

# Method Blank Summary



**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VH3272-MB | H0086016.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Compound | Result | RL | Units | Q |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 25 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 10 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 25 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.0 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 25 | ug/kg | |
| | m,p-Xylene | ND | 10 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.0 | ug/kg | |

# Method Blank Summary



**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VH3272-MB | H0086016.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | 75-124% |
| 2037-26-5 | Toluene-D8 | 87% | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 72-135% |

# Blank Spike Summary



**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VH3272-BS | H0086015.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 250 | 310 | 124 | 61-152 |
| 107-02-8 | Acrolein | 250 | 238 | 95 | 48-178 |
| 107-13-1 | Acrylonitrile | 250 | 298 | 119 | 66-134 |
| 71-43-2 | Benzene | 50 | 58.7 | 117 | 76-126 |
| 108-86-1 | Bromobenzene | 50 | 55.2 | 110 | 76-122 |
| 74-97-5 | Bromochloromethane | 50 | 63.3 | 127* | 77-120 |
| 75-27-4 | Bromodichloromethane | 50 | 70.8 | 142* | 74-130 |
| 75-25-2 | Bromoform | 50 | 55.9 | 112 | 76-127 |
| 104-51-8 | n-Butylbenzene | 50 | 51.8 | 104 | 71-128 |
| 135-98-8 | sec-Butylbenzene | 50 | 56.9 | 114 | 79-135 |
| 98-06-6 | tert-Butylbenzene | 50 | 54.4 | 109 | 77-133 |
| 108-90-7 | Chlorobenzene | 50 | 59.3 | 119 | 81-129 |
| 75-00-3 | Chloroethane | 50 | 60.2 | 120 | 68-133 |
| 67-66-3 | Chloroform | 50 | 61.2 | 122 | 72-123 |
| 95-49-8 | o-Chlorotoluene | 50 | 55.3 | 111 | 77-129 |
| 106-43-4 | p-Chlorotoluene | 50 | 56.8 | 114 | 80-134 |
| 110-75-8 | 2-Chloroethyl vinyl ether | 250 | 293 | 117 | 45-159 |
| 75-15-0 | Carbon disulfide | 50 | 60.1 | 120 | 72-122 |
| 56-23-5 | Carbon tetrachloride | 50 | 70.8 | 142* | 78-133 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 58.6 | 117 | 73-125 |
| 75-35-4 | 1,1-Dichloroethylene | 50 | 57.9 | 116 | 81-136 |
| 563-58-6 | 1,1-Dichloropropene | 50 | 63.1 | 126 | 75-130 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 50.7 | 101 | 70-137 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 56.2 | 112 | 77-126 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 62.0 | 124 | 74-128 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 57.0 | 114 | 74-125 |
| 142-28-9 | 1,3-Dichloropropane | 50 | 54.4 | 109 | 76-122 |
| 594-20-7 | 2,2-Dichloropropane | 50 | 72.4 | 145* | 77-133 |
| 124-48-1 | Dibromochloromethane | 50 | 55.3 | 111 | 76-127 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 64.9 | 130 | 68-168 |
| 156-59-2 | cis-1,2-Dichloroethylene | 50 | 59.9 | 120 | 74-126 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 60.1 | 120 | 80-123 |
| 541-73-1 | m-Dichlorobenzene | 50 | 59.2 | 118 | 81-129 |
| 95-50-1 | o-Dichlorobenzene | 50 | 57.9 | 116 | 80-129 |
| 106-46-7 | p-Dichlorobenzene | 50 | 55.6 | 111 | 76-130 |
| 156-60-5 | trans-1,2-Dichloroethylene | 50 | 58.2 | 116 | 70-127 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VH3272-BS | H0086015.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 51.0 | 102 | 75-131 |
| 100-41-4 | Ethylbenzene | 50 | 52.8 | 106 | 77-123 |
| 591-78-6 | 2-Hexanone | 250 | 240 | 96 | 72-133 |
| 87-68-3 | Hexachlorobutadiene | 50 | 54.6 | 109 | 74-136 |
| 98-82-8 | Isopropylbenzene | 50 | 58.1 | 116 | 80-136 |
| 99-87-6 | p-Isopropyltoluene | 50 | 56.5 | 113 | 77-131 |
| 108-10-1 | 4-Methyl-2-pentanone | 250 | 239 | 96 | 76-132 |
| 74-83-9 | Methyl bromide | 50 | 63.7 | 127 | 65-139 |
| 74-87-3 | Methyl chloride | 50 | 59.0 | 118 | 71-144 |
| 74-95-3 | Methylene bromide | 50 | 62.7 | 125* | 74-124 |
| 75-09-2 | Methylene chloride | 50 | 53.9 | 108 | 74-137 |
| 78-93-3 | Methyl ethyl ketone | 250 | 305 | 122 | 75-137 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 59.8 | 120 | 77-120 |
| 91-20-3 | Naphthalene | 50 | 52.9 | 106 | 79-129 |
| 103-65-1 | n-Propylbenzene | 50 | 55.8 | 112 | 80-135 |
| 100-42-5 | Styrene | 50 | 54.9 | 110 | 78-125 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 50 | 55.7 | 111 | 78-126 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 65.2 | 130* | 70-129 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 54.6 | 109 | 71-126 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 54.0 | 108 | 74-124 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 53.5 | 107 | 77-128 |
| 96-18-4 | 1,2,3-Trichloropropane | 50 | 53.8 | 108 | 74-127 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 54.1 | 108 | 78-130 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 52.4 | 105 | 74-123 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 50 | 50.6 | 101 | 73-122 |
| 127-18-4 | Tetrachloroethylene | 50 | 57.4 | 115 | 79-130 |
| 108-88-3 | Toluene | 50 | 52.4 | 105 | 76-124 |
| 79-01-6 | Trichloroethylene | 50 | 59.3 | 119 | 75-128 |
| 75-69-4 | Trichlorofluoromethane | 50 | 67.3 | 135 | 73-145 |
| 75-01-4 | Vinyl chloride | 50 | 59.6 | 119 | 76-141 |
| 108-05-4 | Vinyl Acetate | 250 | 192 | 77 | 48-164 |
| | m,p-Xylene | 100 | 112 | 112 | 80-128 |
| 95-47-6 | o-Xylene | 50 | 56.7 | 113 | 80-132 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VH3272-BS | H0086015.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 75-124% |
| 2037-26-5 | Toluene-D8 | 85% | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 72-135% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA15814-1MS | H0086021.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| FA15814-1MSD | H0086022.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| FA15814-1 | H0086019.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Compound | FA15814-1 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | Spike ug/kg | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 326 | 352 | 108 | 301 | 331 | 110 | 6 | 61-152/27 |
| 107-02-8 | Acrolein | ND | | 326 | 279 | 86 | 301 | 286 | 95 | 2 | 48-178/37 |
| 107-13-1 | Acrylonitrile | ND | | 326 | 336 | 103 | 301 | 307 | 102 | 9 | 66-134/26 |
| 71-43-2 | Benzene | ND | | 65.1 | 68.8 | 106 | 60.2 | 63.2 | 105 | 8 | 76-126/26 |
| 108-86-1 | Bromobenzene | ND | | 65.1 | 66.8 | 103 | 60.2 | 58.2 | 97 | 14 | 76-122/32 |
| 74-97-5 | Bromochloromethane | ND | | 65.1 | 77.0 | 118 | 60.2 | 69.5 | 115 | 10 | 77-120/24 |
| 75-27-4 | Bromodichloromethane | ND | | 65.1 | 82.0 | 126 | 60.2 | 73.5 | 122 | 11 | 74-130/25 |
| 75-25-2 | Bromoform | ND | | 65.1 | 66.7 | 102 | 60.2 | 59.7 | 99 | 11 | 76-127/26 |
| 104-51-8 | n-Butylbenzene | ND | | 65.1 | 58.0 | 89 | 60.2 | 51.1 | 85 | 13 | 71-128/35 |
| 135-98-8 | sec-Butylbenzene | ND | | 65.1 | 65.6 | 101 | 60.2 | 58.5 | 97 | 11 | 79-135/34 |
| 98-06-6 | tert-Butylbenzene | ND | | 65.1 | 63.7 | 98 | 60.2 | 57.7 | 96 | 10 | 77-133/34 |
| 108-90-7 | Chlorobenzene | ND | | 65.1 | 70.8 | 109 | 60.2 | 62.7 | 104 | 12 | 81-129/29 |
| 75-00-3 | Chloroethane | ND | | 65.1 | 72.9 | 112 | 60.2 | 64.1 | 107 | 13 | 68-133/29 |
| 67-66-3 | Chloroform | ND | | 65.1 | 72.4 | 111 | 60.2 | 65.8 | 109 | 10 | 72-123/26 |
| 95-49-8 | o-Chlorotoluene | ND | | 65.1 | 65.3 | 100 | 60.2 | 58.0 | 96 | 12 | 77-129/33 |
| 106-43-4 | p-Chlorotoluene | ND | | 65.1 | 65.9 | 101 | 60.2 | 59.1 | 98 | 11 | 80-134/33 |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | | 326 | 324 | 100 | 301 | 301 | 100 | 7 | 45-159/26 |
| 75-15-0 | Carbon disulfide | ND | | 65.1 | 70.0 | 107 | 60.2 | 65.5 | 109 | 7 | 72-122/29 |
| 56-23-5 | Carbon tetrachloride | ND | | 65.1 | 85.7 | 132 | 60.2 | 78.5 | 130 | 9 | 78-133/29 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 65.1 | 67.7 | 104 | 60.2 | 62.0 | 103 | 9 | 73-125/27 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | 65.1 | 66.8 | 103 | 60.2 | 62.2 | 103 | 7 | 81-136/28 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 65.1 | 71.9 | 110 | 60.2 | 66.2 | 110 | 8 | 75-130/28 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 65.1 | 54.9 | 84 | 60.2 | 50.6 | 84 | 8 | 70-137/29 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 65.1 | 66.0 | 101 | 60.2 | 59.3 | 99 | 11 | 77-126/26 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 65.1 | 73.8 | 113 | 60.2 | 65.3 | 109 | 12 | 74-128/23 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 65.1 | 66.5 | 102 | 60.2 | 59.5 | 99 | 11 | 74-125/25 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 65.1 | 62.8 | 96 | 60.2 | 56.3 | 94 | 11 | 76-122/26 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 65.1 | 86.1 | 132 | 60.2 | 79.5 | 132 | 8 | 77-133/28 |
| 124-48-1 | Dibromochloromethane | ND | | 65.1 | 64.2 | 99 | 60.2 | 57.7 | 96 | 11 | 76-127/27 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 65.1 | 72.2 | 111 | 60.2 | 67.2 | 112 | 7 | 68-168/29 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | 65.1 | 70.0 | 107 | 60.2 | 64.0 | 106 | 9 | 74-126/26 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 65.1 | 69.4 | 107 | 60.2 | 62.6 | 104 | 10 | 80-123/26 |
| 541-73-1 | m-Dichlorobenzene | ND | | 65.1 | 69.9 | 107 | 60.2 | 62.2 | 103 | 12 | 81-129/33 |
| 95-50-1 | o-Dichlorobenzene | ND | | 65.1 | 67.3 | 103 | 60.2 | 61.0 | 101 | 10 | 80-129/32 |
| 106-46-7 | p-Dichlorobenzene | ND | | 65.1 | 65.5 | 101 | 60.2 | 57.4 | 95 | 13 | 76-130/32 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | 65.1 | 65.8 | 101 | 60.2 | 62.0 | 103 | 6 | 70-127/27 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA15814-1MS | H0086021.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| FA15814-1MSD | H0086022.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| FA15814-1 | H0086019.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Compound | FA15814-1 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | Spike ug/kg | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 65.1 | 59.2 | 91 | 60.2 | 54.1 | 90 | 9 | 75-131/28 |
| 100-41-4 | Ethylbenzene | ND | | 65.1 | 63.4 | 97 | 60.2 | 58.1 | 97 | 9 | 77-123/31 |
| 591-78-6 | 2-Hexanone | ND | | 326 | 262 | 80 | 301 | 244 | 81 | 7 | 72-133/26 |
| 87-68-3 | Hexachlorobutadiene | ND | | 65.1 | 57.3 | 88 | 60.2 | 49.3 | 82 | 15 | 74-136/38 |
| 98-82-8 | Isopropylbenzene | ND | | 65.1 | 67.9 | 104 | 60.2 | 62.6 | 104 | 8 | 80-136/32 |
| 99-87-6 | p-Isopropyltoluene | ND | | 65.1 | 66.0 | 101 | 60.2 | 59.4 | 99 | 11 | 77-131/34 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | | 326 | 265 | 81 | 301 | 243 | 81 | 9 | 76-132/26 |
| 74-83-9 | Methyl bromide | ND | | 65.1 | 78.5 | 121 | 60.2 | 71.8 | 119 | 9 | 65-139/31 |
| 74-87-3 | Methyl chloride | ND | | 65.1 | 67.0 | 103 | 60.2 | 63.7 | 106 | 5 | 71-144/27 |
| 74-95-3 | Methylene bromide | ND | | 65.1 | 74.7 | 115 | 60.2 | 68.3 | 113 | 9 | 74-124/24 |
| 75-09-2 | Methylene chloride | ND | | 65.1 | 64.0 | 98 | 60.2 | 60.6 | 101 | 5 | 74-137/28 |
| 78-93-3 | Methyl ethyl ketone | ND | | 326 | 330 | 101 | 301 | 307 | 102 | 7 | 75-137/25 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 65.1 | 74.8 | 115 | 60.2 | 69.2 | 115 | 8 | 77-120/24 |
| 91-20-3 | Naphthalene | ND | | 65.1 | 54.8 | 84 | 60.2 | 49.1 | 82 | 11 | 79-129/33 |
| 103-65-1 | n-Propylbenzene | ND | | 65.1 | 66.2 | 102 | 60.2 | 58.8 | 98 | 12 | 80-135/33 |
| 100-42-5 | Styrene | ND | | 65.1 | 63.9 | 98 | 60.2 | 58.1 | 97 | 10 | 78-125/30 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 65.1 | 67.6 | 104 | 60.2 | 60.6 | 101 | 11 | 78-126/27 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 65.1 | 79.0 | 121 | 60.2 | 71.0 | 118 | 11 | 70-129/27 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 65.1 | 62.3 | 96 | 60.2 | 57.5 | 96 | 8 | 71-126/30 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 65.1 | 63.1 | 97 | 60.2 | 57.0 | 95 | 10 | 74-124/28 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 65.1 | 55.3 | 85 | 60.2 | 48.3 | 80 | 14 | 77-128/35 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 65.1 | 65.3 | 100 | 60.2 | 56.9 | 95 | 14 | 74-127/27 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 65.1 | 58.9 | 90 | 60.2 | 49.3 | 82 | 18 | 78-130/34 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 65.1 | 61.9 | 95 | 60.2 | 55.2 | 92 | 11 | 74-123/34 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 65.1 | 61.0 | 94 | 60.2 | 54.8 | 91 | 11 | 73-122/33 |
| 127-18-4 | Tetrachloroethylene | 151 | | 65.1 | 116 | -54* [a] | 60.2 | 117 | -56* [a] | 1 | 79-130/31 |
| 108-88-3 | Toluene | ND | | 65.1 | 61.5 | 94 | 60.2 | 55.8 | 93 | 10 | 76-124/30 |
| 79-01-6 | Trichloroethylene | 6.4 | | 65.1 | 73.5 | 103 | 60.2 | 66.7 | 100 | 10 | 75-128/27 |
| 75-69-4 | Trichlorofluoromethane | ND | | 65.1 | 80.7 | 124 | 60.2 | 74.6 | 124 | 8 | 73-145/31 |
| 75-01-4 | Vinyl chloride | ND | | 65.1 | 67.3 | 103 | 60.2 | 63.5 | 106 | 6 | 76-141/27 |
| 108-05-4 | Vinyl Acetate | ND | | 326 | 141 | 43* | 301 | 113 | 38* | 22 | 48-164/37 |
| | m,p-Xylene | ND | | 130 | 133 | 102 | 120 | 122 | 101 | 9 | 80-128/30 |
| 95-47-6 | o-Xylene | ND | | 65.1 | 68.1 | 105 | 60.2 | 61.3 | 102 | 11 | 80-132/30 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA15814
**Account:** ISIEKSW ISI Environmental Services
**Project:** Clean Harbors; Wichita, KS

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA15814-1MS | H0086021.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| FA15814-1MSD | H0086022.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |
| FA15814-1 | H0086019.D | 1 | 06/14/14 | EP | n/a | n/a | VH3272 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260B

FA15814-1, FA15814-2, FA15814-3, FA15814-4, FA15814-5

| CAS No. | Surrogate Recoveries | MS | MSD | FA15814-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 101% | 99% | 75-124% |
| 2037-26-5 | Toluene-D8 | 83% | 85% | 87% | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | 93% | 97% | 71-133% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | 90% | 101% | 72-135% |

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.