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NWS YORKTOWN
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VALIDATED DATA PACKAGE, A502126, NWS YORKTOWN VA
7/14/2015
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MEMORANDUM CH2MHILL

# Data Validation Summary

# Yorktown CTO-WE19, Site 25

TO: Clairette Campbell/VBO

Anita Dodson/VBO

FROM: Tiffany McGlynn/GNV

CC: Herb Kelly/GNV

DATE: July 14, 2015

## Introduction

The following data validation report discusses the data validation process and findings for ENCO Laboratories, for SDG A502126.

Samples were analyzed using the following analytical methods:

- SW6010C Metals
- SW7470A/SW7471B Mercury
- SW8260B Volatiles
- SW8081B Pesticides
- SW8082A PCBs
- SW8270D Semivolatiles
- SW8270D_SIM Semivolatiles
- SW8330B Explosives (Sub Empirical SDG 1504057)
- SW9014 Cyanide

The samples included in this SDG are listed in the table below.

| Sample Name | Matrix |
|---|---|
| YS25-SS13-0415 | Soil |
| YS25-SB13-0H02-0415 | Soil |
| YS25-SS20-0415 | Soil |
| YS25-SB20-0H02-0415 | Soil |

| Sample Name | Matrix |
|---|---|
| YS25-SS21-0415 | Soil |
| YS25-SB21-0H02-0415 | Soil |
| YS25-SS27-0415 | Soil |
| YS25-SB27-0H02-0415 | Soil |
| YS25-SS28-0415 | Soil |
| YS25-SB28-0H02-0415 | Soil |
| YS25-EB040715-SO | Water |
| YS25-SS29-0415 | Soil |
| YS25-SB29-0H02-0415 | Soil |
| YS25-SS30-0415 | Soil |
| YS25-SB30-0H02-0415 | Soil |
| YS25-TB01-040715 | Water |
| YS25-TB02-040715 | Water |

## Data Evaluation

Data was evaluated in accordance with the analytical methods and with the criteria found in the following guidance documents: Sampling and Analysis Plan Site Remedial Investigation Site 25 Naval Weapons Station Yorktown, Virginia CTO-WE-19 (March 2015), Region III Modifications for Organic Data Review (EPA 1994), and Region III Modifications for Inorganic Data Review (EPA 1993), as applicable. The samples were evaluated based on the following criteria:

- Data Completeness
- Technical Holding Times
- Instrument Tuning
- Initial/Continuing Calibrations
- Blanks
- Internal Standards
- Laboratory Control Samples
- Matrix Spike  Recoveries
- Surrogates
- Field Duplicates
- Column Confirmation
- Serial Dilution
- Interference Check Sample

- Identification/Quantitation
- Reporting Limits

## Overall Evaluation of Data/Potential Usability Issues

Specific details regarding qualification of the data are addressed in the sections below. If an issue is not addressed there were no actions required based on unmet quality criteria. When more than one qualifier is associated with a compound/analyte, the validator has chosen the qualifier that best indicates possible bias in the results and qualified these data accordingly.

### Data Completeness

The SDG was received complete and intact.

### Technical Holding Times

According to the chain of custody records, sampling was performed on 4/7/15. Samples were received at the laboratory on 4/8/15. All sample preparation analysis was performed within holding time requirements.

### Blanks

Several compounds were detected in the associated equipment blank, calibration blanks and method blanks as listed below. Affected data are summarized in **Attachment 1**.

| Blank ID | Compound | Conc. | Units |
|---|---|---|---|
| YS25-EB040715-SO | Beryllium | 0.215 | UG_L |
| YS25-EB040715-SO | Calcium | 46.2 | UG_L |
| YS25-EB040715-SO | Copper | 1.50 | UG_L |
| YS25-EB040715-SO | Nickel | 0.915 | UG_L |
| YS25-EB040715-SO | Sodium | 240 | UG_L |
| YS25-EB040715-SO | Thallium | 11.8 | UG_L |
| 5D10006-BL | Methylene chloride | 1.4 | UG_KG_WETWT |
| 5D10006-BL | Methylene chloride | 1.6 | UG_KG_WETWT |
| 5D14003-BL | Cobalt | 0.154 | MG_KG_WETWT |
| 5D14003-BL | Iron | 0.577 | MG_KG_WETWT |
| 5D14004-BL | Barium | 0.0426 | MG_KG_WETWT |
| 5D14004-BL | Cobalt | 0.199 | MG_KG_WETWT |
| 5D14004-BL | Iron | 1.45 | MG_KG_WETWT |

| Blank ID | Compound | Conc. | Units |
|---|---|---|---|
| 5D14004-BL | Potassium | 9.41 | MG_KG_WETWT |
| 5D14006-BL | Nickel | 0.846 | UG_L |
| 5D15034-BL | Acetone | 7.0 | UG_L |
| 5D16007-BL | Methylene chloride | 34 | UG_KG_WETWT |
| 5D17022-BL | Methylene chloride | 13 | UG_KG_WETWT |
| CCB | Sodium | 65.3 | UG_L |
| CCB | Thallium | 10.8 | UG_L |

**Lab Control Sample/Sample Duplicate**

2-Chloronaphthalene, alpha-chlordane, and 2,4-dinitrophenol exhibited low recoveries in the LCS/LCSD. Affected data are summarized in **Attachment 1**.

**Surrogates**

Surrogates for several samples exhibited low recoveries for methods SW8081B, SW8260B, and SW8330B.

Surrogates for samples YS25-SS21-0415 and YS25-SB21-0H02-0415 in method SW8330B exhibited high recoveries.

Affected data are summarized in **Attachment 1**.

**Calibration**

Several compounds in method SW8260B did not meet initial calibration criteria. 4-Methyl-2-pentanone and 2-butanone did not meet relative response factor (RRF) criteria.

Methyl acetate exhibited high responses in the second source calibration.

Hexachlorocyclopentadiene, acetophenone, 2,2-oxybis(1-chloropropane), and 3,3-dichlorobenzidine exhibited low responses in the continuing calibration.

Affected data are summarized in **Attachment 1**.

**Column Confirmation**

HMX and PETN for sample YS25-SS13-0415 did not meet column confirmation criteria.

RDX for sample YS25-SB27-0H02-0415 did not meet column confirmation criteria.

2-Amino-4,6-dinitrotoluene for YS25-SS28-0415 did not meet column confirmation criteria.

Affected data are summarized in **Attachment 1**.

**Internal Standards**

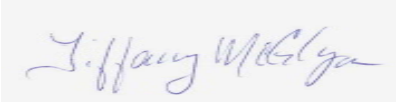
Internal standards exhibited low responses for sample YS25-SB13-0H02-0415 in method SW8270D and sample YS25-SS20-0415 in method SW8260B. Affected data are summarized in **Attachment 1**.

## Conclusion

These data can be used in the project decision-making process as qualified by the data quality evaluation process.

Please do not hesitate to contact us about this validation report.

Sincerely,



Tiffany McGlynn

## Qualification Flags

| | |
|---|---|
| Exclude | More appropriate data exist for this analyte. |
| R | Data were rejected for use. |
| UL | Analyte not detected, quantitation limit is potentially biased low. |
| UJ | Analyte not detected, estimated quantitation limit. |
| U | Analyte not detected. |
| B | Not detected substantially above the level reported in laboratory or field blanks. |
| L | Analyte present, estimated value potentially biased low. |
| K | Analyte present, estimated value potentially biased high. |
| N | Analyte identification presumptive; no second column analysis performed or GC/MS tentative identification. |
| J | Analyte present, estimated value. |
| NJ | Analysis indicates the presence of an analyte that was "tentatively identified" and the associated value represents its approximate concentration. |
| None | Placeholder for calculating quality control issues that do not require flagging. |
| = | Analyte was detected at a concentration greater than the quantitation limit. |

## Qualifier Code Reference

| Value | Description |
|---|---|
| %SOL | High Moisture content |
| 2C | Second Column – Poor Dual Column Reproducibility |
| 2S | Second Source – Bad reproducibility between tandem detectors |
| BD | Blank Spike/Blank Spike Duplicate(LCS/LCSD) Precision |
| BRL | Below Reporting Limit |
| BSH | Blank Spike/LCS – High Recovery |
| BSL | Blank Spike/LCS – Low Recovery |
| CC | Continuing Calibration |
| CCBL | Continuing Calibration Blank Contamination |
| CCH | Continuing Calibration Verification – High Recovery |
| CCL | Continuing Calibration Verification – Low Recovery |
| DL | Redundant Result – due to Dilution |
| EBL | Equipment Blank Contamination |
| EMPC | Estimated Possible Maximum Concentration |
| ESH | Extraction Standard - High Recovery |
| ESL | Extraction Standard - Low Recovery |
| FBL | Field Blank Contamination |
| FD | Field Duplicate |
| HT | Holding Time |
| ICB | Initial Calibration – Bad Linearity or Curve Function |
| ICH | Initial Calibration – High Relative Response Factors |
| ICL | Initial Calibration – Low Relative Response Factors |
| IR15 | Ion ratio exceeds +/- 15% difference |
| ISH | Internal Standard – High Recovery |
| ISL | Internal Standard – Low Recovery |
| LD | Lab Duplicate Reproducibility |
| LR | Concentration Exceeds Linear Range |
| MBL | Method Blank Contamination |
| MDP | Matrix Spike/Matrix Spike Duplicate Precision |
| MI | Matrix interference obscuring the raw data |

| | |
|---|---|
| MSH | Matrix Spike and/or Matrix Spike Duplicate – High Recovery |
| MSL | Matrix Spike and/or Matrix Spike Duplicate – Low Recovery |
| OT | Other |
| PD | Pesticide Degradation |
| RE | Redundant Result - due to Reanalysis or Re-extraction |
| SD | Serial Dilution Reproducibility |
| SSH | Spiked Surrogate – High Recovery |
| SSL | Spiked Surrogate – Low Recovery |
| TBL | Trip Blank Contamination |
| TN | Tune |

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Attachment 1 Change Qual. Table
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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-EB040715-SO | Nickel | B | MBL |
| YS25-EB040715-SO | Sodium | B | CCBL |
| YS25-EB040715-SO | Thallium | B | CCBL |
| YS25-EB040715-SO | alpha-Chlordane | UL | BSL |
| YS25-EB040715-SO | 2,2'-Oxybis(1-chloropropane) | UJ | CCL |
| YS25-EB040715-SO | 2-Chloronaphthalene | UL | BSL |
| YS25-EB040715-SO | 2,4-Dinitrophenol | UL | BSL |
| YS25-EB040715-SO | 3,3'-Dichlorobenzidine | UJ | CCL |
| YS25-EB040715-SO | Methylcyclohexane | UJ | ICB |
| YS25-EB040715-SO | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-EB040715-SO | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-EB040715-SO | 2-Butanone | UJ | ICL |
| YS25-EB040715-SO | Methyl acetate | UJ | 2S |
| YS25-EB040715-SO | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-EB040715-SO | Chloroethane | UJ | ICB |
| YS25-EB040715-SO | Acetone | UJ | ICB |
| YS25-EB040715-SO | 2-Hexanone | UJ | ICB |
| YS25-SB13-0H02-0415 | 2,4,6-Trinitrotoluene | UL | SSL |
| YS25-SB13-0H02-0415 | 2,4-Dinitrotoluene | UL | SSL |
| YS25-SB13-0H02-0415 | 2,6-Dinitrotoluene | UL | SSL |
| YS25-SB13-0H02-0415 | 2-Amino-4,6-dinitrotoluene | UL | SSL |
| YS25-SB13-0H02-0415 | 2-Nitrotoluene | UL | SSL |
| YS25-SB13-0H02-0415 | 3,5-Dinitroaniline | UL | SSL |
| YS25-SB13-0H02-0415 | 3-Nitrotoluene | UL | SSL |
| YS25-SB13-0H02-0415 | 4-Amino-2,6-dinitrotoluene | UL | SSL |
| YS25-SB13-0H02-0415 | 4-Nitrotoluene | UL | SSL |
| YS25-SB13-0H02-0415 | HMX | L | SSL |
| YS25-SB13-0H02-0415 | Nitrobenzene | UL | SSL |
| YS25-SB13-0H02-0415 | Nitroglycerin | UL | SSL |
| YS25-SB13-0H02-0415 | PETN | UL | SSL |
| YS25-SB13-0H02-0415 | Tetryl | UL | SSL |
| YS25-SB13-0H02-0415 | Sodium | B | EBL |
| YS25-SB13-0H02-0415 | alpha-BHC | UL | SSL |
| YS25-SB13-0H02-0415 | gamma-BHC (Lindane) | UL | SSL |
| YS25-SB13-0H02-0415 | beta-BHC | UL | SSL |
| YS25-SB13-0H02-0415 | delta-BHC | UL | SSL |
| YS25-SB13-0H02-0415 | Heptachlor | UL | SSL |
| YS25-SB13-0H02-0415 | Aldrin | UL | SSL |
| YS25-SB13-0H02-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SB13-0H02-0415 | gamma-Chlordane | UL | SSL |
| YS25-SB13-0H02-0415 | alpha-Chlordane | UL | SSL |
| YS25-SB13-0H02-0415 | 4,4'-DDE | UL | SSL |
| YS25-SB13-0H02-0415 | Endosulfan I | UL | SSL |

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Attachment 1 Change Qual. Table
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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SB13-0H02-0415 | Dieldrin | UL | SSL |
| YS25-SB13-0H02-0415 | Endrin | UL | SSL |
| YS25-SB13-0H02-0415 | 4,4'-DDD | UL | SSL |
| YS25-SB13-0H02-0415 | Endosulfan II | UL | SSL |
| YS25-SB13-0H02-0415 | 4,4'-DDT | UL | SSL |
| YS25-SB13-0H02-0415 | Endrin aldehyde | UL | SSL |
| YS25-SB13-0H02-0415 | Methoxychlor | UL | SSL |
| YS25-SB13-0H02-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SB13-0H02-0415 | Endrin ketone | UL | SSL |
| YS25-SB13-0H02-0415 | Toxaphene | UL | SSL |
| YS25-SB13-0H02-0415 | Acetophenone | UJ | CCL |
| YS25-SB13-0H02-0415 | Isophorone | UJ | ISL |
| YS25-SB13-0H02-0415 | 2-Nitrophenol | UJ | ISL |
| YS25-SB13-0H02-0415 | 2,4-Dimethylphenol | UJ | ISL |
| YS25-SB13-0H02-0415 | bis(2-Chloroethoxy)methane | UJ | ISL |
| YS25-SB13-0H02-0415 | 2,4-Dichlorophenol | UJ | ISL |
| YS25-SB13-0H02-0415 | 4-Chloroaniline | UJ | ISL |
| YS25-SB13-0H02-0415 | Hexachlorobutadiene | UJ | ISL |
| YS25-SB13-0H02-0415 | 4-Chloro-3-methylphenol | UJ | ISL |
| YS25-SB13-0H02-0415 | Hexachlorocyclopentadiene | UJ | CCL |
| YS25-SB13-0H02-0415 | Acetone | J | ICB |
| YS25-SB13-0H02-0415 | 2-Butanone | UJ | ICL |
| YS25-SB13-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB13-0H02-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SB13-0H02-0415 | Chloroethane | UJ | ICB |
| YS25-SB13-0H02-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SB13-0H02-0415 | 2-Hexanone | UJ | ICB |
| YS25-SB13-0H02-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SB13-0H02-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SB20-0H02-0415 | Sodium | B | EBL |
| YS25-SB20-0H02-0415 | Acetophenone | UJ | CCL |
| YS25-SB20-0H02-0415 | Hexachlorocyclopentadiene | UJ | CCL |
| YS25-SB20-0H02-0415 | Chloroethane | UJ | ICB |
| YS25-SB20-0H02-0415 | Acetone | J | ICB |
| YS25-SB20-0H02-0415 | Methylene chloride | B | MBL |
| YS25-SB20-0H02-0415 | 2-Butanone | UJ | ICL |
| YS25-SB20-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB20-0H02-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SB20-0H02-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SB20-0H02-0415 | 2-Hexanone | UJ | ICB |
| YS25-SB20-0H02-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SB20-0H02-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SB21-0H02-0415 | RDX | K | SSH |

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Attachment 1 Change Qual. Table
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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SB21-0H02-0415 | HMX | K | SSH |
| YS25-SB21-0H02-0415 | Sodium | B | EBL |
| YS25-SB21-0H02-0415 | alpha-BHC | UL | SSL |
| YS25-SB21-0H02-0415 | gamma-BHC (Lindane) | UL | SSL |
| YS25-SB21-0H02-0415 | beta-BHC | UL | SSL |
| YS25-SB21-0H02-0415 | delta-BHC | UL | SSL |
| YS25-SB21-0H02-0415 | Heptachlor | UL | SSL |
| YS25-SB21-0H02-0415 | Aldrin | UL | SSL |
| YS25-SB21-0H02-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SB21-0H02-0415 | gamma-Chlordane | UL | SSL |
| YS25-SB21-0H02-0415 | alpha-Chlordane | UL | SSL |
| YS25-SB21-0H02-0415 | 4,4'-DDE | UL | SSL |
| YS25-SB21-0H02-0415 | Endosulfan I | UL | SSL |
| YS25-SB21-0H02-0415 | Dieldrin | UL | SSL |
| YS25-SB21-0H02-0415 | Endrin | UL | SSL |
| YS25-SB21-0H02-0415 | 4,4'-DDD | UL | SSL |
| YS25-SB21-0H02-0415 | Endosulfan II | UL | SSL |
| YS25-SB21-0H02-0415 | 4,4'-DDT | UL | SSL |
| YS25-SB21-0H02-0415 | Endrin aldehyde | UL | SSL |
| YS25-SB21-0H02-0415 | Methoxychlor | UL | SSL |
| YS25-SB21-0H02-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SB21-0H02-0415 | Endrin ketone | UL | SSL |
| YS25-SB21-0H02-0415 | Toxaphene | UL | SSL |
| YS25-SB21-0H02-0415 | Acetophenone | UJ | CCL |
| YS25-SB21-0H02-0415 | Hexachlorocyclopentadiene | UJ | CCL |
| YS25-SB21-0H02-0415 | Acetone | J | ICB |
| YS25-SB21-0H02-0415 | 2-Hexanone | UJ | ICB |
| YS25-SB21-0H02-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SB21-0H02-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SB21-0H02-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SB21-0H02-0415 | Chloromethane | UL | SSL |
| YS25-SB21-0H02-0415 | Vinyl chloride | UL | SSL |
| YS25-SB21-0H02-0415 | Bromomethane | UL | SSL |
| YS25-SB21-0H02-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SB21-0H02-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SB21-0H02-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SB21-0H02-0415 | Carbon disulfide | UL | SSL |
| YS25-SB21-0H02-0415 | Methylene chloride | UL | SSL |
| YS25-SB21-0H02-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SB21-0H02-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SB21-0H02-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SB21-0H02-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SB21-0H02-0415 | 2-Butanone | UJ | ICL |

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Attachment 1 Change Qual. Table
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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SB21-0H02-0415 | Chloroform | UL | SSL |
| YS25-SB21-0H02-0415 | Bromochloromethane | UL | SSL |
| YS25-SB21-0H02-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SB21-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB21-0H02-0415 | Cyclohexane | UL | SSL |
| YS25-SB21-0H02-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SB21-0H02-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SB21-0H02-0415 | Benzene | UL | SSL |
| YS25-SB21-0H02-0415 | Trichloroethene | UL | SSL |
| YS25-SB21-0H02-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SB21-0H02-0415 | Bromodichloromethane | UL | SSL |
| YS25-SB21-0H02-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SB21-0H02-0415 | Toluene | UL | SSL |
| YS25-SB21-0H02-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SB21-0H02-0415 | Tetrachloroethene | UL | SSL |
| YS25-SB21-0H02-0415 | Dibromochloromethane | UL | SSL |
| YS25-SB21-0H02-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SB21-0H02-0415 | Chlorobenzene | UL | SSL |
| YS25-SB21-0H02-0415 | Ethylbenzene | UL | SSL |
| YS25-SB21-0H02-0415 | m- and p-Xylene | UL | SSL |
| YS25-SB21-0H02-0415 | o-Xylene | UL | SSL |
| YS25-SB21-0H02-0415 | Bromoform | UL | SSL |
| YS25-SB21-0H02-0415 | Styrene | UL | SSL |
| YS25-SB21-0H02-0415 | Isopropylbenzene | UL | SSL |
| YS25-SB21-0H02-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SB21-0H02-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SB21-0H02-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SB21-0H02-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SB21-0H02-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SB21-0H02-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SB21-0H02-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SB21-0H02-0415 | Chloroethane | UJ | ICB |
| YS25-SB21-0H02-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SB27-0H02-0415 | RDX | J | 2C |
| YS25-SB27-0H02-0415 | Sodium | B | EBL |
| YS25-SB27-0H02-0415 | Acetone | UJ | ICB |
| YS25-SB27-0H02-0415 | 2-Hexanone | UJ | ICB |
| YS25-SB27-0H02-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SB27-0H02-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SB27-0H02-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SB27-0H02-0415 | Chloromethane | UL | SSL |
| YS25-SB27-0H02-0415 | Vinyl chloride | UL | SSL |
| YS25-SB27-0H02-0415 | Bromomethane | UL | SSL |

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Attachment 1 Change Qual. Table
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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SB27-0H02-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SB27-0H02-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SB27-0H02-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SB27-0H02-0415 | Carbon disulfide | UL | SSL |
| YS25-SB27-0H02-0415 | Methylene chloride | UL | SSL |
| YS25-SB27-0H02-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SB27-0H02-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SB27-0H02-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SB27-0H02-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SB27-0H02-0415 | 2-Butanone | UJ | ICL |
| YS25-SB27-0H02-0415 | Chloroform | UL | SSL |
| YS25-SB27-0H02-0415 | Bromochloromethane | UL | SSL |
| YS25-SB27-0H02-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SB27-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB27-0H02-0415 | Cyclohexane | UL | SSL |
| YS25-SB27-0H02-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SB27-0H02-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SB27-0H02-0415 | Benzene | UL | SSL |
| YS25-SB27-0H02-0415 | Trichloroethene | UL | SSL |
| YS25-SB27-0H02-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SB27-0H02-0415 | Bromodichloromethane | UL | SSL |
| YS25-SB27-0H02-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SB27-0H02-0415 | Toluene | UL | SSL |
| YS25-SB27-0H02-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SB27-0H02-0415 | Tetrachloroethene | UL | SSL |
| YS25-SB27-0H02-0415 | Dibromochloromethane | UL | SSL |
| YS25-SB27-0H02-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SB27-0H02-0415 | Chlorobenzene | UL | SSL |
| YS25-SB27-0H02-0415 | Ethylbenzene | UL | SSL |
| YS25-SB27-0H02-0415 | m- and p-Xylene | UL | SSL |
| YS25-SB27-0H02-0415 | o-Xylene | UL | SSL |
| YS25-SB27-0H02-0415 | Bromoform | UL | SSL |
| YS25-SB27-0H02-0415 | Styrene | UL | SSL |
| YS25-SB27-0H02-0415 | Isopropylbenzene | UL | SSL |
| YS25-SB27-0H02-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SB27-0H02-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SB27-0H02-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SB27-0H02-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SB27-0H02-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SB27-0H02-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SB27-0H02-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SB27-0H02-0415 | Chloroethane | UJ | ICB |
| YS25-SB27-0H02-0415 | Methylcyclohexane | UJ | ICB |

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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SB28-0H02-0415 | Sodium | B | EBL |
| YS25-SB28-0H02-0415 | alpha-BHC | UL | SSL |
| YS25-SB28-0H02-0415 | gamma-BHC (Lindane) | UL | SSL |
| YS25-SB28-0H02-0415 | beta-BHC | UL | SSL |
| YS25-SB28-0H02-0415 | delta-BHC | UL | SSL |
| YS25-SB28-0H02-0415 | Heptachlor | UL | SSL |
| YS25-SB28-0H02-0415 | Aldrin | UL | SSL |
| YS25-SB28-0H02-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SB28-0H02-0415 | gamma-Chlordane | UL | SSL |
| YS25-SB28-0H02-0415 | alpha-Chlordane | UL | SSL |
| YS25-SB28-0H02-0415 | 4,4'-DDE | UL | SSL |
| YS25-SB28-0H02-0415 | Endosulfan I | UL | SSL |
| YS25-SB28-0H02-0415 | Dieldrin | UL | SSL |
| YS25-SB28-0H02-0415 | Endrin | UL | SSL |
| YS25-SB28-0H02-0415 | 4,4'-DDD | UL | SSL |
| YS25-SB28-0H02-0415 | Endosulfan II | UL | SSL |
| YS25-SB28-0H02-0415 | 4,4'-DDT | UL | SSL |
| YS25-SB28-0H02-0415 | Endrin aldehyde | UL | SSL |
| YS25-SB28-0H02-0415 | Methoxychlor | UL | SSL |
| YS25-SB28-0H02-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SB28-0H02-0415 | Endrin ketone | UL | SSL |
| YS25-SB28-0H02-0415 | Toxaphene | UL | SSL |
| YS25-SB28-0H02-0415 | Acetone | J | ICB |
| YS25-SB28-0H02-0415 | 2-Hexanone | UJ | ICB |
| YS25-SB28-0H02-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SB28-0H02-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SB28-0H02-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SB28-0H02-0415 | Chloromethane | UL | SSL |
| YS25-SB28-0H02-0415 | Vinyl chloride | UL | SSL |
| YS25-SB28-0H02-0415 | Bromomethane | UL | SSL |
| YS25-SB28-0H02-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SB28-0H02-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SB28-0H02-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SB28-0H02-0415 | Carbon disulfide | UL | SSL |
| YS25-SB28-0H02-0415 | Methylene chloride | UL | SSL |
| YS25-SB28-0H02-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SB28-0H02-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SB28-0H02-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SB28-0H02-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SB28-0H02-0415 | 2-Butanone | J | ICL |
| YS25-SB28-0H02-0415 | Chloroform | UL | SSL |
| YS25-SB28-0H02-0415 | Bromochloromethane | UL | SSL |
| YS25-SB28-0H02-0415 | 1,1,1-Trichloroethane | UL | SSL |

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Attachment 1 Change Qual. Table
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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SB28-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB28-0H02-0415 | Cyclohexane | UL | SSL |
| YS25-SB28-0H02-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SB28-0H02-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SB28-0H02-0415 | Benzene | UL | SSL |
| YS25-SB28-0H02-0415 | Trichloroethene | UL | SSL |
| YS25-SB28-0H02-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SB28-0H02-0415 | Bromodichloromethane | UL | SSL |
| YS25-SB28-0H02-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SB28-0H02-0415 | Toluene | UL | SSL |
| YS25-SB28-0H02-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SB28-0H02-0415 | Tetrachloroethene | UL | SSL |
| YS25-SB28-0H02-0415 | Dibromochloromethane | UL | SSL |
| YS25-SB28-0H02-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SB28-0H02-0415 | Chlorobenzene | UL | SSL |
| YS25-SB28-0H02-0415 | Ethylbenzene | UL | SSL |
| YS25-SB28-0H02-0415 | m- and p-Xylene | UL | SSL |
| YS25-SB28-0H02-0415 | o-Xylene | UL | SSL |
| YS25-SB28-0H02-0415 | Bromoform | UL | SSL |
| YS25-SB28-0H02-0415 | Styrene | UL | SSL |
| YS25-SB28-0H02-0415 | Isopropylbenzene | UL | SSL |
| YS25-SB28-0H02-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SB28-0H02-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SB28-0H02-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SB28-0H02-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SB28-0H02-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SB28-0H02-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SB28-0H02-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SB28-0H02-0415 | Chloroethane | UJ | ICB |
| YS25-SB28-0H02-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SB29-0H02-0415 | Sodium | B | EBL |
| YS25-SB29-0H02-0415 | alpha-BHC | UL | SSL |
| YS25-SB29-0H02-0415 | gamma-BHC (Lindane) | UL | SSL |
| YS25-SB29-0H02-0415 | beta-BHC | UL | SSL |
| YS25-SB29-0H02-0415 | delta-BHC | UL | SSL |
| YS25-SB29-0H02-0415 | Heptachlor | UL | SSL |
| YS25-SB29-0H02-0415 | Aldrin | UL | SSL |
| YS25-SB29-0H02-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SB29-0H02-0415 | gamma-Chlordane | UL | SSL |
| YS25-SB29-0H02-0415 | alpha-Chlordane | UL | SSL |
| YS25-SB29-0H02-0415 | 4,4'-DDE | UL | SSL |
| YS25-SB29-0H02-0415 | Endosulfan I | UL | SSL |
| YS25-SB29-0H02-0415 | Dieldrin | UL | SSL |

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Attachment 1 Change Qual. Table
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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SB29-0H02-0415 | Endrin | UL | SSL |
| YS25-SB29-0H02-0415 | 4,4'-DDD | UL | SSL |
| YS25-SB29-0H02-0415 | Endosulfan II | UL | SSL |
| YS25-SB29-0H02-0415 | 4,4'-DDT | UL | SSL |
| YS25-SB29-0H02-0415 | Endrin aldehyde | UL | SSL |
| YS25-SB29-0H02-0415 | Methoxychlor | UL | SSL |
| YS25-SB29-0H02-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SB29-0H02-0415 | Endrin ketone | UL | SSL |
| YS25-SB29-0H02-0415 | Toxaphene | UL | SSL |
| YS25-SB29-0H02-0415 | Chloroethane | UJ | ICB |
| YS25-SB29-0H02-0415 | Acetone | J | ICB |
| YS25-SB29-0H02-0415 | Methylene chloride | B | MBL |
| YS25-SB29-0H02-0415 | 2-Butanone | UJ | ICL |
| YS25-SB29-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB29-0H02-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SB29-0H02-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SB29-0H02-0415 | 2-Hexanone | UJ | ICB |
| YS25-SB29-0H02-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SB29-0H02-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SB30-0H02-0415 | Sodium | B | EBL |
| YS25-SB30-0H02-0415 | alpha-BHC | UL | SSL |
| YS25-SB30-0H02-0415 | gamma-BHC (Lindane) | UL | SSL |
| YS25-SB30-0H02-0415 | beta-BHC | UL | SSL |
| YS25-SB30-0H02-0415 | delta-BHC | UL | SSL |
| YS25-SB30-0H02-0415 | Heptachlor | UL | SSL |
| YS25-SB30-0H02-0415 | Aldrin | UL | SSL |
| YS25-SB30-0H02-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SB30-0H02-0415 | gamma-Chlordane | UL | SSL |
| YS25-SB30-0H02-0415 | alpha-Chlordane | UL | SSL |
| YS25-SB30-0H02-0415 | 4,4'-DDE | UL | SSL |
| YS25-SB30-0H02-0415 | Endosulfan I | UL | SSL |
| YS25-SB30-0H02-0415 | Dieldrin | UL | SSL |
| YS25-SB30-0H02-0415 | Endrin | UL | SSL |
| YS25-SB30-0H02-0415 | 4,4'-DDD | UL | SSL |
| YS25-SB30-0H02-0415 | Endosulfan II | UL | SSL |
| YS25-SB30-0H02-0415 | 4,4'-DDT | UL | SSL |
| YS25-SB30-0H02-0415 | Endrin aldehyde | UL | SSL |
| YS25-SB30-0H02-0415 | Methoxychlor | UL | SSL |
| YS25-SB30-0H02-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SB30-0H02-0415 | Endrin ketone | UL | SSL |
| YS25-SB30-0H02-0415 | Toxaphene | UL | SSL |
| YS25-SB30-0H02-0415 | Acetone | J | ICB |
| YS25-SB30-0H02-0415 | Methylcyclohexane | UJ | ICB |

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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SB30-0H02-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SB30-0H02-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SB30-0H02-0415 | 2-Butanone | J | ICL |
| YS25-SB30-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB30-0H02-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SB30-0H02-0415 | Chloroethane | UJ | ICB |
| YS25-SB30-0H02-0415 | 2-Hexanone | UJ | ICB |
| YS25-SS13-0415 | Acetone | J | ICB |
| YS25-SS13-0415 | 2-Butanone | UJ | ICL |
| YS25-SS13-0415 | Methyl acetate | UJ | 2S |
| YS25-SS13-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SS13-0415 | Chloroethane | UJ | ICB |
| YS25-SS13-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SS13-0415 | 2-Hexanone | UJ | ICB |
| YS25-SS13-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SS13-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SS13-0415 | PETN | J | 2C |
| YS25-SS13-0415 | HMX | J | 2C |
| YS25-SS13-0415 | Sodium | B | EBL |
| YS25-SS13-0415 | Acetophenone | UJ | CCL |
| YS25-SS13-0415 | Hexachlorocyclopentadiene | UJ | CCL |
| YS25-SS20-0415 | Acetone | J | ICB |
| YS25-SS20-0415 | 2-Hexanone | UJ | ICB |
| YS25-SS20-0415 | 2-Butanone | UJ | ICL |
| YS25-SS20-0415 | Methyl acetate | UJ | 2S |
| YS25-SS20-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SS20-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SS20-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SS20-0415 | 1,2,4-Trichlorobenzene | UJ | ISL |
| YS25-SS20-0415 | 1,3-Dichlorobenzene | UJ | ISL |
| YS25-SS20-0415 | 1,4-Dichlorobenzene | UJ | ISL |
| YS25-SS20-0415 | 1,2-Dichlorobenzene | UJ | ISL |
| YS25-SS20-0415 | 1,2-Dibromo-3-chloropropane | UJ | ISL |
| YS25-SS20-0415 | 1,2,3-Trichlorobenzene | UJ | ISL |
| YS25-SS20-0415 | Chloroethane | UJ | ICB |
| YS25-SS20-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SS20-0415 | Sodium | B | EBL |
| YS25-SS20-0415 | Acetophenone | UJ | CCL |
| YS25-SS20-0415 | Hexachlorocyclopentadiene | UJ | CCL |
| YS25-SS20-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS20-0415 | Chloromethane | UL | SSL |
| YS25-SS20-0415 | Vinyl chloride | UL | SSL |
| YS25-SS20-0415 | Bromomethane | UL | SSL |

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Attachment 1 Change Qual. Table
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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SS20-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS20-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SS20-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SS20-0415 | Carbon disulfide | UL | SSL |
| YS25-SS20-0415 | Methylene chloride | UL | SSL |
| YS25-SS20-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SS20-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS20-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SS20-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS20-0415 | Chloroform | UL | SSL |
| YS25-SS20-0415 | Bromochloromethane | UL | SSL |
| YS25-SS20-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS20-0415 | Cyclohexane | UL | SSL |
| YS25-SS20-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS20-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS20-0415 | Benzene | UL | SSL |
| YS25-SS20-0415 | Trichloroethene | UL | SSL |
| YS25-SS20-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS20-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS20-0415 | Toluene | UL | SSL |
| YS25-SS20-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS20-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS20-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS20-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS20-0415 | Chlorobenzene | UL | SSL |
| YS25-SS20-0415 | Ethylbenzene | UL | SSL |
| YS25-SS20-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS20-0415 | o-Xylene | UL | SSL |
| YS25-SS20-0415 | Bromoform | UL | SSL |
| YS25-SS20-0415 | Styrene | UL | SSL |
| YS25-SS20-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS20-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS21-0415 | Chloroethane | UJ | ICB |
| YS25-SS21-0415 | Acetone | J | ICB |
| YS25-SS21-0415 | Methylene chloride | B | MBL |
| YS25-SS21-0415 | 2-Butanone | UJ | ICL |
| YS25-SS21-0415 | Methyl acetate | UJ | 2S |
| YS25-SS21-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SS21-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SS21-0415 | 2-Hexanone | UJ | ICB |
| YS25-SS21-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SS21-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SS21-0415 | 2,4,6-Trinitrotoluene | UL | SSL |

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| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SS21-0415 | 2,6-Dinitrotoluene | UL | SSL |
| YS25-SS21-0415 | 3,5-Dinitroaniline | UL | SSL |
| YS25-SS21-0415 | 3-Nitrotoluene | UL | SSL |
| YS25-SS21-0415 | 4-Amino-2,6-dinitrotoluene | UL | SSL |
| YS25-SS21-0415 | 4-Nitrotoluene | L | SSL |
| YS25-SS21-0415 | Nitrobenzene | UL | SSL |
| YS25-SS21-0415 | PETN | L | SSL |
| YS25-SS21-0415 | RDX | L | SSL |
| YS25-SS21-0415 | HMX | K | SSH |
| YS25-SS21-0415 | Sodium | B | EBL |
| YS25-SS21-0415 | alpha-BHC | UL | SSL |
| YS25-SS21-0415 | gamma-BHC (Lindane) | UL | SSL |
| YS25-SS21-0415 | beta-BHC | UL | SSL |
| YS25-SS21-0415 | delta-BHC | UL | SSL |
| YS25-SS21-0415 | Heptachlor | UL | SSL |
| YS25-SS21-0415 | Aldrin | UL | SSL |
| YS25-SS21-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SS21-0415 | gamma-Chlordane | UL | SSL |
| YS25-SS21-0415 | alpha-Chlordane | UL | SSL |
| YS25-SS21-0415 | 4,4'-DDE | UL | SSL |
| YS25-SS21-0415 | Endosulfan I | UL | SSL |
| YS25-SS21-0415 | Dieldrin | UL | SSL |
| YS25-SS21-0415 | Endrin | UL | SSL |
| YS25-SS21-0415 | 4,4'-DDD | UL | SSL |
| YS25-SS21-0415 | Endosulfan II | UL | SSL |
| YS25-SS21-0415 | 4,4'-DDT | UL | SSL |
| YS25-SS21-0415 | Endrin aldehyde | UL | SSL |
| YS25-SS21-0415 | Methoxychlor | UL | SSL |
| YS25-SS21-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SS21-0415 | Endrin ketone | UL | SSL |
| YS25-SS21-0415 | Toxaphene | UL | SSL |
| YS25-SS21-0415 | Hexachlorocyclopentadiene | UJ | CCL |
| YS25-SS27-0415 | Acetone | J | ICB |
| YS25-SS27-0415 | 2-Hexanone | UJ | ICB |
| YS25-SS27-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SS27-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SS27-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS27-0415 | Chloromethane | UL | SSL |
| YS25-SS27-0415 | Vinyl chloride | UL | SSL |
| YS25-SS27-0415 | Bromomethane | UL | SSL |
| YS25-SS27-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS27-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SS27-0415 | 1,1-Dichloroethene | UL | SSL |

Yorktown Site 25
Attachment 1 Change Qual. Table
SDG A502126

| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SS27-0415 | Carbon disulfide | UL | SSL |
| YS25-SS27-0415 | Methylene chloride | UL | SSL |
| YS25-SS27-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SS27-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS27-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SS27-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS27-0415 | 2-Butanone | UJ | ICL |
| YS25-SS27-0415 | Chloroform | UL | SSL |
| YS25-SS27-0415 | Bromochloromethane | UL | SSL |
| YS25-SS27-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS27-0415 | Methyl acetate | UJ | 2S |
| YS25-SS27-0415 | Cyclohexane | UL | SSL |
| YS25-SS27-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS27-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS27-0415 | Benzene | UL | SSL |
| YS25-SS27-0415 | Trichloroethene | UL | SSL |
| YS25-SS27-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS27-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS27-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SS27-0415 | Toluene | UL | SSL |
| YS25-SS27-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS27-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS27-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS27-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS27-0415 | Chlorobenzene | UL | SSL |
| YS25-SS27-0415 | Ethylbenzene | UL | SSL |
| YS25-SS27-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS27-0415 | o-Xylene | UL | SSL |
| YS25-SS27-0415 | Bromoform | UL | SSL |
| YS25-SS27-0415 | Styrene | UL | SSL |
| YS25-SS27-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS27-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS27-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SS27-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SS27-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SS27-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SS27-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SS27-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SS27-0415 | Chloroethane | UJ | ICB |
| YS25-SS27-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SS27-0415 | Sodium | B | EBL |
| YS25-SS27-0415 | alpha-BHC | UL | SSL |
| YS25-SS27-0415 | gamma-BHC (Lindane) | UL | SSL |

Yorktown Site 25
Attachment 1 Change Qual. Table
SDG A502126

| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SS27-0415 | beta-BHC | UL | SSL |
| YS25-SS27-0415 | delta-BHC | UL | SSL |
| YS25-SS27-0415 | Heptachlor | UL | SSL |
| YS25-SS27-0415 | Aldrin | UL | SSL |
| YS25-SS27-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SS27-0415 | gamma-Chlordane | UL | SSL |
| YS25-SS27-0415 | alpha-Chlordane | UL | SSL |
| YS25-SS27-0415 | 4,4'-DDE | UL | SSL |
| YS25-SS27-0415 | Endosulfan I | UL | SSL |
| YS25-SS27-0415 | Dieldrin | UL | SSL |
| YS25-SS27-0415 | Endrin | UL | SSL |
| YS25-SS27-0415 | 4,4'-DDD | UL | SSL |
| YS25-SS27-0415 | Endosulfan II | UL | SSL |
| YS25-SS27-0415 | 4,4'-DDT | UL | SSL |
| YS25-SS27-0415 | Endrin aldehyde | UL | SSL |
| YS25-SS27-0415 | Methoxychlor | UL | SSL |
| YS25-SS27-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SS27-0415 | Endrin ketone | UL | SSL |
| YS25-SS27-0415 | Toxaphene | UL | SSL |
| YS25-SS27-0415 | Hexachlorocyclopentadiene | UJ | CCL |
| YS25-SS28-0415 | Acetone | J | ICB |
| YS25-SS28-0415 | 2-Hexanone | UJ | ICB |
| YS25-SS28-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SS28-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SS28-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS28-0415 | Chloromethane | UL | SSL |
| YS25-SS28-0415 | Vinyl chloride | UL | SSL |
| YS25-SS28-0415 | Bromomethane | UL | SSL |
| YS25-SS28-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS28-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SS28-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SS28-0415 | Carbon disulfide | UL | SSL |
| YS25-SS28-0415 | Methylene chloride | UL | SSL |
| YS25-SS28-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SS28-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS28-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SS28-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS28-0415 | 2-Butanone | UJ | ICL |
| YS25-SS28-0415 | Chloroform | UL | SSL |
| YS25-SS28-0415 | Bromochloromethane | UL | SSL |
| YS25-SS28-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS28-0415 | Methyl acetate | UJ | 2S |
| YS25-SS28-0415 | Cyclohexane | UL | SSL |

Yorktown Site 25
Attachment 1 Change Qual. Table
SDG A502126

| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SS28-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS28-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS28-0415 | Benzene | UL | SSL |
| YS25-SS28-0415 | Trichloroethene | UL | SSL |
| YS25-SS28-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS28-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS28-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SS28-0415 | Toluene | UL | SSL |
| YS25-SS28-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS28-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS28-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS28-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS28-0415 | Chlorobenzene | UL | SSL |
| YS25-SS28-0415 | Ethylbenzene | UL | SSL |
| YS25-SS28-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS28-0415 | o-Xylene | UL | SSL |
| YS25-SS28-0415 | Bromoform | UL | SSL |
| YS25-SS28-0415 | Styrene | UL | SSL |
| YS25-SS28-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS28-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS28-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SS28-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SS28-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SS28-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SS28-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SS28-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SS28-0415 | Chloroethane | UJ | ICB |
| YS25-SS28-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SS28-0415 | 2-Amino-4,6-dinitrotoluene | J | 2C |
| YS25-SS28-0415 | 1,3-Dinitrobenzene | UL | SSL |
| YS25-SS28-0415 | 4-Nitrotoluene | UL | SSL |
| YS25-SS28-0415 | HMX | UL | SSL |
| YS25-SS28-0415 | Nitroglycerin | UL | SSL |
| YS25-SS28-0415 | Tetryl | UL | SSL |
| YS25-SS28-0415 | Sodium | B | EBL |
| YS25-SS28-0415 | alpha-BHC | UL | SSL |
| YS25-SS28-0415 | gamma-BHC (Lindane) | UL | SSL |
| YS25-SS28-0415 | beta-BHC | UL | SSL |
| YS25-SS28-0415 | delta-BHC | UL | SSL |
| YS25-SS28-0415 | Heptachlor | UL | SSL |
| YS25-SS28-0415 | Aldrin | UL | SSL |
| YS25-SS28-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SS28-0415 | gamma-Chlordane | UL | SSL |

Yorktown Site 25
Attachment 1 Change Qual. Table
SDG A502126

| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SS28-0415 | alpha-Chlordane | UL | SSL |
| YS25-SS28-0415 | 4,4'-DDE | UL | SSL |
| YS25-SS28-0415 | Endosulfan I | UL | SSL |
| YS25-SS28-0415 | Dieldrin | UL | SSL |
| YS25-SS28-0415 | Endrin | UL | SSL |
| YS25-SS28-0415 | 4,4'-DDD | UL | SSL |
| YS25-SS28-0415 | Endosulfan II | UL | SSL |
| YS25-SS28-0415 | 4,4'-DDT | UL | SSL |
| YS25-SS28-0415 | Endrin aldehyde | UL | SSL |
| YS25-SS28-0415 | Methoxychlor | UL | SSL |
| YS25-SS28-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SS28-0415 | Endrin ketone | UL | SSL |
| YS25-SS28-0415 | Toxaphene | UL | SSL |
| YS25-SS29-0415 | Acetone | J | ICB |
| YS25-SS29-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SS29-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SS29-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SS29-0415 | 2-Butanone | UJ | ICL |
| YS25-SS29-0415 | Methyl acetate | UJ | 2S |
| YS25-SS29-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SS29-0415 | Chloroethane | UJ | ICB |
| YS25-SS29-0415 | 2-Hexanone | UJ | ICB |
| YS25-SS29-0415 | Sodium | B | EBL |
| YS25-SS30-0415 | Acetone | J | ICB |
| YS25-SS30-0415 | Methylcyclohexane | UJ | ICB |
| YS25-SS30-0415 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-SS30-0415 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-SS30-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS30-0415 | Chloromethane | UL | SSL |
| YS25-SS30-0415 | Vinyl chloride | UL | SSL |
| YS25-SS30-0415 | Bromomethane | UL | SSL |
| YS25-SS30-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS30-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SS30-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SS30-0415 | Carbon disulfide | UL | SSL |
| YS25-SS30-0415 | Methylene chloride | UL | SSL |
| YS25-SS30-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SS30-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS30-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SS30-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS30-0415 | 2-Butanone | UJ | ICL |
| YS25-SS30-0415 | Chloroform | UL | SSL |
| YS25-SS30-0415 | Bromochloromethane | UL | SSL |

Yorktown Site 25
Attachment 1 Change Qual. Table
SDG A502126

| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SS30-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS30-0415 | Methyl acetate | UJ | 2S |
| YS25-SS30-0415 | Cyclohexane | UL | SSL |
| YS25-SS30-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS30-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS30-0415 | Benzene | UL | SSL |
| YS25-SS30-0415 | Trichloroethene | UL | SSL |
| YS25-SS30-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS30-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS30-0415 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-SS30-0415 | Toluene | UL | SSL |
| YS25-SS30-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS30-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS30-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS30-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS30-0415 | Chlorobenzene | UL | SSL |
| YS25-SS30-0415 | Ethylbenzene | UL | SSL |
| YS25-SS30-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS30-0415 | o-Xylene | UL | SSL |
| YS25-SS30-0415 | Bromoform | UL | SSL |
| YS25-SS30-0415 | Styrene | UL | SSL |
| YS25-SS30-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS30-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS30-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SS30-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SS30-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SS30-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SS30-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SS30-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SS30-0415 | Chloroethane | UJ | ICB |
| YS25-SS30-0415 | 2-Hexanone | UJ | ICB |
| YS25-SS30-0415 | Sodium | B | EBL |
| YS25-SS30-0415 | alpha-BHC | UL | SSL |
| YS25-SS30-0415 | gamma-BHC (Lindane) | UL | SSL |
| YS25-SS30-0415 | beta-BHC | UL | SSL |
| YS25-SS30-0415 | delta-BHC | UL | SSL |
| YS25-SS30-0415 | Heptachlor | UL | SSL |
| YS25-SS30-0415 | Aldrin | UL | SSL |
| YS25-SS30-0415 | Heptachlor epoxide | UL | SSL |
| YS25-SS30-0415 | gamma-Chlordane | UL | SSL |
| YS25-SS30-0415 | alpha-Chlordane | UL | SSL |
| YS25-SS30-0415 | 4,4'-DDE | UL | SSL |
| YS25-SS30-0415 | Endosulfan I | UL | SSL |

Yorktown Site 25
Attachment 1 Change Qual. Table
SDG A502126

| Sample ID | Compound | Q Flag | Qual Code |
|---|---|---|---|
| YS25-SS30-0415 | Dieldrin | UL | SSL |
| YS25-SS30-0415 | Endrin | UL | SSL |
| YS25-SS30-0415 | 4,4'-DDD | UL | SSL |
| YS25-SS30-0415 | Endosulfan II | UL | SSL |
| YS25-SS30-0415 | 4,4'-DDT | UL | SSL |
| YS25-SS30-0415 | Endrin aldehyde | UL | SSL |
| YS25-SS30-0415 | Methoxychlor | UL | SSL |
| YS25-SS30-0415 | Endosulfan sulfate | UL | SSL |
| YS25-SS30-0415 | Endrin ketone | UL | SSL |
| YS25-SS30-0415 | Toxaphene | UL | SSL |
| YS25-TB01-040715 | Methylcyclohexane | UJ | ICB |
| YS25-TB01-040715 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-TB01-040715 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-TB01-040715 | 2-Butanone | UJ | ICL |
| YS25-TB01-040715 | Methyl acetate | UJ | 2S |
| YS25-TB01-040715 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-TB01-040715 | Chloroethane | UJ | ICB |
| YS25-TB01-040715 | Acetone | UJ | ICB |
| YS25-TB01-040715 | 2-Hexanone | UJ | ICB |
| YS25-TB02-040715 | Methylcyclohexane | UJ | ICB |
| YS25-TB02-040715 | cis-1,3-Dichloropropene | UJ | ICB |
| YS25-TB02-040715 | trans-1,3-Dichloropropene | UJ | ICB |
| YS25-TB02-040715 | 2-Butanone | UJ | ICL |
| YS25-TB02-040715 | Methyl acetate | UJ | 2S |
| YS25-TB02-040715 | 4-Methyl-2-pentanone | UJ | ICL |
| YS25-TB02-040715 | Chloroethane | UJ | ICB |
| YS25-TB02-040715 | Acetone | UJ | ICB |
| YS25-TB02-040715 | 2-Hexanone | UJ | ICB |

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS13-0415

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A502126-01 File ID: 1ds021.D

Sampled: 04/07/15 09:25 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 21:08

Solids: 78.95 Preparation: EPA 3550C_MS Initial/Final: 30.1 g / 1 mL

Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1900 | UDQ | 1700 | 1900 | 2100 |
| 108-95-2 | Phenol | 5 | <630 | UDQ | 630 | 630 | 2100 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1300 | UDQ | 890 | 1300 | 2100 |
| 95-57-8 | 2-Chlorophenol | 5 | <1900 | UDQ | 1500 | 1900 | 2100 |
| 95-48-7 | 2-Methylphenol | 5 | <1300 | UDQ | 700 | 1300 | 2100 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <630 | UDQ | 630 | 630 | 2100 |
| 98-86-2 | Acetophenone UJ-CCL | 5 | <1300 | ~~UDQ~~ | 890 | 1300 | 2100 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1900 | UDQ | 1600 | 1900 | 2100 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1300 | UDQ | 950 | 1300 | 2100 |
| 67-72-1 | Hexachloroethane | 5 | <630 | UDQ | 630 | 630 | 2100 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 5 | ~~<1300~~ | ~~UDQ~~ | 950 | 1300 | 2100 |
| 78-59-1 | Isophorone | 5 | <1300 | UDQ | 1100 | 1300 | 2100 |
| 88-75-5 | 2-Nitrophenol | 5 | <1900 | UDQ | 1600 | 1900 | 2100 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1900 | UDQ | 1500 | 1900 | 2100 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1300 | UDQ | 950 | 1300 | 2100 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1900 | UDQ | 1600 | 1900 | 2100 |
| 106-47-8 | 4-Chloroaniline | 5 | <630 | UDQ | 410 | 630 | 2100 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1900 | UDQ | 1800 | 1900 | 2100 |
| 77-47-4 | Hexachlorocyclopentadiene UJ-CCL | 5 | <1300 | ~~UDQ~~ | 950 | 1300 | 2100 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <630 | UDQ | 630 | 630 | 2100 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1300 | UDQ | 950 | 1300 | 2100 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <630 | UDQ | 420 | 630 | 2100 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <630 | UDQ | 460 | 630 | 2100 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <630 | UDQ | 620 | 630 | 2100 |
| 88-74-4 | 2-Nitroaniline | 5 | <630 | UDQ | 540 | 630 | 2100 |
| 131-11-3 | Dimethylphthalate | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1300~~ | ~~UDQ~~ | 1100 | 1300 | 2100 |
| 99-09-2 | 3-Nitroaniline | 5 | <630 | UDQ | 510 | 630 | 2100 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <630 | UDQ | 560 | 630 | 2100 |
| 100-02-7 | 4-Nitrophenol | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 132-64-9 | Dibenzofuran | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1300~~ | ~~UDQ~~ | 1000 | 1300 | 2100 |



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS13-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-01 | File ID: | 1ds021.D |
| Sampled: | 04/07/15 09:25 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/24/15 21:08 |
| Solids: | 78.95 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D13002 | Sequence: | AA33589 | Calibration: | 1501007 | Instrument: | OSVGCMS1 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1300 | UDQ | 1000 | 1300 | 2100 |
| 84-66-2 | Diethylphthalate | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 100-01-6 | 4-Nitroaniline | 5 | <1900 | UDQ | 1600 | 1900 | 2100 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1900 | UDQ | 1800 | 1900 | 2100 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1900 | UDQ | 1500 | 1900 | 2100 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 118-74-1 | Hexachlorobenzene | 5 | <1300 | UDQ | 760 | 1300 | 2100 |
| 1912-24-9 | Atrazine | 5 | <630 | UDQ | 470 | 630 | 2100 |
| 87-86-5 | Pentachlorophenol | 5 | <1900 | UDQ | 1300 | 1900 | 2100 |
| 86-74-8 | Carbazole | 5 | <1300 | UDQ | 760 | 1300 | 2100 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1300 | UDQ | 890 | 1300 | 2100 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1900 | UDQ | 1300 | 1900 | 2100 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | 2900 | ~~DQ~~ | 820 | 1300 | 2100 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 105-60-2 | Caprolactam | 5 | <1900 | UDQ | 1900 | 1900 | 2100 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | UDQ |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2100 | ND | | 35 - 105 | * |
| Phenol-d5 | 2100 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 2100 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 2100 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 2100 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 2100 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 480264 | 6.996 | 312803 | 6.966 | |
| Naphthalene-d8 | 1542011 | 8.564 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 885642 | 10.771 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1422186 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 319452 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 108402 | 19.243 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS13-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-01RE1
File ID: 1dw020.D
Sampled: 04/07/15 09:25
Prepared: 04/13/15 11:30
Analyzed: 04/28/15 19:34
Solids: 78.95
Preparation: EPA 3550C_MS
Initial/Final: 30.1 g / 1 mL
Batch: 5D13002
Sequence: AA33622
Calibration: 1501007
Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1900 | UDQ | 1700 | 1900 | 2100 |
| 108-95-2 | Phenol | 5 | <630 | UDQ | 630 | 630 | 2100 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1300 | UDQ | 890 | 1300 | 2100 |
| 95-57-8 | 2-Chlorophenol | 5 | <1900 | UDQ | 1500 | 1900 | 2100 |
| 95-48-7 | 2-Methylphenol | 5 | <1300 | UDQ | 700 | 1300 | 2100 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <630 | UDQ | 630 | 630 | 2100 |
| 98-86-2 | Acetophenone | 5 | <1300 | UDQ | 890 | 1300 | 2100 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1900 | UDQ | 1600 | 1900 | 2100 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1300 | UDQ | 950 | 1300 | 2100 |
| 67-72-1 | Hexachloroethane | 5 | <630 | UDQ | 630 | 630 | 2100 |
| 98-95-3 | Nitrobenzene | 5 | <1300 | UDQ | 950 | 1300 | 2100 |
| 78-59-1 | Isophorone | 5 | <1300 | UDQ | 1100 | 1300 | 2100 |
| 88-75-5 | 2-Nitrophenol | 5 | <1900 | UDQ | 1600 | 1900 | 2100 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1900 | UDQ | 1500 | 1900 | 2100 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1300 | UDQ | 950 | 1300 | 2100 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1900 | UDQ | 1600 | 1900 | 2100 |
| 106-47-8 | 4-Chloroaniline | 5 | <630 | UDQ | 410 | 630 | 2100 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1900 | UDQ | 1800 | 1900 | 2100 |
| 77-47-4 | Hexachlorocyclopentadiene | 5 | <1300 | UDQ | 950 | 1300 | 2100 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <630 | UDQ | 630 | 630 | 2100 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1300 | UDQ | 950 | 1300 | 2100 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <630 | UDQ | 420 | 630 | 2100 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <630 | UDQ | 460 | 630 | 2100 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <630 | UDQ | 620 | 630 | 2100 |
| 88-74-4 | 2-Nitroaniline | 5 | <630 | UDQ | 540 | 630 | 2100 |
| 131-11-3 | Dimethylphthalate | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 606-20-2 | 2,6-Dinitrotoluene | 5 | <1300 | UDQ | 1100 | 1300 | 2100 |
| 99-09-2 | 3-Nitroaniline | 5 | <630 | UDQ | 510 | 630 | 2100 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <630 | UDQ | 560 | 630 | 2100 |
| 100-02-7 | 4-Nitrophenol | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 132-64-9 | Dibenzofuran | 5 | <1300 | UDQ | 820 | 1300 | 2100 |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | <1300 | UDQ | 1000 | 1300 | 2100 |


TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

**YS25-SS13-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-01RE1 | File ID: | 1dw020.D |
| Sampled: | 04/07/15 09:25 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/28/15 19:34 |
| Solids: | 78.95 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol EXCLUDE-RE | 5 | <1300 | ~~UDQ~~ | 1000 | 1300 | 2100 |
| 84-66-2 | Diethylphthalate | 5 | <1300 | ~~UDQ~~ | 820 | 1300 | 2100 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1300 | ~~UDQ~~ | 820 | 1300 | 2100 |
| 100-01-6 | 4-Nitroaniline | 5 | <1900 | ~~UDQ~~ | 1600 | 1900 | 2100 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1900 | ~~UDQ~~ | 1800 | 1900 | 2100 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1900 | ~~UDQ~~ | 1500 | 1900 | 2100 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1300 | ~~UDQ~~ | 820 | 1300 | 2100 |
| 118-74-1 | Hexachlorobenzene | 5 | <1300 | ~~UDQ~~ | 760 | 1300 | 2100 |
| 1912-24-9 | Atrazine | 5 | <630 | ~~UDQ~~ | 470 | 630 | 2100 |
| 87-86-5 | Pentachlorophenol | 5 | <1900 | ~~UDQ~~ | 1300 | 1900 | 2100 |
| 86-74-8 | Carbazole | 5 | <1300 | ~~UDQ~~ | 760 | 1300 | 2100 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1300 | ~~UDQ~~ | 820 | 1300 | 2100 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1300 | ~~UDQ~~ | 890 | 1300 | 2100 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1900 | ~~UDQ~~ | 1300 | 1900 | 2100 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | 4900 | ~~DQ~~ | 820 | 1300 | 2100 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1300 | ~~UDQ~~ | 820 | 1300 | 2100 |
| 105-60-2 | Caprolactam | 5 | <1900 | ~~UDQ~~ | 1900 | 1900 | 2100 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2100 | ND | | 35 - 105 | * |
| Phenol-d5 | 2100 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 2100 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 2100 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 2100 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 2100 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 468311 | 6.926 | 312803 | 6.966 | |
| Naphthalene-d8 | 1538960 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 938847 | 10.697 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1552053 | 12.575 | 1098576 | 12.637 | |
| Chrysene-d12 | 203937 | 16.165 | 565336 | 16.253 | * |
| Perylene-d12 | 55567 | 19.133 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB13-0H02-0415

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil | Laboratory ID: A502126-02 | File ID: 1ds022.D

Sampled: 04/07/15 09:35 | Prepared: 04/13/15 11:30 | Analyzed: 04/24/15 21:37

Solids: 80.67 | Preparation: EPA 3550C_MS | Initial/Final: 30.2 g / 1 mL

Batch: 5D13002 | Sequence: AA33589 | Calibration: 1501007 | Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1900 | UDQ | 1700 | 1900 | 2000 |
| 108-95-2 | Phenol | 5 | <620 | UDQ | 610 | 620 | 2000 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1200 | UDQ | 870 | 1200 | 2000 |
| 95-57-8 | 2-Chlorophenol | 5 | <1900 | UDQ | 1400 | 1900 | 2000 |
| 95-48-7 | 2-Methylphenol | 5 | <1200 | UDQ | 680 | 1200 | 2000 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <620 | UDQ | 610 | 620 | 2000 |
| 98-86-2 | Acetophenone UJ-CCL | 5 | <1200 | ~~UDQ~~ | 870 | 1200 | 2000 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1900 | UDQ | 1500 | 1900 | 2000 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1200 | UDQ | 930 | 1200 | 2000 |
| 67-72-1 | Hexachloroethane | 5 | <620 | UDQ | 620 | 620 | 2000 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 930 | 1200 | 2000 |
| 78-59-1 | Isophorone UJ-ISL | 5 | <1200 | UDQ | 1100 | 1200 | 2000 |
| 88-75-5 | 2-Nitrophenol | 5 | <1900 | UDQ | 1600 | 1900 | 2000 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1900 | UDQ | 1400 | 1900 | 2000 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1200 | UDQ | 930 | 1200 | 2000 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1900 | UDQ | 1500 | 1900 | 2000 |
| 106-47-8 | 4-Chloroaniline | 5 | <620 | UDQ | 400 | 620 | 2000 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1900 | UDQ | 1700 | 1900 | 2000 |
| 77-47-4 | Hexachlorocyclopentadiene UJ-CCL | 5 | <1200 | ~~UDQ~~ | 930 | 1200 | 2000 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <620 | UDQ | 610 | 620 | 2000 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1200 | UDQ | 930 | 1200 | 2000 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <620 | UDQ | 410 | 620 | 2000 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <620 | UDQ | 450 | 620 | 2000 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <620 | UDQ | 610 | 620 | 2000 |
| 88-74-4 | 2-Nitroaniline | 5 | <620 | UDQ | 530 | 620 | 2000 |
| 131-11-3 | Dimethylphthalate | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 1100 | 1200 | 2000 |
| 99-09-2 | 3-Nitroaniline | 5 | <620 | UDQ | 500 | 620 | 2000 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <620 | UDQ | 550 | 620 | 2000 |
| 100-02-7 | 4-Nitrophenol | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 132-64-9 | Dibenzofuran | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 990 | 1200 | 2000 |



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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB13-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-02 | File ID: | 1ds022.D |
| Sampled: | 04/07/15 09:35 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/24/15 21:37 |
| Solids: | 80.67 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.2 g / 1 mL |

Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1200 | UDQ | 990 | 1200 | 2000 |
| 84-66-2 | Diethylphthalate | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 100-01-6 | 4-Nitroaniline | 5 | <1900 | UDQ | 1600 | 1900 | 2000 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1900 | UDQ | 1700 | 1900 | 2000 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1900 | UDQ | 1400 | 1900 | 2000 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 118-74-1 | Hexachlorobenzene | 5 | <1200 | UDQ | 740 | 1200 | 2000 |
| 1912-24-9 | Atrazine | 5 | <620 | UDQ | 460 | 620 | 2000 |
| 87-86-5 | Pentachlorophenol | 5 | <1900 | UDQ | 1300 | 1900 | 2000 |
| 86-74-8 | Carbazole | 5 | <1200 | UDQ | 740 | 1200 | 2000 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1200 | UDQ | 870 | 1200 | 2000 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1900 | UDQ | 1300 | 1900 | 2000 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | 5100 | ~~DQ~~ | 810 | 1200 | 2000 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 105-60-2 | Caprolactam | 5 | <1900 | UDQ | 1900 | 1900 | 2000 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | UDQ |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2050 | ND | | 35 - 105 | * |
| Phenol-d5 | 2050 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 2050 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 2050 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 2050 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 2050 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 367553 | 7.006 | 312803 | 6.966 | |
| Naphthalene-d8 | 459623 | 8.583 | 1202138 | 8.546 | * |
| Acenaphthene-d10 | 819374 | 10.771 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1370356 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 458244 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 127270 | 19.243 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB13-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-02RE1
File ID: 1dw021.D
Sampled: 04/07/15 09:35
Prepared: 04/13/15 11:30
Analyzed: 04/28/15 20:03
Solids: 80.67
Preparation: EPA 3550C_MS
Initial/Final: 30.2 g / 1 mL
Batch: 5D13002
Sequence: AA33622
Calibration: 1501007
Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1900 | UDQ | 1700 | 1900 | 2000 |
| 108-95-2 | Phenol | 5 | <620 | UDQ | 610 | 620 | 2000 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1200 | UDQ | 870 | 1200 | 2000 |
| 95-57-8 | 2-Chlorophenol | 5 | <1900 | UDQ | 1400 | 1900 | 2000 |
| 95-48-7 | 2-Methylphenol | 5 | <1200 | UDQ | 680 | 1200 | 2000 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <620 | UDQ | 610 | 620 | 2000 |
| 98-86-2 | Acetophenone | 5 | <1200 | UDQ | 870 | 1200 | 2000 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1900 | UDQ | 1500 | 1900 | 2000 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1200 | UDQ | 930 | 1200 | 2000 |
| 67-72-1 | Hexachloroethane | 5 | <620 | UDQ | 620 | 620 | 2000 |
| 98-95-3 | Nitrobenzene | 5 | <1200 | UDQ | 930 | 1200 | 2000 |
| 78-59-1 | Isophorone | 5 | <1200 | UDQ | 1100 | 1200 | 2000 |
| 88-75-5 | 2-Nitrophenol | 5 | <1900 | UDQ | 1600 | 1900 | 2000 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1900 | UDQ | 1400 | 1900 | 2000 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1200 | UDQ | 930 | 1200 | 2000 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1900 | UDQ | 1500 | 1900 | 2000 |
| 106-47-8 | 4-Chloroaniline | 5 | <620 | UDQ | 400 | 620 | 2000 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1900 | UDQ | 1700 | 1900 | 2000 |
| 77-47-4 | Hexachlorocyclopentadiene | 5 | <1200 | UDQ | 930 | 1200 | 2000 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <620 | UDQ | 610 | 620 | 2000 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1200 | UDQ | 930 | 1200 | 2000 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <620 | UDQ | 410 | 620 | 2000 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <620 | UDQ | 450 | 620 | 2000 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <620 | UDQ | 610 | 620 | 2000 |
| 88-74-4 | 2-Nitroaniline | 5 | <620 | UDQ | 530 | 620 | 2000 |
| 131-11-3 | Dimethylphthalate | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 606-20-2 | 2,6-Dinitrotoluene | 5 | <1200 | UDQ | 1100 | 1200 | 2000 |
| 99-09-2 | 3-Nitroaniline | 5 | <620 | UDQ | 500 | 620 | 2000 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <620 | UDQ | 550 | 620 | 2000 |
| 100-02-7 | 4-Nitrophenol | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 132-64-9 | Dibenzofuran | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | <1200 | UDQ | 990 | 1200 | 2000 |


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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB13-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-02RE1 | File ID: | 1dw021.D |
| Sampled: | 04/07/15 09:35 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/28/15 20:03 |
| Solids: | 80.67 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.2 g / 1 mL |

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol EXCLUDE-RE | 5 | <1200 | UDQ | 990 | 1200 | 2000 |
| 84-66-2 | Diethylphthalate | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 100-01-6 | 4-Nitroaniline | 5 | <1900 | UDQ | 1600 | 1900 | 2000 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1900 | UDQ | 1700 | 1900 | 2000 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1900 | UDQ | 1400 | 1900 | 2000 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 118-74-1 | Hexachlorobenzene | 5 | <1200 | UDQ | 740 | 1200 | 2000 |
| 1912-24-9 | Atrazine | 5 | <620 | UDQ | 460 | 620 | 2000 |
| 87-86-5 | Pentachlorophenol | 5 | <1900 | UDQ | 1300 | 1900 | 2000 |
| 86-74-8 | Carbazole | 5 | <1200 | UDQ | 740 | 1200 | 2000 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1200 | UDQ | 870 | 1200 | 2000 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1900 | UDQ | 1300 | 1900 | 2000 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | 6800 | ~~DQ~~ | 810 | 1200 | 2000 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1200 | UDQ | 810 | 1200 | 2000 |
| 105-60-2 | Caprolactam | 5 | <1900 | UDQ | 1900 | 1900 | 2000 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2050 | ND | | 35 - 105 | * |
| Phenol-d5 | 2050 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 2050 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 2050 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 2050 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 2050 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 436478 | 6.926 | 312803 | 6.966 | |
| Naphthalene-d8 | 503424 | 8.518 | 1202138 | 8.546 | * |
| Acenaphthene-d10 | 997861 | 10.697 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1654529 | 12.576 | 1098576 | 12.637 | |
| Chrysene-d12 | 346613 | 16.165 | 565336 | 16.253 | |
| Perylene-d12 | 79913 | 19.133 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB13-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-02RE2
File ID: 1dx027.D
Sampled: 04/07/15 09:35
Prepared: 04/13/15 11:30
Analyzed: 04/29/15 20:23
Solids: 80.67
Preparation: EPA 3550C_MS
Initial/Final: 30.2 g / 1 mL
Batch: 5D13002
Sequence: AA33648
Calibration: 1501007
Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 20 | <7400 | UDQ | 6700 | 7400 | 8200 |
| 108-95-2 | Phenol | 20 | <2500 | UDQ | 2500 | 2500 | 8200 |
| 111-44-4 | Bis(2-chloroethyl)ether | 20 | <5000 | UDQ | 3500 | 5000 | 8200 |
| 95-57-8 | 2-Chlorophenol | 20 | <7400 | UDQ | 5700 | 7400 | 8200 |
| 95-48-7 | 2-Methylphenol | 20 | <5000 | UDQ | 2700 | 5000 | 8200 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 20 | <2500 | UDQ | 2500 | 2500 | 8200 |
| 98-86-2 | Acetophenone | 20 | <5000 | UDQ | 3500 | 5000 | 8200 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 20 | <7400 | UDQ | 6200 | 7400 | 8200 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 20 | <5000 | UDQ | 3700 | 5000 | 8200 |
| 67-72-1 | Hexachloroethane | 20 | <2500 | UDQ | 2500 | 2500 | 8200 |
| 98-95-3 | Nitrobenzene | 20 | <5000 | UDQ | 3700 | 5000 | 8200 |
| 78-59-1 | Isophorone | 20 | <5000 | UDQ | 4200 | 5000 | 8200 |
| 88-75-5 | 2-Nitrophenol | 20 | <7400 | UDQ | 6400 | 7400 | 8200 |
| 105-67-9 | 2,4-Dimethylphenol | 20 | <7400 | UDQ | 5700 | 7400 | 8200 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 20 | <5000 | UDQ | 3700 | 5000 | 8200 |
| 120-83-2 | 2,4-Dichlorophenol | 20 | <7400 | UDQ | 6200 | 7400 | 8200 |
| 106-47-8 | 4-Chloroaniline | 20 | <2500 | UDQ | 1600 | 2500 | 8200 |
| 87-68-3 | Hexachlorobutadiene | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 59-50-7 | 4-Chloro-3-methylphenol | 20 | <7400 | UDQ | 6900 | 7400 | 8200 |
| 77-47-4 | Hexachlorocyclopentadiene | 20 | <5000 | UDQ | 3700 | 5000 | 8200 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 20 | <2500 | UDQ | 2500 | 2500 | 8200 |
| 88-06-2 | 2,4,6-Trichlorophenol | 20 | <5000 | UDQ | 3700 | 5000 | 8200 |
| 95-95-4 | 2,4,5-Trichlorophenol | 20 | <2500 | UDQ | 1700 | 2500 | 8200 |
| 92-52-4 | 1,1'-Biphenyl | 20 | <2500 | UDQ | 1800 | 2500 | 8200 |
| 91-58-7 | 2-Chloronaphthalene | 20 | <2500 | UDQ | 2400 | 2500 | 8200 |
| 88-74-4 | 2-Nitroaniline | 20 | <2500 | UDQ | 2100 | 2500 | 8200 |
| 131-11-3 | Dimethylphthalate | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 606-20-2 | 2,6-Dinitrotoluene | 20 | <5000 | UDQ | 4500 | 5000 | 8200 |
| 99-09-2 | 3-Nitroaniline | 20 | <2500 | UDQ | 2000 | 2500 | 8200 |
| 51-28-5 | 2,4-Dinitrophenol | 20 | <2500 | UDQ | 2200 | 2500 | 8200 |
| 100-02-7 | 4-Nitrophenol | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 132-64-9 | Dibenzofuran | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | <5000 | UDQ | 4000 | 5000 | 8200 |


TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB13-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-02RE2 | File ID: | 1dx027.D |
| Sampled: | 04/07/15 09:35 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/29/15 20:23 |
| Solids: | 80.67 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.2 g / 1 mL |

Batch: 5D13002 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol EXCLUDE-RE | 20 | <5000 | UDQ | 4000 | 5000 | 8200 |
| 84-66-2 | Diethylphthalate | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 100-01-6 | 4-Nitroaniline | 20 | <7400 | UDQ | 6400 | 7400 | 8200 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 20 | <7400 | UDQ | 6900 | 7400 | 8200 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 20 | <7400 | UDQ | 5700 | 7400 | 8200 |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 118-74-1 | Hexachlorobenzene | 20 | <5000 | UDQ | 3000 | 5000 | 8200 |
| 1912-24-9 | Atrazine | 20 | <2500 | UDQ | 1800 | 2500 | 8200 |
| 87-86-5 | Pentachlorophenol | 20 | <7400 | UDQ | 5200 | 7400 | 8200 |
| 86-74-8 | Carbazole | 20 | <5000 | UDQ | 3000 | 5000 | 8200 |
| 84-74-2 | Di-n-butylphthalate | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 85-68-7 | Butylbenzylphthalate | 20 | <5000 | UDQ | 3500 | 5000 | 8200 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | <7400 | UDQ | 5200 | 7400 | 8200 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 20 | 3800 | JDQ | 3200 | 5000 | 8200 |
| 117-84-0 | Di-n-octylphthalate | 20 | <5000 | UDQ | 3200 | 5000 | 8200 |
| 105-60-2 | Caprolactam | 20 | <7400 | UDQ | 7400 | 7400 | 8200 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2050 | ND | | 35 - 105 | * |
| Phenol-d5 | 2050 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 2050 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 2050 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 2050 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 2050 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 382131 | 6.796 | 312803 | 6.966 | |
| Naphthalene-d8 | 950932 | 8.369 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 760559 | 10.557 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1289038 | 12.439 | 1098576 | 12.637 | |
| Chrysene-d12 | 757906 | 15.977 | 565336 | 16.253 | |
| Perylene-d12 | 258772 | 18.912 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS20-0415

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A502126-03 File ID: 1ds023.D

Sampled: 04/07/15 10:00 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 22:07

Solids: 66.02 Preparation: EPA 3550C_MS Initial/Final: 30.2 g / 1 mL

Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <2300 | UDQ | 2000 | 2300 | 2500 |
| 108-95-2 | Phenol | 5 | <760 | UDQ | 750 | 760 | 2500 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 95-57-8 | 2-Chlorophenol | 5 | <2300 | UDQ | 1700 | 2300 | 2500 |
| 95-48-7 | 2-Methylphenol | 5 | <1500 | UDQ | 830 | 1500 | 2500 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <760 | UDQ | 750 | 760 | 2500 |
| 98-86-2 | Acetophenone UJ-CCL | 5 | <1500 | ~~UDQ~~ | 1100 | 1500 | 2500 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <2300 | UDQ | 1900 | 2300 | 2500 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 67-72-1 | Hexachloroethane | 5 | <760 | UDQ | 760 | 760 | 2500 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 5 | ~~<1500~~ | ~~UDQ~~ | 1100 | 1500 | 2500 |
| 78-59-1 | Isophorone | 5 | <1500 | UDQ | 1300 | 1500 | 2500 |
| 88-75-5 | 2-Nitrophenol | 5 | <2300 | UDQ | 2000 | 2300 | 2500 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <2300 | UDQ | 1700 | 2300 | 2500 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <2300 | UDQ | 1900 | 2300 | 2500 |
| 106-47-8 | 4-Chloroaniline | 5 | <760 | UDQ | 490 | 760 | 2500 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <2300 | UDQ | 2100 | 2300 | 2500 |
| 77-47-4 | Hexachlorocyclopentadiene UJ-CCL | 5 | <1500 | ~~UDQ~~ | 1100 | 1500 | 2500 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <760 | UDQ | 750 | 760 | 2500 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <760 | UDQ | 510 | 760 | 2500 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <760 | UDQ | 550 | 760 | 2500 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <760 | UDQ | 740 | 760 | 2500 |
| 88-74-4 | 2-Nitroaniline | 5 | <760 | UDQ | 640 | 760 | 2500 |
| 131-11-3 | Dimethylphthalate | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1500~~ | ~~UDQ~~ | 1400 | 1500 | 2500 |
| 99-09-2 | 3-Nitroaniline | 5 | <760 | UDQ | 610 | 760 | 2500 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <760 | UDQ | 670 | 760 | 2500 |
| 100-02-7 | 4-Nitrophenol | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 132-64-9 | Dibenzofuran | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1500~~ | ~~UDQ~~ | 1200 | 1500 | 2500 |



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS20-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-03 | File ID: | 1ds023.D |
| Sampled: | 04/07/15 10:00 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/24/15 22:07 |
| Solids: | 66.02 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.2 g / 1 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D13002 | Sequence: | AA33589 | Calibration: | 1501007 | Instrument: | OSVGCMS1 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1500 | UDQ | 1200 | 1500 | 2500 |
| 84-66-2 | Diethylphthalate | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 100-01-6 | 4-Nitroaniline | 5 | <2300 | UDQ | 2000 | 2300 | 2500 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <2300 | UDQ | 2100 | 2300 | 2500 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <2300 | UDQ | 1700 | 2300 | 2500 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 118-74-1 | Hexachlorobenzene | 5 | <1500 | UDQ | 910 | 1500 | 2500 |
| 1912-24-9 | Atrazine | 5 | <760 | UDQ | 560 | 760 | 2500 |
| 87-86-5 | Pentachlorophenol | 5 | <2300 | UDQ | 1600 | 2300 | 2500 |
| 86-74-8 | Carbazole | 5 | <1500 | UDQ | 910 | 1500 | 2500 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <2300 | UDQ | 1600 | 2300 | 2500 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | 1200 | JDQ | 980 | 1500 | 2500 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 105-60-2 | Caprolactam | 5 | <2300 | UDQ | 2300 | 2300 | 2500 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | UDQ |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2510 | ND | | 35 - 105 | * |
| Phenol-d5 | 2510 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 2510 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 2510 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 2510 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 2510 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 447057 | 6.996 | 312803 | 6.966 | |
| Naphthalene-d8 | 1610428 | 8.564 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 850149 | 10.771 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1383033 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 380332 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 98060 | 19.252 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS20-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-03RE1
File ID: 1dw022.D
Sampled: 04/07/15 10:00
Prepared: 04/13/15 11:30
Analyzed: 04/28/15 20:33
Solids: 66.02
Preparation: EPA 3550C_MS
Initial/Final: 30.2 g / 1 mL
Batch: 5D13002
Sequence: AA33622
Calibration: 1501007
Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <2300 | UDQ | 2000 | 2300 | 2500 |
| 108-95-2 | Phenol | 5 | <760 | UDQ | 750 | 760 | 2500 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 95-57-8 | 2-Chlorophenol | 5 | <2300 | UDQ | 1700 | 2300 | 2500 |
| 95-48-7 | 2-Methylphenol | 5 | <1500 | UDQ | 830 | 1500 | 2500 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <760 | UDQ | 750 | 760 | 2500 |
| 98-86-2 | Acetophenone | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <2300 | UDQ | 1900 | 2300 | 2500 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 67-72-1 | Hexachloroethane | 5 | <760 | UDQ | 760 | 760 | 2500 |
| 98-95-3 | Nitrobenzene | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 78-59-1 | Isophorone | 5 | <1500 | UDQ | 1300 | 1500 | 2500 |
| 88-75-5 | 2-Nitrophenol | 5 | <2300 | UDQ | 2000 | 2300 | 2500 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <2300 | UDQ | 1700 | 2300 | 2500 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <2300 | UDQ | 1900 | 2300 | 2500 |
| 106-47-8 | 4-Chloroaniline | 5 | <760 | UDQ | 490 | 760 | 2500 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <2300 | UDQ | 2100 | 2300 | 2500 |
| 77-47-4 | Hexachlorocyclopentadiene | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <760 | UDQ | 750 | 760 | 2500 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <760 | UDQ | 510 | 760 | 2500 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <760 | UDQ | 550 | 760 | 2500 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <760 | UDQ | 740 | 760 | 2500 |
| 88-74-4 | 2-Nitroaniline | 5 | <760 | UDQ | 640 | 760 | 2500 |
| 131-11-3 | Dimethylphthalate | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 606-20-2 | 2,6-Dinitrotoluene | 5 | <1500 | UDQ | 1400 | 1500 | 2500 |
| 99-09-2 | 3-Nitroaniline | 5 | <760 | UDQ | 610 | 760 | 2500 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <760 | UDQ | 670 | 760 | 2500 |
| 100-02-7 | 4-Nitrophenol | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 132-64-9 | Dibenzofuran | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | <1500 | UDQ | 1200 | 1500 | 2500 |


TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

**YS25-SS20-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-03RE1 | File ID: | 1dw022.D |
| Sampled: | 04/07/15 10:00 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/28/15 20:33 |
| Solids: | 66.02 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.2 g / 1 mL |

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1500 | UDQ | 1200 | 1500 | 2500 |
| 84-66-2 | Diethylphthalate | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 100-01-6 | 4-Nitroaniline | 5 | <2300 | UDQ | 2000 | 2300 | 2500 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <2300 | UDQ | 2100 | 2300 | 2500 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <2300 | UDQ | 1700 | 2300 | 2500 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 118-74-1 | Hexachlorobenzene | 5 | <1500 | UDQ | 910 | 1500 | 2500 |
| 1912-24-9 | Atrazine | 5 | <760 | UDQ | 560 | 760 | 2500 |
| 87-86-5 | Pentachlorophenol | 5 | <2300 | UDQ | 1600 | 2300 | 2500 |
| 86-74-8 | Carbazole | 5 | <1500 | UDQ | 910 | 1500 | 2500 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1500 | UDQ | 1100 | 1500 | 2500 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <2300 | UDQ | 1600 | 2300 | 2500 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | 1400 | JDQ | 980 | 1500 | 2500 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1500 | UDQ | 980 | 1500 | 2500 |
| 105-60-2 | Caprolactam | 5 | <2300 | UDQ | 2300 | 2300 | 2500 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2510 | ND | | 35 - 105 | * |
| Phenol-d5 | 2510 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 2510 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 2510 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 2510 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 2510 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 419732 | 6.916 | 312803 | 6.966 | |
| Naphthalene-d8 | 1532111 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 884433 | 10.697 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1516580 | 12.575 | 1098576 | 12.637 | |
| Chrysene-d12 | 274060 | 16.165 | 565336 | 16.253 | * |
| Perylene-d12 | 65410 | 19.133 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB20-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-04
File ID: 1ds024.D
Sampled: 04/07/15 10:10
Prepared: 04/13/15 11:30
Analyzed: 04/24/15 22:36
Solids: 88.28
Preparation: EPA 3550C_MS
Initial/Final: 30.1 g / 1 mL
Batch: 5D13002
Sequence: AA33589
Calibration: 1501007
Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 108-95-2 | Phenol | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1100 | UDQ | 790 | 1100 | 1900 |
| 95-57-8 | 2-Chlorophenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 95-48-7 | 2-Methylphenol | 5 | <1100 | UDQ | 620 | 1100 | 1900 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 98-86-2 | Acetophenone UJ-CCL | 5 | <1100 | ~~UDQ~~ | 790 | 1100 | 1900 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1700 | UDQ | 1400 | 1700 | 1900 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1100 | UDQ | 850 | 1100 | 1900 |
| 67-72-1 | Hexachloroethane | 5 | <570 | UDQ | 570 | 570 | 1900 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 5 | ~~<1100~~ | ~~UDQ~~ | 850 | 1100 | 1900 |
| 78-59-1 | Isophorone | 5 | <1100 | UDQ | 960 | 1100 | 1900 |
| 88-75-5 | 2-Nitrophenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1100 | UDQ | 850 | 1100 | 1900 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1700 | UDQ | 1400 | 1700 | 1900 |
| 106-47-8 | 4-Chloroaniline | 5 | <570 | UDQ | 370 | 570 | 1900 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 77-47-4 | Hexachlorocyclopentadiene UJ-CCL | 5 | <1100 | ~~UDQ~~ | 850 | 1100 | 1900 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1100 | UDQ | 850 | 1100 | 1900 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <570 | UDQ | 380 | 570 | 1900 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <570 | UDQ | 410 | 570 | 1900 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 88-74-4 | 2-Nitroaniline | 5 | <570 | UDQ | 480 | 570 | 1900 |
| 131-11-3 | Dimethylphthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1100~~ | ~~UDQ~~ | 1000 | 1100 | 1900 |
| 99-09-2 | 3-Nitroaniline | 5 | <570 | UDQ | 450 | 570 | 1900 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <570 | UDQ | 500 | 570 | 1900 |
| 100-02-7 | 4-Nitrophenol | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 132-64-9 | Dibenzofuran | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1100~~ | ~~UDQ~~ | 910 | 1100 | 1900 |


TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB20-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-04 | File ID: | 1ds024.D |
| Sampled: | 04/07/15 10:10 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/24/15 22:36 |
| Solids: | 88.28 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1100 | UDQ | 910 | 1100 | 1900 |
| 84-66-2 | Diethylphthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 100-01-6 | 4-Nitroaniline | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 118-74-1 | Hexachlorobenzene | 5 | <1100 | UDQ | 680 | 1100 | 1900 |
| 1912-24-9 | Atrazine | 5 | <570 | UDQ | 420 | 570 | 1900 |
| 87-86-5 | Pentachlorophenol | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 86-74-8 | Carbazole | 5 | <1100 | UDQ | 680 | 1100 | 1900 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1100 | UDQ | 790 | 1100 | 1900 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 105-60-2 | Caprolactam | 5 | <1700 | UDQ | 1700 | 1700 | 1900 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | UDQ |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1880 | ND | | 35 - 105 | * |
| Phenol-d5 | 1880 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 1880 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 1880 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 1880 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 1880 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 417096 | 6.996 | 312803 | 6.966 | |
| Naphthalene-d8 | 1540217 | 8.564 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 818451 | 10.771 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1370223 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 386946 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 141135 | 19.243 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB20-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-04RE1
File ID: 1dw023.D
Sampled: 04/07/15 10:10
Prepared: 04/13/15 11:30
Analyzed: 04/28/15 21:03
Solids: 88.28
Preparation: EPA 3550C_MS
Initial/Final: 30.1 g / 1 mL
Batch: 5D13002
Sequence: AA33622
Calibration: 1501007
Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 108-95-2 | Phenol | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1100 | UDQ | 790 | 1100 | 1900 |
| 95-57-8 | 2-Chlorophenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 95-48-7 | 2-Methylphenol | 5 | <1100 | UDQ | 620 | 1100 | 1900 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 98-86-2 | Acetophenone | 5 | <1100 | UDQ | 790 | 1100 | 1900 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1700 | UDQ | 1400 | 1700 | 1900 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1100 | UDQ | 850 | 1100 | 1900 |
| 67-72-1 | Hexachloroethane | 5 | <570 | UDQ | 570 | 570 | 1900 |
| 98-95-3 | Nitrobenzene | 5 | <1100 | UDQ | 850 | 1100 | 1900 |
| 78-59-1 | Isophorone | 5 | <1100 | UDQ | 960 | 1100 | 1900 |
| 88-75-5 | 2-Nitrophenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1100 | UDQ | 850 | 1100 | 1900 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1700 | UDQ | 1400 | 1700 | 1900 |
| 106-47-8 | 4-Chloroaniline | 5 | <570 | UDQ | 370 | 570 | 1900 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 77-47-4 | Hexachlorocyclopentadiene | 5 | <1100 | UDQ | 850 | 1100 | 1900 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1100 | UDQ | 850 | 1100 | 1900 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <570 | UDQ | 380 | 570 | 1900 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <570 | UDQ | 410 | 570 | 1900 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 88-74-4 | 2-Nitroaniline | 5 | <570 | UDQ | 480 | 570 | 1900 |
| 131-11-3 | Dimethylphthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 606-20-2 | 2,6-Dinitrotoluene | 5 | <1100 | UDQ | 1000 | 1100 | 1900 |
| 99-09-2 | 3-Nitroaniline | 5 | <570 | UDQ | 450 | 570 | 1900 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <570 | UDQ | 500 | 570 | 1900 |
| 100-02-7 | 4-Nitrophenol | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 132-64-9 | Dibenzofuran | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | <1100 | UDQ | 910 | 1100 | 1900 |



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB20-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-04RE1 | File ID: | 1dw023.D |
| Sampled: | 04/07/15 10:10 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/28/15 21:03 |
| Solids: | 88.28 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1100 | UDQ | 910 | 1100 | 1900 |
| 84-66-2 | Diethylphthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 100-01-6 | 4-Nitroaniline | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 118-74-1 | Hexachlorobenzene | 5 | <1100 | UDQ | 680 | 1100 | 1900 |
| 1912-24-9 | Atrazine | 5 | <570 | UDQ | 420 | 570 | 1900 |
| 87-86-5 | Pentachlorophenol | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 86-74-8 | Carbazole | 5 | <1100 | UDQ | 680 | 1100 | 1900 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1100 | UDQ | 790 | 1100 | 1900 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1100 | UDQ | 740 | 1100 | 1900 |
| 105-60-2 | Caprolactam | 5 | <1700 | UDQ | 1700 | 1700 | 1900 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1880 | ND | | 35 - 105 | * |
| Phenol-d5 | 1880 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 1880 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 1880 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 1880 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 1880 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 540715 | 6.916 | 312803 | 6.966 | |
| Naphthalene-d8 | 2071337 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 1111981 | 10.697 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1788079 | 12.576 | 1098576 | 12.637 | |
| Chrysene-d12 | 360907 | 16.165 | 565336 | 16.253 | |
| Perylene-d12 | 89801 | 19.133 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS21-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-05
File ID: 1dw024.D
Sampled: 04/07/15 10:30
Prepared: 04/13/15 11:30
Analyzed: 04/28/15 21:32
Solids: 85.78
Preparation: EPA 3550C_MS
Initial/Final: 30 g / 1 mL
Batch: 5D13002
Sequence: AA33622
Calibration: 1501007
Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 108-95-2 | Phenol | 5 | <580 | UDQ | 580 | 580 | 1900 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1200 | UDQ | 820 | 1200 | 1900 |
| 95-57-8 | 2-Chlorophenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 95-48-7 | 2-Methylphenol | 5 | <1200 | UDQ | 640 | 1200 | 1900 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <580 | UDQ | 580 | 580 | 1900 |
| 98-86-2 | Acetophenone | 5 | <1200 | UDQ | 820 | 1200 | 1900 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1200 | UDQ | 870 | 1200 | 1900 |
| 67-72-1 | Hexachloroethane | 5 | <580 | UDQ | 580 | 580 | 1900 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 870 | 1200 | 1900 |
| 78-59-1 | Isophorone | 5 | <1200 | UDQ | 990 | 1200 | 1900 |
| 88-75-5 | 2-Nitrophenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1200 | UDQ | 870 | 1200 | 1900 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 106-47-8 | 4-Chloroaniline | 5 | <580 | UDQ | 380 | 580 | 1900 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 77-47-4 | Hexachlorocyclopentadiene UJ-CCL | 5 | <1200 | ~~UDQ~~ | 870 | 1200 | 1900 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <580 | UDQ | 580 | 580 | 1900 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1200 | UDQ | 870 | 1200 | 1900 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <580 | UDQ | 390 | 580 | 1900 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <580 | UDQ | 430 | 580 | 1900 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <580 | UDQ | 570 | 580 | 1900 |
| 88-74-4 | 2-Nitroaniline | 5 | <580 | UDQ | 500 | 580 | 1900 |
| 131-11-3 | Dimethylphthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 1000 | 1200 | 1900 |
| 99-09-2 | 3-Nitroaniline | 5 | <580 | UDQ | 470 | 580 | 1900 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <580 | UDQ | 520 | 580 | 1900 |
| 100-02-7 | 4-Nitrophenol | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 132-64-9 | Dibenzofuran | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 930 | 1200 | 1900 |


TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS21-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-05 | File ID: | 1dw024.D |
| Sampled: | 04/07/15 10:30 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/28/15 21:32 |
| Solids: | 85.78 | Preparation: | EPA 3550C_MS | Initial/Final: | 30 g / 1 mL |

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1200 | UDQ | 930 | 1200 | 1900 |
| 84-66-2 | Diethylphthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 100-01-6 | 4-Nitroaniline | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 118-74-1 | Hexachlorobenzene | 5 | <1200 | UDQ | 700 | 1200 | 1900 |
| 1912-24-9 | Atrazine | 5 | <580 | UDQ | 430 | 580 | 1900 |
| 87-86-5 | Pentachlorophenol | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 86-74-8 | Carbazole | 5 | <1200 | UDQ | 700 | 1200 | 1900 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1200 | UDQ | 820 | 1200 | 1900 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 105-60-2 | Caprolactam | 5 | <1700 | UDQ | 1700 | 1700 | 1900 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | UDQ |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1940 | ND | | 35 - 105 | * |
| Phenol-d5 | 1940 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 1940 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 1940 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 1940 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 1940 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 478322 | 6.916 | 312803 | 6.966 | |
| Naphthalene-d8 | 1814684 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 974917 | 10.697 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1637705 | 12.575 | 1098576 | 12.637 | |
| Chrysene-d12 | 314479 | 16.165 | 565336 | 16.253 | |
| Perylene-d12 | 80276 | 19.133 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB21-0H02-0415

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil | Laboratory ID: A502126-06 | File ID: 1ds016.D

Sampled: 04/07/15 10:40 | Prepared: 04/13/15 11:30 | Analyzed: 04/24/15 18:40

Solids: 86.94 | Preparation: EPA 3550C_MS | Initial/Final: 30.2 g / 1 mL

Batch: 5D13002 | Sequence: AA33589 | Calibration: 1501007 | Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 1 | <350 | U | 310 | 350 | 380 |
| 108-95-2 | Phenol | 1 | <120 | U | 110 | 120 | 380 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <230 | UQ | 160 | 230 | 380 |
| 95-57-8 | 2-Chlorophenol | 1 | <350 | U | 260 | 350 | 380 |
| 95-48-7 | 2-Methylphenol | 1 | <230 | U | 130 | 230 | 380 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <120 | U | 110 | 120 | 380 |
| 98-86-2 | Acetophenone UJ-CCL | 1 | <230 | ~~UQ~~ | 160 | 230 | 380 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <350 | U | 290 | 350 | 380 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <230 | U | 170 | 230 | 380 |
| 67-72-1 | Hexachloroethane | 1 | <120 | U | 120 | 120 | 380 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 1 | ~~<230~~ | ~~U~~ | 170 | 230 | 380 |
| 78-59-1 | Isophorone | 1 | <230 | U | 200 | 230 | 380 |
| 88-75-5 | 2-Nitrophenol | 1 | <350 | U | 300 | 350 | 380 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <350 | U | 260 | 350 | 380 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <230 | U | 170 | 230 | 380 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <350 | U | 290 | 350 | 380 |
| 106-47-8 | 4-Chloroaniline | 1 | <120 | U | 75 | 120 | 380 |
| 87-68-3 | Hexachlorobutadiene | 1 | <230 | U | 150 | 230 | 380 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <350 | UQ | 320 | 350 | 380 |
| 77-47-4 | Hexachlorocyclopentadiene UJ-CCL | 1 | <230 | ~~UQ~~ | 170 | 230 | 380 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <120 | U | 110 | 120 | 380 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <230 | UQ | 170 | 230 | 380 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <120 | UQ | 77 | 120 | 380 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <120 | UQ | 84 | 120 | 380 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <120 | U | 110 | 120 | 380 |
| 88-74-4 | 2-Nitroaniline | 1 | <120 | U | 98 | 120 | 380 |
| 131-11-3 | Dimethylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 1 | ~~<230~~ | ~~UQ~~ | 210 | 230 | 380 |
| 99-09-2 | 3-Nitroaniline | 1 | <120 | U | 92 | 120 | 380 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <120 | U | 100 | 120 | 380 |
| 100-02-7 | 4-Nitrophenol | 1 | <230 | UQ | 150 | 230 | 380 |
| 132-64-9 | Dibenzofuran | 1 | <230 | U | 150 | 230 | 380 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | ~~<230~~ | ~~UQ~~ | 180 | 230 | 380 |



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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB21-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-06 | File ID: | 1ds016.D |
| Sampled: | 04/07/15 10:40 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/24/15 18:40 |
| Solids: | 86.94 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.2 g / 1 mL |

Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <230 | UQ | 180 | 230 | 380 |
| 84-66-2 | Diethylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <230 | U | 150 | 230 | 380 |
| 100-01-6 | 4-Nitroaniline | 1 | <350 | U | 300 | 350 | 380 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <350 | U | 320 | 350 | 380 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <350 | U | 260 | 350 | 380 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <230 | UQ | 150 | 230 | 380 |
| 118-74-1 | Hexachlorobenzene | 1 | <230 | UQ | 140 | 230 | 380 |
| 1912-24-9 | Atrazine | 1 | <120 | U | 85 | 120 | 380 |
| 87-86-5 | Pentachlorophenol | 1 | <350 | U | 240 | 350 | 380 |
| 86-74-8 | Carbazole | 1 | <230 | U | 140 | 230 | 380 |
| 84-74-2 | Di-n-butylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 85-68-7 | Butylbenzylphthalate | 1 | <230 | UQ | 160 | 230 | 380 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <350 | U | 240 | 350 | 380 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 117-84-0 | Di-n-octylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 105-60-2 | Caprolactam | 1 | <350 | UQ | 350 | 350 | 380 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1900 | 1200 | 62 | 35 - 105 | |
| Phenol-d5 | 1900 | 1300 | 71 | 40 - 100 | |
| Nitrobenzene-d5 | 1900 | 1200 | 63 | 35 - 100 | |
| 2-Fluorobiphenyl | 1900 | 1400 | 76 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1900 | 1700 | 88 | 35 - 125 | |
| Terphenyl-d14 | 1900 | 2000 | 106 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 448933 | 6.996 | 312803 | 6.966 | |
| Naphthalene-d8 | 1662985 | 8.564 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 828966 | 10.771 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1328634 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 676117 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 202771 | 19.243 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB21-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-06RE1
File ID: 1dw017.D
Sampled: 04/07/15 10:40
Prepared: 04/13/15 11:30
Analyzed: 04/28/15 18:05
Solids: 86.94
Preparation: EPA 3550C_MS
Initial/Final: 30.2 g / 1 mL
Batch: 5D13002
Sequence: AA33622
Calibration: 1501007
Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde EXCLUDE-RE | 1 | <350 | U | 310 | 350 | 380 |
| 108-95-2 | Phenol | 1 | <120 | U | 110 | 120 | 380 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <230 | ~~UQ~~ | 160 | 230 | 380 |
| 95-57-8 | 2-Chlorophenol | 1 | <350 | U | 260 | 350 | 380 |
| 95-48-7 | 2-Methylphenol | 1 | <230 | U | 130 | 230 | 380 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <120 | U | 110 | 120 | 380 |
| 98-86-2 | Acetophenone | 1 | <230 | ~~UQ~~ | 160 | 230 | 380 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <350 | U | 290 | 350 | 380 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <230 | U | 170 | 230 | 380 |
| 67-72-1 | Hexachloroethane | 1 | <120 | U | 120 | 120 | 380 |
| 98-95-3 | Nitrobenzene | 1 | <230 | U | 170 | 230 | 380 |
| 78-59-1 | Isophorone | 1 | <230 | U | 200 | 230 | 380 |
| 88-75-5 | 2-Nitrophenol | 1 | <350 | U | 300 | 350 | 380 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <350 | U | 260 | 350 | 380 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <230 | U | 170 | 230 | 380 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <350 | U | 290 | 350 | 380 |
| 106-47-8 | 4-Chloroaniline | 1 | <120 | U | 75 | 120 | 380 |
| 87-68-3 | Hexachlorobutadiene | 1 | <230 | ~~UQ~~ | 150 | 230 | 380 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <350 | ~~UQ~~ | 320 | 350 | 380 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <230 | U | 170 | 230 | 380 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <120 | U | 110 | 120 | 380 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <230 | ~~UQ~~ | 170 | 230 | 380 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <120 | ~~UQ~~ | 77 | 120 | 380 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <120 | ~~UQ~~ | 84 | 120 | 380 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <120 | U | 110 | 120 | 380 |
| 88-74-4 | 2-Nitroaniline | 1 | <120 | U | 98 | 120 | 380 |
| 131-11-3 | Dimethylphthalate | 1 | <230 | ~~UQ~~ | 150 | 230 | 380 |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | <230 | ~~UQ~~ | 210 | 230 | 380 |
| 99-09-2 | 3-Nitroaniline | 1 | <120 | U | 92 | 120 | 380 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <120 | U | 100 | 120 | 380 |
| 100-02-7 | 4-Nitrophenol | 1 | <230 | U | 150 | 230 | 380 |
| 132-64-9 | Dibenzofuran | 1 | <230 | U | 150 | 230 | 380 |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | <230 | ~~UQ~~ | 180 | 230 | 380 |


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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB21-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-06RE1 | File ID: | 1dw017.D |
| Sampled: | 04/07/15 10:40 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/28/15 18:05 |
| Solids: | 86.94 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.2 g / 1 mL |

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <230 | UQ | 180 | 230 | 380 |
| 84-66-2 | Diethylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <230 | U | 150 | 230 | 380 |
| 100-01-6 | 4-Nitroaniline | 1 | <350 | U | 300 | 350 | 380 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <350 | U | 320 | 350 | 380 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <350 | UQ | 260 | 350 | 380 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <230 | UQ | 150 | 230 | 380 |
| 118-74-1 | Hexachlorobenzene | 1 | <230 | UQ | 140 | 230 | 380 |
| 1912-24-9 | Atrazine | 1 | <120 | UQ | 85 | 120 | 380 |
| 87-86-5 | Pentachlorophenol | 1 | <350 | U | 240 | 350 | 380 |
| 86-74-8 | Carbazole | 1 | <230 | U | 140 | 230 | 380 |
| 84-74-2 | Di-n-butylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 85-68-7 | Butylbenzylphthalate | 1 | <230 | UQ | 160 | 230 | 380 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <350 | U | 240 | 350 | 380 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 117-84-0 | Di-n-octylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 105-60-2 | Caprolactam | 1 | <350 | UQ | 350 | 350 | 380 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1900 | 940 | 49 | 35 - 105 | |
| Phenol-d5 | 1900 | 1100 | 56 | 40 - 100 | |
| Nitrobenzene-d5 | 1900 | 950 | 50 | 35 - 100 | |
| 2-Fluorobiphenyl | 1900 | 1100 | 60 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1900 | 1700 | 87 | 35 - 125 | |
| Terphenyl-d14 | 1900 | 1800 | 92 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 466356 | 6.916 | 312803 | 6.966 | |
| Naphthalene-d8 | 1730035 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 924887 | 10.697 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1523302 | 12.576 | 1098576 | 12.637 | |
| Chrysene-d12 | 609742 | 16.165 | 565336 | 16.253 | |
| Perylene-d12 | 213158 | 19.133 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS27-0415

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A502126-07 File ID: 1dw025.D

Sampled: 04/07/15 12:40 Prepared: 04/13/15 11:30 Analyzed: 04/28/15 22:02

Solids: 87.11 Preparation: EPA 3550C_MS Initial/Final: 30 g / 1 mL

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 108-95-2 | Phenol | 5 | <570 | UDQ | 570 | 570 | 1900 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1100 | UDQ | 800 | 1100 | 1900 |
| 95-57-8 | 2-Chlorophenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 95-48-7 | 2-Methylphenol | 5 | <1100 | UDQ | 630 | 1100 | 1900 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <570 | UDQ | 570 | 570 | 1900 |
| 98-86-2 | Acetophenone | 5 | <1100 | UDQ | 800 | 1100 | 1900 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1700 | UDQ | 1400 | 1700 | 1900 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1100 | UDQ | 860 | 1100 | 1900 |
| 67-72-1 | Hexachloroethane | 5 | <570 | UDQ | 570 | 570 | 1900 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 5 | ~~<1100~~ | ~~UDQ~~ | 860 | 1100 | 1900 |
| 78-59-1 | Isophorone | 5 | <1100 | UDQ | 980 | 1100 | 1900 |
| 88-75-5 | 2-Nitrophenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1100 | UDQ | 860 | 1100 | 1900 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1700 | UDQ | 1400 | 1700 | 1900 |
| 106-47-8 | 4-Chloroaniline | 5 | <570 | UDQ | 370 | 570 | 1900 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 77-47-4 | Hexachlorocyclopentadiene UJ-CCL | 5 | <1100 | ~~UDQ~~ | 860 | 1100 | 1900 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <570 | UDQ | 570 | 570 | 1900 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1100 | UDQ | 860 | 1100 | 1900 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <570 | UDQ | 380 | 570 | 1900 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <570 | UDQ | 420 | 570 | 1900 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <570 | UDQ | 560 | 570 | 1900 |
| 88-74-4 | 2-Nitroaniline | 5 | <570 | UDQ | 490 | 570 | 1900 |
| 131-11-3 | Dimethylphthalate | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1100~~ | ~~UDQ~~ | 1000 | 1100 | 1900 |
| 99-09-2 | 3-Nitroaniline | 5 | <570 | UDQ | 460 | 570 | 1900 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <570 | UDQ | 510 | 570 | 1900 |
| 100-02-7 | 4-Nitrophenol | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 132-64-9 | Dibenzofuran | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1100~~ | ~~UDQ~~ | 920 | 1100 | 1900 |



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS27-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-07 | File ID: | 1dw025.D |
| Sampled: | 04/07/15 12:40 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/28/15 22:02 |
| Solids: | 87.11 | Preparation: | EPA 3550C_MS | Initial/Final: | 30 g / 1 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D13002 | Sequence: | AA33622 | Calibration: | 1501007 | Instrument: | OSVGCMS1 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1100 | UDQ | 920 | 1100 | 1900 |
| 84-66-2 | Diethylphthalate | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 100-01-6 | 4-Nitroaniline | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 118-74-1 | Hexachlorobenzene | 5 | <1100 | UDQ | 690 | 1100 | 1900 |
| 1912-24-9 | Atrazine | 5 | <570 | UDQ | 420 | 570 | 1900 |
| 87-86-5 | Pentachlorophenol | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 86-74-8 | Carbazole | 5 | <1100 | UDQ | 690 | 1100 | 1900 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1100 | UDQ | 800 | 1100 | 1900 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1100 | UDQ | 750 | 1100 | 1900 |
| 105-60-2 | Caprolactam | 5 | <1700 | UDQ | 1700 | 1700 | 1900 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | UDQ |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1910 | ND | | 35 - 105 | * |
| Phenol-d5 | 1910 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 1910 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 1910 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 1910 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 1910 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 479193 | 6.926 | 312803 | 6.966 | |
| Naphthalene-d8 | 1789922 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 1001938 | 10.697 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1733281 | 12.576 | 1098576 | 12.637 | |
| Chrysene-d12 | 373957 | 16.165 | 565336 | 16.253 | |
| Perylene-d12 | 106783 | 19.133 | 404946 | 19.226 | * |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB27-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-08 | File ID: | 1dx028.D |
| Sampled: | 04/07/15 12:50 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/29/15 20:53 |
| Solids: | 85.89 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

Batch: 5D13002 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 108-95-2 | Phenol | 5 | <580 | UDQ | 580 | 580 | 1900 |
| 111-44-4 | Bis(2-chloroethyl)ether | 5 | <1200 | UDQ | 820 | 1200 | 1900 |
| 95-57-8 | 2-Chlorophenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 95-48-7 | 2-Methylphenol | 5 | <1200 | UDQ | 640 | 1200 | 1900 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 5 | <580 | UDQ | 580 | 580 | 1900 |
| 98-86-2 | Acetophenone | 5 | <1200 | UDQ | 820 | 1200 | 1900 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 5 | <1200 | UDQ | 870 | 1200 | 1900 |
| 67-72-1 | Hexachloroethane | 5 | <580 | UDQ | 580 | 580 | 1900 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 870 | 1200 | 1900 |
| 78-59-1 | Isophorone | 5 | <1200 | UDQ | 990 | 1200 | 1900 |
| 88-75-5 | 2-Nitrophenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 105-67-9 | 2,4-Dimethylphenol | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 5 | <1200 | UDQ | 870 | 1200 | 1900 |
| 120-83-2 | 2,4-Dichlorophenol | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 106-47-8 | 4-Chloroaniline | 5 | <580 | UDQ | 380 | 580 | 1900 |
| 87-68-3 | Hexachlorobutadiene | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 77-47-4 | Hexachlorocyclopentadiene | 5 | <1200 | UDQ | 870 | 1200 | 1900 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 5 | <580 | UDQ | 580 | 580 | 1900 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | <1200 | UDQ | 870 | 1200 | 1900 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5 | <580 | UDQ | 390 | 580 | 1900 |
| 92-52-4 | 1,1'-Biphenyl | 5 | <580 | UDQ | 420 | 580 | 1900 |
| 91-58-7 | 2-Chloronaphthalene | 5 | <580 | UDQ | 570 | 580 | 1900 |
| 88-74-4 | 2-Nitroaniline | 5 | <580 | UDQ | 490 | 580 | 1900 |
| 131-11-3 | Dimethylphthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 1000 | 1200 | 1900 |
| 99-09-2 | 3-Nitroaniline | 5 | <580 | UDQ | 470 | 580 | 1900 |
| 51-28-5 | 2,4-Dinitrophenol | 5 | <580 | UDQ | 520 | 580 | 1900 |
| 100-02-7 | 4-Nitrophenol | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 132-64-9 | Dibenzofuran | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 5 | ~~<1200~~ | ~~UDQ~~ | 930 | 1200 | 1900 |



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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB27-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-08 | File ID: | 1dx028.D |
| Sampled: | 04/07/15 12:50 | Prepared: | 04/13/15 11:30 | Analyzed: | 04/29/15 20:53 |
| Solids: | 85.89 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D13002 | Sequence: | AA33648 | Calibration: | 1501007 | Instrument: | OSVGCMS1 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 5 | <1200 | UDQ | 930 | 1200 | 1900 |
| 84-66-2 | Diethylphthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 100-01-6 | 4-Nitroaniline | 5 | <1700 | UDQ | 1500 | 1700 | 1900 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 5 | <1700 | UDQ | 1600 | 1700 | 1900 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 5 | <1700 | UDQ | 1300 | 1700 | 1900 |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 118-74-1 | Hexachlorobenzene | 5 | <1200 | UDQ | 700 | 1200 | 1900 |
| 1912-24-9 | Atrazine | 5 | <580 | UDQ | 430 | 580 | 1900 |
| 87-86-5 | Pentachlorophenol | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 86-74-8 | Carbazole | 5 | <1200 | UDQ | 700 | 1200 | 1900 |
| 84-74-2 | Di-n-butylphthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 85-68-7 | Butylbenzylphthalate | 5 | <1200 | UDQ | 820 | 1200 | 1900 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | <1700 | UDQ | 1200 | 1700 | 1900 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 117-84-0 | Di-n-octylphthalate | 5 | <1200 | UDQ | 760 | 1200 | 1900 |
| 105-60-2 | Caprolactam | 5 | <1700 | UDQ | 1700 | 1700 | 1900 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | ~~UDQ~~ |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1930 | ND | | 35 - 105 | * |
| Phenol-d5 | 1930 | ND | | 40 - 100 | * |
| Nitrobenzene-d5 | 1930 | ND | | 35 - 100 | * |
| 2-Fluorobiphenyl | 1930 | ND | | 45 - 105 | * |
| 2,4,6-Tribromophenol | 1930 | ND | | 35 - 125 | * |
| Terphenyl-d14 | 1930 | ND | | 30 - 125 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 438214 | 6.796 | 312803 | 6.966 | |
| Naphthalene-d8 | 1649296 | 8.359 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 888818 | 10.566 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1455417 | 12.439 | 1098576 | 12.637 | |
| Chrysene-d12 | 871041 | 15.988 | 565336 | 16.253 | |
| Perylene-d12 | 280953 | 18.912 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS28-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-09 | File ID: | 1dx022.D |
| Sampled: | 04/07/15 13:30 | Prepared: | 04/16/15 05:30 | Analyzed: | 04/29/15 17:55 |
| Solids: | 81.26 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

Batch: 5D16001 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 2 | 1100 | ~~DQ~~ | 660 | 740 | 810 |
| 108-95-2 | Phenol | 2 | <250 | UDQ | 240 | 250 | 810 |
| 111-44-4 | Bis(2-chloroethyl)ether | 2 | <490 | UDQ | 340 | 490 | 810 |
| 95-57-8 | 2-Chlorophenol | 2 | <740 | UDQ | 570 | 740 | 810 |
| 95-48-7 | 2-Methylphenol | 2 | <490 | UDQ | 270 | 490 | 810 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 2 | <250 | UDQ | 240 | 250 | 810 |
| 98-86-2 | Acetophenone | 2 | <490 | UDQ | 340 | 490 | 810 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 2 | <740 | UDQ | 620 | 740 | 810 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 2 | <490 | UDQ | 370 | 490 | 810 |
| 67-72-1 | Hexachloroethane | 2 | <250 | UDQ | 250 | 250 | 810 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 2 | ~~<490~~ | ~~UDQ~~ | 370 | 490 | 810 |
| 78-59-1 | Isophorone | 2 | <490 | UDQ | 420 | 490 | 810 |
| 88-75-5 | 2-Nitrophenol | 2 | <740 | UDQ | 640 | 740 | 810 |
| 105-67-9 | 2,4-Dimethylphenol | 2 | <740 | UDQ | 570 | 740 | 810 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 2 | <490 | UDQ | 370 | 490 | 810 |
| 120-83-2 | 2,4-Dichlorophenol | 2 | <740 | UDQ | 620 | 740 | 810 |
| 106-47-8 | 4-Chloroaniline | 2 | <250 | UDQ | 160 | 250 | 810 |
| 87-68-3 | Hexachlorobutadiene | 2 | <490 | UDQ | 320 | 490 | 810 |
| 59-50-7 | 4-Chloro-3-methylphenol | 2 | <740 | UDQ | 690 | 740 | 810 |
| 77-47-4 | Hexachlorocyclopentadiene | 2 | <490 | UDQ | 370 | 490 | 810 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 2 | <250 | UDQ | 240 | 250 | 810 |
| 88-06-2 | 2,4,6-Trichlorophenol | 2 | <490 | UDQ | 370 | 490 | 810 |
| 95-95-4 | 2,4,5-Trichlorophenol | 2 | <250 | UDQ | 160 | 250 | 810 |
| 92-52-4 | 1,1'-Biphenyl | 2 | <250 | UDQ | 180 | 250 | 810 |
| 91-58-7 | 2-Chloronaphthalene | 2 | <250 | UDQ | 240 | 250 | 810 |
| 88-74-4 | 2-Nitroaniline | 2 | <250 | UDQ | 210 | 250 | 810 |
| 131-11-3 | Dimethylphthalate | 2 | <490 | UDQ | 320 | 490 | 810 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 2 | ~~<490~~ | ~~UDQ~~ | 440 | 490 | 810 |
| 99-09-2 | 3-Nitroaniline | 2 | <250 | UDQ | 200 | 250 | 810 |
| 51-28-5 | 2,4-Dinitrophenol | 2 | <250 | UDQ | 220 | 250 | 810 |
| 100-02-7 | 4-Nitrophenol | 2 | <490 | UDQ | 320 | 490 | 810 |
| 132-64-9 | Dibenzofuran | 2 | <490 | UDQ | 320 | 490 | 810 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 2 | ~~<490~~ | ~~UDQ~~ | 390 | 490 | 810 |



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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS28-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-09 | File ID: | 1dx022.D |
| Sampled: | 04/07/15 13:30 | Prepared: | 04/16/15 05:30 | Analyzed: | 04/29/15 17:55 |
| Solids: | 81.26 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

Batch: 5D16001 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2 | <490 | UDQ | 390 | 490 | 810 |
| 84-66-2 | Diethylphthalate | 2 | <490 | UDQ | 320 | 490 | 810 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 2 | <490 | UDQ | 320 | 490 | 810 |
| 100-01-6 | 4-Nitroaniline | 2 | <740 | UDQ | 640 | 740 | 810 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 2 | <740 | UDQ | 690 | 740 | 810 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 2 | <740 | UDQ | 570 | 740 | 810 |
| 101-55-3 | 4-Bromophenyl-phenylether | 2 | <490 | UDQ | 320 | 490 | 810 |
| 118-74-1 | Hexachlorobenzene | 2 | <490 | UDQ | 300 | 490 | 810 |
| 1912-24-9 | Atrazine | 2 | <250 | UDQ | 180 | 250 | 810 |
| 87-86-5 | Pentachlorophenol | 2 | <740 | UDQ | 520 | 740 | 810 |
| 86-74-8 | Carbazole | 2 | <490 | UDQ | 300 | 490 | 810 |
| 84-74-2 | Di-n-butylphthalate | 2 | <490 | UDQ | 320 | 490 | 810 |
| 85-68-7 | Butylbenzylphthalate | 2 | <490 | UDQ | 340 | 490 | 810 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2 | <740 | UDQ | 520 | 740 | 810 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 2 | <490 | UDQ | 320 | 490 | 810 |
| 117-84-0 | Di-n-octylphthalate | 2 | <490 | UDQ | 320 | 490 | 810 |
| 105-60-2 | Caprolactam | 2 | <740 | UDQ | 740 | 740 | 810 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | UDQ |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2040 | 1300 | 63 | 35 - 105 | |
| Phenol-d5 | 2040 | 1400 | 69 | 40 - 100 | |
| Nitrobenzene-d5 | 2040 | 1300 | 63 | 35 - 100 | |
| 2-Fluorobiphenyl | 2040 | 1600 | 78 | 45 - 105 | |
| 2,4,6-Tribromophenol | 2040 | 2000 | 97 | 35 - 125 | |
| Terphenyl-d14 | 2040 | 2000 | 99 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 350393 | 6.786 | 312803 | 6.966 | |
| Naphthalene-d8 | 1281486 | 8.36 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 689736 | 10.557 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1154730 | 12.439 | 1098576 | 12.637 | |
| Chrysene-d12 | 627773 | 15.977 | 565336 | 16.253 | |
| Perylene-d12 | 237046 | 18.913 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB28-0H02-0415

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A502126-10 File ID: 1dx021.D

Sampled: 04/07/15 13:40 Prepared: 04/16/15 05:30 Analyzed: 04/29/15 17:26

Solids: 86.93 Preparation: EPA 3550C_MS Initial/Final: 29.8 g / 1 mL

Batch: 5D16001 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 1 | <350 | U | 310 | 350 | 380 |
| 108-95-2 | Phenol | 1 | <120 | U | 110 | 120 | 380 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <230 | U | 160 | 230 | 380 |
| 95-57-8 | 2-Chlorophenol | 1 | <350 | U | 260 | 350 | 380 |
| 95-48-7 | 2-Methylphenol | 1 | <230 | U | 130 | 230 | 380 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <120 | U | 110 | 120 | 380 |
| 98-86-2 | Acetophenone | 1 | <230 | U | 160 | 230 | 380 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <350 | U | 290 | 350 | 380 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <230 | U | 170 | 230 | 380 |
| 67-72-1 | Hexachloroethane | 1 | <120 | UQ | 120 | 120 | 380 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 1 | ~~<230~~ | ~~U~~ | 170 | 230 | 380 |
| 78-59-1 | Isophorone | 1 | <230 | U | 200 | 230 | 380 |
| 88-75-5 | 2-Nitrophenol | 1 | <350 | U | 300 | 350 | 380 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <350 | U | 260 | 350 | 380 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <230 | U | 170 | 230 | 380 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <350 | U | 290 | 350 | 380 |
| 106-47-8 | 4-Chloroaniline | 1 | <120 | U | 75 | 120 | 380 |
| 87-68-3 | Hexachlorobutadiene | 1 | <230 | UQ | 150 | 230 | 380 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <350 | U | 320 | 350 | 380 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <230 | U | 170 | 230 | 380 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <120 | U | 110 | 120 | 380 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <230 | U | 170 | 230 | 380 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <120 | U | 77 | 120 | 380 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <120 | U | 84 | 120 | 380 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <120 | U | 110 | 120 | 380 |
| 88-74-4 | 2-Nitroaniline | 1 | <120 | U | 98 | 120 | 380 |
| 131-11-3 | Dimethylphthalate | 1 | <230 | U | 150 | 230 | 380 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 1 | ~~<230~~ | ~~U~~ | 210 | 230 | 380 |
| 99-09-2 | 3-Nitroaniline | 1 | <120 | U | 92 | 120 | 380 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <120 | U | 100 | 120 | 380 |
| 100-02-7 | 4-Nitrophenol | 1 | <230 | UQ | 150 | 230 | 380 |
| 132-64-9 | Dibenzofuran | 1 | <230 | U | 150 | 230 | 380 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | ~~<230~~ | ~~U~~ | 180 | 230 | 380 |



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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB28-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10 | File ID: | 1dx021.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/16/15 05:30 | Analyzed: | 04/29/15 17:26 |
| Solids: | 86.93 | Preparation: | EPA 3550C_MS | Initial/Final: | 29.8 g / 1 mL |

Batch: 5D16001 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <230 | UQ | 180 | 230 | 380 |
| 84-66-2 | Diethylphthalate | 1 | <230 | U | 150 | 230 | 380 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <230 | U | 150 | 230 | 380 |
| 100-01-6 | 4-Nitroaniline | 1 | <350 | U | 300 | 350 | 380 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <350 | U | 320 | 350 | 380 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <350 | U | 260 | 350 | 380 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <230 | U | 150 | 230 | 380 |
| 118-74-1 | Hexachlorobenzene | 1 | <230 | U | 140 | 230 | 380 |
| 1912-24-9 | Atrazine | 1 | <120 | U | 85 | 120 | 380 |
| 87-86-5 | Pentachlorophenol | 1 | <350 | U | 240 | 350 | 380 |
| 86-74-8 | Carbazole | 1 | <230 | U | 140 | 230 | 380 |
| 84-74-2 | Di-n-butylphthalate | 1 | <230 | U | 150 | 230 | 380 |
| 85-68-7 | Butylbenzylphthalate | 1 | <230 | UQ | 160 | 230 | 380 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <350 | U | 240 | 350 | 380 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 117-84-0 | Di-n-octylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 105-60-2 | Caprolactam | 1 | <350 | U | 350 | 350 | 380 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1930 | 1200 | 63 | 35 - 105 | |
| Phenol-d5 | 1930 | 1300 | 67 | 40 - 100 | |
| Nitrobenzene-d5 | 1930 | 1200 | 61 | 35 - 100 | |
| 2-Fluorobiphenyl | 1930 | 1400 | 74 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1930 | 1800 | 91 | 35 - 125 | |
| Terphenyl-d14 | 1930 | 2300 | 120 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 351702 | 6.786 | 312803 | 6.966 | |
| Naphthalene-d8 | 1267269 | 8.359 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 660919 | 10.557 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1055368 | 12.439 | 1098576 | 12.637 | |
| Chrysene-d12 | 646514 | 15.977 | 565336 | 16.253 | |
| Perylene-d12 | 285227 | 18.912 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS29-0415

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A502126-12 File ID: 1dx014.D

Sampled: 04/07/15 11:10 Prepared: 04/16/15 05:30 Analyzed: 04/29/15 13:59

Solids: 76.57 Preparation: EPA 3550C_MS Initial/Final: 30.4 g / 1 mL

Batch: 5D16001 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 1 | <390 | U | 350 | 390 | 430 |
| 108-95-2 | Phenol | 1 | <130 | U | 130 | 130 | 430 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <260 | U | 180 | 260 | 430 |
| 95-57-8 | 2-Chlorophenol | 1 | <390 | U | 300 | 390 | 430 |
| 95-48-7 | 2-Methylphenol | 1 | <260 | U | 140 | 260 | 430 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <130 | U | 130 | 130 | 430 |
| 98-86-2 | Acetophenone | 1 | <260 | U | 180 | 260 | 430 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <390 | U | 330 | 390 | 430 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <260 | U | 200 | 260 | 430 |
| 67-72-1 | Hexachloroethane | 1 | <130 | UQ | 130 | 130 | 430 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 1 | ~~<260~~ | ~~U~~ | 200 | 260 | 430 |
| 78-59-1 | Isophorone | 1 | <260 | U | 220 | 260 | 430 |
| 88-75-5 | 2-Nitrophenol | 1 | <390 | U | 340 | 390 | 430 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <390 | U | 300 | 390 | 430 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <260 | U | 200 | 260 | 430 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <390 | U | 330 | 390 | 430 |
| 106-47-8 | 4-Chloroaniline | 1 | <130 | U | 85 | 130 | 430 |
| 87-68-3 | Hexachlorobutadiene | 1 | <260 | UQ | 170 | 260 | 430 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <390 | U | 370 | 390 | 430 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <260 | U | 200 | 260 | 430 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <130 | U | 130 | 130 | 430 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <260 | U | 200 | 260 | 430 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <130 | U | 87 | 130 | 430 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <130 | U | 95 | 130 | 430 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <130 | U | 130 | 130 | 430 |
| 88-74-4 | 2-Nitroaniline | 1 | <130 | U | 110 | 130 | 430 |
| 131-11-3 | Dimethylphthalate | 1 | <260 | U | 170 | 260 | 430 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 1 | ~~<260~~ | ~~U~~ | 240 | 260 | 430 |
| 99-09-2 | 3-Nitroaniline | 1 | <130 | U | 100 | 130 | 430 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <130 | U | 120 | 130 | 430 |
| 100-02-7 | 4-Nitrophenol | 1 | <260 | UQ | 170 | 260 | 430 |
| 132-64-9 | Dibenzofuran | 1 | <260 | U | 170 | 260 | 430 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | ~~<260~~ | ~~U~~ | 210 | 260 | 430 |



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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS29-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-12 | File ID: | 1dx014.D |
| Sampled: | 04/07/15 11:10 | Prepared: | 04/16/15 05:30 | Analyzed: | 04/29/15 13:59 |
| Solids: | 76.57 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.4 g / 1 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D16001 | Sequence: | AA33648 | Calibration: | 1501007 | Instrument: | OSVGCMS1 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <260 | UQ | 210 | 260 | 430 |
| 84-66-2 | Diethylphthalate | 1 | <260 | U | 170 | 260 | 430 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <260 | U | 170 | 260 | 430 |
| 100-01-6 | 4-Nitroaniline | 1 | <390 | U | 340 | 390 | 430 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <390 | U | 370 | 390 | 430 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <390 | U | 300 | 390 | 430 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <260 | U | 170 | 260 | 430 |
| 118-74-1 | Hexachlorobenzene | 1 | <260 | U | 160 | 260 | 430 |
| 1912-24-9 | Atrazine | 1 | <130 | U | 97 | 130 | 430 |
| 87-86-5 | Pentachlorophenol | 1 | <390 | U | 270 | 390 | 430 |
| 86-74-8 | Carbazole | 1 | <260 | U | 160 | 260 | 430 |
| 84-74-2 | Di-n-butylphthalate | 1 | <260 | U | 170 | 260 | 430 |
| 85-68-7 | Butylbenzylphthalate | 1 | <260 | UQ | 180 | 260 | 430 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <390 | U | 270 | 390 | 430 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 117-84-0 | Di-n-octylphthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 105-60-2 | Caprolactam | 1 | <390 | U | 390 | 390 | 430 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2150 | 1400 | 64 | 35 - 105 | |
| Phenol-d5 | 2150 | 1500 | 69 | 40 - 100 | |
| Nitrobenzene-d5 | 2150 | 1400 | 64 | 35 - 100 | |
| 2-Fluorobiphenyl | 2150 | 1400 | 66 | 45 - 105 | |
| 2,4,6-Tribromophenol | 2150 | 1700 | 81 | 35 - 125 | |
| Terphenyl-d14 | 2150 | 2000 | 93 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 365093 | 6.786 | 312803 | 6.966 | |
| Naphthalene-d8 | 1372549 | 8.36 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 721250 | 10.557 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1183106 | 12.439 | 1098576 | 12.637 | |
| Chrysene-d12 | 748273 | 15.977 | 565336 | 16.253 | |
| Perylene-d12 | 428849 | 18.921 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB29-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-13
File ID: 1dx015.D
Sampled: 04/07/15 11:20
Prepared: 04/16/15 05:30
Analyzed: 04/29/15 14:28
Solids: 78.66
Preparation: EPA 3550C_MS
Initial/Final: 30 g / 1 mL
Batch: 5D16001
Sequence: AA33648
Calibration: 1501007
Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 1 | <380 | U | 340 | 380 | 420 |
| 108-95-2 | Phenol | 1 | <130 | U | 130 | 130 | 420 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <250 | U | 180 | 250 | 420 |
| 95-57-8 | 2-Chlorophenol | 1 | <380 | U | 290 | 380 | 420 |
| 95-48-7 | 2-Methylphenol | 1 | <250 | U | 140 | 250 | 420 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <130 | U | 130 | 130 | 420 |
| 98-86-2 | Acetophenone | 1 | <250 | U | 180 | 250 | 420 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <380 | U | 320 | 380 | 420 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <250 | U | 190 | 250 | 420 |
| 67-72-1 | Hexachloroethane | 1 | <130 | UQ | 130 | 130 | 420 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 1 | ~~<250~~ | ~~U~~ | 190 | 250 | 420 |
| 78-59-1 | Isophorone | 1 | <250 | U | 220 | 250 | 420 |
| 88-75-5 | 2-Nitrophenol | 1 | <380 | U | 330 | 380 | 420 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <380 | U | 290 | 380 | 420 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <250 | U | 190 | 250 | 420 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <380 | U | 320 | 380 | 420 |
| 106-47-8 | 4-Chloroaniline | 1 | <130 | U | 83 | 130 | 420 |
| 87-68-3 | Hexachlorobutadiene | 1 | <250 | UQ | 170 | 250 | 420 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <380 | U | 360 | 380 | 420 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <250 | U | 190 | 250 | 420 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <130 | U | 130 | 130 | 420 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <250 | U | 190 | 250 | 420 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <130 | U | 85 | 130 | 420 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <130 | U | 93 | 130 | 420 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <130 | U | 120 | 130 | 420 |
| 88-74-4 | 2-Nitroaniline | 1 | <130 | U | 110 | 130 | 420 |
| 131-11-3 | Dimethylphthalate | 1 | <250 | U | 170 | 250 | 420 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 1 | ~~<250~~ | ~~U~~ | 230 | 250 | 420 |
| 99-09-2 | 3-Nitroaniline | 1 | <130 | U | 100 | 130 | 420 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <130 | U | 110 | 130 | 420 |
| 100-02-7 | 4-Nitrophenol | 1 | <250 | UQ | 170 | 250 | 420 |
| 132-64-9 | Dibenzofuran | 1 | <250 | U | 170 | 250 | 420 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | ~~<250~~ | ~~U~~ | 200 | 250 | 420 |


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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB29-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-13 | File ID: | 1dx015.D |
| Sampled: | 04/07/15 11:20 | Prepared: | 04/16/15 05:30 | Analyzed: | 04/29/15 14:28 |
| Solids: | 78.66 | Preparation: | EPA 3550C_MS | Initial/Final: | 30 g / 1 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D16001 | Sequence: | AA33648 | Calibration: | 1501007 | Instrument: | OSVGCMS1 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <250 | UQ | 200 | 250 | 420 |
| 84-66-2 | Diethylphthalate | 1 | <250 | U | 170 | 250 | 420 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <250 | U | 170 | 250 | 420 |
| 100-01-6 | 4-Nitroaniline | 1 | <380 | U | 330 | 380 | 420 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <380 | U | 360 | 380 | 420 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <380 | U | 290 | 380 | 420 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <250 | U | 170 | 250 | 420 |
| 118-74-1 | Hexachlorobenzene | 1 | <250 | U | 150 | 250 | 420 |
| 1912-24-9 | Atrazine | 1 | <130 | U | 94 | 130 | 420 |
| 87-86-5 | Pentachlorophenol | 1 | <380 | U | 270 | 380 | 420 |
| 86-74-8 | Carbazole | 1 | <250 | U | 150 | 250 | 420 |
| 84-74-2 | Di-n-butylphthalate | 1 | <250 | U | 170 | 250 | 420 |
| 85-68-7 | Butylbenzylphthalate | 1 | <250 | UQ | 180 | 250 | 420 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <380 | U | 270 | 380 | 420 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <250 | UQ | 170 | 250 | 420 |
| 117-84-0 | Di-n-octylphthalate | 1 | <250 | UQ | 170 | 250 | 420 |
| 105-60-2 | Caprolactam | 1 | <380 | U | 380 | 380 | 420 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 2120 | 1500 | 71 | 35 - 105 | |
| Phenol-d5 | 2120 | 1500 | 73 | 40 - 100 | |
| Nitrobenzene-d5 | 2120 | 1400 | 68 | 35 - 100 | |
| 2-Fluorobiphenyl | 2120 | 1500 | 70 | 45 - 105 | |
| 2,4,6-Tribromophenol | 2120 | 1700 | 79 | 35 - 125 | |
| Terphenyl-d14 | 2120 | 2000 | 95 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 276440 | 6.786 | 312803 | 6.966 | |
| Naphthalene-d8 | 1028693 | 8.36 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 540940 | 10.557 | 663746 | 10.753 | |
| Phenanthrene-d10 | 850323 | 12.439 | 1098576 | 12.637 | |
| Chrysene-d12 | 483985 | 15.977 | 565336 | 16.253 | |
| Perylene-d12 | 298009 | 18.913 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS30-0415

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A502126-14 File ID: 1dx019.D

Sampled: 04/07/15 12:10 Prepared: 04/16/15 05:30 Analyzed: 04/29/15 16:27

Solids: 90.48 Preparation: EPA 3550C_MS Initial/Final: 30 g / 1 mL

Batch: 5D16001 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 1 | <330 | U | 300 | 330 | 360 |
| 108-95-2 | Phenol | 1 | <110 | U | 110 | 110 | 360 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <220 | U | 150 | 220 | 360 |
| 95-57-8 | 2-Chlorophenol | 1 | <330 | U | 250 | 330 | 360 |
| 95-48-7 | 2-Methylphenol | 1 | <220 | U | 120 | 220 | 360 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <110 | U | 110 | 110 | 360 |
| 98-86-2 | Acetophenone | 1 | <220 | U | 150 | 220 | 360 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <330 | U | 280 | 330 | 360 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <220 | U | 170 | 220 | 360 |
| 67-72-1 | Hexachloroethane | 1 | <110 | UQ | 110 | 110 | 360 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 1 | ~~<220~~ | ~~U~~ | 170 | 220 | 360 |
| 78-59-1 | Isophorone | 1 | <220 | U | 190 | 220 | 360 |
| 88-75-5 | 2-Nitrophenol | 1 | <330 | U | 290 | 330 | 360 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <330 | U | 250 | 330 | 360 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <220 | U | 170 | 220 | 360 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <330 | U | 280 | 330 | 360 |
| 106-47-8 | 4-Chloroaniline | 1 | <110 | U | 72 | 110 | 360 |
| 87-68-3 | Hexachlorobutadiene | 1 | <220 | UQ | 140 | 220 | 360 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <330 | U | 310 | 330 | 360 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <220 | U | 170 | 220 | 360 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <110 | U | 110 | 110 | 360 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <220 | U | 170 | 220 | 360 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <110 | U | 74 | 110 | 360 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <110 | U | 81 | 110 | 360 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <110 | U | 110 | 110 | 360 |
| 88-74-4 | 2-Nitroaniline | 1 | <110 | U | 94 | 110 | 360 |
| 131-11-3 | Dimethylphthalate | 1 | <220 | U | 140 | 220 | 360 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 1 | ~~<220~~ | ~~U~~ | 200 | 220 | 360 |
| 99-09-2 | 3-Nitroaniline | 1 | <110 | U | 88 | 110 | 360 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <110 | U | 98 | 110 | 360 |
| 100-02-7 | 4-Nitrophenol | 1 | <220 | UQ | 140 | 220 | 360 |
| 132-64-9 | Dibenzofuran | 1 | <220 | U | 140 | 220 | 360 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | ~~<220~~ | ~~U~~ | 180 | 220 | 360 |



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# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS30-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-14 | File ID: | 1dx019.D |
| Sampled: | 04/07/15 12:10 | Prepared: | 04/16/15 05:30 | Analyzed: | 04/29/15 16:27 |
| Solids: | 90.48 | Preparation: | EPA 3550C_MS | Initial/Final: | 30 g / 1 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D16001 | Sequence: | AA33648 | Calibration: | 1501007 | Instrument: | OSVGCMS1 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <220 | UQ | 180 | 220 | 360 |
| 84-66-2 | Diethylphthalate | 1 | <220 | U | 140 | 220 | 360 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <220 | U | 140 | 220 | 360 |
| 100-01-6 | 4-Nitroaniline | 1 | <330 | U | 290 | 330 | 360 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <330 | U | 310 | 330 | 360 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <330 | U | 250 | 330 | 360 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <220 | U | 140 | 220 | 360 |
| 118-74-1 | Hexachlorobenzene | 1 | <220 | U | 130 | 220 | 360 |
| 1912-24-9 | Atrazine | 1 | <110 | U | 82 | 110 | 360 |
| 87-86-5 | Pentachlorophenol | 1 | <330 | U | 230 | 330 | 360 |
| 86-74-8 | Carbazole | 1 | <220 | U | 130 | 220 | 360 |
| 84-74-2 | Di-n-butylphthalate | 1 | <220 | U | 140 | 220 | 360 |
| 85-68-7 | Butylbenzylphthalate | 1 | <220 | UQ | 150 | 220 | 360 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <330 | U | 230 | 330 | 360 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <220 | UQ | 140 | 220 | 360 |
| 117-84-0 | Di-n-octylphthalate | 1 | <220 | UQ | 140 | 220 | 360 |
| 105-60-2 | Caprolactam | 1 | <330 | U | 330 | 330 | 360 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1840 | 1200 | 65 | 35 - 105 | |
| Phenol-d5 | 1840 | 1200 | 68 | 40 - 100 | |
| Nitrobenzene-d5 | 1840 | 1100 | 62 | 35 - 100 | |
| 2-Fluorobiphenyl | 1840 | 1400 | 77 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1840 | 1800 | 96 | 35 - 125 | |
| Terphenyl-d14 | 1840 | 2100 | 113 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 288993 | 6.786 | 312803 | 6.966 | |
| Naphthalene-d8 | 1059407 | 8.36 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 592457 | 10.566 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1054567 | 12.439 | 1098576 | 12.637 | |
| Chrysene-d12 | 578417 | 15.977 | 565336 | 16.253 | |
| Perylene-d12 | 260647 | 18.913 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB30-0H02-0415

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A502126-15 File ID: 1dx020.D

Sampled: 04/07/15 12:20 Prepared: 04/16/15 05:30 Analyzed: 04/29/15 16:56

Solids: 90.84 Preparation: EPA 3550C_MS Initial/Final: 30.1 g / 1 mL

Batch: 5D16001 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 1 | <330 | U | 300 | 330 | 360 |
| 108-95-2 | Phenol | 1 | <110 | U | 110 | 110 | 360 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <220 | U | 150 | 220 | 360 |
| 95-57-8 | 2-Chlorophenol | 1 | <330 | U | 250 | 330 | 360 |
| 95-48-7 | 2-Methylphenol | 1 | <220 | U | 120 | 220 | 360 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <110 | U | 110 | 110 | 360 |
| 98-86-2 | Acetophenone | 1 | <220 | U | 150 | 220 | 360 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <330 | U | 280 | 330 | 360 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <220 | U | 170 | 220 | 360 |
| 67-72-1 | Hexachloroethane | 1 | <110 | UQ | 110 | 110 | 360 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 1 | ~~<220~~ | ~~U~~ | 170 | 220 | 360 |
| 78-59-1 | Isophorone | 1 | <220 | U | 190 | 220 | 360 |
| 88-75-5 | 2-Nitrophenol | 1 | <330 | U | 290 | 330 | 360 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <330 | U | 250 | 330 | 360 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <220 | U | 170 | 220 | 360 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <330 | U | 280 | 330 | 360 |
| 106-47-8 | 4-Chloroaniline | 1 | <110 | U | 72 | 110 | 360 |
| 87-68-3 | Hexachlorobutadiene | 1 | <220 | UQ | 140 | 220 | 360 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <330 | U | 310 | 330 | 360 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <220 | U | 170 | 220 | 360 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <110 | U | 110 | 110 | 360 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <220 | U | 170 | 220 | 360 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <110 | U | 73 | 110 | 360 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <110 | U | 80 | 110 | 360 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <110 | U | 110 | 110 | 360 |
| 88-74-4 | 2-Nitroaniline | 1 | <110 | U | 94 | 110 | 360 |
| 131-11-3 | Dimethylphthalate | 1 | <220 | U | 140 | 220 | 360 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 1 | ~~<220~~ | ~~U~~ | 200 | 220 | 360 |
| 99-09-2 | 3-Nitroaniline | 1 | <110 | U | 88 | 110 | 360 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <110 | U | 98 | 110 | 360 |
| 100-02-7 | 4-Nitrophenol | 1 | <220 | UQ | 140 | 220 | 360 |
| 132-64-9 | Dibenzofuran | 1 | <220 | U | 140 | 220 | 360 |
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | ~~<220~~ | ~~U~~ | 180 | 220 | 360 |



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB30-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-15 | File ID: | 1dx020.D |
| Sampled: | 04/07/15 12:20 | Prepared: | 04/16/15 05:30 | Analyzed: | 04/29/15 16:56 |
| Solids: | 90.84 | Preparation: | EPA 3550C_MS | Initial/Final: | 30.1 g / 1 mL |

Batch: 5D16001 Sequence: AA33648 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <220 | UQ | 180 | 220 | 360 |
| 84-66-2 | Diethylphthalate | 1 | <220 | U | 140 | 220 | 360 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <220 | U | 140 | 220 | 360 |
| 100-01-6 | 4-Nitroaniline | 1 | <330 | U | 290 | 330 | 360 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <330 | U | 310 | 330 | 360 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <330 | U | 250 | 330 | 360 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <220 | U | 140 | 220 | 360 |
| 118-74-1 | Hexachlorobenzene | 1 | <220 | U | 130 | 220 | 360 |
| 1912-24-9 | Atrazine | 1 | <110 | U | 81 | 110 | 360 |
| 87-86-5 | Pentachlorophenol | 1 | <330 | U | 230 | 330 | 360 |
| 86-74-8 | Carbazole | 1 | <220 | U | 130 | 220 | 360 |
| 84-74-2 | Di-n-butylphthalate | 1 | <220 | U | 140 | 220 | 360 |
| 85-68-7 | Butylbenzylphthalate | 1 | <220 | UQ | 150 | 220 | 360 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <330 | U | 230 | 330 | 360 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <220 | UQ | 140 | 220 | 360 |
| 117-84-0 | Di-n-octylphthalate | 1 | <220 | UQ | 140 | 220 | 360 |
| 105-60-2 | Caprolactam | 1 | <330 | U | 330 | 330 | 360 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/kg dry) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1830 | 1200 | 68 | 35 - 105 | |
| Phenol-d5 | 1830 | 1300 | 69 | 40 - 100 | |
| Nitrobenzene-d5 | 1830 | 1200 | 65 | 35 - 100 | |
| 2-Fluorobiphenyl | 1830 | 1500 | 82 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1830 | 1700 | 91 | 35 - 125 | |
| Terphenyl-d14 | 1830 | 2000 | 109 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 315787 | 6.786 | 312803 | 6.966 | |
| Naphthalene-d8 | 1139777 | 8.359 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 583854 | 10.557 | 663746 | 10.753 | |
| Phenanthrene-d10 | 924662 | 12.439 | 1098576 | 12.637 | |
| Chrysene-d12 | 507582 | 15.977 | 565336 | 16.253 | |
| Perylene-d12 | 231415 | 18.912 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-EB040715-SO

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water | Laboratory ID: A502126-16 | File ID: 1de031.D

Sampled: 04/07/15 14:00 | Prepared: 04/08/15 13:30 | Analyzed: 04/11/15 03:47

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 5D07032 | Sequence: AA33386 | Calibration: 1501007 | Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 1 | <9.0 | U | 6.3 | 9.0 | 10 |
| 108-95-2 | Phenol | 1 | <6.0 | U | 5.6 | 6.0 | 10 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <6.0 | U | 3.8 | 6.0 | 10 |
| 95-57-8 | 2-Chlorophenol | 1 | <9.0 | U | 7.4 | 9.0 | 10 |
| 95-48-7 | 2-Methylphenol | 1 | <6.0 | U | 3.5 | 6.0 | 10 |
| 108-60-1 | Bis(2-chloroisopropyl)ether UJ-CCL | 1 | <6.0 | ~~U~~ | 3.5 | 6.0 | 10 |
| 98-86-2 | Acetophenone | 1 | <6.0 | ~~UQ~~ | 3.8 | 6.0 | 10 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <9.0 | U | 8.2 | 9.0 | 10 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <6.0 | U | 4.5 | 6.0 | 10 |
| 67-72-1 | Hexachloroethane | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 98-95-3 | Nitrobenzene EXCLUDE-RE | 1 | ~~<6.0~~ | ~~U~~ | 3.2 | 6.0 | 10 |
| 78-59-1 | Isophorone | 1 | <6.0 | U | 4.5 | 6.0 | 10 |
| 88-75-5 | 2-Nitrophenol | 1 | <6.0 | U | 5.2 | 6.0 | 10 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <9.0 | U | 6.4 | 9.0 | 10 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <9.0 | U | 6.5 | 9.0 | 10 |
| 106-47-8 | 4-Chloroaniline | 1 | <6.0 | U | 4.3 | 6.0 | 10 |
| 87-68-3 | Hexachlorobutadiene | 1 | <6.0 | U | 4.1 | 6.0 | 10 |
| 105-60-2 | Caprolactam | 1 | <3.0 | U | 2.7 | 3.0 | 10 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <9.0 | UQ | 7.3 | 9.0 | 10 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <6.0 | U | 3.8 | 6.0 | 10 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <9.0 | U | 3.2 | 9.0 | 10 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <9.0 | U | 6.4 | 9.0 | 10 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <6.0 | U | 3.9 | 6.0 | 10 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <9.0 | UQ | 7.0 | 9.0 | 10 |
| 91-58-7 | 2-Chloronaphthalene UL-BSL | 1 | <6.0 | ~~UQ~~ | 3.2 | 6.0 | 10 |
| 88-74-4 | 2-Nitroaniline | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 131-11-3 | Dimethylphthalate | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 606-20-2 | 2,6-Dinitrotoluene EXCLUDE-RE | 1 | ~~<3.0~~ | ~~U~~ | 2.9 | 3.0 | 10 |
| 99-09-2 | 3-Nitroaniline | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 51-28-5 | 2,4-Dinitrophenol UL-BSL | 1 | <9.0 | ~~UQ~~ | 7.7 | 9.0 | 10 |
| 100-02-7 | 4-Nitrophenol | 1 | <9.0 | UQ | 7.9 | 9.0 | 10 |
| 132-64-9 | Dibenzofuran | 1 | <3.0 | U | 2.8 | 3.0 | 10 |



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-EB040715-SO

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Water | Laboratory ID: | A502126-16 | File ID: | 1de031.D |
| Sampled: | 04/07/15 14:00 | Prepared: | 04/08/15 13:30 | Analyzed: | 04/11/15 03:47 |
| Solids: | | Preparation: | EPA 3510C_MS | Initial/Final: | 500 mL / 0.5 mL |

Batch: 5D07032 Sequence: AA33386 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | ~~<6.0~~ | ~~UQ~~ | 3.2 | 6.0 | 10 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <6.0 | UQ | 3.4 | 6.0 | 10 |
| 84-66-2 | Diethylphthalate | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 100-01-6 | 4-Nitroaniline | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <6.0 | UQ | 6.0 | 6.0 | 10 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <6.0 | U | 5.4 | 6.0 | 10 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 118-74-1 | Hexachlorobenzene | 1 | <6.0 | U | 3.0 | 6.0 | 10 |
| 1912-24-9 | Atrazine | 1 | <3.0 | UQ | 2.9 | 3.0 | 10 |
| 87-86-5 | Pentachlorophenol | 1 | <9.0 | UQ | 8.2 | 9.0 | 10 |
| 86-74-8 | Carbazole | 1 | <6.0 | UQ | 3.3 | 6.0 | 10 |
| 84-74-2 | Di-n-butylphthalate | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 85-68-7 | Butylbenzylphthalate | 1 | <6.0 | UQ | 5.1 | 6.0 | 10 |
| 91-94-1 | 3,3'-Dichlorobenzidine UJ-CCL | 1 | <6.0 | ~~UQ~~ | 3.3 | 6.0 | 10 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <6.0 | U | 3.5 | 6.0 | 10 |
| 117-84-0 | Di-n-octylphthalate | 1 | <6.0 | U | 3.6 | 6.0 | 10 |

| CAS NO. | TENTATIVELY IDENTIFIED COMPOUND | RT | EST. CONC. (ug/L) | Q |
|---|---|---|---|---|
| | Tentatively Identified Compounds | | 0.0 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 50.0 | 23 | 46 | 20 - 110 | |
| Phenol-d5 | 50.0 | 20 | 41 | 10 - 115 | |
| Nitrobenzene-d5 | 50.0 | 31 | 61 | 40 - 110 | |
| 2-Fluorobiphenyl | 50.0 | 30 | 60 | 50 - 110 | |
| 2,4,6-Tribromophenol | 50.0 | 54 | 108 | 40 - 125 | |
| Terphenyl-d14 | 50.0 | 59 | 119 | 50 - 135 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 314923 | 6.886 | 312803 | 6.966 | |
| Naphthalene-d8 | 1211272 | 8.453 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 658009 | 10.66 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1233670 | 12.538 | 1098576 | 12.637 | |
| Chrysene-d12 | 854655 | 16.121 | 565336 | 16.253 | |
| Perylene-d12 | 471465 | 19.082 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-EB040715-SO

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water | Laboratory ID: A502126-16RE1 | File ID: 1dl017.D

Sampled: 04/07/15 14:00 | Prepared: 04/08/15 13:30 | Analyzed: 04/17/15 17:29

Solids: | Preparation: EPA 3510C_MS | Initial/Final: 500 mL / 0.5 mL

Batch: 5D07032 | Sequence: AA33492 | Calibration: 1501007 | Instrument: OSVGCMS1

EXCLUDE-RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 100-52-7 | Benzaldehyde | 1 | <9.0 | U | 6.3 | 9.0 | 10 |
| 108-95-2 | Phenol | 1 | <6.0 | U | 5.6 | 6.0 | 10 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <6.0 | U | 3.8 | 6.0 | 10 |
| 95-57-8 | 2-Chlorophenol | 1 | <9.0 | U | 7.4 | 9.0 | 10 |
| 95-48-7 | 2-Methylphenol | 1 | <6.0 | U | 3.5 | 6.0 | 10 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <6.0 | U | 3.5 | 6.0 | 10 |
| 98-86-2 | Acetophenone | 1 | <6.0 | U | 3.8 | 6.0 | 10 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <9.0 | ~~UQ~~ | 8.2 | 9.0 | 10 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <6.0 | U | 4.5 | 6.0 | 10 |
| 67-72-1 | Hexachloroethane | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 98-95-3 | Nitrobenzene | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 78-59-1 | Isophorone | 1 | <6.0 | U | 4.5 | 6.0 | 10 |
| 88-75-5 | 2-Nitrophenol | 1 | <6.0 | U | 5.2 | 6.0 | 10 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <9.0 | U | 6.4 | 9.0 | 10 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <6.0 | ~~UQ~~ | 3.3 | 6.0 | 10 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <9.0 | U | 6.5 | 9.0 | 10 |
| 106-47-8 | 4-Chloroaniline | 1 | <6.0 | U | 4.3 | 6.0 | 10 |
| 87-68-3 | Hexachlorobutadiene | 1 | <6.0 | U | 4.1 | 6.0 | 10 |
| 105-60-2 | Caprolactam | 1 | <3.0 | U | 2.7 | 3.0 | 10 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <9.0 | U | 7.3 | 9.0 | 10 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <6.0 | U | 3.8 | 6.0 | 10 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <9.0 | U | 3.2 | 9.0 | 10 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <9.0 | U | 6.4 | 9.0 | 10 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <6.0 | U | 3.9 | 6.0 | 10 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <9.0 | U | 7.0 | 9.0 | 10 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 88-74-4 | 2-Nitroaniline | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 131-11-3 | Dimethylphthalate | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | <3.0 | U | 2.9 | 3.0 | 10 |
| 99-09-2 | 3-Nitroaniline | 1 | <6.0 | ~~UQ~~ | 3.3 | 6.0 | 10 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <9.0 | U | 7.7 | 9.0 | 10 |
| 100-02-7 | 4-Nitrophenol | 1 | <9.0 | U | 7.9 | 9.0 | 10 |
| 132-64-9 | Dibenzofuran | 1 | <3.0 | U | 2.8 | 3.0 | 10 |



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-EB040715-SO

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Water | Laboratory ID: | A502126-16RE1 | File ID: | 1dl017.D |
| Sampled: | 04/07/15 14:00 | Prepared: | 04/08/15 13:30 | Analyzed: | 04/17/15 17:29 |
| Solids: | | Preparation: | EPA 3510C_MS | Initial/Final: | 500 mL / 0.5 mL |

Batch: 5D07032 Sequence: AA33492 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <6.0 | U | 3.4 | 6.0 | 10 |
| 84-66-2 | Diethylphthalate | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 100-01-6 | 4-Nitroaniline | 1 | <6.0 | ~~UQ~~ | 3.2 | 6.0 | 10 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <6.0 | U | 6.0 | 6.0 | 10 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <6.0 | U | 5.4 | 6.0 | 10 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 118-74-1 | Hexachlorobenzene | 1 | <6.0 | U | 3.0 | 6.0 | 10 |
| 1912-24-9 | Atrazine | 1 | <3.0 | ~~UQ~~ | 2.9 | 3.0 | 10 |
| 87-86-5 | Pentachlorophenol | 1 | <9.0 | U | 8.2 | 9.0 | 10 |
| 86-74-8 | Carbazole | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 84-74-2 | Di-n-butylphthalate | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 85-68-7 | Butylbenzylphthalate | 1 | <6.0 | ~~UQ~~ | 5.1 | 6.0 | 10 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <6.0 | ~~UQ~~ | 3.5 | 6.0 | 10 |
| 117-84-0 | Di-n-octylphthalate | 1 | <6.0 | ~~UQ~~ | 3.6 | 6.0 | 10 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2-Fluorophenol | 50.0 | 19 | 37 | 20 - 110 | |
| Phenol-d5 | 50.0 | 15 | 30 | 10 - 115 | |
| Nitrobenzene-d5 | 50.0 | 23 | 46 | 40 - 110 | |
| 2-Fluorobiphenyl | 50.0 | 27 | 54 | 50 - 110 | |
| 2,4,6-Tribromophenol | 50.0 | 48 | 95 | 40 - 125 | |
| Terphenyl-d14 | 50.0 | 49 | 99 | 50 - 135 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 375328 | 6.876 | 312803 | 6.966 | |
| Naphthalene-d8 | 1347877 | 8.443 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 716179 | 10.641 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1119489 | 12.513 | 1098576 | 12.637 | |
| Chrysene-d12 | 580609 | 16.087 | 565336 | 16.253 | |
| Perylene-d12 | 434422 | 19.04 | 404946 | 19.226 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS13-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-01 | File ID: | 2dp033.D |
| Sampled: | 04/07/15 09:25 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/21/15 18:06 |
| Solids: | 78.95 | Preparation: | EPA 3550C_MS | Initial/Final: | 14.7 g / 300 mL |

Batch: 5D09014 Sequence: AA33519 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <34 | U | 23 | 34 | 44 |
| 91-20-3 | Naphthalene | 1 | <34 | U | 23 | 34 | 44 |
| 208-96-8 | Acenaphthylene | 1 | <34 | U | 23 | 34 | 44 |
| 83-32-9 | Acenaphthene | 1 | <34 | U | 19 | 34 | 44 |
| 86-73-7 | Fluorene | 1 | <34 | U | 22 | 34 | 44 |
| 85-01-8 | Phenanthrene | 1 | <34 | U | 19 | 34 | 44 |
| 120-12-7 | Anthracene | 1 | <34 | U | 18 | 34 | 44 |
| 206-44-0 | Fluoranthene | 1 | <34 | U | 22 | 34 | 44 |
| 129-00-0 | Pyrene | 1 | <34 | U | 20 | 34 | 44 |
| 56-55-3 | Benzo(a)anthracene | 1 | <34 | U | 18 | 34 | 44 |
| 218-01-9 | Chrysene | 1 | <34 | U | 15 | 34 | 44 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | 26 | J | 22 | 34 | 44 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <34 | U | 24 | 34 | 44 |
| 50-32-8 | Benzo(a)pyrene | 1 | <34 | U | 19 | 34 | 44 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <34 | U | 19 | 34 | 44 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <34 | U | 20 | 34 | 44 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 34 | J | 19 | 34 | 44 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2580 | 2600 | 102 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 196148 | 5.467 | 229213 | 5.468 | |
| Acenaphthene-d10 | 108068 | 7.266 | 125128 | 7.267 | |
| Phenanthrene-d10 | 176009 | 8.776 | 198421 | 8.783 | |
| Chrysene-d12 | 168182 | 11.897 | 192166 | 11.903 | |
| Perylene-d12 | 132555 | 14.191 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB13-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-02 | File ID: | 2dp034.D |
| Sampled: | 04/07/15 09:35 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/21/15 18:28 |
| Solids: | 80.67 | Preparation: | EPA 3550C_MS | Initial/Final: | 14.8 g / 300 mL |

Batch: 5D09014 Sequence: AA33519 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <33 | U | 22 | 33 | 43 |
| 91-20-3 | Naphthalene | 1 | <33 | U | 22 | 33 | 43 |
| 208-96-8 | Acenaphthylene | 1 | <33 | U | 22 | 33 | 43 |
| 83-32-9 | Acenaphthene | 1 | <33 | U | 19 | 33 | 43 |
| 86-73-7 | Fluorene | 1 | <33 | U | 21 | 33 | 43 |
| 85-01-8 | Phenanthrene | 1 | <33 | U | 19 | 33 | 43 |
| 120-12-7 | Anthracene | 1 | <33 | U | 17 | 33 | 43 |
| 206-44-0 | Fluoranthene | 1 | <33 | U | 21 | 33 | 43 |
| 129-00-0 | Pyrene | 1 | <33 | U | 20 | 33 | 43 |
| 56-55-3 | Benzo(a)anthracene | 1 | <33 | U | 17 | 33 | 43 |
| 218-01-9 | Chrysene | 1 | <33 | U | 15 | 33 | 43 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | 23 | J | 21 | 33 | 43 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <33 | U | 24 | 33 | 43 |
| 50-32-8 | Benzo(a)pyrene | 1 | <33 | U | 19 | 33 | 43 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <33 | U | 19 | 33 | 43 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <33 | U | 20 | 33 | 43 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <33 | U | 19 | 33 | 43 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2510 | 2400 | 97 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 186520 | 5.465 | 229213 | 5.468 | |
| Acenaphthene-d10 | 105222 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 172381 | 8.776 | 198421 | 8.783 | |
| Chrysene-d12 | 160891 | 11.897 | 192166 | 11.903 | |
| Perylene-d12 | 127265 | 14.191 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS20-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-03 | File ID: | 2dq009.D |
| Sampled: | 04/07/15 10:00 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 07:02 |
| Solids: | 66.02 | Preparation: | EPA 3550C_MS | Initial/Final: | 14.8 g / 300 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09014 | Sequence: | AA33541 | Calibration: | 1504079 | Instrument: | OSVGCMS2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <41 | U | 27 | 41 | 53 |
| 91-20-3 | Naphthalene | 1 | <41 | U | 27 | 41 | 53 |
| 208-96-8 | Acenaphthylene | 1 | <41 | U | 27 | 41 | 53 |
| 83-32-9 | Acenaphthene | 1 | <41 | U | 23 | 41 | 53 |
| 86-73-7 | Fluorene | 1 | <41 | U | 26 | 41 | 53 |
| 85-01-8 | Phenanthrene | 1 | <41 | U | 23 | 41 | 53 |
| 120-12-7 | Anthracene | 1 | <41 | U | 21 | 41 | 53 |
| 206-44-0 | Fluoranthene | 1 | <41 | U | 26 | 41 | 53 |
| 129-00-0 | Pyrene | 1 | 25 | J | 24 | 41 | 53 |
| 56-55-3 | Benzo(a)anthracene | 1 | 37 | J | 21 | 41 | 53 |
| 218-01-9 | Chrysene | 1 | 18 | J | 18 | 41 | 53 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | 31 | J | 26 | 41 | 53 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <41 | U | 29 | 41 | 53 |
| 50-32-8 | Benzo(a)pyrene | 1 | <41 | U | 23 | 41 | 53 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <41 | U | 23 | 41 | 53 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <41 | U | 24 | 41 | 53 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 25 | J | 23 | 41 | 53 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 3070 | 3200 | 104 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 159844 | 5.462 | 229213 | 5.468 | |
| Acenaphthene-d10 | 106529 | 7.266 | 125128 | 7.267 | |
| Phenanthrene-d10 | 178008 | 8.782 | 198421 | 8.783 | |
| Chrysene-d12 | 167306 | 11.903 | 192166 | 11.903 | |
| Perylene-d12 | 130209 | 14.198 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB20-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-04 | File ID: | 2dq010.D |
| Sampled: | 04/07/15 10:10 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 07:24 |
| Solids: | 88.28 | Preparation: | EPA 3550C_MS | Initial/Final: | 14.9 g / 300 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09014 | Sequence: | AA33541 | Calibration: | 1504079 | Instrument: | OSVGCMS2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <31 | U | 20 | 31 | 40 |
| 91-20-3 | Naphthalene | 1 | <31 | U | 20 | 31 | 40 |
| 208-96-8 | Acenaphthylene | 1 | <31 | U | 20 | 31 | 40 |
| 83-32-9 | Acenaphthene | 1 | <31 | U | 17 | 31 | 40 |
| 86-73-7 | Fluorene | 1 | <31 | U | 19 | 31 | 40 |
| 85-01-8 | Phenanthrene | 1 | <31 | U | 17 | 31 | 40 |
| 120-12-7 | Anthracene | 1 | <31 | U | 16 | 31 | 40 |
| 206-44-0 | Fluoranthene | 1 | <31 | U | 19 | 31 | 40 |
| 129-00-0 | Pyrene | 1 | <31 | U | 18 | 31 | 40 |
| 56-55-3 | Benzo(a)anthracene | 1 | <31 | U | 16 | 31 | 40 |
| 218-01-9 | Chrysene | 1 | <31 | U | 14 | 31 | 40 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <31 | U | 19 | 31 | 40 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <31 | U | 22 | 31 | 40 |
| 50-32-8 | Benzo(a)pyrene | 1 | <31 | U | 17 | 31 | 40 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <31 | U | 17 | 31 | 40 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <31 | U | 18 | 31 | 40 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <31 | U | 17 | 31 | 40 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2280 | 2200 | 96 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 173504 | 5.466 | 229213 | 5.468 | |
| Acenaphthene-d10 | 117442 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 195208 | 8.782 | 198421 | 8.783 | |
| Chrysene-d12 | 186060 | 11.908 | 192166 | 11.903 | |
| Perylene-d12 | 146325 | 14.198 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS21-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-05 | File ID: | 2dq011.D |
| Sampled: | 04/07/15 10:30 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 07:45 |
| Solids: | 85.78 | Preparation: | EPA 3550C_MS | Initial/Final: | 15.3 g / 300 mL |

Batch: 5D09014 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <31 | U | 21 | 31 | 41 |
| 91-20-3 | Naphthalene | 1 | <31 | U | 21 | 31 | 41 |
| 208-96-8 | Acenaphthylene | 1 | <31 | U | 21 | 31 | 41 |
| 83-32-9 | Acenaphthene | 1 | <31 | U | 17 | 31 | 41 |
| 86-73-7 | Fluorene | 1 | <31 | U | 20 | 31 | 41 |
| 85-01-8 | Phenanthrene | 1 | <31 | U | 17 | 31 | 41 |
| 120-12-7 | Anthracene | 1 | <31 | U | 16 | 31 | 41 |
| 206-44-0 | Fluoranthene | 1 | <31 | U | 20 | 31 | 41 |
| 129-00-0 | Pyrene | 1 | <31 | U | 19 | 31 | 41 |
| 56-55-3 | Benzo(a)anthracene | 1 | <31 | U | 16 | 31 | 41 |
| 218-01-9 | Chrysene | 1 | <31 | U | 14 | 31 | 41 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <31 | U | 20 | 31 | 41 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <31 | U | 22 | 31 | 41 |
| 50-32-8 | Benzo(a)pyrene | 1 | <31 | U | 17 | 31 | 41 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <31 | U | 17 | 31 | 41 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <31 | U | 19 | 31 | 41 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <31 | U | 17 | 31 | 41 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2290 | 2300 | 101 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 178578 | 5.466 | 229213 | 5.468 | |
| Acenaphthene-d10 | 117448 | 7.266 | 125128 | 7.267 | |
| Phenanthrene-d10 | 195579 | 8.782 | 198421 | 8.783 | |
| Chrysene-d12 | 186595 | 11.907 | 192166 | 11.903 | |
| Perylene-d12 | 145707 | 14.198 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB21-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-06 | File ID: | 2dq012.D |
| Sampled: | 04/07/15 10:40 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 08:07 |
| Solids: | 86.94 | Preparation: | EPA 3550C_MS | Initial/Final: | 15.5 g / 300 mL |

Batch: 5D09014 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <31 | U | 21 | 31 | 40 |
| 91-20-3 | Naphthalene | 1 | <31 | U | 21 | 31 | 40 |
| 208-96-8 | Acenaphthylene | 1 | 22 | J | 21 | 31 | 40 |
| 83-32-9 | Acenaphthene | 1 | <31 | U | 17 | 31 | 40 |
| 86-73-7 | Fluorene | 1 | <31 | U | 20 | 31 | 40 |
| 85-01-8 | Phenanthrene | 1 | 100 | | 17 | 31 | 40 |
| 120-12-7 | Anthracene | 1 | 16 | J | 16 | 31 | 40 |
| 206-44-0 | Fluoranthene | 1 | 330 | | 20 | 31 | 40 |
| 129-00-0 | Pyrene | 1 | 250 | | 18 | 31 | 40 |
| 56-55-3 | Benzo(a)anthracene | 1 | 60 | | 16 | 31 | 40 |
| 218-01-9 | Chrysene | 1 | 160 | | 14 | 31 | 40 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | 210 | | 20 | 31 | 40 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | 71 | | 22 | 31 | 40 |
| 50-32-8 | Benzo(a)pyrene | 1 | 62 | | 17 | 31 | 40 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | 53 | | 17 | 31 | 40 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <31 | U | 18 | 31 | 40 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 62 | | 17 | 31 | 40 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2230 | 2000 | 92 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 178820 | 5.466 | 229213 | 5.468 | |
| Acenaphthene-d10 | 118613 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 196584 | 8.783 | 198421 | 8.783 | |
| Chrysene-d12 | 182368 | 11.909 | 192166 | 11.903 | |
| Perylene-d12 | 142476 | 14.197 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS27-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-07 | File ID: | 2dq013.D |
| Sampled: | 04/07/15 12:40 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 08:28 |
| Solids: | 87.11 | Preparation: | EPA 3550C_MS | Initial/Final: | 14.8 g / 300 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09014 | Sequence: | AA33541 | Calibration: | 1504079 | Instrument: | OSVGCMS2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <31 | U | 21 | 31 | 40 |
| 91-20-3 | Naphthalene | 1 | <31 | U | 21 | 31 | 40 |
| 208-96-8 | Acenaphthylene | 1 | <31 | U | 21 | 31 | 40 |
| 83-32-9 | Acenaphthene | 1 | <31 | U | 17 | 31 | 40 |
| 86-73-7 | Fluorene | 1 | <31 | U | 20 | 31 | 40 |
| 85-01-8 | Phenanthrene | 1 | <31 | U | 17 | 31 | 40 |
| 120-12-7 | Anthracene | 1 | <31 | U | 16 | 31 | 40 |
| 206-44-0 | Fluoranthene | 1 | 42 | | 20 | 31 | 40 |
| 129-00-0 | Pyrene | 1 | 40 | | 18 | 31 | 40 |
| 56-55-3 | Benzo(a)anthracene | 1 | 28 | J | 16 | 31 | 40 |
| 218-01-9 | Chrysene | 1 | 35 | J | 14 | 31 | 40 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | 67 | | 20 | 31 | 40 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | 26 | J | 22 | 31 | 40 |
| 50-32-8 | Benzo(a)pyrene | 1 | 23 | J | 17 | 31 | 40 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | 21 | J | 17 | 31 | 40 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <31 | U | 18 | 31 | 40 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 26 | J | 17 | 31 | 40 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2330 | 2000 | 88 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 191705 | 5.468 | 229213 | 5.468 | |
| Acenaphthene-d10 | 124425 | 7.266 | 125128 | 7.267 | |
| Phenanthrene-d10 | 205922 | 8.783 | 198421 | 8.783 | |
| Chrysene-d12 | 188319 | 11.907 | 192166 | 11.903 | |
| Perylene-d12 | 147190 | 14.197 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB27-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-08 | File ID: | 2dq014.D |
| Sampled: | 04/07/15 12:50 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 08:50 |
| Solids: | 85.89 | Preparation: | EPA 3550C_MS | Initial/Final: | 15.1 g / 300 mL |

Batch: 5D09014 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <31 | U | 21 | 31 | 41 |
| 91-20-3 | Naphthalene | 1 | <31 | U | 21 | 31 | 41 |
| 208-96-8 | Acenaphthylene | 1 | <31 | U | 21 | 31 | 41 |
| 83-32-9 | Acenaphthene | 1 | <31 | U | 17 | 31 | 41 |
| 86-73-7 | Fluorene | 1 | <31 | U | 20 | 31 | 41 |
| 85-01-8 | Phenanthrene | 1 | <31 | U | 17 | 31 | 41 |
| 120-12-7 | Anthracene | 1 | <31 | U | 16 | 31 | 41 |
| 206-44-0 | Fluoranthene | 1 | 21 | J | 20 | 31 | 41 |
| 129-00-0 | Pyrene | 1 | 19 | J | 19 | 31 | 41 |
| 56-55-3 | Benzo(a)anthracene | 1 | 19 | J | 16 | 31 | 41 |
| 218-01-9 | Chrysene | 1 | 19 | J | 14 | 31 | 41 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | 42 | | 20 | 31 | 41 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <31 | U | 22 | 31 | 41 |
| 50-32-8 | Benzo(a)pyrene | 1 | <31 | U | 17 | 31 | 41 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <31 | U | 17 | 31 | 41 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <31 | U | 19 | 31 | 41 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 21 | J | 17 | 31 | 41 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2310 | 2200 | 95 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 194363 | 5.468 | 229213 | 5.468 | |
| Acenaphthene-d10 | 123476 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 203684 | 8.781 | 198421 | 8.783 | |
| Chrysene-d12 | 192003 | 11.908 | 192166 | 11.903 | |
| Perylene-d12 | 150139 | 14.198 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS28-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-09 | File ID: | 2dq015.D |
| Sampled: | 04/07/15 13:30 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 09:11 |
| Solids: | 81.26 | Preparation: | EPA 3550C_MS | Initial/Final: | 14.8 g / 300 mL |

Batch: 5D09014 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <33 | U | 22 | 33 | 43 |
| 91-20-3 | Naphthalene | 1 | <33 | U | 22 | 33 | 43 |
| 208-96-8 | Acenaphthylene | 1 | <33 | U | 22 | 33 | 43 |
| 83-32-9 | Acenaphthene | 1 | <33 | U | 18 | 33 | 43 |
| 86-73-7 | Fluorene | 1 | <33 | U | 21 | 33 | 43 |
| 85-01-8 | Phenanthrene | 1 | <33 | U | 18 | 33 | 43 |
| 120-12-7 | Anthracene | 1 | <33 | U | 17 | 33 | 43 |
| 206-44-0 | Fluoranthene | 1 | 250 | | 21 | 33 | 43 |
| 129-00-0 | Pyrene | 1 | 250 | | 20 | 33 | 43 |
| 56-55-3 | Benzo(a)anthracene | 1 | 120 | | 17 | 33 | 43 |
| 218-01-9 | Chrysene | 1 | 210 | | 15 | 33 | 43 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | 360 | | 21 | 33 | 43 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | 120 | | 23 | 33 | 43 |
| 50-32-8 | Benzo(a)pyrene | 1 | 160 | | 18 | 33 | 43 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | 100 | | 18 | 33 | 43 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | 27 | J | 20 | 33 | 43 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 120 | | 18 | 33 | 43 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2490 | 2400 | 97 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 192953 | 5.468 | 229213 | 5.468 | |
| Acenaphthene-d10 | 125081 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 208008 | 8.783 | 198421 | 8.783 | |
| Chrysene-d12 | 190876 | 11.908 | 192166 | 11.903 | |
| Perylene-d12 | 149778 | 14.197 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

**YS25-SB28-0H02-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10 | File ID: | 2dq016.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 09:33 |
| Solids: | 86.93 | Preparation: | EPA 3550C_MS | Initial/Final: | 14.8 g / 300 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09014 | Sequence: | AA33541 | Calibration: | 1504079 | Instrument: | OSVGCMS2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <31 | U | 21 | 31 | 40 |
| 91-20-3 | Naphthalene | 1 | <31 | U | 21 | 31 | 40 |
| 208-96-8 | Acenaphthylene | 1 | <31 | U | 21 | 31 | 40 |
| 83-32-9 | Acenaphthene | 1 | <31 | U | 17 | 31 | 40 |
| 86-73-7 | Fluorene | 1 | <31 | U | 20 | 31 | 40 |
| 85-01-8 | Phenanthrene | 1 | <31 | U | 17 | 31 | 40 |
| 120-12-7 | Anthracene | 1 | <31 | U | 16 | 31 | 40 |
| 206-44-0 | Fluoranthene | 1 | 28 | J | 20 | 31 | 40 |
| 129-00-0 | Pyrene | 1 | 30 | J | 18 | 31 | 40 |
| 56-55-3 | Benzo(a)anthracene | 1 | 30 | J | 16 | 31 | 40 |
| 218-01-9 | Chrysene | 1 | 23 | J | 14 | 31 | 40 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | 61 | | 20 | 31 | 40 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <31 | U | 22 | 31 | 40 |
| 50-32-8 | Benzo(a)pyrene | 1 | 28 | J | 17 | 31 | 40 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | 19 | J | 17 | 31 | 40 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <31 | U | 18 | 31 | 40 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 23 | J | 17 | 31 | 40 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2330 | 2200 | 96 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 179461 | 5.466 | 229213 | 5.468 | |
| Acenaphthene-d10 | 115717 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 193133 | 8.783 | 198421 | 8.783 | |
| Chrysene-d12 | 179564 | 11.903 | 192166 | 11.903 | |
| Perylene-d12 | 140114 | 14.197 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SS29-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-12 | File ID: | 2dq017.D |
| Sampled: | 04/07/15 11:10 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 09:54 |
| Solids: | 76.57 | Preparation: | EPA 3550C_MS | Initial/Final: | 14.7 g / 300 mL |

Batch: 5D09014 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <35 | U | 24 | 35 | 46 |
| 91-20-3 | Naphthalene | 1 | <35 | U | 24 | 35 | 46 |
| 208-96-8 | Acenaphthylene | 1 | <35 | U | 24 | 35 | 46 |
| 83-32-9 | Acenaphthene | 1 | <35 | U | 20 | 35 | 46 |
| 86-73-7 | Fluorene | 1 | <35 | U | 22 | 35 | 46 |
| 85-01-8 | Phenanthrene | 1 | <35 | U | 20 | 35 | 46 |
| 120-12-7 | Anthracene | 1 | <35 | U | 18 | 35 | 46 |
| 206-44-0 | Fluoranthene | 1 | <35 | U | 22 | 35 | 46 |
| 129-00-0 | Pyrene | 1 | <35 | U | 21 | 35 | 46 |
| 56-55-3 | Benzo(a)anthracene | 1 | <35 | U | 18 | 35 | 46 |
| 218-01-9 | Chrysene | 1 | <35 | U | 16 | 35 | 46 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <35 | U | 22 | 35 | 46 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <35 | U | 25 | 35 | 46 |
| 50-32-8 | Benzo(a)pyrene | 1 | <35 | U | 20 | 35 | 46 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <35 | U | 20 | 35 | 46 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <35 | U | 21 | 35 | 46 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <35 | U | 20 | 35 | 46 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2670 | 2300 | 88 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 191305 | 5.465 | 229213 | 5.468 | |
| Acenaphthene-d10 | 119604 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 200395 | 8.782 | 198421 | 8.783 | |
| Chrysene-d12 | 191295 | 11.907 | 192166 | 11.903 | |
| Perylene-d12 | 148422 | 14.196 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB29-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-13 | File ID: | 2dq018.D |
| Sampled: | 04/07/15 11:20 | Prepared: | 04/09/15 12:54 | Analyzed: | 04/22/15 10:16 |
| Solids: | 78.66 | Preparation: | EPA 3550C_MS | Initial/Final: | 15 g / 300 mL |

Batch: 5D09014 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <34 | U | 23 | 34 | 44 |
| 91-20-3 | Naphthalene | 1 | <34 | U | 23 | 34 | 44 |
| 208-96-8 | Acenaphthylene | 1 | <34 | U | 23 | 34 | 44 |
| 83-32-9 | Acenaphthene | 1 | <34 | U | 19 | 34 | 44 |
| 86-73-7 | Fluorene | 1 | <34 | U | 22 | 34 | 44 |
| 85-01-8 | Phenanthrene | 1 | <34 | U | 19 | 34 | 44 |
| 120-12-7 | Anthracene | 1 | <34 | U | 18 | 34 | 44 |
| 206-44-0 | Fluoranthene | 1 | <34 | U | 22 | 34 | 44 |
| 129-00-0 | Pyrene | 1 | <34 | U | 20 | 34 | 44 |
| 56-55-3 | Benzo(a)anthracene | 1 | <34 | U | 18 | 34 | 44 |
| 218-01-9 | Chrysene | 1 | <34 | U | 15 | 34 | 44 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <34 | U | 22 | 34 | 44 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <34 | U | 24 | 34 | 44 |
| 50-32-8 | Benzo(a)pyrene | 1 | <34 | U | 19 | 34 | 44 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <34 | U | 19 | 34 | 44 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <34 | U | 20 | 34 | 44 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <34 | U | 19 | 34 | 44 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2540 | 2200 | 88 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 192744 | 5.466 | 229213 | 5.468 | |
| Acenaphthene-d10 | 123574 | 7.266 | 125128 | 7.267 | |
| Phenanthrene-d10 | 205668 | 8.783 | 198421 | 8.783 | |
| Chrysene-d12 | 193071 | 11.902 | 192166 | 11.903 | |
| Perylene-d12 | 150489 | 14.197 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

**YS25-SS30-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-14 | File ID: | 2dq031.D |
| Sampled: | 04/07/15 12:10 | Prepared: | 04/15/15 08:30 | Analyzed: | 04/22/15 14:57 |
| Solids: | 90.48 | Preparation: | EPA 3550C_MS | Initial/Final: | 15 g / 300 mL |

Batch: 5D15010 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <30 | U | 20 | 30 | 39 |
| 91-20-3 | Naphthalene | 1 | <30 | U | 20 | 30 | 39 |
| 208-96-8 | Acenaphthylene | 1 | <30 | U | 20 | 30 | 39 |
| 83-32-9 | Acenaphthene | 1 | <30 | U | 17 | 30 | 39 |
| 86-73-7 | Fluorene | 1 | <30 | U | 19 | 30 | 39 |
| 85-01-8 | Phenanthrene | 1 | <30 | U | 17 | 30 | 39 |
| 120-12-7 | Anthracene | 1 | <30 | U | 15 | 30 | 39 |
| 206-44-0 | Fluoranthene | 1 | <30 | U | 19 | 30 | 39 |
| 129-00-0 | Pyrene | 1 | <30 | U | 18 | 30 | 39 |
| 56-55-3 | Benzo(a)anthracene | 1 | <30 | U | 15 | 30 | 39 |
| 218-01-9 | Chrysene | 1 | <30 | U | 13 | 30 | 39 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <30 | U | 19 | 30 | 39 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <30 | U | 21 | 30 | 39 |
| 50-32-8 | Benzo(a)pyrene | 1 | <30 | U | 17 | 30 | 39 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <30 | U | 17 | 30 | 39 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <30 | U | 18 | 30 | 39 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <30 | U | 17 | 30 | 39 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2210 | 2200 | 98 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 164430 | 5.468 | 229213 | 5.468 | |
| Acenaphthene-d10 | 106460 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 175949 | 8.783 | 198421 | 8.783 | |
| Chrysene-d12 | 164358 | 11.903 | 192166 | 11.903 | |
| Perylene-d12 | 125254 | 14.197 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-SB30-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-15 | File ID: | 2dq032.D |
| Sampled: | 04/07/15 12:20 | Prepared: | 04/15/15 08:30 | Analyzed: | 04/22/15 15:18 |
| Solids: | 90.84 | Preparation: | EPA 3550C_MS | Initial/Final: | 15 g / 300 mL |

Batch: 5D15010 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <30 | U | 20 | 30 | 39 |
| 91-20-3 | Naphthalene | 1 | <30 | U | 20 | 30 | 39 |
| 208-96-8 | Acenaphthylene | 1 | <30 | U | 20 | 30 | 39 |
| 83-32-9 | Acenaphthene | 1 | <30 | U | 17 | 30 | 39 |
| 86-73-7 | Fluorene | 1 | <30 | U | 19 | 30 | 39 |
| 85-01-8 | Phenanthrene | 1 | <30 | U | 17 | 30 | 39 |
| 120-12-7 | Anthracene | 1 | <30 | U | 15 | 30 | 39 |
| 206-44-0 | Fluoranthene | 1 | <30 | U | 19 | 30 | 39 |
| 129-00-0 | Pyrene | 1 | <30 | U | 18 | 30 | 39 |
| 56-55-3 | Benzo(a)anthracene | 1 | <30 | U | 15 | 30 | 39 |
| 218-01-9 | Chrysene | 1 | <30 | U | 13 | 30 | 39 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <30 | U | 19 | 30 | 39 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <30 | U | 21 | 30 | 39 |
| 50-32-8 | Benzo(a)pyrene | 1 | <30 | U | 17 | 30 | 39 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <30 | U | 17 | 30 | 39 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <30 | U | 18 | 30 | 39 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <30 | U | 17 | 30 | 39 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 2200 | 2100 | 96 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 166774 | 5.467 | 229213 | 5.468 | |
| Acenaphthene-d10 | 110005 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 180430 | 8.781 | 198421 | 8.783 | |
| Chrysene-d12 | 168266 | 11.902 | 192166 | 11.903 | |
| Perylene-d12 | 130733 | 14.191 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ORGANIC ANALYSIS DATA SHEET

## EPA 8270D

YS25-EB040715-SO

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Water | Laboratory ID: | A502126-16 | File ID: | 2dp018.D |
| Sampled: | 04/07/15 14:00 | Prepared: | 04/13/15 06:50 | Analyzed: | 04/21/15 12:43 |
| Solids: | | Preparation: | EPA 3511_MS | Initial/Final: | 35 mL / 2 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D13003 | Sequence: | AA33519 | Calibration: | 1504079 | Instrument: | OSVGCMS2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 91-57-6 | 2-Methylnaphthalene | 1 | <0.090 | U | 0.044 | 0.090 | 0.10 |
| 91-20-3 | Naphthalene | 1 | <0.090 | U | 0.035 | 0.090 | 0.10 |
| 208-96-8 | Acenaphthylene | 1 | <0.090 | U | 0.036 | 0.090 | 0.10 |
| 83-32-9 | Acenaphthene | 1 | <0.090 | U | 0.037 | 0.090 | 0.10 |
| 86-73-7 | Fluorene | 1 | <0.090 | U | 0.038 | 0.090 | 0.10 |
| 85-01-8 | Phenanthrene | 1 | <0.090 | U | 0.039 | 0.090 | 0.10 |
| 120-12-7 | Anthracene | 1 | <0.090 | U | 0.036 | 0.090 | 0.10 |
| 206-44-0 | Fluoranthene | 1 | <0.090 | U | 0.051 | 0.090 | 0.10 |
| 129-00-0 | Pyrene | 1 | <0.090 | U | 0.048 | 0.090 | 0.10 |
| 56-55-3 | Benzo(a)anthracene | 1 | <0.090 | U | 0.037 | 0.090 | 0.10 |
| 218-01-9 | Chrysene | 1 | <0.090 | U | 0.051 | 0.090 | 0.10 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <0.090 | U | 0.059 | 0.090 | 0.10 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <0.090 | U | 0.046 | 0.090 | 0.10 |
| 50-32-8 | Benzo(a)pyrene | 1 | <0.090 | U | 0.043 | 0.090 | 0.10 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <0.090 | U | 0.037 | 0.090 | 0.10 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | <0.090 | U | 0.026 | 0.090 | 0.10 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <0.090 | U | 0.040 | 0.090 | 0.10 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| p-Terphenyl | 5.71 | 6.6 | 116 | 58 - 132 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Naphthalene-d8 | 200624 | 5.46 | 229213 | 5.468 | |
| Acenaphthene-d10 | 120293 | 7.266 | 125128 | 7.267 | |
| Phenanthrene-d10 | 194257 | 8.776 | 198421 | 8.783 | |
| Chrysene-d12 | 187321 | 11.897 | 192166 | 11.903 | |
| Perylene-d12 | 150626 | 14.187 | 158591 | 14.197 | |

* Values outside of QC limits



TAH 7/10/15

# ANALYSIS DATA SHEET

**YS25-SS13-0415**

Laboratory: Empirical Laboratories, LLC
SDG: 1504057
Client: Environmental Conservation Laborato
Project: Yorktown Site 25 CTO-WE19
Matrix: Solid
Prepared: 04/13/15 16:35
Dilution: 1
Sampled: 04/07/15 09:25
Preparation: EXT_EXPL_S
Batch: 5D09915
Solids:
Laboratory ID: 1504057-01
File ID: 132V3201.D.Report.TXT
Sequence: 5D10505
Analyzed: 04/15/15 00:51
Calibration: 5086002
Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 99-99-0 | 4-Nitrotoluene | **0.0740** | 0.0199 | 0.0398 | 0.0796 | J |
| 2691-41-0 | HMX EXCLUDE-LR | ~~**253**~~ | ~~0.0199~~ | ~~0.0398~~ | ~~0.0796~~ | ~~E P~~ |
| 78-11-5 | PETN J-2C | **0.0726** | 0.0498 | 0.0995 | 0.199 | ~~J P~~ |
| 121-82-4 | RDX | **0.463** | 0.0199 | 0.0398 | 0.0796 | |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0796 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1990 | 0.1702 | 86 | 84 - 127 | |

Laboratory ID: 1504057-01RE1
**Second Column Analysis**
File ID: 030V3001.D.Report.TXT
Sequence: 5D10607
Analyzed: 04/15/15 15:53
Calibration: 5096002
Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0796 | ~~Q~~U |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0995 | 0.199 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1990 | 0.1682 | 85 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

**YS25-SS13-0415**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/13/15 16:35 | Dilution: | 50 |
| Sampled: | 04/07/15 09:25 | Preparation: | EXT_EXPL_S | Batch: | 5D09915 |
| Solids: | | | | | |
| Laboratory ID: | 1504057-01RE2 | | | File ID: | 102V0201.D.Report.TXT |
| Sequence: | 5D10705 | | | Analyzed: | 04/15/15 13:25 |
| Calibration: | 5086002 | | | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 2691-41-0 | HMX J-2C | **817** | 0.995 | 1.99 | 3.98 | ~~D P~~ |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1990 | ND | | 84 - 127 | DU |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 1 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SB13-0H02-0415

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/13/15 16:35 | Dilution: | 1 |
| Sampled: | 04/07/15 09:35 | Preparation: | EXT_EXPL_S | Batch: | 5D09915 |

Solids:

| | | | |
|---|---|---|---|
| Laboratory ID: | 1504057-02 | File ID: | 133V3301.D.Report.TXT |
| Sequence: | 5D10505 | Analyzed: | 04/15/15 01:20 |
| Calibration: | 5086002 | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 118-96-7 | 2,4,6-Trinitrotoluene UL-SSL | | 0.0199 | 0.0398 | 0.0797 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0797 | ~~QU~~ |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 2691-41-0 | HMX L-SSL | **10.5** | 0.0199 | 0.0398 | 0.0797 | |
| 98-95-3 | Nitrobenzene UL-SSL | | 0.0199 | 0.0398 | 0.0797 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0996 | 0.199 | U |
| 78-11-5 | PETN | | 0.0498 | 0.0996 | 0.199 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0797 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 0.1366 | 69 | 84 - 127 | * |

| | | | | |
|---|---|---|---|---|
| Laboratory ID: | 1504057-02RE1 | **Second Column Analysis** | File ID: | 031V3101.D.Report.TXT |
| Sequence: | 5D10607 | | Analyzed: | 04/15/15 16:56 |
| Calibration: | 5096002 | | Instrument: | HPLC2-[C2] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0398 | 0.0797 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 0.1814 | 91 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SS20-0415

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/13/15 16:35 | Dilution: | 1 |
| Sampled: | 04/07/15 10:00 | Preparation: | EXT_EXPL_S | Batch: | 5D09915 |

Solids:

| | | | |
|---|---|---|---|
| Laboratory ID: | 1504057-03 | File ID: | 136V3601.D.Report.TXT |
| Sequence: | 5D10505 | Analyzed: | 04/15/15 02:48 |
| Calibration: | 5086002 | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0198 | 0.0397 | 0.0794 | QU |
| 99-08-1 | 3-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 2691-41-0 | HMX | **18.9** | 0.0198 | 0.0397 | 0.0794 | |
| 98-95-3 | Nitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 55-63-0 | Nitroglycerin | | 0.0496 | 0.0992 | 0.198 | U |
| 479-45-8 | Tetryl | | 0.0198 | 0.0397 | 0.0794 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1984 | 0.1854 | 93 | 84 - 127 | |

| | | | | |
|---|---|---|---|---|
| Laboratory ID: | 1504057-03RE1 | **Second Column Analysis** | File ID: | 032V3201.D.Report.TXT |
| Sequence: | 5D10607 | | Analyzed: | 04/15/15 17:59 |
| Calibration: | 5096002 | | Instrument: | HPLC2-[C2] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 78-11-5 | PETN | | 0.0496 | 0.0992 | 0.198 | U |
| 121-82-4 | RDX | | 0.0198 | 0.0397 | 0.0794 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1984 | 0.1991 | 100 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SB20-0H02-0415

Laboratory: Empirical Laboratories, LLC
SDG: 1504057
Client: Environmental Conservation Laborato
Project: Yorktown Site 25 CTO-WE19
Matrix: Water
Prepared: 04/13/15 16:35
Dilution: 1
Sampled: 04/07/15 10:10
Preparation: EXT_EXPL_S
Batch: 5D09915
Solids:
Laboratory ID: 1504057-04
File ID: 137V3701.D.Report.TXT
Sequence: 5D10505
Analyzed: 04/15/15 03:17
Calibration: 5086002
Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0399 | 0.0798 | QU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 2691-41-0 | HMX | **0.216** | 0.0199 | 0.0399 | 0.0798 | |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 55-63-0 | Nitroglycerin | | 0.0499 | 0.0997 | 0.199 | U |
| 78-11-5 | PETN | | 0.0499 | 0.0997 | 0.199 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0399 | 0.0798 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1994 | 0.1917 | 96 | 84 - 127 | |

Laboratory ID: 1504057-04RE1
**Second Column Analysis**
File ID: 033V3301.D.Report.TXT
Sequence: 5D10607
Analyzed: 04/15/15 19:02
Calibration: 5096002
Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0399 | 0.0798 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1994 | 0.1904 | 95 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SS21-0415

Laboratory: Empirical Laboratories, LLC
SDG: 1504057
Client: Environmental Conservation Laborato
Project: Yorktown Site 25 CTO-WE19
Matrix: Solid
Prepared: 04/13/15 16:35
Dilution: 1
Sampled: 04/07/15 10:30
Preparation: EXT_EXPL_S
Batch: 5D09915
Solids:
Laboratory ID: 1504057-05
File ID: 138V3801.D.Report.TXT
Sequence: 5D10505
Analyzed: 04/15/15 03:46
Calibration: 5086002
Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|---|
| 118-96-7 | 2,4,6-Trinitrotoluene | UL-SSL | | 0.0199 | 0.0399 | 0.0798 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | | 0.0199 | 0.0399 | 0.0798 | U |
| 618-87-1 | 3,5-Dinitroaniline | | | 0.0399 | 0.0399 | 0.0798 | ~~QUC9~~ |
| 99-08-1 | 3-Nitrotoluene | | | 0.0199 | 0.0399 | 0.0798 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | | 0.0199 | 0.0399 | 0.0798 | U |
| 99-99-0 | 4-Nitrotoluene | L-SSL | **0.0437** | 0.0199 | 0.0399 | 0.0798 | ~~JMP~~ |
| 2691-41-0 | HMX | EXCLUDE-LR | ~~**117**~~ | ~~0.0199~~ | ~~0.0399~~ | ~~0.0798~~ | ~~E~~ |
| 98-95-3 | Nitrobenzene | UL-SSL | | 0.0399 | 0.0399 | 0.0798 | ~~UC9~~ |
| 78-11-5 | PETN | L-SSL | **0.199** | 0.0499 | 0.0997 | 0.199 | J |
| 121-82-4 | RDX | L-SSL | **0.121** | 0.0199 | 0.0399 | 0.0798 | ~~P~~ |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1994 | 0.1333 | 67 | 84 - 127 | * |

Laboratory ID: 1504057-05RE1
**Second Column Analysis**
File ID: 035V3501.D.Report.TXT
Sequence: 5D10607
Analyzed: 04/15/15 21:08
Calibration: 5096002
Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 55-63-0 | Nitroglycerin | | 0.0499 | 0.0997 | 0.199 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0399 | 0.0798 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1994 | 0.1689 | 85 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

**YS25-SS21-0415**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/13/15 16:35 | Dilution: | 20 |
| Sampled: | 04/07/15 10:30 | Preparation: | EXT_EXPL_S | Batch: | 5D09915 |
| Solids: | | | | | |
| Laboratory ID: | 1504057-05RE2 | | | File ID: | 103V0301.D.Report.TXT |
| Sequence: | 5D10705 | | | Analyzed: | 04/15/15 13:55 |
| Calibration: | 5086002 | | | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 2691-41-0 | HMX K-SSH | **134** | 0.399 | 0.798 | 1.60 | ~~D~~ |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1994 | 0.9628 | 483 | 84 - 127 | ~~D~~ |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 1 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

**YS25-SB21-0H02-0415**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/13/15 16:35 | Dilution: | 1 |
| Sampled: | 04/07/15 10:40 | Preparation: | EXT_EXPL_S | Batch: | 5D09915 |

Solids:

| | | | |
|---|---|---|---|
| Laboratory ID: | 1504057-06 | File ID: | 139V3901.D.Report.TXT |
| Sequence: | 5D10505 | Analyzed: | 04/15/15 04:15 |
| Calibration: | 5086002 | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0797 | ~~U~~ |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 2691-41-0 | HMX EXCLUDE-LR | ~~**67.5**~~ | ~~0.0199~~ | ~~0.0398~~ | ~~0.0797~~ | ~~E~~ |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0996 | 0.199 | U |
| 78-11-5 | PETN | | 0.0498 | 0.0996 | 0.199 | U |
| 121-82-4 | RDX K-SSH | **0.0642** | 0.0199 | 0.0398 | 0.0797 | ~~J P~~ |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0797 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 13.84 | 6950 | 84 - 127 | * |

| | | | | |
|---|---|---|---|---|
| Laboratory ID: | 1504057-06RE1 | **Second Column Analysis** | File ID: | 036V3601.D.Report.TXT |
| Sequence: | 5D10607 | | Analyzed: | 04/15/15 22:11 |
| Calibration: | 5096002 | | Instrument: | HPLC2-[C2] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 0.2059 | 103 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SB21-0H02-0415

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/13/15 16:35 | Dilution: | 10 |
| Sampled: | 04/07/15 10:40 | Preparation: | EXT_EXPL_S | Batch: | 5D09915 |
| Solids: | | | | | |
| Laboratory ID: | 1504057-06RE2 | | | File ID: | 104V0401.D.Report.TXT |
| Sequence: | 5D10705 | | | Analyzed: | 04/15/15 14:24 |
| Calibration: | 5086002 | | | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 2691-41-0 | HMX K-SSH | **67.6** | 0.199 | 0.398 | 0.797 | ~~D~~ |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 7.247 | 3640 | 84 - 127 | * |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 1 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

**YS25-SS27-0415**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/13/15 16:35 | Dilution: | 1 |
| Sampled: | 04/07/15 12:40 | Preparation: | EXT_EXPL_S | Batch: | 5D09915 |

Solids:

| | | | |
|---|---|---|---|
| Laboratory ID: | 1504057-07 | File ID: | 140V4001.D.Report.TXT |
| Sequence: | 5D10505 | Analyzed: | 04/15/15 04:44 |
| Calibration: | 5086002 | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0397 | 0.0794 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0397 | 0.0794 | ØU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0397 | 0.0794 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0397 | 0.0794 | U |
| 55-63-0 | Nitroglycerin | | 0.0497 | 0.0993 | 0.199 | U |
| 78-11-5 | PETN | | 0.0497 | 0.0993 | 0.199 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0397 | 0.0794 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1986 | 0.3219 | 162 | 84 - 127 | * |

| | | | | |
|---|---|---|---|---|
| Laboratory ID: | 1504057-07RE1 | **Second Column Analysis** | File ID: | 037V3701.D.Report.TXT |
| Sequence: | 5D10607 | | Analyzed: | 04/15/15 23:14 |
| Calibration: | 5096002 | | Instrument: | HPLC2-[C2] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0397 | 0.0794 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0397 | 0.0794 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1986 | 0.1981 | 100 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SB27-0H02-0415

Laboratory: Empirical Laboratories, LLC SDG: 1504057

Client: Environmental Conservation Laborato Project: Yorktown Site 25 CTO-WE19

Matrix: Solid Prepared: 04/13/15 16:35 Dilution: 1

Sampled: 04/07/15 12:50 Preparation: EXT_EXPL_S Batch: 5D09915

Solids:

Laboratory ID: 1504057-08 File ID: 141V4101.D.Report.TXT

Sequence: 5D10505 Analyzed: 04/15/15 05:14

Calibration: 5086002 Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0198 | 0.0396 | 0.0792 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0198 | 0.0396 | 0.0792 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0198 | 0.0396 | 0.0792 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0198 | 0.0396 | 0.0792 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0198 | 0.0396 | 0.0792 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0198 | 0.0396 | 0.0792 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0198 | 0.0396 | 0.0792 | ~~J~~U |
| 99-08-1 | 3-Nitrotoluene | | 0.0198 | 0.0396 | 0.0792 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0198 | 0.0396 | 0.0792 | U |
| 2691-41-0 | HMX | | 0.0198 | 0.0396 | 0.0792 | U |
| 98-95-3 | Nitrobenzene | | 0.0198 | 0.0396 | 0.0792 | U |
| 55-63-0 | Nitroglycerin | | 0.0495 | 0.0990 | 0.198 | U |
| 121-82-4 | RDX J-2C | **0.0472** | 0.0198 | 0.0396 | 0.0792 | ~~J P~~ |
| 479-45-8 | Tetryl | | 0.0198 | 0.0396 | 0.0792 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1980 | 0.1738 | 88 | 84 - 127 | |

Laboratory ID: 1504057-08RE1 **Second Column Analysis** File ID: 038V3801.D.Report.TXT

Sequence: 5D10607 Analyzed: 04/16/15 00:17

Calibration: 5096002 Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0198 | 0.0396 | 0.0792 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0198 | 0.0396 | 0.0792 | U |
| 78-11-5 | PETN | | 0.0495 | 0.0990 | 0.198 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1980 | 0.1942 | 98 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

**YS25-SS28-0415**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/13/15 16:35 | Dilution: | 1 |
| Sampled: | 04/07/15 13:30 | Preparation: | EXT_EXPL_S | Batch: | 5D09915 |

Solids:

| | | | |
|---|---|---|---|
| Laboratory ID: | 1504057-09 | File ID: | 142V4201.D.Report.TXT |
| Sequence: | 5D10505 | Analyzed: | 04/15/15 05:43 |
| Calibration: | 5086002 | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0795 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene J-2C | **0.0449** | 0.0199 | 0.0398 | 0.0795 | ~~JM P~~ |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0795 | ~~O~~U |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0795 | U |
| 78-11-5 | PETN | | 0.0497 | 0.0994 | 0.199 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0398 | 0.0795 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1988 | 0.2035 | 102 | 84 - 127 | |

| | | | | |
|---|---|---|---|---|
| Laboratory ID: | 1504057-09RE1 | **Second Column Analysis** | File ID: | 039V3901.D.Report.TXT |
| Sequence: | 5D10607 | | Analyzed: | 04/16/15 01:20 |
| Calibration: | 5096002 | | Instrument: | HPLC2-[C2] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-65-0 | 1,3-Dinitrobenzene UL-SSL | | 0.0199 | 0.0398 | 0.0795 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0398 | 0.0795 | U |
| 55-63-0 | Nitroglycerin | | 0.0497 | 0.0994 | 0.199 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0795 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1988 | 0.1485 | 75 | 84 - 127 | * |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SB28-0H02-0415

Laboratory: Empirical Laboratories, LLC
SDG: 1504057
Client: Environmental Conservation Laborato
Project: Yorktown Site 25 CTO-WE19
Matrix: Solid
Prepared: 04/13/15 16:35
Dilution: 1
Sampled: 04/07/15 13:40
Preparation: EXT_EXPL_S
Batch: 5D09915
Solids:

Laboratory ID: 1504057-10
File ID: 143V4301.D.Report.TXT
Sequence: 5D10505
Analyzed: 04/15/15 06:12
Calibration: 5086002
Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0797 | ØU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 78-11-5 | PETN | | 0.0498 | 0.0996 | 0.199 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0398 | 0.0797 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 0.1932 | 97 | 84 - 127 | |

Laboratory ID: 1504057-10RE1
**Second Column Analysis**
File ID: 040V4001.D.Report.TXT
Sequence: 5D10607
Analyzed: 04/16/15 02:23
Calibration: 5096002
Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0398 | 0.0797 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0996 | 0.199 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0797 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 0.1796 | 90 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

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# ANALYSIS DATA SHEET

YS25-EB040715-SO

Laboratory: Empirical Laboratories, LLC SDG: 1504057

Client: Environmental Conservation Laborato Project: Yorktown Site 25 CTO-WE19

Matrix: Water Prepared: 04/13/15 11:38 Dilution: 1

Sampled: 04/07/15 14:00 Preparation: EXT_EXPL_W Batch: 5D13014

Solids:

Laboratory ID: 1504057-11 File ID: 109V0901.D.Report.TXT

Sequence: 5D10505 Analyzed: 04/14/15 13:40

Calibration: 5086002 Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (ug/L) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0784 | 0.157 | 0.314 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0784 | 0.157 | 0.314 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0784 | 0.157 | 0.314 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0784 | 0.157 | 0.314 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0784 | 0.157 | 0.314 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0784 | 0.157 | 0.314 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0784 | 0.157 | 0.314 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0784 | 0.157 | 0.314 | U |
| 99-08-1 | 3-Nitrotoluene | | 0.0784 | 0.157 | 0.314 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0784 | 0.157 | 0.314 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0784 | 0.157 | 0.314 | U |
| 2691-41-0 | HMX | | 0.0784 | 0.157 | 0.314 | U |
| 98-95-3 | Nitrobenzene | | 0.0784 | 0.157 | 0.314 | U |
| 78-11-5 | PETN | | 0.196 | 0.392 | 0.784 | U |
| 121-82-4 | RDX | | 0.0784 | 0.157 | 0.314 | U |
| 479-45-8 | Tetryl | | 0.0784 | 0.157 | 0.314 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 1.961 | 2.013 | 103 | 68 - 140 | |

Laboratory ID: 1504057-11RE1 **Second Column Analysis** File ID: 007V0701.D.Report.TXT

Sequence: 5D10607 Analyzed: 04/14/15 15:47

Calibration: 5096002 Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (ug/L) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 55-63-0 | Nitroglycerin | | 0.196 | 0.392 | 0.784 | U |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 1.961 | 1.997 | 102 | 68 - 140 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SS29-0415

Laboratory: Empirical Laboratories, LLC
SDG: 1504057
Client: Environmental Conservation Laborato
Project: Yorktown Site 25 CTO-WE19
Matrix: Solid
Prepared: 04/13/15 16:35
Dilution: 1
Sampled: 04/07/15 11:10
Preparation: EXT_EXPL_S
Batch: 5D09915
Solids:
Laboratory ID: 1504057-12
File ID: 144V4401.D.Report.TXT
Sequence: 5D10505
Analyzed: 04/15/15 06:41
Calibration: 5086002
Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0796 | OU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0398 | 0.0796 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0995 | 0.199 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0796 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1990 | 0.1865 | 94 | 84 - 127 | |

Laboratory ID: 1504057-12RE1
**Second Column Analysis**
File ID: 041V4101.D.Report.TXT
Sequence: 5D10607
Analyzed: 04/16/15 03:26
Calibration: 5096002
Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 78-11-5 | PETN | | 0.0498 | 0.0995 | 0.199 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0398 | 0.0796 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1990 | 0.2077 | 104 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

YS25-SB29-0H02-0415

Laboratory: Empirical Laboratories, LLC
SDG: 1504057
Client: Environmental Conservation Laborato
Project: Yorktown Site 25 CTO-WE19
Matrix: Solid
Prepared: 04/13/15 16:35
Dilution: 1
Sampled: 04/07/15 11:20
Preparation: EXT_EXPL_S
Batch: 5D09915
Solids:
Laboratory ID: 1504057-13
File ID: 145V4501.D.Report.TXT
Sequence: 5D10505
Analyzed: 04/15/15 07:10
Calibration: 5086002
Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0797 | QU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0398 | 0.0797 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0996 | 0.199 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0797 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 0.1851 | 93 | 84 - 127 | |

Laboratory ID: 1504057-13RE1
**Second Column Analysis**
File ID: 042V4201.D.Report.TXT
Sequence: 5D10607
Analyzed: 04/16/15 04:29
Calibration: 5096002
Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 78-11-5 | PETN | | 0.0498 | 0.0996 | 0.199 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0398 | 0.0797 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 0.1872 | 94 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

**YS25-SS30-0415**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/14/15 16:05 | Dilution: | 1 |
| Sampled: | 04/07/15 12:10 | Preparation: | EXT_EXPL_S | Batch: | 5D13010 |

Solids:

| | | | |
|---|---|---|---|
| Laboratory ID: | 1504057-14 | File ID: | 142V4201.D.Report.TXT |
| Sequence: | 5D10705 | Analyzed: | 04/16/15 08:53 |
| Calibration: | 5086002 | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0795 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0795 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0795 | ~~Q~~U |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0795 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0398 | 0.0795 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0795 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1988 | 0.1883 | 95 | 84 - 127 | |

| | | | | |
|---|---|---|---|---|
| Laboratory ID: | 1504057-14RE1 | **Second Column Analysis** | File ID: | 031V3201.D.Report.TXT |
| Sequence: | 5D11101 | | Analyzed: | 04/17/15 19:47 |
| Calibration: | 5096002 | | Instrument: | HPLC2-[C2] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0398 | 0.0795 | U |
| 55-63-0 | Nitroglycerin | | 0.0497 | 0.0994 | 0.199 | U |
| 78-11-5 | PETN | | 0.0497 | 0.0994 | 0.199 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1988 | 0.2021 | 102 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# ANALYSIS DATA SHEET

**YS25-SB30-0H02-0415**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Empirical Laboratories, LLC | | SDG: | 1504057 | |
| Client: | Environmental Conservation Laborato | | Project: | Yorktown Site 25 CTO-WE19 | |
| Matrix: | Solid | Prepared: | 04/14/15 16:05 | Dilution: | 1 |
| Sampled: | 04/07/15 12:20 | Preparation: | EXT_EXPL_S | Batch: | 5D13010 |

Solids:

| | | | |
|---|---|---|---|
| Laboratory ID: | 1504057-15 | File ID: | 144V4401.D.Report.TXT |
| Sequence: | 5D10705 | Analyzed: | 04/16/15 09:51 |
| Calibration: | 5086002 | Instrument: | HPLC1-[C1] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0397 | 0.0794 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0397 | 0.0794 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0397 | 0.0794 | ~~O~~U |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0397 | 0.0794 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0397 | 0.0794 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0397 | 0.0794 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1986 | 0.1898 | 96 | 84 - 127 | |

| | | | | |
|---|---|---|---|---|
| Laboratory ID: | 1504057-15RE1 | **Second Column Analysis** | File ID: | 033V3401.D.Report.TXT |
| Sequence: | 5D11101 | | Analyzed: | 04/17/15 21:53 |
| Calibration: | 5096002 | | Instrument: | HPLC2-[C2] |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|---|---|---|---|---|---|---|
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0397 | 0.0794 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0397 | 0.0794 | U |
| 55-63-0 | Nitroglycerin | | 0.0497 | 0.0993 | 0.199 | U |
| 78-11-5 | PETN | | 0.0497 | 0.0993 | 0.199 | U |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 1-Chloro-3-nitrobenzene | 0.1986 | 0.1902 | 96 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample.If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/10/15

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SS13-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-01

File ID: 5D15020-1

Sampled: 04/07/15 09:25

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 78.95

Preparation: NO PREP

Initial/Final: 4.96 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <370 | 1 | U | 120 | 370 | 460 | EPA 9014 |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SB13-0H02-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-02

File ID: 5D15020-1

Sampled: 04/07/15 09:35

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 80.67

Preparation: NO PREP

Initial/Final: 4.98 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <360 | 1 | U | 120 | 360 | 450 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SS20-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-03

File ID: 5D15020-1

Sampled: 04/07/15 10:00

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 66.02

Preparation: NO PREP

Initial/Final: 4.98 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | 320 | 1 | J | 150 | 440 | 550 | EPA 9014 |

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SB20-0H02-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-04

File ID: 5D15020-1

Sampled: 04/07/15 10:10

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 88.28

Preparation: NO PREP

Initial/Final: 5 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <330 | 1 | U | 110 | 330 | 410 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SS21-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-05

File ID: 5D15020-1

Sampled: 04/07/15 10:30

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 85.78

Preparation: NO PREP

Initial/Final: 4.95 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <340 | 1 | U | 110 | 340 | 420 | EPA 9014 |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SB21-0H02-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-06

File ID: 5D15020-1

Sampled: 04/07/15 10:40

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 86.94

Preparation: NO PREP

Initial/Final: 5.02 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <330 | 1 | U | 110 | 330 | 410 | EPA 9014 |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SS27-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-07

File ID: 5D15020-1

Sampled: 04/07/15 12:40

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 87.11

Preparation: NO PREP

Initial/Final: 5 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <330 | 1 | U | 110 | 330 | 410 | EPA 9014 |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SB27-0H02-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-08

File ID: 5D15020-1

Sampled: 04/07/15 12:50

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 85.89

Preparation: NO PREP

Initial/Final: 5.05 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <340 | 1 | U | 110 | 340 | 420 | EPA 9014 |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SS28-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-09
File ID: 5D15020-1
Sampled: 04/07/15 13:30
Prepared: 04/15/15 12:00
Analyzed: 04/17/15 10:28
Solids: 81.26
Preparation: NO PREP
Initial/Final: 5.02 g / 50 mL
Batch: 5D15020
Sequence: AA33602
Calibration: 1504071
Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | 340 | 1 | J | 120 | 360 | 440 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SB28-0H02-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-10

File ID: 5D15020-1

Sampled: 04/07/15 13:40

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 86.93

Preparation: NO PREP

Initial/Final: 4.98 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <330 | 1 | U | 110 | 330 | 410 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SS29-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-12
File ID: 5D15020-1
Sampled: 04/07/15 11:10
Prepared: 04/15/15 12:00
Analyzed: 04/17/15 10:28
Solids: 76.57
Preparation: NO PREP
Initial/Final: 4.95 g / 50 mL
Batch: 5D15020
Sequence: AA33602
Calibration: 1504071
Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <380 | 1 | U | 130 | 380 | 470 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SB29-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-13
File ID: 5D15020-1
Sampled: 04/07/15 11:20
Prepared: 04/15/15 12:00
Analyzed: 04/17/15 10:28
Solids: 78.66
Preparation: NO PREP
Initial/Final: 5.04 g / 50 mL
Batch: 5D15020
Sequence: AA33602
Calibration: 1504071
Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <370 | 1 | U | 120 | 370 | 460 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SS30-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-14

File ID: 5D15020-1

Sampled: 04/07/15 12:10

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 90.48

Preparation: NO PREP

Initial/Final: 5.03 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <320 | 1 | U | 110 | 320 | 400 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-SB30-0H02-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-15

File ID: 5D15020-1

Sampled: 04/07/15 12:20

Prepared: 04/15/15 12:00

Analyzed: 04/17/15 10:28

Solids: 90.84

Preparation: NO PREP

Initial/Final: 5.01 g / 50 mL

Batch: 5D15020

Sequence: AA33602

Calibration: 1504071

Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <320 | 1 | U | 110 | 320 | 400 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 9014

YS25-EB040715-SO

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water
Laboratory ID: A502126-16
File ID: 5D08010-1
Sampled: 04/07/15 14:00
Prepared: 04/08/15 09:30
Analyzed: 04/09/15 17:08
Solids: 0.00
Preparation: NO PREP
Initial/Final: 50 mL / 50 mL
Batch: 5D08010
Sequence: AA33395
Calibration: 1504041
Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/L) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide (total) | <16 | 1 | U | 5.3 | 16 | 26 | EPA 9014 |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 7470A

YS25-EB040715-SO

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water
Laboratory ID: A502126-16
File ID: Hg 5D15022 0019 w-023
Sampled: 04/07/15 14:00
Prepared: 04/15/15 10:14
Analyzed: 04/16/15 07:33
Solids: 0.00
Preparation: EPA 7470A
Initial/Final: 30 mL / 30 mL
Batch: 5D15022
Sequence: AA33454
Calibration: 1504065
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (ug/L) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | <0.0690 | 1 | U | 0.0230 | 0.0690 | 0.200 | EPA 7470A |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SS13-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-01

File ID: Hg 5D16012 013 s-050

Sampled: 04/07/15 09:25

Prepared: 04/16/15 13:15

Analyzed: 04/17/15 07:32

Solids: 78.95

Preparation: EPA 7471B

Initial/Final: 0.35 g / 36 mL

Batch: 5D16013

Sequence: AA33478

Calibration: 1504070

Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.139 | 1 | | 0.00423 | 0.0127 | 0.0228 | EPA 7471B |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SB13-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-02
File ID: Hg 5D16012 013 s-051
Sampled: 04/07/15 09:35
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 07:35
Solids: 80.67
Preparation: EPA 7471B
Initial/Final: 0.33 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0319 | 1 | | 0.00440 | 0.0132 | 0.0237 | EPA 7471B |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SS20-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-03
File ID: Hg 5D16012 013 s-052
Sampled: 04/07/15 10:00
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 07:38
Solids: 66.02
Preparation: EPA 7471B
Initial/Final: 0.3 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.255 | 1 | | 0.00591 | 0.0177 | 0.0318 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SB20-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-04
File ID: Hg 5D16012 013 s-054
Sampled: 04/07/15 10:10
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 07:45
Solids: 88.28
Preparation: EPA 7471B
Initial/Final: 0.29 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0152 | 1 | J | 0.00442 | 0.0133 | 0.0238 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SS21-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-05
File ID: Hg 5D16012 013 s-055
Sampled: 04/07/15 10:30
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 07:48
Solids: 85.78
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.107 | 1 | | 0.00455 | 0.0136 | 0.0245 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SB21-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-06
File ID: Hg 5D16012 013 s-056
Sampled: 04/07/15 10:40
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 07:52
Solids: 86.94
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.113 | 1 | | 0.00449 | 0.0135 | 0.0242 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SS27-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-07
File ID: Hg 5D16012 013 s-057
Sampled: 04/07/15 12:40
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 07:55
Solids: 87.11
Preparation: EPA 7471B
Initial/Final: 0.32 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0316 | 1 | | 0.00448 | 0.0134 | 0.0241 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SB27-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-08
File ID: Hg 5D16012 013 s-061
Sampled: 04/07/15 12:50
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 08:08
Solids: 85.89
Preparation: EPA 7471B
Initial/Final: 0.32 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0327 | 1 | | 0.00454 | 0.0136 | 0.0245 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SS28-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-09
File ID: Hg 5D16012 013 s-062
Sampled: 04/07/15 13:30
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 08:11
Solids: 81.26
Preparation: EPA 7471B
Initial/Final: 0.31 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0258 | 1 | | 0.00480 | 0.0144 | 0.0258 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SB28-0H02-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-10

File ID: Hg 5D16012 013 s-063

Sampled: 04/07/15 13:40

Prepared: 04/16/15 13:15

Analyzed: 04/17/15 08:15

Solids: 86.93

Preparation: EPA 7471B

Initial/Final: 0.33 g / 36 mL

Batch: 5D16013

Sequence: AA33478

Calibration: 1504070

Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0273 | 1 | | 0.00408 | 0.0122 | 0.0220 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SS29-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-12
File ID: Hg 5D16012 013 s-064
Sampled: 04/07/15 11:10
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 08:18
Solids: 76.57
Preparation: EPA 7471B
Initial/Final: 0.35 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0513 | 1 | | 0.00437 | 0.0131 | 0.0235 | EPA 7471B |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SB29-0H02-0415

Laboratory: ENCO Orlando

SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025)

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: A502126-13

File ID: Hg 5D16012 013 s-066

Sampled: 04/07/15 11:20

Prepared: 04/16/15 13:15

Analyzed: 04/17/15 08:24

Solids: 78.66

Preparation: EPA 7471B

Initial/Final: 0.35 g / 36 mL

Batch: 5D16013

Sequence: AA33478

Calibration: 1504070

Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0413 | 1 | | 0.00425 | 0.0127 | 0.0229 | EPA 7471B |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

YS25-SS30-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-14
File ID: Hg 5D16012 013 s-067
Sampled: 04/07/15 12:10
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 08:28
Solids: 90.48
Preparation: EPA 7471B
Initial/Final: 0.29 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0221 | 1 | J | 0.00431 | 0.0129 | 0.0232 | EPA 7471B |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 7471B

**YS25-SB30-0H02-0415**

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-15
File ID: Hg 5D16012 013 s-068
Sampled: 04/07/15 12:20
Prepared: 04/16/15 13:15
Analyzed: 04/17/15 08:31
Solids: 90.84
Preparation: EPA 7471B
Initial/Final: 0.35 g / 36 mL
Batch: 5D16013
Sequence: AA33478
Calibration: 1504070
Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.0239 | 1 | | 0.00368 | 0.0110 | 0.0198 | EPA 7471B |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-01 (YS25-SS13-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-01
File ID: 041515aRP1-036
Sampled: 04/07/15 09:25
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:27
Solids: 78.95
Preparation: EPA 3050B
Initial/Final: 0.64 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5370 | 1 | | 2.57 | 19.8 | 39.6 | EPA 6010C |
| 7440-36-0 | Antimony | <1.98 | 1 | U | 0.396 | 1.98 | 3.96 | EPA 6010C |
| 7440-38-2 | Arsenic | 9.18 | 1 | | 0.851 | 1.98 | 3.96 | EPA 6010C |
| 7440-39-3 | Barium | 22.8 | 1 | | 0.0396 | 0.495 | 0.990 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.596 | 1 | | 0.0154 | 0.0495 | 0.0990 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.120 | 1 | J | 0.0127 | 0.198 | 0.396 | EPA 6010C |
| 7440-70-2 | Calcium | 1990 | 1 | | 3.76 | 24.7 | 49.5 | EPA 6010C |
| 7440-47-3 | Chromium | 24.4 | 1 | | 0.0435 | 0.495 | 0.990 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.85 | 1 | J | 0.0831 | 0.990 | 3.96 | EPA 6010C |
| 7440-50-8 | Copper | 4.99 | 1 | | 0.218 | 0.495 | 0.990 | EPA 6010C |
| 7439-89-6 | Iron | 23500 | 1 | | 0.594 | 4.95 | 9.90 | EPA 6010C |
| 7439-92-1 | Lead | 15.1 | 1 | | 0.237 | 1.98 | 3.96 | EPA 6010C |
| 7439-95-4 | Magnesium | 751 | 1 | | 2.37 | 24.7 | 49.5 | EPA 6010C |
| 7439-96-5 | Manganese | 155 | 1 | | 0.0146 | 0.990 | 1.98 | EPA 6010C |
| 7440-02-0 | Nickel | 6.59 | 1 | | 0.0811 | 0.495 | 0.990 | EPA 6010C |
| 7440-09-7 | Potassium | 789 | 1 | | 7.52 | 49.5 | 99.0 | EPA 6010C |
| 7782-49-2 | Selenium | <1.98 | 1 | U | 0.317 | 1.98 | 3.96 | EPA 6010C |
| 7440-22-4 | Silver | <0.495 | 1 | U | 0.0970 | 0.495 | 0.990 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 16.3 | 1 | ~~J~~ | 4.75 | 24.7 | 49.5 | EPA 6010C |
| 7440-28-0 | Thallium | <3.96 | 1 | U | 0.574 | 3.96 | 7.92 | EPA 6010C |
| 7440-62-2 | Vanadium | 30.2 | 1 | | 0.0831 | 0.990 | 1.98 | EPA 6010C |
| 7440-66-6 | Zinc | 56.2 | 1 | | 0.930 | 1.98 | 3.96 | EPA 6010C |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-02 (YS25-SB13-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-02
File ID: 041515aRP1-037
Sampled: 04/07/15 09:35
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:29
Solids: 80.67
Preparation: EPA 3050B
Initial/Final: 0.66 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 11800 | 1 | | 2.44 | 18.8 | 37.6 | EPA 6010C |
| 7440-36-0 | Antimony | <1.88 | 1 | U | 0.376 | 1.88 | 3.76 | EPA 6010C |
| 7440-38-2 | Arsenic | 19.5 | 1 | | 0.808 | 1.88 | 3.76 | EPA 6010C |
| 7440-39-3 | Barium | 13.1 | 1 | | 0.0376 | 0.470 | 0.939 | EPA 6010C |
| 7440-41-7 | Beryllium | 1.18 | 1 | | 0.0147 | 0.0470 | 0.0939 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.480 | 1 | | 0.0120 | 0.188 | 0.376 | EPA 6010C |
| 7440-70-2 | Calcium | 768 | 1 | | 3.57 | 23.5 | 47.0 | EPA 6010C |
| 7440-47-3 | Chromium | 31.0 | 1 | | 0.0413 | 0.470 | 0.939 | EPA 6010C |
| 7440-48-4 | Cobalt | 6.76 | 1 | | 0.0789 | 0.939 | 3.76 | EPA 6010C |
| 7440-50-8 | Copper | 9.48 | 1 | | 0.207 | 0.470 | 0.939 | EPA 6010C |
| 7439-89-6 | Iron Exclude - LR | 49500 | 1 | ~~E~~ | 0.563 | 4.70 | 9.39 | EPA 6010C |
| 7439-92-1 | Lead | 13.3 | 1 | | 0.225 | 1.88 | 3.76 | EPA 6010C |
| 7439-95-4 | Magnesium | 1960 | 1 | | 2.25 | 23.5 | 47.0 | EPA 6010C |
| 7439-96-5 | Manganese | 70.9 | 1 | | 0.0139 | 0.939 | 1.88 | EPA 6010C |
| 7440-02-0 | Nickel | 24.3 | 1 | | 0.0770 | 0.470 | 0.939 | EPA 6010C |
| 7440-09-7 | Potassium | 2850 | 1 | | 7.14 | 47.0 | 93.9 | EPA 6010C |
| 7782-49-2 | Selenium | <1.88 | 1 | U | 0.301 | 1.88 | 3.76 | EPA 6010C |
| 7440-22-4 | Silver | <0.470 | 1 | U | 0.0920 | 0.470 | 0.939 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 19.4 | 1 | ~~J~~ | 4.51 | 23.5 | 47.0 | EPA 6010C |
| 7440-28-0 | Thallium | <3.76 | 1 | U | 0.545 | 3.76 | 7.51 | EPA 6010C |
| 7440-62-2 | Vanadium | 35.8 | 1 | | 0.0789 | 0.939 | 1.88 | EPA 6010C |
| 7440-66-6 | Zinc | 63.0 | 1 | | 0.883 | 1.88 | 3.76 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-02 (YS25-SB13-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-02RE1
File ID: 042015a-072
Sampled: 04/07/15 09:35
Prepared: 04/14/15 12:21
Analyzed: 04/20/15 12:52
Solids: 80.67
Preparation: EPA 3050B
Initial/Final: 0.66 g / 50 mL
Batch: 5D14003
Sequence: BA16540
Calibration: 1504004
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum Exclude - DL | 12600 | 20 | ~~D~~ | 48.8 | 376 | 751 | EPA 6010C |
| 7440-36-0 | Antimony Exclude - DL | <37.6 | 20 | ~~UD~~ | 7.51 | 37.6 | 75.1 | EPA 6010C |
| 7440-38-2 | Arsenic Exclude - DL | 28.3 | 20 | ~~JD~~ | 16.2 | 37.6 | 75.1 | EPA 6010C |
| 7440-39-3 | Barium Exclude - DL | 13.8 | 20 | ~~JD~~ | 0.751 | 9.39 | 18.8 | EPA 6010C |
| 7440-41-7 | Beryllium Exclude - DL | 1.31 | 20 | ~~JD~~ | 0.293 | 0.939 | 1.88 | EPA 6010C |
| 7440-43-9 | Cadmium Exclude - DL | <3.76 | 20 | ~~UD~~ | 0.240 | 3.76 | 7.51 | EPA 6010C |
| 7440-70-2 | Calcium Exclude - DL | 799 | 20 | ~~JD~~ | 71.4 | 470 | 939 | EPA 6010C |
| 7440-47-3 | Chromium Exclude - DL | 33.6 | 20 | ~~D~~ | 0.826 | 9.39 | 18.8 | EPA 6010C |
| 7440-48-4 | Cobalt Exclude - DL | 5.82 | 20 | ~~JD~~ | 1.58 | 18.8 | 75.1 | EPA 6010C |
| 7440-50-8 | Copper Exclude - DL | 8.31 | 20 | ~~JD~~ | 4.13 | 9.39 | 18.8 | EPA 6010C |
| 7439-89-6 | Iron | 55600 | 20 | ~~D~~ | 11.3 | 93.9 | 188 | EPA 6010C |
| 7439-92-1 | Lead Exclude - DL | 16.8 | 20 | ~~JD~~ | 4.51 | 37.6 | 75.1 | EPA 6010C |
| 7439-95-4 | Magnesium Exclude - DL | 2130 | 20 | ~~D~~ | 45.1 | 470 | 939 | EPA 6010C |
| 7439-96-5 | Manganese Exclude - DL | 75.1 | 20 | ~~D~~ | 0.278 | 18.8 | 37.6 | EPA 6010C |
| 7440-02-0 | Nickel Exclude - DL | 24.4 | 20 | ~~D~~ | 1.54 | 9.39 | 18.8 | EPA 6010C |
| 7440-09-7 | Potassium Exclude - DL | 2740 | 20 | ~~D~~ | 143 | 939 | 1880 | EPA 6010C |
| 7782-49-2 | Selenium Exclude - DL | <37.6 | 20 | ~~UD~~ | 6.01 | 37.6 | 75.1 | EPA 6010C |
| 7440-22-4 | Silver Exclude - DL | <9.39 | 20 | ~~UD~~ | 1.84 | 9.39 | 18.8 | EPA 6010C |
| 7440-23-5 | Sodium Exclude - DL | <470 | 20 | ~~UD~~ | 90.2 | 470 | 939 | EPA 6010C |
| 7440-28-0 | Thallium Exclude - DL | 15.3 | 20 | ~~JD~~ | 10.9 | 75.1 | 150 | EPA 6010C |
| 7440-62-2 | Vanadium Exclude - DL | 37.7 | 20 | ~~D~~ | 1.58 | 18.8 | 37.6 | EPA 6010C |
| 7440-66-6 | Zinc Exclude - DL | 67.1 | 20 | ~~JD~~ | 17.7 | 37.6 | 75.1 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-03 (YS25-SS20-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-03
File ID: 041515aRP1-038
Sampled: 04/07/15 10:00
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:31
Solids: 66.02
Preparation: EPA 3050B
Initial/Final: 0.76 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5320 | 1 | | 2.59 | 19.9 | 39.9 | EPA 6010C |
| 7440-36-0 | Antimony | <1.99 | 1 | U | 0.399 | 1.99 | 3.99 | EPA 6010C |
| 7440-38-2 | Arsenic | 5.76 | 1 | | 0.857 | 1.99 | 3.99 | EPA 6010C |
| 7440-39-3 | Barium | 38.6 | 1 | | 0.0399 | 0.498 | 0.997 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.344 | 1 | | 0.0155 | 0.0498 | 0.0997 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.150 | 1 | J | 0.0128 | 0.199 | 0.399 | EPA 6010C |
| 7440-70-2 | Calcium | 4530 | 1 | | 3.79 | 24.9 | 49.8 | EPA 6010C |
| 7440-47-3 | Chromium | 10.1 | 1 | | 0.0438 | 0.498 | 0.997 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.99 | 1 | | 0.0837 | 0.997 | 3.99 | EPA 6010C |
| 7440-50-8 | Copper | 7.99 | 1 | | 0.219 | 0.498 | 0.997 | EPA 6010C |
| 7439-89-6 | Iron | 9400 | 1 | | 0.598 | 4.98 | 9.97 | EPA 6010C |
| 7439-92-1 | Lead | 22.9 | 1 | | 0.239 | 1.99 | 3.99 | EPA 6010C |
| 7439-95-4 | Magnesium | 785 | 1 | | 2.39 | 24.9 | 49.8 | EPA 6010C |
| 7439-96-5 | Manganese | 301 | 1 | | 0.0147 | 0.997 | 1.99 | EPA 6010C |
| 7440-02-0 | Nickel | 5.29 | 1 | | 0.0817 | 0.498 | 0.997 | EPA 6010C |
| 7440-09-7 | Potassium | 724 | 1 | | 7.57 | 49.8 | 99.7 | EPA 6010C |
| 7782-49-2 | Selenium | <1.99 | 1 | U | 0.319 | 1.99 | 3.99 | EPA 6010C |
| 7440-22-4 | Silver | <0.498 | 1 | U | 0.0977 | 0.498 | 0.997 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 22.2 | 1 | ~~J~~ | 4.78 | 24.9 | 49.8 | EPA 6010C |
| 7440-28-0 | Thallium | <3.99 | 1 | U | 0.578 | 3.99 | 7.97 | EPA 6010C |
| 7440-62-2 | Vanadium | 16.4 | 1 | | 0.0837 | 0.997 | 1.99 | EPA 6010C |
| 7440-66-6 | Zinc | 86.9 | 1 | | 0.937 | 1.99 | 3.99 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-04 (YS25-SB20-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-04
File ID: 041515aRP1-039
Sampled: 04/07/15 10:10
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:33
Solids: 88.28
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7360 | 1 | | 2.45 | 18.9 | 37.8 | EPA 6010C |
| 7440-36-0 | Antimony | <1.89 | 1 | U | 0.378 | 1.89 | 3.78 | EPA 6010C |
| 7440-38-2 | Arsenic | 4.27 | 1 | | 0.812 | 1.89 | 3.78 | EPA 6010C |
| 7440-39-3 | Barium | 20.2 | 1 | | 0.0378 | 0.472 | 0.944 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.294 | 1 | | 0.0147 | 0.0472 | 0.0944 | EPA 6010C |
| 7440-43-9 | Cadmium | <0.189 | 1 | U | 0.0121 | 0.189 | 0.378 | EPA 6010C |
| 7440-70-2 | Calcium | 759 | 1 | | 3.59 | 23.6 | 47.2 | EPA 6010C |
| 7440-47-3 | Chromium | 9.43 | 1 | | 0.0415 | 0.472 | 0.944 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.02 | 1 | J | 0.0793 | 0.944 | 3.78 | EPA 6010C |
| 7440-50-8 | Copper | 3.92 | 1 | | 0.208 | 0.472 | 0.944 | EPA 6010C |
| 7439-89-6 | Iron | 12400 | 1 | | 0.566 | 4.72 | 9.44 | EPA 6010C |
| 7439-92-1 | Lead | 6.93 | 1 | | 0.227 | 1.89 | 3.78 | EPA 6010C |
| 7439-95-4 | Magnesium | 610 | 1 | | 2.27 | 23.6 | 47.2 | EPA 6010C |
| 7439-96-5 | Manganese | 87.4 | 1 | | 0.0140 | 0.944 | 1.89 | EPA 6010C |
| 7440-02-0 | Nickel | 4.85 | 1 | | 0.0774 | 0.472 | 0.944 | EPA 6010C |
| 7440-09-7 | Potassium | 507 | 1 | | 7.17 | 47.2 | 94.4 | EPA 6010C |
| 7782-49-2 | Selenium | <1.89 | 1 | U | 0.302 | 1.89 | 3.78 | EPA 6010C |
| 7440-22-4 | Silver | <0.472 | 1 | U | 0.0925 | 0.472 | 0.944 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 14.2 | 1 | ~~J~~ | 4.53 | 23.6 | 47.2 | EPA 6010C |
| 7440-28-0 | Thallium | <3.78 | 1 | U | 0.548 | 3.78 | 7.55 | EPA 6010C |
| 7440-62-2 | Vanadium | 18.9 | 1 | | 0.0793 | 0.944 | 1.89 | EPA 6010C |
| 7440-66-6 | Zinc | 22.6 | 1 | | 0.887 | 1.89 | 3.78 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-05 (YS25-SS21-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-05
File ID: 041515aRP1-040
Sampled: 04/07/15 10:30
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:34
Solids: 85.78
Preparation: EPA 3050B
Initial/Final: 0.62 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4420 | 1 | | 2.44 | 18.8 | 37.6 | EPA 6010C |
| 7440-36-0 | Antimony | <1.88 | 1 | U | 0.376 | 1.88 | 3.76 | EPA 6010C |
| 7440-38-2 | Arsenic | 3.28 | 1 | J | 0.809 | 1.88 | 3.76 | EPA 6010C |
| 7440-39-3 | Barium | 17.6 | 1 | | 0.0376 | 0.470 | 0.940 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.177 | 1 | | 0.0147 | 0.0470 | 0.0940 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.0208 | 1 | J | 0.0120 | 0.188 | 0.376 | EPA 6010C |
| 7440-70-2 | Calcium | 608 | 1 | | 3.57 | 23.5 | 47.0 | EPA 6010C |
| 7440-47-3 | Chromium | 8.86 | 1 | | 0.0414 | 0.470 | 0.940 | EPA 6010C |
| 7440-48-4 | Cobalt | 2.17 | 1 | J | 0.0790 | 0.940 | 3.76 | EPA 6010C |
| 7440-50-8 | Copper | 5.81 | 1 | | 0.207 | 0.470 | 0.940 | EPA 6010C |
| 7439-89-6 | Iron | 9250 | 1 | | 0.564 | 4.70 | 9.40 | EPA 6010C |
| 7439-92-1 | Lead | 15.4 | 1 | | 0.226 | 1.88 | 3.76 | EPA 6010C |
| 7439-95-4 | Magnesium | 461 | 1 | | 2.26 | 23.5 | 47.0 | EPA 6010C |
| 7439-96-5 | Manganese | 35.7 | 1 | | 0.0139 | 0.940 | 1.88 | EPA 6010C |
| 7440-02-0 | Nickel | 3.38 | 1 | | 0.0771 | 0.470 | 0.940 | EPA 6010C |
| 7440-09-7 | Potassium | 414 | 1 | | 7.15 | 47.0 | 94.0 | EPA 6010C |
| 7782-49-2 | Selenium | <1.88 | 1 | U | 0.301 | 1.88 | 3.76 | EPA 6010C |
| 7440-22-4 | Silver | <0.470 | 1 | U | 0.0921 | 0.470 | 0.940 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 13.8 | 1 | ~~J~~ | 4.51 | 23.5 | 47.0 | EPA 6010C |
| 7440-28-0 | Thallium | <3.76 | 1 | U | 0.545 | 3.76 | 7.52 | EPA 6010C |
| 7440-62-2 | Vanadium | 16.2 | 1 | | 0.0790 | 0.940 | 1.88 | EPA 6010C |
| 7440-66-6 | Zinc | 35.6 | 1 | | 0.884 | 1.88 | 3.76 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-06 (YS25-SB21-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-06
File ID: 041515aRP1-041
Sampled: 04/07/15 10:40
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:36
Solids: 86.94
Preparation: EPA 3050B
Initial/Final: 0.78 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5880 | 1 | | 1.92 | 14.7 | 29.5 | EPA 6010C |
| 7440-36-0 | Antimony | <1.47 | 1 | U | 0.295 | 1.47 | 2.95 | EPA 6010C |
| 7440-38-2 | Arsenic | 4.45 | 1 | | 0.634 | 1.47 | 2.95 | EPA 6010C |
| 7440-39-3 | Barium | 16.0 | 1 | | 0.0295 | 0.369 | 0.737 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.222 | 1 | | 0.0115 | 0.0369 | 0.0737 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.0488 | 1 | J | 0.00944 | 0.147 | 0.295 | EPA 6010C |
| 7440-70-2 | Calcium | 680 | 1 | | 2.80 | 18.4 | 36.9 | EPA 6010C |
| 7440-47-3 | Chromium | 21.1 | 1 | | 0.0324 | 0.369 | 0.737 | EPA 6010C |
| 7440-48-4 | Cobalt | 2.83 | 1 | J | 0.0619 | 0.737 | 2.95 | EPA 6010C |
| 7440-50-8 | Copper | 6.40 | 1 | | 0.162 | 0.369 | 0.737 | EPA 6010C |
| 7439-89-6 | Iron | 14800 | 1 | | 0.442 | 3.69 | 7.37 | EPA 6010C |
| 7439-92-1 | Lead | 17.7 | 1 | | 0.177 | 1.47 | 2.95 | EPA 6010C |
| 7439-95-4 | Magnesium | 525 | 1 | | 1.77 | 18.4 | 36.9 | EPA 6010C |
| 7439-96-5 | Manganese | 41.5 | 1 | | 0.0109 | 0.737 | 1.47 | EPA 6010C |
| 7440-02-0 | Nickel | 4.12 | 1 | | 0.0605 | 0.369 | 0.737 | EPA 6010C |
| 7440-09-7 | Potassium | 453 | 1 | | 5.60 | 36.9 | 73.7 | EPA 6010C |
| 7782-49-2 | Selenium | <1.47 | 1 | U | 0.236 | 1.47 | 2.95 | EPA 6010C |
| 7440-22-4 | Silver | <0.369 | 1 | U | 0.0723 | 0.369 | 0.737 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 17.6 | 1 | ~~J~~ | 3.54 | 18.4 | 36.9 | EPA 6010C |
| 7440-28-0 | Thallium | <2.95 | 1 | U | 0.428 | 2.95 | 5.90 | EPA 6010C |
| 7440-62-2 | Vanadium | 21.7 | 1 | | 0.0619 | 0.737 | 1.47 | EPA 6010C |
| 7440-66-6 | Zinc | 45.5 | 1 | | 0.693 | 1.47 | 2.95 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-07 (YS25-SS27-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-07
File ID: 041515aRP1-042
Sampled: 04/07/15 12:40
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:38
Solids: 87.11
Preparation: EPA 3050B
Initial/Final: 0.68 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6620 | 1 | | 2.19 | 16.9 | 33.8 | EPA 6010C |
| 7440-36-0 | Antimony | <1.69 | 1 | U | 0.338 | 1.69 | 3.38 | EPA 6010C |
| 7440-38-2 | Arsenic | 3.12 | 1 | J | 0.726 | 1.69 | 3.38 | EPA 6010C |
| 7440-39-3 | Barium | 68.1 | 1 | | 0.0338 | 0.422 | 0.844 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.521 | 1 | | 0.0132 | 0.0422 | 0.0844 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.151 | 1 | J | 0.0108 | 0.169 | 0.338 | EPA 6010C |
| 7440-70-2 | Calcium | 1420 | 1 | | 3.21 | 21.1 | 42.2 | EPA 6010C |
| 7440-47-3 | Chromium | 10.9 | 1 | | 0.0371 | 0.422 | 0.844 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.33 | 1 | J | 0.0709 | 0.844 | 3.38 | EPA 6010C |
| 7440-50-8 | Copper | 4.04 | 1 | | 0.186 | 0.422 | 0.844 | EPA 6010C |
| 7439-89-6 | Iron | 12800 | 1 | | 0.506 | 4.22 | 8.44 | EPA 6010C |
| 7439-92-1 | Lead | 16.8 | 1 | | 0.203 | 1.69 | 3.38 | EPA 6010C |
| 7439-95-4 | Magnesium | 816 | 1 | | 2.03 | 21.1 | 42.2 | EPA 6010C |
| 7439-96-5 | Manganese | 196 | 1 | | 0.0125 | 0.844 | 1.69 | EPA 6010C |
| 7440-02-0 | Nickel | 5.11 | 1 | | 0.0692 | 0.422 | 0.844 | EPA 6010C |
| 7440-09-7 | Potassium | 753 | 1 | | 6.42 | 42.2 | 84.4 | EPA 6010C |
| 7782-49-2 | Selenium | <1.69 | 1 | U | 0.270 | 1.69 | 3.38 | EPA 6010C |
| 7440-22-4 | Silver | <0.422 | 1 | U | 0.0827 | 0.422 | 0.844 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 21.6 | 1 | ~~J~~ | 4.05 | 21.1 | 42.2 | EPA 6010C |
| 7440-28-0 | Thallium | <3.38 | 1 | U | 0.490 | 3.38 | 6.75 | EPA 6010C |
| 7440-62-2 | Vanadium | 18.8 | 1 | | 0.0709 | 0.844 | 1.69 | EPA 6010C |
| 7440-66-6 | Zinc | 85.9 | 1 | | 0.793 | 1.69 | 3.38 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-08 (YS25-SB27-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-08
File ID: 041515aRP1-043
Sampled: 04/07/15 12:50
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:40
Solids: 85.69
Preparation: EPA 3050B
Initial/Final: 0.73 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7880 | 1 | | 2.08 | 16.0 | 32.0 | EPA 6010C |
| 7440-36-0 | Antimony | <1.60 | 1 | U | 0.320 | 1.60 | 3.20 | EPA 6010C |
| 7440-38-2 | Arsenic | 4.59 | 1 | | 0.687 | 1.60 | 3.20 | EPA 6010C |
| 7440-39-3 | Barium | 70.4 | 1 | | 0.0320 | 0.400 | 0.799 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.590 | 1 | | 0.0125 | 0.0400 | 0.0799 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.0689 | 1 | J | 0.0102 | 0.160 | 0.320 | EPA 6010C |
| 7440-70-2 | Calcium | 1750 | 1 | | 3.04 | 20.0 | 40.0 | EPA 6010C |
| 7440-47-3 | Chromium | 14.1 | 1 | | 0.0352 | 0.400 | 0.799 | EPA 6010C |
| 7440-48-4 | Cobalt | 4.09 | 1 | | 0.0671 | 0.799 | 3.20 | EPA 6010C |
| 7440-50-8 | Copper | 4.17 | 1 | | 0.176 | 0.400 | 0.799 | EPA 6010C |
| 7439-89-6 | Iron | 17400 | 1 | | 0.480 | 4.00 | 7.99 | EPA 6010C |
| 7439-92-1 | Lead | 8.92 | 1 | | 0.192 | 1.60 | 3.20 | EPA 6010C |
| 7439-95-4 | Magnesium | 1040 | 1 | | 1.92 | 20.0 | 40.0 | EPA 6010C |
| 7439-96-5 | Manganese | 147 | 1 | | 0.0118 | 0.799 | 1.60 | EPA 6010C |
| 7440-02-0 | Nickel | 6.42 | 1 | | 0.0655 | 0.400 | 0.799 | EPA 6010C |
| 7440-09-7 | Potassium | 1180 | 1 | | 6.07 | 40.0 | 79.9 | EPA 6010C |
| 7782-49-2 | Selenium | <1.60 | 1 | U | 0.256 | 1.60 | 3.20 | EPA 6010C |
| 7440-22-4 | Silver | <0.400 | 1 | U | 0.0783 | 0.400 | 0.799 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 20.7 | 1 | ~~--J-~~ | 3.84 | 20.0 | 40.0 | EPA 6010C |
| 7440-28-0 | Thallium | <3.20 | 1 | U | 0.464 | 3.20 | 6.39 | EPA 6010C |
| 7440-62-2 | Vanadium | 20.8 | 1 | | 0.0671 | 0.799 | 1.60 | EPA 6010C |
| 7440-66-6 | Zinc | 32.8 | 1 | | 0.751 | 1.60 | 3.20 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-09 (YS25-SS28-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-09
File ID: 041515aRP1-044
Sampled: 04/07/15 13:30
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:42
Solids: 81.26
Preparation: EPA 3050B
Initial/Final: 0.69 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4920 | 1 | | 2.32 | 17.8 | 35.7 | EPA 6010C |
| 7440-36-0 | Antimony | 0.433 | 1 | J | 0.357 | 1.78 | 3.57 | EPA 6010C |
| 7440-38-2 | Arsenic | 3.31 | 1 | J | 0.767 | 1.78 | 3.57 | EPA 6010C |
| 7440-39-3 | Barium | 38.3 | 1 | | 0.0357 | 0.446 | 0.892 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.416 | 1 | | 0.0139 | 0.0446 | 0.0892 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.634 | 1 | | 0.0114 | 0.178 | 0.357 | EPA 6010C |
| 7440-70-2 | Calcium | 2130 | 1 | | 3.39 | 22.3 | 44.6 | EPA 6010C |
| 7440-47-3 | Chromium | 8.67 | 1 | | 0.0392 | 0.446 | 0.892 | EPA 6010C |
| 7440-48-4 | Cobalt | 2.79 | 1 | J | 0.0749 | 0.892 | 3.57 | EPA 6010C |
| 7440-50-8 | Copper | 5.53 | 1 | | 0.196 | 0.446 | 0.892 | EPA 6010C |
| 7439-89-6 | Iron | 12200 | 1 | | 0.535 | 4.46 | 8.92 | EPA 6010C |
| 7439-92-1 | Lead | 11.4 | 1 | | 0.214 | 1.78 | 3.57 | EPA 6010C |
| 7439-95-4 | Magnesium | 789 | 1 | | 2.14 | 22.3 | 44.6 | EPA 6010C |
| 7439-96-5 | Manganese | 186 | 1 | | 0.0132 | 0.892 | 1.78 | EPA 6010C |
| 7440-02-0 | Nickel | 4.19 | 1 | | 0.0731 | 0.446 | 0.892 | EPA 6010C |
| 7440-09-7 | Potassium | 815 | 1 | | 6.78 | 44.6 | 89.2 | EPA 6010C |
| 7782-49-2 | Selenium | <1.78 | 1 | U | 0.285 | 1.78 | 3.57 | EPA 6010C |
| 7440-22-4 | Silver | <0.446 | 1 | U | 0.0874 | 0.446 | 0.892 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 16.3 | 1 | ~~J~~ | 4.28 | 22.3 | 44.6 | EPA 6010C |
| 7440-28-0 | Thallium | <3.57 | 1 | U | 0.517 | 3.57 | 7.13 | EPA 6010C |
| 7440-62-2 | Vanadium | 14.5 | 1 | | 0.0749 | 0.892 | 1.78 | EPA 6010C |
| 7440-66-6 | Zinc | 310 | 1 | | 0.838 | 1.78 | 3.57 | EPA 6010C |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-10 (YS25-SB28-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-10
File ID: 041515aRP1-045
Sampled: 04/07/15 13:40
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:44
Solids: 86.93
Preparation: EPA 3050B
Initial/Final: 0.64 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6250 | 1 | | 2.34 | 18.0 | 35.9 | EPA 6010C |
| 7440-36-0 | Antimony | <1.80 | 1 | U | 0.359 | 1.80 | 3.59 | EPA 6010C |
| 7440-38-2 | Arsenic | 5.24 | 1 | | 0.773 | 1.80 | 3.59 | EPA 6010C |
| 7440-39-3 | Barium | 44.4 | 1 | | 0.0359 | 0.449 | 0.899 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.514 | 1 | | 0.0140 | 0.0449 | 0.0899 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.211 | 1 | J | 0.0115 | 0.180 | 0.359 | EPA 6010C |
| 7440-70-2 | Calcium | 1190 | 1 | | 3.42 | 22.5 | 44.9 | EPA 6010C |
| 7440-47-3 | Chromium | 10.0 | 1 | | 0.0395 | 0.449 | 0.899 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.08 | 1 | J | 0.0755 | 0.899 | 3.59 | EPA 6010C |
| 7440-50-8 | Copper | 3.08 | 1 | | 0.198 | 0.449 | 0.899 | EPA 6010C |
| 7439-89-6 | Iron | 13800 | 1 | | 0.539 | 4.49 | 8.99 | EPA 6010C |
| 7439-92-1 | Lead | 10.2 | 1 | | 0.216 | 1.80 | 3.59 | EPA 6010C |
| 7439-95-4 | Magnesium | 792 | 1 | | 2.16 | 22.5 | 44.9 | EPA 6010C |
| 7439-96-5 | Manganese | 186 | 1 | | 0.0133 | 0.899 | 1.80 | EPA 6010C |
| 7440-02-0 | Nickel | 4.39 | 1 | | 0.0737 | 0.449 | 0.899 | EPA 6010C |
| 7440-09-7 | Potassium | 737 | 1 | | 6.83 | 44.9 | 89.9 | EPA 6010C |
| 7782-49-2 | Selenium | <1.80 | 1 | U | 0.288 | 1.80 | 3.59 | EPA 6010C |
| 7440-22-4 | Silver | <0.449 | 1 | U | 0.0881 | 0.449 | 0.899 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 15.8 | 1 | ~~J~~ | 4.31 | 22.5 | 44.9 | EPA 6010C |
| 7440-28-0 | Thallium | 0.620 | 1 | J | 0.521 | 3.59 | 7.19 | EPA 6010C |
| 7440-62-2 | Vanadium | 16.8 | 1 | | 0.0755 | 0.899 | 1.80 | EPA 6010C |
| 7440-66-6 | Zinc | 96.2 | 1 | | 0.845 | 1.80 | 3.59 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-12 (YS25-SS29-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-11
File ID: 041515aRP1-048
Sampled: 04/07/15 11:10
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:51
Solids: 76.57
Preparation: EPA 3050B
Initial/Final: 0.71 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 16200 | 1 | | 2.39 | 18.4 | 36.8 | EPA 6010C |
| 7440-36-0 | Antimony | <1.84 | 1 | U | 0.368 | 1.84 | 3.68 | EPA 6010C |
| 7440-38-2 | Arsenic | 19.0 | 1 | | 0.791 | 1.84 | 3.68 | EPA 6010C |
| 7440-39-3 | Barium | 54.2 | 1 | | 0.0368 | 0.460 | 0.920 | EPA 6010C |
| 7440-41-7 | Beryllium | 1.37 | 1 | | 0.0143 | 0.0460 | 0.0920 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.310 | 1 | J | 0.0118 | 0.184 | 0.368 | EPA 6010C |
| 7440-70-2 | Calcium | 2450 | 1 | | 3.49 | 23.0 | 46.0 | EPA 6010C |
| 7440-47-3 | Chromium | 31.6 | 1 | | 0.0405 | 0.460 | 0.920 | EPA 6010C |
| 7440-48-4 | Cobalt | 6.12 | 1 | | 0.0773 | 0.920 | 3.68 | EPA 6010C |
| 7440-50-8 | Copper | 8.30 | 1 | | 0.202 | 0.460 | 0.920 | EPA 6010C |
| 7439-89-6 | Iron Exclude - LR | 49700 | 1 | ~~E~~ | 0.552 | 4.60 | 9.20 | EPA 6010C |
| 7439-92-1 | Lead | 16.2 | 1 | | 0.221 | 1.84 | 3.68 | EPA 6010C |
| 7439-95-4 | Magnesium | 2150 | 1 | | 2.21 | 23.0 | 46.0 | EPA 6010C |
| 7439-96-5 | Manganese | 168 | 1 | | 0.0136 | 0.920 | 1.84 | EPA 6010C |
| 7440-02-0 | Nickel | 11.4 | 1 | | 0.0754 | 0.460 | 0.920 | EPA 6010C |
| 7440-09-7 | Potassium | 2230 | 1 | | 6.99 | 46.0 | 92.0 | EPA 6010C |
| 7782-49-2 | Selenium | <1.84 | 1 | U | 0.294 | 1.84 | 3.68 | EPA 6010C |
| 7440-22-4 | Silver | <0.460 | 1 | U | 0.0901 | 0.460 | 0.920 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 32.1 | 1 | ~~J~~ | 4.41 | 23.0 | 46.0 | EPA 6010C |
| 7440-28-0 | Thallium | <3.68 | 1 | U | 0.533 | 3.68 | 7.36 | EPA 6010C |
| 7440-62-2 | Vanadium | 45.8 | 1 | | 0.0773 | 0.920 | 1.84 | EPA 6010C |
| 7440-66-6 | Zinc | 38.0 | 1 | | 0.865 | 1.84 | 3.68 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-12 (YS25-SS29-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-11RE1
File ID: 042015a-073
Sampled: 04/07/15 11:10
Prepared: 04/14/15 12:21
Analyzed: 04/20/15 12:55
Solids: 76.57
Preparation: EPA 3050B
Initial/Final: 0.71 g / 50 mL
Batch: 5D14003
Sequence: BA16540
Calibration: 1504004
Instrument: JMICP2

| CAS NO. | Analyte | | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | Exclude - DL | 17700 | 20 | ~~D~~ | 47.8 | 368 | 736 | EPA 6010C |
| 7440-36-0 | Antimony | Exclude - DL | <36.8 | 20 | ~~UD~~ | 7.36 | 36.8 | 73.6 | EPA 6010C |
| 7440-38-2 | Arsenic | Exclude - DL | 25.7 | 20 | ~~JD~~ | 15.8 | 36.8 | 73.6 | EPA 6010C |
| 7440-39-3 | Barium | Exclude - DL | 57.4 | 20 | ~~D~~ | 0.736 | 9.20 | 18.4 | EPA 6010C |
| 7440-41-7 | Beryllium | Exclude - DL | 1.59 | 20 | ~~JD~~ | 0.287 | 0.920 | 1.84 | EPA 6010C |
| 7440-43-9 | Cadmium | Exclude - DL | <3.68 | 20 | ~~UD~~ | 0.235 | 3.68 | 7.36 | EPA 6010C |
| 7440-70-2 | Calcium | Exclude - DL | 2560 | 20 | ~~D~~ | 69.9 | 460 | 920 | EPA 6010C |
| 7440-47-3 | Chromium | Exclude - DL | 34.2 | 20 | ~~D~~ | 0.809 | 9.20 | 18.4 | EPA 6010C |
| 7440-48-4 | Cobalt | Exclude - DL | 5.42 | 20 | ~~JD~~ | 1.55 | 18.4 | 73.6 | EPA 6010C |
| 7440-50-8 | Copper | Exclude - DL | 6.47 | 20 | ~~JD~~ | 4.05 | 9.20 | 18.4 | EPA 6010C |
| 7439-89-6 | Iron | | 56500 | 20 | ~~D~~ | 11.0 | 92.0 | 184 | EPA 6010C |
| 7439-92-1 | Lead | Exclude - DL | 18.3 | 20 | ~~JD~~ | 4.41 | 36.8 | 73.6 | EPA 6010C |
| 7439-95-4 | Magnesium | Exclude - DL | 2330 | 20 | ~~D~~ | 44.1 | 460 | 920 | EPA 6010C |
| 7439-96-5 | Manganese | Exclude - DL | 178 | 20 | ~~D~~ | 0.272 | 18.4 | 36.8 | EPA 6010C |
| 7440-02-0 | Nickel | Exclude - DL | 11.3 | 20 | ~~JD~~ | 1.51 | 9.20 | 18.4 | EPA 6010C |
| 7440-09-7 | Potassium | Exclude - DL | 2050 | 20 | ~~D~~ | 140 | 920 | 1840 | EPA 6010C |
| 7782-49-2 | Selenium | Exclude - DL | <36.8 | 20 | ~~UD~~ | 5.89 | 36.8 | 73.6 | EPA 6010C |
| 7440-22-4 | Silver | Exclude - DL | <9.20 | 20 | ~~UD~~ | 1.80 | 9.20 | 18.4 | EPA 6010C |
| 7440-23-5 | Sodium | Exclude - DL | <460 | 20 | ~~UD~~ | 88.3 | 460 | 920 | EPA 6010C |
| 7440-28-0 | Thallium | Exclude - DL | <73.6 | 20 | ~~UD~~ | 10.7 | 73.6 | 147 | EPA 6010C |
| 7440-62-2 | Vanadium | Exclude - DL | 49.5 | 20 | ~~D~~ | 1.55 | 18.4 | 36.8 | EPA 6010C |
| 7440-66-6 | Zinc | Exclude - DL | 41.0 | 20 | ~~JD~~ | 17.3 | 36.8 | 73.6 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-13 (YS25-SB29-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-12
File ID: 041515aRP1-049
Sampled: 04/07/15 11:20
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:53
Solids: 78.66
Preparation: EPA 3050B
Initial/Final: 0.79 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 15500 | 1 | | 2.09 | 16.1 | 32.2 | EPA 6010C |
| 7440-36-0 | Antimony | <1.61 | 1 | U | 0.322 | 1.61 | 3.22 | EPA 6010C |
| 7440-38-2 | Arsenic | 13.2 | 1 | | 0.692 | 1.61 | 3.22 | EPA 6010C |
| 7440-39-3 | Barium | 36.0 | 1 | | 0.0322 | 0.402 | 0.805 | EPA 6010C |
| 7440-41-7 | Beryllium | 1.17 | 1 | | 0.0126 | 0.0402 | 0.0805 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.302 | 1 | J | 0.0103 | 0.161 | 0.322 | EPA 6010C |
| 7440-70-2 | Calcium | 1950 | 1 | | 3.06 | 20.1 | 40.2 | EPA 6010C |
| 7440-47-3 | Chromium | 32.8 | 1 | | 0.0354 | 0.402 | 0.805 | EPA 6010C |
| 7440-48-4 | Cobalt | 5.29 | 1 | | 0.0676 | 0.805 | 3.22 | EPA 6010C |
| 7440-50-8 | Copper | 6.37 | 1 | | 0.177 | 0.402 | 0.805 | EPA 6010C |
| 7439-89-6 | Iron Exclude - LR | 45900 | 1 | ~~E~~ | 0.483 | 4.02 | 8.05 | EPA 6010C |
| 7439-92-1 | Lead | 11.2 | 1 | | 0.193 | 1.61 | 3.22 | EPA 6010C |
| 7439-95-4 | Magnesium | 2550 | 1 | | 1.93 | 20.1 | 40.2 | EPA 6010C |
| 7439-96-5 | Manganese | 91.3 | 1 | | 0.0119 | 0.805 | 1.61 | EPA 6010C |
| 7440-02-0 | Nickel | 10.2 | 1 | | 0.0660 | 0.402 | 0.805 | EPA 6010C |
| 7440-09-7 | Potassium | 3000 | 1 | | 6.12 | 40.2 | 80.5 | EPA 6010C |
| 7782-49-2 | Selenium | <1.61 | 1 | U | 0.257 | 1.61 | 3.22 | EPA 6010C |
| 7440-22-4 | Silver | <0.402 | 1 | U | 0.0789 | 0.402 | 0.805 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 35.6 | 1 | ~~J~~ | 3.86 | 20.1 | 40.2 | EPA 6010C |
| 7440-28-0 | Thallium | <3.22 | 1 | U | 0.467 | 3.22 | 6.44 | EPA 6010C |
| 7440-62-2 | Vanadium | 41.7 | 1 | | 0.0676 | 0.805 | 1.61 | EPA 6010C |
| 7440-66-6 | Zinc | 35.4 | 1 | | 0.756 | 1.61 | 3.22 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-13 (YS25-SB29-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-12RE1
File ID: 042015a-074
Sampled: 04/07/15 11:20
Prepared: 04/14/15 12:21
Analyzed: 04/20/15 12:58
Solids: 78.66
Preparation: EPA 3050B
Initial/Final: 0.79 g / 50 mL
Batch: 5D14003
Sequence: BA16540
Calibration: 1504004
Instrument: JMICP2

| CAS NO. | Analyte | | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | Exclude - DL | 16600 | 20 | ~~D~~ | 41.8 | 322 | 644 | EPA 6010C |
| 7440-36-0 | Antimony | Exclude - DL | <32.2 | 20 | ~~UD~~ | 6.44 | 32.2 | 64.4 | EPA 6010C |
| 7440-38-2 | Arsenic | Exclude - DL | 14.2 | 20 | ~~JD~~ | 13.8 | 32.2 | 64.4 | EPA 6010C |
| 7440-39-3 | Barium | Exclude - DL | 39.2 | 20 | ~~D~~ | 0.644 | 8.05 | 16.1 | EPA 6010C |
| 7440-41-7 | Beryllium | Exclude - DL | 1.39 | 20 | ~~JD~~ | 0.251 | 0.805 | 1.61 | EPA 6010C |
| 7440-43-9 | Cadmium | Exclude - DL | <3.22 | 20 | ~~UD~~ | 0.206 | 3.22 | 6.44 | EPA 6010C |
| 7440-70-2 | Calcium | Exclude - DL | 2090 | 20 | ~~D~~ | 61.2 | 402 | 805 | EPA 6010C |
| 7440-47-3 | Chromium | Exclude - DL | 35.9 | 20 | ~~D~~ | 0.708 | 8.05 | 16.1 | EPA 6010C |
| 7440-48-4 | Cobalt | Exclude - DL | 4.68 | 20 | ~~JD~~ | 1.35 | 16.1 | 64.4 | EPA 6010C |
| 7440-50-8 | Copper | Exclude - DL | 5.56 | 20 | ~~JD~~ | 3.54 | 8.05 | 16.1 | EPA 6010C |
| 7439-89-6 | Iron | | 52800 | 20 | ~~D~~ | 9.66 | 80.5 | 161 | EPA 6010C |
| 7439-92-1 | Lead | Exclude - DL | 12.9 | 20 | ~~JD~~ | 3.86 | 32.2 | 64.4 | EPA 6010C |
| 7439-95-4 | Magnesium | Exclude - DL | 2770 | 20 | ~~D~~ | 38.6 | 402 | 805 | EPA 6010C |
| 7439-96-5 | Manganese | Exclude - DL | 98.2 | 20 | ~~D~~ | 0.238 | 16.1 | 32.2 | EPA 6010C |
| 7440-02-0 | Nickel | Exclude - DL | 10.4 | 20 | ~~JD~~ | 1.32 | 8.05 | 16.1 | EPA 6010C |
| 7440-09-7 | Potassium | Exclude - DL | 2900 | 20 | ~~D~~ | 122 | 805 | 1610 | EPA 6010C |
| 7782-49-2 | Selenium | Exclude - DL | <32.2 | 20 | ~~UD~~ | 5.15 | 32.2 | 64.4 | EPA 6010C |
| 7440-22-4 | Silver | Exclude - DL | <8.05 | 20 | ~~UD~~ | 1.58 | 8.05 | 16.1 | EPA 6010C |
| 7440-23-5 | Sodium | Exclude - DL | <402 | 20 | ~~UD~~ | 77.2 | 402 | 805 | EPA 6010C |
| 7440-28-0 | Thallium | Exclude - DL | <64.4 | 20 | ~~UD~~ | 9.33 | 64.4 | 129 | EPA 6010C |
| 7440-62-2 | Vanadium | Exclude - DL | 44.5 | 20 | ~~D~~ | 1.35 | 16.1 | 32.2 | EPA 6010C |
| 7440-66-6 | Zinc | Exclude - DL | 38.3 | 20 | ~~JD~~ | 15.1 | 32.2 | 64.4 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-14 (YS25-SS30-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-13
File ID: 041515aRP1-050
Sampled: 04/07/15 12:10
Prepared: 04/14/15 12:21
Analyzed: 04/15/15 11:55
Solids: 90.48
Preparation: EPA 3050B
Initial/Final: 0.72 g / 50 mL
Batch: 5D14003
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5160 | 1 | | 2.00 | 15.4 | 30.7 | EPA 6010C |
| 7440-36-0 | Antimony | <1.54 | 1 | U | 0.307 | 1.54 | 3.07 | EPA 6010C |
| 7440-38-2 | Arsenic | 3.07 | 1 | | 0.660 | 1.54 | 3.07 | EPA 6010C |
| 7440-39-3 | Barium | 45.0 | 1 | | 0.0307 | 0.384 | 0.768 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.449 | 1 | | 0.0120 | 0.0384 | 0.0768 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.0524 | 1 | J | 0.00982 | 0.154 | 0.307 | EPA 6010C |
| 7440-70-2 | Calcium | 1170 | 1 | | 2.92 | 19.2 | 38.4 | EPA 6010C |
| 7440-47-3 | Chromium | 8.57 | 1 | | 0.0338 | 0.384 | 0.768 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.15 | 1 | | 0.0645 | 0.768 | 3.07 | EPA 6010C |
| 7440-50-8 | Copper | 3.02 | 1 | | 0.169 | 0.384 | 0.768 | EPA 6010C |
| 7439-89-6 | Iron | 11100 | 1 | | 0.461 | 3.84 | 7.68 | EPA 6010C |
| 7439-92-1 | Lead | 7.80 | 1 | | 0.184 | 1.54 | 3.07 | EPA 6010C |
| 7439-95-4 | Magnesium | 751 | 1 | | 1.84 | 19.2 | 38.4 | EPA 6010C |
| 7439-96-5 | Manganese | 200 | 1 | | 0.0114 | 0.768 | 1.54 | EPA 6010C |
| 7440-02-0 | Nickel | 4.03 | 1 | | 0.0629 | 0.384 | 0.768 | EPA 6010C |
| 7440-09-7 | Potassium | 691 | 1 | | 5.83 | 38.4 | 76.8 | EPA 6010C |
| 7782-49-2 | Selenium | <1.54 | 1 | U | 0.246 | 1.54 | 3.07 | EPA 6010C |
| 7440-22-4 | Silver | <0.384 | 1 | U | 0.0752 | 0.384 | 0.768 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 59.6 | 1 | | 3.68 | 19.2 | 38.4 | EPA 6010C |
| 7440-28-0 | Thallium | <3.07 | 1 | U | 0.445 | 3.07 | 6.14 | EPA 6010C |
| 7440-62-2 | Vanadium | 14.4 | 1 | | 0.0645 | 0.768 | 1.54 | EPA 6010C |
| 7440-66-6 | Zinc | 17.5 | 1 | | 0.721 | 1.54 | 3.07 | EPA 6010C |

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# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-15 (YS25-SB30-0H02-0415)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: B501635-14
File ID: 042015a-017
Sampled: 04/07/15 12:20
Prepared: 04/14/15 12:22
Analyzed: 04/20/15 10:59
Solids: 90.84
Preparation: EPA 3050B
Initial/Final: 0.64 g / 50 mL
Batch: 5D14004
Sequence: BA16540
Calibration: 1504004
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5810 | 1 | | 2.24 | 17.2 | 34.4 | EPA 6010C |
| 7440-36-0 | Antimony | <1.72 | 1 | U | 0.344 | 1.72 | 3.44 | EPA 6010C |
| 7440-38-2 | Arsenic | 2.93 | 1 | J | 0.740 | 1.72 | 3.44 | EPA 6010C |
| 7440-39-3 | Barium | 50.2 | 1 | | 0.0344 | 0.430 | 0.860 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.488 | 1 | | 0.0134 | 0.0430 | 0.0860 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.0357 | 1 | J | 0.0110 | 0.172 | 0.344 | EPA 6010C |
| 7440-70-2 | Calcium | 1230 | 1 | | 3.27 | 21.5 | 43.0 | EPA 6010C |
| 7440-47-3 | Chromium | 8.84 | 1 | | 0.0378 | 0.430 | 0.860 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.51 | 1 | | 0.0722 | 0.860 | 3.44 | EPA 6010C |
| 7440-50-8 | Copper | 3.32 | 1 | | 0.189 | 0.430 | 0.860 | EPA 6010C |
| 7439-89-6 | Iron | 11400 | 1 | | 0.516 | 4.30 | 8.60 | EPA 6010C |
| 7439-92-1 | Lead | 9.95 | 1 | | 0.206 | 1.72 | 3.44 | EPA 6010C |
| 7439-95-4 | Magnesium | 832 | 1 | | 2.06 | 21.5 | 43.0 | EPA 6010C |
| 7439-96-5 | Manganese | 226 | 1 | | 0.0127 | 0.860 | 1.72 | EPA 6010C |
| 7440-02-0 | Nickel | 4.43 | 1 | | 0.0705 | 0.430 | 0.860 | EPA 6010C |
| 7440-09-7 | Potassium | 692 | 1 | | 6.54 | 43.0 | 86.0 | EPA 6010C |
| 7782-49-2 | Selenium | <1.72 | 1 | U | 0.275 | 1.72 | 3.44 | EPA 6010C |
| 7440-22-4 | Silver | <0.430 | 1 | U | 0.0843 | 0.430 | 0.860 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 55.3 | 1 | | 4.13 | 21.5 | 43.0 | EPA 6010C |
| 7440-28-0 | Thallium | <3.44 | 1 | U | 0.499 | 3.44 | 6.88 | EPA 6010C |
| 7440-62-2 | Vanadium | 15.1 | 1 | | 0.0722 | 0.860 | 1.72 | EPA 6010C |
| 7440-66-6 | Zinc | 21.0 | 1 | | 0.808 | 1.72 | 3.44 | EPA 6010C |

KW070915

# INORGANIC ANALYSIS DATA SHEET

## EPA 6010C

A502126-16 (YS25-EB040715-SO)

Laboratory: ENCO Jacksonville
SDG: A502126-CTOWE19
Client: ENCO Orlando
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water
Laboratory ID: B501635-15
File ID: 041515aRP1-017
Sampled: 04/07/15 14:00
Prepared: 04/14/15 12:26
Analyzed: 04/15/15 10:44
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 50 mL / 50 mL
Batch: 5D14006
Sequence: BA16530
Calibration: 1504003
Instrument: JMICP2

| CAS NO. | Analyte | Concentration (ug/L) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | <200 | 1 | U | 41.0 | 200 | 400 | EPA 6010C |
| 7440-36-0 | Antimony | <20.0 | 1 | U | 5.00 | 20.0 | 40.0 | EPA 6010C |
| 7440-38-2 | Arsenic | <20.0 | 1 | U | 8.00 | 20.0 | 40.0 | EPA 6010C |
| 7440-39-3 | Barium | <5.00 | 1 | U | 0.390 | 5.00 | 10.0 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.215 | 1 | J | 0.120 | 0.500 | 1.00 | EPA 6010C |
| 7440-43-9 | Cadmium | <2.00 | 1 | U | 0.280 | 2.00 | 4.00 | EPA 6010C |
| 7440-70-2 | Calcium | 46.2 | 1 | J | 39.0 | 250 | 500 | EPA 6010C |
| 7440-47-3 | Chromium | <5.00 | 1 | U | 1.10 | 5.00 | 10.0 | EPA 6010C |
| 7440-48-4 | Cobalt | <10.0 | 1 | U | 1.50 | 10.0 | 40.0 | EPA 6010C |
| 7440-50-8 | Copper | 1.50 | 1 | J | 0.870 | 5.00 | 10.0 | EPA 6010C |
| 7439-89-6 | Iron | <50.0 | 1 | U | 6.00 | 50.0 | 100 | EPA 6010C |
| 7439-92-1 | Lead | <20.0 | 1 | U | 2.50 | 20.0 | 40.0 | EPA 6010C |
| 7439-95-4 | Magnesium | <250 | 1 | U | 17.0 | 250 | 500 | EPA 6010C |
| 7439-96-5 | Manganese | <10.0 | 1 | U | 0.550 | 10.0 | 20.0 | EPA 6010C |
| 7440-02-0 | Nickel B - MBL | 0.915 | 1 | ~~J~~ | 0.690 | 5.00 | 10.0 | EPA 6010C |
| 7440-09-7 | Potassium | <500 | 1 | U | 110 | 500 | 1000 | EPA 6010C |
| 7782-49-2 | Selenium | <20.0 | 1 | U | 8.20 | 20.0 | 40.0 | EPA 6010C |
| 7440-22-4 | Silver | <5.00 | 1 | U | 0.540 | 5.00 | 10.0 | EPA 6010C |
| 7440-23-5 | Sodium B - CCBL | 240 | 1 | ~~J~~ | 44.0 | 250 | 500 | EPA 6010C |
| 7440-28-0 | Thallium B - CCBL | 11.8 | 1 | ~~J~~ | 8.30 | 40.0 | 80.0 | EPA 6010C |
| 7440-62-2 | Vanadium | <10.0 | 1 | U | 0.500 | 10.0 | 20.0 | EPA 6010C |
| 7440-66-6 | Zinc | <10.0 | 1 | U | 6.30 | 10.0 | 20.0 | EPA 6010C |

KW070915

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SS13-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-01 | File ID: | 2DE034.D |
| Sampled: | 04/07/15 09:25 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 15:56 |
| Solids: | 78.95 | Preparation: | EPA 3550C | Initial/Final: | 30.3 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <4.3 | UD | 1.4 | 4.3 | 4.3 |
| 58-89-9 | gamma-BHC | 2 | <4.3 | UD | 1.5 | 4.3 | 4.3 |
| 319-85-7 | beta-BHC | 2 | <4.3 | UD | 2.5 | 4.3 | 4.3 |
| 319-86-8 | delta-BHC | 2 | <4.3 | UD | 1.3 | 4.3 | 4.3 |
| 76-44-8 | Heptachlor | 2 | <4.3 | UD | 1.6 | 4.3 | 4.3 |
| 309-00-2 | Aldrin | 2 | <4.3 | UD | 1.3 | 4.3 | 4.3 |
| 1024-57-3 | Heptachlor epoxide | 2 | <4.3 | UD | 1.2 | 4.3 | 4.3 |
| 5566-34-7 | Chlordane-gamma | 2 | <4.3 | UD | 1.1 | 4.3 | 4.3 |
| 5103-71-9 | Chlordane-alpha | 2 | <4.3 | UD | 1.1 | 4.3 | 4.3 |
| 72-55-9 | 4,4'-DDE | 2 | <4.3 | UD | 1.6 | 4.3 | 4.3 |
| 959-98-8 | Endosulfan I | 2 | <4.3 | UD | 0.99 | 4.3 | 4.3 |
| 60-57-1 | Dieldrin | 2 | <4.3 | UD | 1.1 | 4.3 | 4.3 |
| 72-20-8 | Endrin | 2 | <4.3 | UD | 1.9 | 4.3 | 4.3 |
| 72-54-8 | 4,4'-DDD | 2 | <4.3 | UD | 1.7 | 4.3 | 4.3 |
| 33213-65-9 | Endosulfan II | 2 | <4.3 | UD | 1.2 | 4.3 | 4.3 |
| 50-29-3 | 4,4'-DDT | 2 | <4.3 | UD | 1.7 | 4.3 | 4.3 |
| 7421-93-4 | Endrin aldehyde | 2 | <4.3 | UD | 2.1 | 4.3 | 4.3 |
| 72-43-5 | Methoxychlor | 2 | <4.3 | UD | 2.2 | 4.3 | 4.3 |
| 1031-07-8 | Endosulfan sulfate | 2 | <4.3 | UD | 1.2 | 4.3 | 4.3 |
| 53494-70-5 | Endrin ketone | 2 | <4.3 | UD | 1.2 | 4.3 | 4.3 |
| 8001-35-2 | Toxaphene | 2 | <76 | UD | 43 | 76 | 84 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 41.8 | 30 | 71 | 70 - 125 | |
| 2,4,5,6-TCMX [2C] | 41.8 | 39 | 93 | 70 - 125 | |
| Decachlorobiphenyl | 41.8 | 34 | 81 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 41.8 | 36 | 86 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 930400000 | 5.709 | 7.521E+08 | 5.707 | |
| DBC [2C] | 284300000 | 5.678 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SB13-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-02 | File ID: | 2DE035.D |
| Sampled: | 04/07/15 09:35 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 16:07 |
| Solids: | 80.67 | Preparation: | EPA 3550C | Initial/Final: | 29.9 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <4.2 | UD | 1.4 | 4.2 | 4.2 |
| 58-89-9 | gamma-BHC | 2 | <4.2 | UD | 1.5 | 4.2 | 4.2 |
| 319-85-7 | beta-BHC | 2 | <4.2 | UD | 2.5 | 4.2 | 4.2 |
| 319-86-8 | delta-BHC | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 76-44-8 | Heptachlor | 2 | <4.2 | UD | 1.5 | 4.2 | 4.2 |
| 309-00-2 | Aldrin | 2 | <4.2 | UD | 1.3 | 4.2 | 4.2 |
| 1024-57-3 | Heptachlor epoxide | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 5566-34-7 | Chlordane-gamma | 2 | <4.2 | UD | 1.1 | 4.2 | 4.2 |
| 5103-71-9 | Chlordane-alpha | 2 | <4.2 | UD | 1.1 | 4.2 | 4.2 |
| 72-55-9 | 4,4'-DDE | 2 | <4.2 | UD | 1.6 | 4.2 | 4.2 |
| 959-98-8 | Endosulfan I | 2 | <4.2 | UD | 0.97 | 4.2 | 4.2 |
| 60-57-1 | Dieldrin | 2 | <4.2 | UD | 1.1 | 4.2 | 4.2 |
| 72-20-8 | Endrin | 2 | <4.2 | UD | 1.8 | 4.2 | 4.2 |
| 72-54-8 | 4,4'-DDD | 2 | <4.2 | UD | 1.6 | 4.2 | 4.2 |
| 33213-65-9 | Endosulfan II | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 50-29-3 | 4,4'-DDT | 2 | <4.2 | UD | 1.6 | 4.2 | 4.2 |
| 7421-93-4 | Endrin aldehyde | 2 | <4.2 | UD | 2.1 | 4.2 | 4.2 |
| 72-43-5 | Methoxychlor | 2 | <4.2 | UD | 2.1 | 4.2 | 4.2 |
| 1031-07-8 | Endosulfan sulfate | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 53494-70-5 | Endrin ketone | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 8001-35-2 | Toxaphene | 2 | <74 | UD | 42 | 74 | 82 |

UL - SSL

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 41.5 | 23 | 56 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 41.5 | 30 | 72 | 70 - 125 | |
| Decachlorobiphenyl | 41.5 | 39 | 94 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 41.5 | 38 | 91 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 955000000 | 5.711 | 7.521E+08 | 5.707 | |
| DBC [2C] | 297200000 | 5.68 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SS20-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-03 | File ID: | 2DE036.D |
| Sampled: | 04/07/15 10:00 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 16:18 |
| Solids: | 66.02 | Preparation: | EPA 3550C | Initial/Final: | 30.1 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <5.2 | UD | 1.7 | 5.2 | 5.2 |
| 58-89-9 | gamma-BHC | 2 | <5.2 | UD | 1.8 | 5.2 | 5.2 |
| 319-85-7 | beta-BHC | 2 | <5.2 | UD | 3.0 | 5.2 | 5.2 |
| 319-86-8 | delta-BHC | 2 | <5.2 | UD | 1.5 | 5.2 | 5.2 |
| 76-44-8 | Heptachlor | 2 | <5.2 | UD | 1.9 | 5.2 | 5.2 |
| 309-00-2 | Aldrin | 2 | <5.2 | UD | 1.5 | 5.2 | 5.2 |
| 1024-57-3 | Heptachlor epoxide | 2 | <5.2 | UD | 1.5 | 5.2 | 5.2 |
| 5566-34-7 | Chlordane-gamma | 2 | <5.2 | UD | 1.4 | 5.2 | 5.2 |
| 5103-71-9 | Chlordane-alpha | 2 | <5.2 | UD | 1.4 | 5.2 | 5.2 |
| 72-55-9 | 4,4'-DDE | 2 | <5.2 | UD | 2.0 | 5.2 | 5.2 |
| 959-98-8 | Endosulfan I | 2 | <5.2 | UD | 1.2 | 5.2 | 5.2 |
| 60-57-1 | Dieldrin | 2 | <5.2 | UD | 1.4 | 5.2 | 5.2 |
| 72-20-8 | Endrin | 2 | <5.2 | UD | 2.2 | 5.2 | 5.2 |
| 72-54-8 | 4,4'-DDD | 2 | <5.2 | UD | 2.0 | 5.2 | 5.2 |
| 33213-65-9 | Endosulfan II | 2 | <5.2 | UD | 1.5 | 5.2 | 5.2 |
| 50-29-3 | 4,4'-DDT | 2 | <5.2 | UD | 2.0 | 5.2 | 5.2 |
| 7421-93-4 | Endrin aldehyde | 2 | <5.2 | UD | 2.5 | 5.2 | 5.2 |
| 72-43-5 | Methoxychlor | 2 | <5.2 | UD | 2.6 | 5.2 | 5.2 |
| 1031-07-8 | Endosulfan sulfate | 2 | <5.2 | UD | 1.5 | 5.2 | 5.2 |
| 53494-70-5 | Endrin ketone | 2 | <5.2 | UD | 1.4 | 5.2 | 5.2 |
| 8001-35-2 | Toxaphene | 2 | <91 | UD | 52 | 91 | 100 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 50.3 | 38 | 75 | 70 - 125 | |
| 2,4,5,6-TCMX [2C] | 50.3 | 40 | 79 | 70 - 125 | |
| Decachlorobiphenyl | 50.3 | 49 | 96 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 50.3 | 47 | 93 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 874200000 | 5.709 | 7.521E+08 | 5.707 | |
| DBC [2C] | 280200000 | 5.677 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SB20-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-04 | File ID: | 2DE037.D |
| Sampled: | 04/07/15 10:10 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 16:29 |
| Solids: | 88.28 | Preparation: | EPA 3550C | Initial/Final: | 30.1 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <3.9 | UD | 1.3 | 3.9 | 3.9 |
| 58-89-9 | gamma-BHC | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 319-85-7 | beta-BHC | 2 | <3.9 | UD | 2.3 | 3.9 | 3.9 |
| 319-86-8 | delta-BHC | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 76-44-8 | Heptachlor | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 309-00-2 | Aldrin | 2 | <3.9 | UD | 1.2 | 3.9 | 3.9 |
| 1024-57-3 | Heptachlor epoxide | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 5566-34-7 | Chlordane-gamma | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 5103-71-9 | Chlordane-alpha | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-55-9 | 4,4'-DDE | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 959-98-8 | Endosulfan I | 2 | <3.9 | UD | 0.88 | 3.9 | 3.9 |
| 60-57-1 | Dieldrin | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-20-8 | Endrin | 2 | <3.9 | UD | 1.7 | 3.9 | 3.9 |
| 72-54-8 | 4,4'-DDD | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 33213-65-9 | Endosulfan II | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 50-29-3 | 4,4'-DDT | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 7421-93-4 | Endrin aldehyde | 2 | <3.9 | UD | 1.9 | 3.9 | 3.9 |
| 72-43-5 | Methoxychlor | 2 | <3.9 | UD | 1.9 | 3.9 | 3.9 |
| 1031-07-8 | Endosulfan sulfate | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 53494-70-5 | Endrin ketone | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 8001-35-2 | Toxaphene | 2 | <68 | UD | 39 | 68 | 75 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 37.6 | 31 | 83 | 70 - 125 | |
| 2,4,5,6-TCMX [2C] | 37.6 | 36 | 95 | 70 - 125 | |
| Decachlorobiphenyl | 37.6 | 32 | 86 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 37.6 | 30 | 81 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 843100000 | 5.708 | 7.521E+08 | 5.707 | |
| DBC [2C] | 305500000 | 5.677 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SS21-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-05 | File ID: | 2DE038.D |
| Sampled: | 04/07/15 10:30 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 16:41 |
| Solids: | 85.78 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

Batch: 5D09001 Sequence: AA33388 Calibration: 1504047 Instrument: OSVGCECD2

UL - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <4.0 | UD | 1.3 | 4.0 | 4.0 |
| 58-89-9 | gamma-BHC | 2 | <4.0 | UD | 1.4 | 4.0 | 4.0 |
| 319-85-7 | beta-BHC | 2 | <4.0 | UD | 2.3 | 4.0 | 4.0 |
| 319-86-8 | delta-BHC | 2 | <4.0 | UD | 1.2 | 4.0 | 4.0 |
| 76-44-8 | Heptachlor | 2 | <4.0 | UD | 1.4 | 4.0 | 4.0 |
| 309-00-2 | Aldrin | 2 | <4.0 | UD | 1.2 | 4.0 | 4.0 |
| 1024-57-3 | Heptachlor epoxide | 2 | <4.0 | UD | 1.1 | 4.0 | 4.0 |
| 5566-34-7 | Chlordane-gamma | 2 | <4.0 | UD | 1.0 | 4.0 | 4.0 |
| 5103-71-9 | Chlordane-alpha | 2 | <4.0 | UD | 1.0 | 4.0 | 4.0 |
| 72-55-9 | 4,4'-DDE | 2 | <4.0 | UD | 1.5 | 4.0 | 4.0 |
| 959-98-8 | Endosulfan I | 2 | <4.0 | UD | 0.91 | 4.0 | 4.0 |
| 60-57-1 | Dieldrin | 2 | <4.0 | UD | 1.0 | 4.0 | 4.0 |
| 72-20-8 | Endrin | 2 | <4.0 | UD | 1.7 | 4.0 | 4.0 |
| 72-54-8 | 4,4'-DDD | 2 | <4.0 | UD | 1.5 | 4.0 | 4.0 |
| 33213-65-9 | Endosulfan II | 2 | <4.0 | UD | 1.1 | 4.0 | 4.0 |
| 50-29-3 | 4,4'-DDT | 2 | <4.0 | UD | 1.5 | 4.0 | 4.0 |
| 7421-93-4 | Endrin aldehyde | 2 | <4.0 | UD | 1.9 | 4.0 | 4.0 |
| 72-43-5 | Methoxychlor | 2 | <4.0 | UD | 2.0 | 4.0 | 4.0 |
| 1031-07-8 | Endosulfan sulfate | 2 | <4.0 | UD | 1.1 | 4.0 | 4.0 |
| 53494-70-5 | Endrin ketone | 2 | <4.0 | UD | 1.1 | 4.0 | 4.0 |
| 8001-35-2 | Toxaphene | 2 | <70 | UD | 40 | 70 | 77 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.9 | 26 | 68 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 38.9 | 30 | 77 | 70 - 125 | |
| Decachlorobiphenyl | 38.9 | 31 | 80 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 38.9 | 33 | 86 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 887400000 | 5.709 | 7.521E+08 | 5.707 | |
| DBC [2C] | 294800000 | 5.677 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SB21-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-06 | File ID: | 2DE039.D |
| Sampled: | 04/07/15 10:40 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 16:52 |
| Solids: | 86.94 | Preparation: | EPA 3550C | Initial/Final: | 30.1 g / 10 mL |

Batch: 5D09001 Sequence: AA33388 Calibration: 1504047 Instrument: OSVGCECD2

UL - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <3.9 | UD | 1.3 | 3.9 | 3.9 |
| 58-89-9 | gamma-BHC | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 319-85-7 | beta-BHC | 2 | <3.9 | UD | 2.3 | 3.9 | 3.9 |
| 319-86-8 | delta-BHC | 2 | <3.9 | UD | 1.2 | 3.9 | 3.9 |
| 76-44-8 | Heptachlor | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 309-00-2 | Aldrin | 2 | <3.9 | UD | 1.2 | 3.9 | 3.9 |
| 1024-57-3 | Heptachlor epoxide | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 5566-34-7 | Chlordane-gamma | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 5103-71-9 | Chlordane-alpha | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-55-9 | 4,4'-DDE | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 959-98-8 | Endosulfan I | 2 | <3.9 | UD | 0.90 | 3.9 | 3.9 |
| 60-57-1 | Dieldrin | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-20-8 | Endrin | 2 | <3.9 | UD | 1.7 | 3.9 | 3.9 |
| 72-54-8 | 4,4'-DDD | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 33213-65-9 | Endosulfan II | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 50-29-3 | 4,4'-DDT | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 7421-93-4 | Endrin aldehyde | 2 | <3.9 | UD | 1.9 | 3.9 | 3.9 |
| 72-43-5 | Methoxychlor | 2 | <3.9 | UD | 2.0 | 3.9 | 3.9 |
| 1031-07-8 | Endosulfan sulfate | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 53494-70-5 | Endrin ketone | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 8001-35-2 | Toxaphene | 2 | <69 | UD | 39 | 69 | 76 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.2 | 26 | 68 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 38.2 | 31 | 82 | 70 - 125 | |
| Decachlorobiphenyl | 38.2 | 33 | 87 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 38.2 | 35 | 92 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 900800000 | 5.707 | 7.521E+08 | 5.707 | |
| DBC [2C] | 313300000 | 5.676 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SS27-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-07 | File ID: | 2DE040.D |
| Sampled: | 04/07/15 12:40 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 17:03 |
| Solids: | 87.11 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <3.9 | UD | 1.3 | 3.9 | 3.9 |
| 58-89-9 | gamma-BHC | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 319-85-7 | beta-BHC | 2 | <3.9 | UD | 2.3 | 3.9 | 3.9 |
| 319-86-8 | delta-BHC | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 76-44-8 | Heptachlor | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 309-00-2 | Aldrin | 2 | <3.9 | UD | 1.2 | 3.9 | 3.9 |
| 1024-57-3 | Heptachlor epoxide | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 5566-34-7 | Chlordane-gamma | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 5103-71-9 | Chlordane-alpha | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-55-9 | 4,4'-DDE | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 959-98-8 | Endosulfan I | 2 | <3.9 | UD | 0.90 | 3.9 | 3.9 |
| 60-57-1 | Dieldrin | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-20-8 | Endrin | 2 | <3.9 | UD | 1.7 | 3.9 | 3.9 |
| 72-54-8 | 4,4'-DDD | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 33213-65-9 | Endosulfan II | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 50-29-3 | 4,4'-DDT | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 7421-93-4 | Endrin aldehyde | 2 | <3.9 | UD | 1.9 | 3.9 | 3.9 |
| 72-43-5 | Methoxychlor | 2 | <3.9 | UD | 2.0 | 3.9 | 3.9 |
| 1031-07-8 | Endosulfan sulfate | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 53494-70-5 | Endrin ketone | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 8001-35-2 | Toxaphene | 2 | <69 | UD | 39 | 69 | 76 |

UL - SSL

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.3 | 20 | 53 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 38.3 | 24 | 64 | 70 - 125 | * |
| Decachlorobiphenyl | 38.3 | 30 | 77 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 38.3 | 29 | 75 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 1098200000 | 5.708 | 7.521E+08 | 5.707 | |
| DBC [2C] | 382800000 | 5.677 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SS27-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-07RE1 | File ID: | 2DW118.D |
| Sampled: | 04/07/15 12:40 | Prepared: | 04/11/15 09:15 | Analyzed: | 04/28/15 12:02 |
| Solids: | 87.11 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

Batch: 5D11004 Sequence: AA33600 Calibration: 1504047 Instrument: OSVGCECD2

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <3.9 | UD | 1.3 | 3.9 | 3.9 |
| 58-89-9 | gamma-BHC | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 319-85-7 | beta-BHC | 2 | <3.9 | UD | 2.3 | 3.9 | 3.9 |
| 319-86-8 | delta-BHC | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 76-44-8 | Heptachlor | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 309-00-2 | Aldrin | 2 | <3.9 | UD | 1.2 | 3.9 | 3.9 |
| 1024-57-3 | Heptachlor epoxide [2C] | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 5566-34-7 | Chlordane-gamma | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 5103-71-9 | Chlordane-alpha | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-55-9 | 4,4'-DDE | 2 | <3.9 | UDQ | 1.5 | 3.9 | 3.9 |
| 959-98-8 | Endosulfan I | 2 | <3.9 | UD | 0.90 | 3.9 | 3.9 |
| 60-57-1 | Dieldrin | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-20-8 | Endrin | 2 | <3.9 | UD | 1.7 | 3.9 | 3.9 |
| 72-54-8 | 4,4'-DDD | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 33213-65-9 | Endosulfan II | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 50-29-3 | 4,4'-DDT | 2 | <3.9 | UDQ | 1.5 | 3.9 | 3.9 |
| 7421-93-4 | Endrin aldehyde | 2 | <3.9 | UD | 1.9 | 3.9 | 3.9 |
| 72-43-5 | Methoxychlor | 2 | <3.9 | UDQ | 2.0 | 3.9 | 3.9 |
| 1031-07-8 | Endosulfan sulfate | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 53494-70-5 | Endrin ketone [2C] | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 8001-35-2 | Toxaphene | 2 | <69 | UD | 39 | 69 | 76 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.3 | 17 | 44 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 38.3 | 24 | 62 | 70 - 125 | * |
| Decachlorobiphenyl | 38.3 | 23 | 60 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 38.3 | 28 | 74 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 1281100000 | 5.681 | 7.521E+08 | 5.707 | |
| DBC [2C] | 347200000 | 5.651 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SB27-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-08 | File ID: | 2DE041.D |
| Sampled: | 04/07/15 12:50 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 17:15 |
| Solids: | 85.89 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <4.0 | UD | 1.3 | 4.0 | 4.0 |
| 58-89-9 | gamma-BHC | 2 | <4.0 | UD | 1.4 | 4.0 | 4.0 |
| 319-85-7 | beta-BHC | 2 | <4.0 | UD | 2.3 | 4.0 | 4.0 |
| 319-86-8 | delta-BHC | 2 | <4.0 | UD | 1.2 | 4.0 | 4.0 |
| 76-44-8 | Heptachlor | 2 | <4.0 | UD | 1.4 | 4.0 | 4.0 |
| 309-00-2 | Aldrin | 2 | <4.0 | UD | 1.2 | 4.0 | 4.0 |
| 1024-57-3 | Heptachlor epoxide | 2 | <4.0 | UD | 1.1 | 4.0 | 4.0 |
| 5566-34-7 | Chlordane-gamma | 2 | <4.0 | UD | 1.0 | 4.0 | 4.0 |
| 5103-71-9 | Chlordane-alpha | 2 | <4.0 | UD | 1.0 | 4.0 | 4.0 |
| 72-55-9 | 4,4'-DDE | 2 | <4.0 | UD | 1.5 | 4.0 | 4.0 |
| 959-98-8 | Endosulfan I | 2 | <4.0 | UD | 0.91 | 4.0 | 4.0 |
| 60-57-1 | Dieldrin | 2 | <4.0 | UD | 1.0 | 4.0 | 4.0 |
| 72-20-8 | Endrin | 2 | <4.0 | UD | 1.7 | 4.0 | 4.0 |
| 72-54-8 | 4,4'-DDD | 2 | <4.0 | UD | 1.5 | 4.0 | 4.0 |
| 33213-65-9 | Endosulfan II | 2 | <4.0 | UD | 1.1 | 4.0 | 4.0 |
| 50-29-3 | 4,4'-DDT | 2 | <4.0 | UD | 1.5 | 4.0 | 4.0 |
| 7421-93-4 | Endrin aldehyde | 2 | <4.0 | UD | 1.9 | 4.0 | 4.0 |
| 72-43-5 | Methoxychlor | 2 | <4.0 | UD | 2.0 | 4.0 | 4.0 |
| 1031-07-8 | Endosulfan sulfate | 2 | <4.0 | UD | 1.1 | 4.0 | 4.0 |
| 53494-70-5 | Endrin ketone | 2 | <4.0 | UD | 1.1 | 4.0 | 4.0 |
| 8001-35-2 | Toxaphene | 2 | <70 | UD | 40 | 70 | 77 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.8 | 39 | 100 | 70 - 125 | |
| 2,4,5,6-TCMX [2C] | 38.8 | 43 | 111 | 70 - 125 | |
| Decachlorobiphenyl | 38.8 | 41 | 106 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 38.8 | 44 | 112 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 822700000 | 5.712 | 7.521E+08 | 5.707 | |
| DBC [2C] | 299500000 | 5.682 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SS28-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-09 | File ID: | 2DE042.D |
| Sampled: | 04/07/15 13:30 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 17:26 |
| Solids: | 81.26 | Preparation: | EPA 3550C | Initial/Final: | 29.8 g / 10 mL |

Batch: 5D09001 Sequence: AA33388 Calibration: 1504047 Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <4.2 | UD | 1.4 | 4.2 | 4.2 |
| 58-89-9 | gamma-BHC | 2 | <4.2 | UD | 1.5 | 4.2 | 4.2 |
| 319-85-7 | beta-BHC | 2 | <4.2 | UD | 2.5 | 4.2 | 4.2 |
| 319-86-8 | delta-BHC | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 76-44-8 | Heptachlor | 2 | <4.2 | UD | 1.5 | 4.2 | 4.2 |
| 309-00-2 | Aldrin | 2 | <4.2 | UD | 1.3 | 4.2 | 4.2 |
| 1024-57-3 | Heptachlor epoxide | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 5566-34-7 | Chlordane-gamma | 2 | <4.2 | UD | 1.1 | 4.2 | 4.2 |
| 5103-71-9 | Chlordane-alpha | 2 | <4.2 | UD | 1.1 | 4.2 | 4.2 |
| 72-55-9 | 4,4'-DDE | 2 | <4.2 | UD | 1.6 | 4.2 | 4.2 |
| 959-98-8 | Endosulfan I | 2 | <4.2 | UD | 0.96 | 4.2 | 4.2 |
| 60-57-1 | Dieldrin | 2 | <4.2 | UD | 1.1 | 4.2 | 4.2 |
| 72-20-8 | Endrin | 2 | <4.2 | UD | 1.8 | 4.2 | 4.2 |
| 72-54-8 | 4,4'-DDD | 2 | <4.2 | UD | 1.6 | 4.2 | 4.2 |
| 33213-65-9 | Endosulfan II | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 50-29-3 | 4,4'-DDT | 2 | <4.2 | UD | 1.6 | 4.2 | 4.2 |
| 7421-93-4 | Endrin aldehyde | 2 | <4.2 | UD | 2.0 | 4.2 | 4.2 |
| 72-43-5 | Methoxychlor | 2 | <4.2 | UD | 2.1 | 4.2 | 4.2 |
| 1031-07-8 | Endosulfan sulfate | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 53494-70-5 | Endrin ketone | 2 | <4.2 | UD | 1.2 | 4.2 | 4.2 |
| 8001-35-2 | Toxaphene | 2 | <74 | UD | 42 | 74 | 81 |

UL - SSL

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 41.3 | 28 | 69 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 41.3 | 31 | 75 | 70 - 125 | |
| Decachlorobiphenyl | 41.3 | 42 | 101 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 41.3 | 45 | 109 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 982000000 | 5.708 | 7.521E+08 | 5.707 | |
| DBC [2C] | 342000000 | 5.677 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SB28-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10 | File ID: | 2DE043.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 17:37 |
| Solids: | 86.93 | Preparation: | EPA 3550C | Initial/Final: | 30.4 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

UL - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <3.9 | UD | 1.3 | 3.9 | 3.9 |
| 58-89-9 | gamma-BHC | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 319-85-7 | beta-BHC | 2 | <3.9 | UD | 2.3 | 3.9 | 3.9 |
| 319-86-8 | delta-BHC | 2 | <3.9 | UD | 1.2 | 3.9 | 3.9 |
| 76-44-8 | Heptachlor | 2 | <3.9 | UD | 1.4 | 3.9 | 3.9 |
| 309-00-2 | Aldrin | 2 | <3.9 | UD | 1.2 | 3.9 | 3.9 |
| 1024-57-3 | Heptachlor epoxide | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 5566-34-7 | Chlordane-gamma | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 5103-71-9 | Chlordane-alpha | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-55-9 | 4,4'-DDE | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 959-98-8 | Endosulfan I | 2 | <3.9 | UD | 0.90 | 3.9 | 3.9 |
| 60-57-1 | Dieldrin | 2 | <3.9 | UD | 1.0 | 3.9 | 3.9 |
| 72-20-8 | Endrin | 2 | <3.9 | UD | 1.7 | 3.9 | 3.9 |
| 72-54-8 | 4,4'-DDD | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 33213-65-9 | Endosulfan II | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 50-29-3 | 4,4'-DDT | 2 | <3.9 | UD | 1.5 | 3.9 | 3.9 |
| 7421-93-4 | Endrin aldehyde | 2 | <3.9 | UD | 1.9 | 3.9 | 3.9 |
| 72-43-5 | Methoxychlor | 2 | <3.9 | UD | 2.0 | 3.9 | 3.9 |
| 1031-07-8 | Endosulfan sulfate | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 53494-70-5 | Endrin ketone | 2 | <3.9 | UD | 1.1 | 3.9 | 3.9 |
| 8001-35-2 | Toxaphene | 2 | <69 | UD | 39 | 69 | 76 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 37.8 | 21 | 57 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 37.8 | 27 | 71 | 70 - 125 | |
| Decachlorobiphenyl | 37.8 | 32 | 85 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 37.8 | 34 | 89 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 958300000 | 5.712 | 7.521E+08 | 5.707 | |
| DBC [2C] | 332500000 | 5.681 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SS29-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-12 | File ID: | 2DE044.D |
| Sampled: | 04/07/15 11:10 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 17:49 |
| Solids: | 76.57 | Preparation: | EPA 3550C | Initial/Final: | 30.2 g / 10 mL |

Batch: 5D09001 Sequence: AA33388 Calibration: 1504047 Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <4.4 | UD | 1.5 | 4.4 | 4.4 |
| 58-89-9 | gamma-BHC | 2 | <4.4 | UD | 1.6 | 4.4 | 4.4 |
| 319-85-7 | beta-BHC | 2 | <4.4 | UD | 2.6 | 4.4 | 4.4 |
| 319-86-8 | delta-BHC | 2 | <4.4 | UD | 1.3 | 4.4 | 4.4 |
| 76-44-8 | Heptachlor | 2 | <4.4 | UD | 1.6 | 4.4 | 4.4 |
| 309-00-2 | Aldrin | 2 | <4.4 | UD | 1.3 | 4.4 | 4.4 |
| 1024-57-3 | Heptachlor epoxide | 2 | <4.4 | UD | 1.3 | 4.4 | 4.4 |
| 5566-34-7 | Chlordane-gamma | 2 | <4.4 | UD | 1.2 | 4.4 | 4.4 |
| 5103-71-9 | Chlordane-alpha | 2 | <4.4 | UD | 1.2 | 4.4 | 4.4 |
| 72-55-9 | 4,4'-DDE | 2 | <4.4 | UD | 1.7 | 4.4 | 4.4 |
| 959-98-8 | Endosulfan I | 2 | <4.4 | UD | 1.0 | 4.4 | 4.4 |
| 60-57-1 | Dieldrin | 2 | <4.4 | UD | 1.2 | 4.4 | 4.4 |
| 72-20-8 | Endrin | 2 | <4.4 | UD | 1.9 | 4.4 | 4.4 |
| 72-54-8 | 4,4'-DDD | 2 | <4.4 | UD | 1.7 | 4.4 | 4.4 |
| 33213-65-9 | Endosulfan II | 2 | <4.4 | UD | 1.3 | 4.4 | 4.4 |
| 50-29-3 | 4,4'-DDT | 2 | <4.4 | UD | 1.7 | 4.4 | 4.4 |
| 7421-93-4 | Endrin aldehyde | 2 | <4.4 | UD | 2.2 | 4.4 | 4.4 |
| 72-43-5 | Methoxychlor | 2 | <4.4 | UD | 2.2 | 4.4 | 4.4 |
| 1031-07-8 | Endosulfan sulfate | 2 | <4.4 | UD | 1.3 | 4.4 | 4.4 |
| 53494-70-5 | Endrin ketone | 2 | <4.4 | UD | 1.2 | 4.4 | 4.4 |
| 8001-35-2 | Toxaphene | 2 | <78 | UD | 44 | 78 | 86 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 43.2 | 31 | 73 | 70 - 125 | |
| 2,4,5,6-TCMX [2C] | 43.2 | 36 | 84 | 70 - 125 | |
| Decachlorobiphenyl | 43.2 | 37 | 87 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 43.2 | 41 | 94 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 985500000 | 5.708 | 7.521E+08 | 5.707 | |
| DBC [2C] | 362400000 | 5.677 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SB29-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-13 | File ID: | 2DE045.D |
| Sampled: | 04/07/15 11:20 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 18:00 |
| Solids: | 78.66 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <4.3 | UD | 1.4 | 4.3 | 4.3 |
| 58-89-9 | gamma-BHC | 2 | <4.3 | UD | 1.5 | 4.3 | 4.3 |
| 319-85-7 | beta-BHC | 2 | <4.3 | UD | 2.5 | 4.3 | 4.3 |
| 319-86-8 | delta-BHC | 2 | <4.3 | UD | 1.3 | 4.3 | 4.3 |
| 76-44-8 | Heptachlor | 2 | <4.3 | UD | 1.6 | 4.3 | 4.3 |
| 309-00-2 | Aldrin | 2 | <4.3 | UD | 1.3 | 4.3 | 4.3 |
| 1024-57-3 | Heptachlor epoxide | 2 | <4.3 | UD | 1.2 | 4.3 | 4.3 |
| 5566-34-7 | Chlordane-gamma | 2 | <4.3 | UD | 1.1 | 4.3 | 4.3 |
| 5103-71-9 | Chlordane-alpha | 2 | <4.3 | UD | 1.1 | 4.3 | 4.3 |
| 72-55-9 | 4,4'-DDE | 2 | <4.3 | UD | 1.7 | 4.3 | 4.3 |
| 959-98-8 | Endosulfan I | 2 | <4.3 | UD | 0.99 | 4.3 | 4.3 |
| 60-57-1 | Dieldrin | 2 | <4.3 | UD | 1.1 | 4.3 | 4.3 |
| 72-20-8 | Endrin | 2 | <4.3 | UD | 1.9 | 4.3 | 4.3 |
| 72-54-8 | 4,4'-DDD | 2 | <4.3 | UD | 1.7 | 4.3 | 4.3 |
| 33213-65-9 | Endosulfan II | 2 | <4.3 | UD | 1.2 | 4.3 | 4.3 |
| 50-29-3 | 4,4'-DDT | 2 | <4.3 | UD | 1.7 | 4.3 | 4.3 |
| 7421-93-4 | Endrin aldehyde | 2 | <4.3 | UD | 2.1 | 4.3 | 4.3 |
| 72-43-5 | Methoxychlor | 2 | <4.3 | UD | 2.2 | 4.3 | 4.3 |
| 1031-07-8 | Endosulfan sulfate | 2 | <4.3 | UD | 1.2 | 4.3 | 4.3 |
| 53494-70-5 | Endrin ketone | 2 | <4.3 | UD | 1.2 | 4.3 | 4.3 |
| 8001-35-2 | Toxaphene | 2 | <76 | UD | 43 | 76 | 84 |

UL - SSL

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 42.4 | 24 | 56 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 42.4 | 31 | 73 | 70 - 125 | |
| Decachlorobiphenyl | 42.4 | 35 | 83 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 42.4 | 46 | 107 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 967500000 | 5.711 | 7.521E+08 | 5.707 | |
| DBC [2C] | 320900000 | 5.68 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

**YS25-SS30-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-14 | File ID: | 2DE046.D |
| Sampled: | 04/07/15 12:10 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 18:11 |
| Solids: | 90.48 | Preparation: | EPA 3550C | Initial/Final: | 30.3 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09001 | Sequence: | AA33388 | Calibration: | 1504047 | Instrument: | OSVGCECD2 |

UL - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <3.8 | UD | 1.2 | 3.8 | 3.8 |
| 58-89-9 | gamma-BHC | 2 | <3.8 | UD | 1.3 | 3.8 | 3.8 |
| 319-85-7 | beta-BHC | 2 | <3.8 | UD | 2.2 | 3.8 | 3.8 |
| 319-86-8 | delta-BHC | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 76-44-8 | Heptachlor | 2 | <3.8 | UD | 1.4 | 3.8 | 3.8 |
| 309-00-2 | Aldrin | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 1024-57-3 | Heptachlor epoxide | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 5566-34-7 | Chlordane-gamma | 2 | <3.8 | UD | 0.99 | 3.8 | 3.8 |
| 5103-71-9 | Chlordane-alpha | 2 | <3.8 | UD | 0.99 | 3.8 | 3.8 |
| 72-55-9 | 4,4'-DDE | 2 | <3.8 | UD | 1.4 | 3.8 | 3.8 |
| 959-98-8 | Endosulfan I | 2 | <3.8 | UD | 0.86 | 3.8 | 3.8 |
| 60-57-1 | Dieldrin | 2 | <3.8 | UD | 0.99 | 3.8 | 3.8 |
| 72-20-8 | Endrin | 2 | <3.8 | UD | 1.6 | 3.8 | 3.8 |
| 72-54-8 | 4,4'-DDD | 2 | <3.8 | UD | 1.5 | 3.8 | 3.8 |
| 33213-65-9 | Endosulfan II | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 50-29-3 | 4,4'-DDT | 2 | <3.8 | UD | 1.5 | 3.8 | 3.8 |
| 7421-93-4 | Endrin aldehyde | 2 | <3.8 | UD | 1.8 | 3.8 | 3.8 |
| 72-43-5 | Methoxychlor | 2 | <3.8 | UD | 1.9 | 3.8 | 3.8 |
| 1031-07-8 | Endosulfan sulfate | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 53494-70-5 | Endrin ketone | 2 | <3.8 | UD | 1.0 | 3.8 | 3.8 |
| 8001-35-2 | Toxaphene | 2 | <66 | UD | 38 | 66 | 73 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 36.5 | 16 | 44 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 36.5 | 22 | 61 | 70 - 125 | * |
| Decachlorobiphenyl | 36.5 | 23 | 63 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 36.5 | 31 | 86 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 1432200000 | 5.716 | 7.521E+08 | 5.707 | |
| DBC [2C] | 381900000 | 5.686 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

**YS25-SS30-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-14RE1 | File ID: | 2DW119.D |
| Sampled: | 04/07/15 12:10 | Prepared: | 04/11/15 09:15 | Analyzed: | 04/28/15 12:13 |
| Solids: | 90.48 | Preparation: | EPA 3550C | Initial/Final: | 30.1 g / 10 mL |

Batch: 5D11004 Sequence: AA33600 Calibration: 1504047 Instrument: OSVGCECD2

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC [2C] | 2 | <3.8 | UD | 1.2 | 3.8 | 3.8 |
| 58-89-9 | gamma-BHC [2C] | 2 | <3.8 | UD | 1.3 | 3.8 | 3.8 |
| 319-85-7 | beta-BHC [2C] | 2 | <3.8 | UD | 2.2 | 3.8 | 3.8 |
| 319-86-8 | delta-BHC [2C] | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 76-44-8 | Heptachlor [2C] | 2 | <3.8 | UD | 1.4 | 3.8 | 3.8 |
| 309-00-2 | Aldrin [2C] | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 1024-57-3 | Heptachlor epoxide [2C] | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 5566-34-7 | Chlordane-gamma [2C] | 2 | <3.8 | UD | 0.99 | 3.8 | 3.8 |
| 5103-71-9 | Chlordane-alpha [2C] | 2 | <3.8 | UD | 0.99 | 3.8 | 3.8 |
| 72-55-9 | 4,4'-DDE [2C] | 2 | <3.8 | UDQ | 1.4 | 3.8 | 3.8 |
| 959-98-8 | Endosulfan I [2C] | 2 | <3.8 | UD | 0.86 | 3.8 | 3.8 |
| 60-57-1 | Dieldrin [2C] | 2 | <3.8 | UD | 0.99 | 3.8 | 3.8 |
| 72-20-8 | Endrin [2C] | 2 | <3.8 | UD | 1.6 | 3.8 | 3.8 |
| 72-54-8 | 4,4'-DDD [2C] | 2 | <3.8 | UD | 1.5 | 3.8 | 3.8 |
| 33213-65-9 | Endosulfan II [2C] | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 50-29-3 | 4,4'-DDT [2C] | 2 | <3.8 | UDQ | 1.5 | 3.8 | 3.8 |
| 7421-93-4 | Endrin aldehyde [2C] | 2 | <3.8 | UD | 1.8 | 3.8 | 3.8 |
| 72-43-5 | Methoxychlor [2C] | 2 | <3.8 | UDQ | 1.9 | 3.8 | 3.8 |
| 1031-07-8 | Endosulfan sulfate [2C] | 2 | <3.8 | UD | 1.1 | 3.8 | 3.8 |
| 53494-70-5 | Endrin ketone [2C] | 2 | <3.8 | UD | 1.0 | 3.8 | 3.8 |
| 8001-35-2 | Toxaphene | 2 | <66 | UD | 38 | 66 | 73 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 36.7 | 12 | 34 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 36.7 | 21 | 58 | 70 - 125 | * |
| Decachlorobiphenyl | 36.7 | 26 | 70 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 36.7 | 39 | 106 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 1786200000 | 5.679 | 7.521E+08 | 5.707 | * |
| DBC [2C] | 380100000 | 5.65 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SB30-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-15 | File ID: | 2DE047.D |
| Sampled: | 04/07/15 12:20 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/10/15 18:22 |
| Solids: | 90.84 | Preparation: | EPA 3550C | Initial/Final: | 30.3 g / 10 mL |

Batch: 5D09001 Sequence: AA33388 Calibration: 1504047 Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 2 | <3.7 | UD | 1.2 | 3.7 | 3.7 |
| 58-89-9 | gamma-BHC | 2 | <3.7 | UD | 1.3 | 3.7 | 3.7 |
| 319-85-7 | beta-BHC | 2 | <3.7 | UD | 2.2 | 3.7 | 3.7 |
| 319-86-8 | delta-BHC | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 76-44-8 | Heptachlor | 2 | <3.7 | UD | 1.4 | 3.7 | 3.7 |
| 309-00-2 | Aldrin | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 1024-57-3 | Heptachlor epoxide | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 5566-34-7 | Chlordane-gamma | 2 | <3.7 | UD | 0.99 | 3.7 | 3.7 |
| 5103-71-9 | Chlordane-alpha | 2 | <3.7 | UD | 0.99 | 3.7 | 3.7 |
| 72-55-9 | 4,4'-DDE | 2 | <3.7 | UD | 1.4 | 3.7 | 3.7 |
| 959-98-8 | Endosulfan I | 2 | <3.7 | UD | 0.86 | 3.7 | 3.7 |
| 60-57-1 | Dieldrin | 2 | <3.7 | UD | 0.99 | 3.7 | 3.7 |
| 72-20-8 | Endrin | 2 | <3.7 | UD | 1.6 | 3.7 | 3.7 |
| 72-54-8 | 4,4'-DDD | 2 | <3.7 | UD | 1.5 | 3.7 | 3.7 |
| 33213-65-9 | Endosulfan II | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 50-29-3 | 4,4'-DDT | 2 | <3.7 | UD | 1.5 | 3.7 | 3.7 |
| 7421-93-4 | Endrin aldehyde | 2 | <3.7 | UD | 1.8 | 3.7 | 3.7 |
| 72-43-5 | Methoxychlor | 2 | <3.7 | UD | 1.9 | 3.7 | 3.7 |
| 1031-07-8 | Endosulfan sulfate | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 53494-70-5 | Endrin ketone | 2 | <3.7 | UD | 1.0 | 3.7 | 3.7 |
| 8001-35-2 | Toxaphene | 2 | <66 | UD | 37 | 66 | 73 |

UL - SSL

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 36.3 | 15 | 40 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 36.3 | 22 | 60 | 70 - 125 | * |
| Decachlorobiphenyl | 36.3 | 25 | 69 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 36.3 | 32 | 88 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 1444800000 | 5.713 | 7.521E+08 | 5.707 | |
| DBC [2C] | 362100000 | 5.683 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-SB30-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-15RE1 | File ID: | 2DW120.D |
| Sampled: | 04/07/15 12:20 | Prepared: | 04/11/15 09:15 | Analyzed: | 04/28/15 12:25 |
| Solids: | 90.84 | Preparation: | EPA 3550C | Initial/Final: | 30.1 g / 10 mL |

Batch: 5D11004 Sequence: AA33600 Calibration: 1504047 Instrument: OSVGCECD2

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC [2C] | 2 | <3.7 | UD | 1.2 | 3.7 | 3.7 |
| 58-89-9 | gamma-BHC [2C] | 2 | <3.7 | UD | 1.3 | 3.7 | 3.7 |
| 319-85-7 | beta-BHC [2C] | 2 | <3.7 | UD | 2.2 | 3.7 | 3.7 |
| 319-86-8 | delta-BHC [2C] | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 76-44-8 | Heptachlor [2C] | 2 | <3.7 | UD | 1.4 | 3.7 | 3.7 |
| 309-00-2 | Aldrin [2C] | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 1024-57-3 | Heptachlor epoxide [2C] | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 5566-34-7 | Chlordane-gamma [2C] | 2 | <3.7 | UD | 0.99 | 3.7 | 3.7 |
| 5103-71-9 | Chlordane-alpha [2C] | 2 | <3.7 | UD | 0.99 | 3.7 | 3.7 |
| 72-55-9 | 4,4'-DDE [2C] | 2 | <3.7 | UDQ | 1.4 | 3.7 | 3.7 |
| 959-98-8 | Endosulfan I [2C] | 2 | <3.7 | UD | 0.86 | 3.7 | 3.7 |
| 60-57-1 | Dieldrin [2C] | 2 | <3.7 | UD | 0.99 | 3.7 | 3.7 |
| 72-20-8 | Endrin [2C] | 2 | <3.7 | UD | 1.6 | 3.7 | 3.7 |
| 72-54-8 | 4,4'-DDD [2C] | 2 | <3.7 | UD | 1.5 | 3.7 | 3.7 |
| 33213-65-9 | Endosulfan II [2C] | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 50-29-3 | 4,4'-DDT [2C] | 2 | <3.7 | UDQ | 1.5 | 3.7 | 3.7 |
| 7421-93-4 | Endrin aldehyde [2C] | 2 | <3.7 | UD | 1.8 | 3.7 | 3.7 |
| 72-43-5 | Methoxychlor [2C] | 2 | <3.7 | UDQ | 1.9 | 3.7 | 3.7 |
| 1031-07-8 | Endosulfan sulfate [2C] | 2 | <3.7 | UD | 1.1 | 3.7 | 3.7 |
| 53494-70-5 | Endrin ketone [2C] | 2 | <3.7 | UD | 1.0 | 3.7 | 3.7 |
| 8001-35-2 | Toxaphene | 2 | <66 | UD | 37 | 66 | 73 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 36.6 | 14 | 38 | 70 - 125 | * |
| 2,4,5,6-TCMX [2C] | 36.6 | 21 | 58 | 70 - 125 | * |
| Decachlorobiphenyl | 36.6 | 22 | 60 | 55 - 130 | |
| Decachlorobiphenyl [2C] | 36.6 | 31 | 84 | 55 - 130 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 1582300000 | 5.678 | 7.521E+08 | 5.707 | * |
| DBC [2C] | 382200000 | 5.648 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8081B

YS25-EB040715-SO

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Water | Laboratory ID: | A502126-16 | File ID: | 2DW111.D |
| Sampled: | 04/07/15 14:00 | Prepared: | 04/10/15 06:00 | Analyzed: | 04/28/15 10:42 |
| Solids: | | Preparation: | EPA 3510C | Initial/Final: | 100 mL / 1 mL |

Batch: 5D10004 Sequence: AA33600 Calibration: 1504047 Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 319-84-6 | alpha-BHC | 1 | <0.050 | U | 0.018 | 0.050 | 0.10 |
| 58-89-9 | gamma-BHC | 1 | <0.050 | U | 0.014 | 0.050 | 0.10 |
| 319-85-7 | beta-BHC | 1 | <0.050 | U | 0.021 | 0.050 | 0.10 |
| 319-86-8 | delta-BHC | 1 | <0.050 | U | 0.016 | 0.050 | 0.10 |
| 76-44-8 | Heptachlor | 1 | <0.050 | U | 0.016 | 0.050 | 0.10 |
| 309-00-2 | Aldrin | 1 | <0.050 | U | 0.015 | 0.050 | 0.10 |
| 1024-57-3 | Heptachlor epoxide [2C] | 1 | <0.050 | U | 0.017 | 0.050 | 0.10 |
| 5566-34-7 | Chlordane-gamma | 1 | <0.050 | U | 0.013 | 0.050 | 0.10 |
| 5103-71-9 | Chlordane-alpha UL - BSL | 1 | <0.050 | ~~UQ~~ | 0.019 | 0.050 | 0.10 |
| 72-55-9 | 4,4'-DDE | 1 | <0.050 | U | 0.017 | 0.050 | 0.10 |
| 959-98-8 | Endosulfan I | 1 | <0.050 | U | 0.016 | 0.050 | 0.10 |
| 60-57-1 | Dieldrin | 1 | <0.050 | U | 0.013 | 0.050 | 0.10 |
| 72-20-8 | Endrin | 1 | <0.050 | U | 0.013 | 0.050 | 0.10 |
| 72-54-8 | 4,4'-DDD | 1 | <0.050 | U | 0.018 | 0.050 | 0.10 |
| 33213-65-9 | Endosulfan II | 1 | <0.050 | U | 0.012 | 0.050 | 0.10 |
| 50-29-3 | 4,4'-DDT | 1 | <0.050 | ~~UQ~~ | 0.025 | 0.050 | 0.10 |
| 7421-93-4 | Endrin aldehyde | 1 | <0.050 | U | 0.017 | 0.050 | 0.10 |
| 72-43-5 | Methoxychlor | 1 | <0.050 | ~~UQ~~ | 0.016 | 0.050 | 0.10 |
| 1031-07-8 | Endosulfan sulfate | 1 | <0.050 | U | 0.012 | 0.050 | 0.10 |
| 53494-70-5 | Endrin ketone | 1 | <0.050 | ~~UQ~~ | 0.017 | 0.050 | 0.10 |
| 8001-35-2 | Toxaphene | 1 | <0.50 | U | 0.48 | 0.50 | 1.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 1.00 | 0.58 | 58 | 25 - 140 | |
| 2,4,5,6-TCMX [2C] | 1.00 | 0.89 | 89 | 25 - 140 | |
| Decachlorobiphenyl | 1.00 | 0.37 | 37 | 30 - 135 | |
| Decachlorobiphenyl [2C] | 1.00 | 0.54 | 54 | 30 - 135 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| DBC | 1186600000 | 5.678 | 7.521E+08 | 5.707 | |
| DBC [2C] | 311000000 | 5.647 | 2.659E+08 | 5.676 | |

* Values outside of QC limits

HK 7/11/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SS13-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-01 | File ID: | 2DJ060.D |
| Sampled: | 04/07/15 09:25 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 18:31 |
| Solids: | 78.95 | Preparation: | EPA 3550C | Initial/Final: | 30.3 g / 10 mL |

Batch: 5D09002 Sequence: AA33427 Calibration: 1504063 Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <25 | U | 18 | 25 | 51 |
| 53469-21-9 | PCB-1242 | 1 | <25 | U | 19 | 25 | 51 |
| 11104-28-2 | PCB-1221 | 1 | <25 | U | 18 | 25 | 51 |
| 11141-16-5 | PCB-1232 | 1 | <25 | U | 18 | 25 | 51 |
| 12672-29-6 | PCB-1248 | 1 | <25 | U | 8.0 | 25 | 51 |
| 11097-69-1 | PCB-1254 | 1 | <25 | U | 20 | 25 | 51 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <25 | UQ | 14 | 25 | 51 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 41.8 | 41 | 99 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 41.8 | 42 | 101 | 20 - 137 | |
| Decachlorobiphenyl | 41.8 | 36 | 86 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 41.8 | 30 | 71 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SB13-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-02 | File ID: | 2DJ061.D |
| Sampled: | 04/07/15 09:35 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 18:42 |
| Solids: | 80.67 | Preparation: | EPA 3550C | Initial/Final: | 29.9 g / 10 mL |

Batch: 5D09002 Sequence: AA33427 Calibration: 1504063 Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <25 | U | 17 | 25 | 50 |
| 53469-21-9 | PCB-1242 | 1 | <25 | U | 19 | 25 | 50 |
| 11104-28-2 | PCB-1221 | 1 | <25 | U | 17 | 25 | 50 |
| 11141-16-5 | PCB-1232 | 1 | <25 | U | 17 | 25 | 50 |
| 12672-29-6 | PCB-1248 | 1 | <25 | U | 7.8 | 25 | 50 |
| 11097-69-1 | PCB-1254 | 1 | <25 | U | 20 | 25 | 50 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <25 | UQ | 14 | 25 | 50 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 41.5 | 24 | 57 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 41.5 | 30 | 72 | 20 - 137 | |
| Decachlorobiphenyl | 41.5 | 67 | 162 | 60 - 125 | * |
| Decachlorobiphenyl [2C] | 41.5 | 29 | 70 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SS20-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-03 | File ID: | 2DJ062.D |
| Sampled: | 04/07/15 10:00 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 18:53 |
| Solids: | 66.02 | Preparation: | EPA 3550C | Initial/Final: | 30.1 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <30 | U | 21 | 30 | 61 |
| 53469-21-9 | PCB-1242 | 1 | <30 | U | 23 | 30 | 61 |
| 11104-28-2 | PCB-1221 | 1 | <30 | U | 21 | 30 | 61 |
| 11141-16-5 | PCB-1232 | 1 | <30 | U | 21 | 30 | 61 |
| 12672-29-6 | PCB-1248 | 1 | <30 | U | 9.5 | 30 | 61 |
| 11097-69-1 | PCB-1254 | 1 | <30 | U | 24 | 30 | 61 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <30 | UQ | 17 | 30 | 61 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 50.3 | 54 | 108 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 50.3 | 45 | 89 | 20 - 137 | |
| Decachlorobiphenyl | 50.3 | 51 | 102 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 50.3 | 42 | 83 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SB20-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-04 | File ID: | 2DJ063.D |
| Sampled: | 04/07/15 10:10 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 19:04 |
| Solids: | 88.28 | Preparation: | EPA 3550C | Initial/Final: | 30.1 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <23 | U | 16 | 23 | 45 |
| 53469-21-9 | PCB-1242 | 1 | <23 | U | 17 | 23 | 45 |
| 11104-28-2 | PCB-1221 | 1 | <23 | U | 16 | 23 | 45 |
| 11141-16-5 | PCB-1232 | 1 | <23 | U | 16 | 23 | 45 |
| 12672-29-6 | PCB-1248 | 1 | <23 | U | 7.1 | 23 | 45 |
| 11097-69-1 | PCB-1254 | 1 | <23 | U | 18 | 23 | 45 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <23 | UQ | 12 | 23 | 45 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 37.6 | 34 | 91 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 37.6 | 42 | 111 | 20 - 137 | |
| Decachlorobiphenyl | 37.6 | 30 | 80 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 37.6 | 26 | 68 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SS21-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-05 | File ID: | 2DJ064.D |
| Sampled: | 04/07/15 10:30 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 19:16 |
| Solids: | 85.78 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <23 | U | 16 | 23 | 47 |
| 53469-21-9 | PCB-1242 | 1 | <23 | U | 17 | 23 | 47 |
| 11104-28-2 | PCB-1221 | 1 | <23 | U | 16 | 23 | 47 |
| 11141-16-5 | PCB-1232 | 1 | <23 | U | 16 | 23 | 47 |
| 12672-29-6 | PCB-1248 | 1 | <23 | U | 7.3 | 23 | 47 |
| 11097-69-1 | PCB-1254 | 1 | <23 | U | 19 | 23 | 47 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <23 | UQ | 13 | 23 | 47 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.9 | 39 | 101 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 38.9 | 47 | 122 | 20 - 137 | |
| Decachlorobiphenyl | 38.9 | 28 | 71 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 38.9 | 28 | 72 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SB21-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-06 | File ID: | 2DJ065.D |
| Sampled: | 04/07/15 10:40 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 19:27 |
| Solids: | 86.94 | Preparation: | EPA 3550C | Initial/Final: | 30.1 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <23 | U | 16 | 23 | 46 |
| 53469-21-9 | PCB-1242 | 1 | <23 | U | 17 | 23 | 46 |
| 11104-28-2 | PCB-1221 | 1 | <23 | U | 16 | 23 | 46 |
| 11141-16-5 | PCB-1232 | 1 | <23 | U | 16 | 23 | 46 |
| 12672-29-6 | PCB-1248 | 1 | <23 | U | 7.2 | 23 | 46 |
| 11097-69-1 | PCB-1254 | 1 | <23 | U | 18 | 23 | 46 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <23 | UQ | 13 | 23 | 46 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.2 | 30 | 80 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 38.2 | 35 | 92 | 20 - 137 | |
| Decachlorobiphenyl | 38.2 | 42 | 109 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 38.2 | 41 | 106 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SS27-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-07 | File ID: | 2DJ066.D |
| Sampled: | 04/07/15 12:40 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 19:38 |
| Solids: | 87.11 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <23 | U | 16 | 23 | 46 |
| 53469-21-9 | PCB-1242 | 1 | <23 | U | 17 | 23 | 46 |
| 11104-28-2 | PCB-1221 | 1 | <23 | U | 16 | 23 | 46 |
| 11141-16-5 | PCB-1232 | 1 | <23 | U | 16 | 23 | 46 |
| 12672-29-6 | PCB-1248 | 1 | <23 | U | 7.2 | 23 | 46 |
| 11097-69-1 | PCB-1254 | 1 | <23 | U | 18 | 23 | 46 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <23 | UQ | 13 | 23 | 46 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.3 | 26 | 67 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 38.3 | 33 | 87 | 20 - 137 | |
| Decachlorobiphenyl | 38.3 | 30 | 80 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 38.3 | 51 | 132 | 60 - 125 | * |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SB27-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-08 | File ID: | 2DJ067.D |
| Sampled: | 04/07/15 12:50 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 19:49 |
| Solids: | 85.89 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <23 | U | 16 | 23 | 47 |
| 53469-21-9 | PCB-1242 | 1 | <23 | U | 17 | 23 | 47 |
| 11104-28-2 | PCB-1221 | 1 | <23 | U | 16 | 23 | 47 |
| 11141-16-5 | PCB-1232 | 1 | <23 | U | 16 | 23 | 47 |
| 12672-29-6 | PCB-1248 | 1 | <23 | U | 7.3 | 23 | 47 |
| 11097-69-1 | PCB-1254 | 1 | <23 | U | 19 | 23 | 47 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <23 | UQ | 13 | 23 | 47 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 38.8 | 37 | 94 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 38.8 | 45 | 117 | 20 - 137 | |
| Decachlorobiphenyl | 38.8 | 37 | 94 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 38.8 | 34 | 87 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SS28-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-09 | File ID: | 2DJ068.D |
| Sampled: | 04/07/15 13:30 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 20:01 |
| Solids: | 81.26 | Preparation: | EPA 3550C | Initial/Final: | 29.8 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <25 | U | 17 | 25 | 49 |
| 53469-21-9 | PCB-1242 | 1 | <25 | U | 18 | 25 | 49 |
| 11104-28-2 | PCB-1221 | 1 | <25 | U | 17 | 25 | 49 |
| 11141-16-5 | PCB-1232 | 1 | <25 | U | 17 | 25 | 49 |
| 12672-29-6 | PCB-1248 | 1 | <25 | U | 7.8 | 25 | 49 |
| 11097-69-1 | PCB-1254 | 1 | <25 | U | 20 | 25 | 49 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <25 | UQ | 14 | 25 | 49 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 41.3 | 30 | 72 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 41.3 | 38 | 92 | 20 - 137 | |
| Decachlorobiphenyl | 41.3 | 40 | 96 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 41.3 | 39 | 94 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SB28-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10 | File ID: | 2DJ071.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 20:35 |
| Solids: | 86.93 | Preparation: | EPA 3550C | Initial/Final: | 30.4 g / 10 mL |

Batch: 5D09002 Sequence: AA33427 Calibration: 1504063 Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <23 | U | 16 | 23 | 46 |
| 53469-21-9 | PCB-1242 | 1 | <23 | U | 17 | 23 | 46 |
| 11104-28-2 | PCB-1221 | 1 | <23 | U | 16 | 23 | 46 |
| 11141-16-5 | PCB-1232 | 1 | <23 | U | 16 | 23 | 46 |
| 12672-29-6 | PCB-1248 | 1 | <23 | U | 7.2 | 23 | 46 |
| 11097-69-1 | PCB-1254 | 1 | <23 | U | 18 | 23 | 46 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <23 | UQ | 13 | 23 | 46 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 37.8 | 27 | 72 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 37.8 | 33 | 88 | 20 - 137 | |
| Decachlorobiphenyl | 37.8 | 30 | 78 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 37.8 | 29 | 76 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SS29-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-12 | File ID: | 2DJ072.D |
| Sampled: | 04/07/15 11:10 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 20:46 |
| Solids: | 76.57 | Preparation: | EPA 3550C | Initial/Final: | 30.2 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <26 | U | 18 | 26 | 52 |
| 53469-21-9 | PCB-1242 | 1 | <26 | U | 20 | 26 | 52 |
| 11104-28-2 | PCB-1221 | 1 | <26 | U | 18 | 26 | 52 |
| 11141-16-5 | PCB-1232 | 1 | <26 | U | 18 | 26 | 52 |
| 12672-29-6 | PCB-1248 | 1 | <26 | U | 8.2 | 26 | 52 |
| 11097-69-1 | PCB-1254 | 1 | <26 | U | 21 | 26 | 52 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <26 | UQ | 14 | 26 | 52 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 43.2 | 40 | 92 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 43.2 | 50 | 116 | 20 - 137 | |
| Decachlorobiphenyl | 43.2 | 41 | 96 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 43.2 | 42 | 97 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-SB29-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-13 | File ID: | 2DJ073.D |
| Sampled: | 04/07/15 11:20 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 20:57 |
| Solids: | 78.66 | Preparation: | EPA 3550C | Initial/Final: | 30 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <25 | U | 18 | 25 | 51 |
| 53469-21-9 | PCB-1242 | 1 | <25 | U | 19 | 25 | 51 |
| 11104-28-2 | PCB-1221 | 1 | <25 | U | 18 | 25 | 51 |
| 11141-16-5 | PCB-1232 | 1 | <25 | U | 18 | 25 | 51 |
| 12672-29-6 | PCB-1248 | 1 | <25 | U | 8.0 | 25 | 51 |
| 11097-69-1 | PCB-1254 | 1 | <25 | U | 20 | 25 | 51 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <25 | UQ | 14 | 25 | 51 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 42.4 | 29 | 68 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 42.4 | 38 | 91 | 20 - 137 | |
| Decachlorobiphenyl | 42.4 | 35 | 83 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 42.4 | 33 | 77 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

**YS25-SS30-0415**

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-14
File ID: 2DJ074.D
Sampled: 04/07/15 12:10
Prepared: 04/09/15 05:15
Analyzed: 04/15/15 21:09
Solids: 90.48
Preparation: EPA 3550C
Initial/Final: 30.3 g / 10 mL
Batch: 5D09002
Sequence: AA33427
Calibration: 1504063
Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <22 | U | 15 | 22 | 44 |
| 53469-21-9 | PCB-1242 | 1 | <22 | U | 17 | 22 | 44 |
| 11104-28-2 | PCB-1221 | 1 | <22 | U | 15 | 22 | 44 |
| 11141-16-5 | PCB-1232 | 1 | <22 | U | 15 | 22 | 44 |
| 12672-29-6 | PCB-1248 | 1 | <22 | U | 7.0 | 22 | 44 |
| 11097-69-1 | PCB-1254 | 1 | <22 | U | 18 | 22 | 44 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <22 | UQ | 12 | 22 | 44 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 36.5 | 26 | 72 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 36.5 | 29 | 81 | 20 - 137 | |
| Decachlorobiphenyl | 36.5 | 35 | 96 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 36.5 | 42 | 116 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

**YS25-SB30-0H02-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-15 | File ID: | 2DJ075.D |
| Sampled: | 04/07/15 12:20 | Prepared: | 04/09/15 05:15 | Analyzed: | 04/15/15 21:20 |
| Solids: | 90.84 | Preparation: | EPA 3550C | Initial/Final: | 30.3 g / 10 mL |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Batch: | 5D09002 | Sequence: | AA33427 | Calibration: | 1504063 | Instrument: | OSVGCECD2 |

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <22 | U | 15 | 22 | 44 |
| 53469-21-9 | PCB-1242 | 1 | <22 | U | 17 | 22 | 44 |
| 11104-28-2 | PCB-1221 | 1 | <22 | U | 15 | 22 | 44 |
| 11141-16-5 | PCB-1232 | 1 | <22 | U | 15 | 22 | 44 |
| 12672-29-6 | PCB-1248 | 1 | <22 | U | 6.9 | 22 | 44 |
| 11097-69-1 | PCB-1254 | 1 | <22 | U | 18 | 22 | 44 |
| 11096-82-5 | PCB-1260 [2C] | 1 | <22 | UQ | 12 | 22 | 44 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 36.3 | 24 | 67 | 20 - 137 | |
| 2,4,5,6-TCMX [2C] | 36.3 | 28 | 77 | 20 - 137 | |
| Decachlorobiphenyl | 36.3 | 32 | 89 | 60 - 125 | |
| Decachlorobiphenyl [2C] | 36.3 | 33 | 92 | 60 - 125 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8082A

YS25-EB040715-SO

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Water | Laboratory ID: | A502126-16 | File ID: | 2DJ054.D |
| Sampled: | 04/07/15 14:00 | Prepared: | 04/10/15 06:00 | Analyzed: | 04/15/15 17:23 |
| Solids: | | Preparation: | EPA 3510C | Initial/Final: | 100 mL / 1 mL |

Batch: 5D10005 Sequence: AA33427 Calibration: 1504063 Instrument: OSVGCECD2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 12674-11-2 | PCB-1016 | 1 | <1.0 | U | 0.32 | 1.0 | 1.0 |
| 53469-21-9 | PCB-1242 | 1 | <1.0 | U | 0.49 | 1.0 | 1.0 |
| 11104-28-2 | PCB-1221 | 1 | <1.0 | U | 0.46 | 1.0 | 1.0 |
| 11141-16-5 | PCB-1232 | 1 | <1.0 | U | 0.47 | 1.0 | 1.0 |
| 12672-29-6 | PCB-1248 | 1 | <1.0 | U | 0.49 | 1.0 | 1.0 |
| 11097-69-1 | PCB-1254 | 1 | <1.0 | U | 0.50 | 1.0 | 1.0 |
| 11096-82-5 | PCB-1260 | 1 | <1.0 | U | 0.48 | 1.0 | 1.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| 2,4,5,6-TCMX | 1.00 | 0.90 | 90 | 38 - 142 | |
| 2,4,5,6-TCMX [2C] | 1.00 | 1.1 | 113 | 38 - 142 | |
| Decachlorobiphenyl | 1.00 | 0.56 | 56 | 40 - 135 | |
| Decachlorobiphenyl [2C] | 1.00 | 0.60 | 60 | 40 - 135 | |

* Values outside of QC limits

HK 7/12/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS13-0415

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil | Laboratory ID: A502126-01 | File ID: 5DH007.D

Sampled: 04/07/15 09:25 | Prepared: 04/13/15 00:00 | Analyzed: 04/13/15 10:31

Solids: 78.95 | Preparation: EPA 5030B_MS | Initial/Final: 5.02 g / 5 mL

Batch: 5D13017 | Sequence: AA33410 | Calibration: 1503091 | Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 100 | <250 | UDQ | 79 | 250 | 630 |
| 74-87-3 | Chloromethane | | 100 | <250 | UDQ | 82 | 250 | 630 |
| 75-01-4 | Vinyl chloride | | 100 | <250 | UDQ | 56 | 250 | 630 |
| 74-83-9 | Bromomethane | | 100 | <250 | UDQ | 110 | 250 | 630 |
| 75-00-3 | Chloroethane | UJ - ICB | 100 | <250 | ~~UDQ~~ | 68 | 250 | 630 |
| 75-69-4 | Trichlorofluoromethane | | 100 | <250 | UDQ | 68 | 250 | 630 |
| 76-13-1 | Freon 113 | | 100 | <250 | UDQ | 76 | 250 | 630 |
| 67-64-1 | Acetone | J - ICB | 100 | 1100 | ~~JDQ~~ | 480 | 1600 | 3200 |
| 75-35-4 | 1,1-Dichloroethene | | 100 | <250 | UDQ | 79 | 250 | 630 |
| 75-15-0 | Carbon disulfide | | 100 | <1300 | UDQ | 270 | 1300 | 3200 |
| 75-09-2 | Methylene Chloride | | 100 | <630 | UDQ | 99 | 630 | 3200 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 100 | <250 | UDQ | 34 | 250 | 630 |
| 156-60-5 | trans-1,2-Dichloroethene | | 100 | <250 | UDQ | 87 | 250 | 630 |
| 156-59-2 | cis-1,2-Dichloroethene | | 100 | <250 | UDQ | 67 | 250 | 630 |
| 75-34-3 | 1,1-Dichloroethane | | 100 | <250 | UDQ | 72 | 250 | 630 |
| 78-93-3 | 2-Butanone | UJ - ICL | 100 | <1300 | ~~UDQ~~ | 250 | 1300 | 3200 |
| 67-66-3 | Chloroform | | 100 | <250 | UDQ | 54 | 250 | 630 |
| 74-97-5 | Bromochloromethane | | 100 | <250 | UDQ | 95 | 250 | 630 |
| 71-55-6 | 1,1,1-Trichloroethane | | 100 | <250 | UDQ | 44 | 250 | 630 |
| 79-20-9 | Methyl acetate | UJ - 2S | 100 | <250 | ~~UDQ~~ | 200 | 250 | 630 |
| 110-82-7 | Cyclohexane | | 100 | <250 | UDQ | 67 | 250 | 630 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 100 | <250 | ~~UDQ~~ | 66 | 250 | 630 |
| 56-23-5 | Carbon Tetrachloride | | 100 | <250 | UDQ | 76 | 250 | 630 |
| 107-06-2 | 1,2-Dichloroethane | | 100 | <250 | UDQ | 67 | 250 | 630 |
| 71-43-2 | Benzene | | 100 | <250 | UDQ | 51 | 250 | 630 |
| 79-01-6 | Trichloroethene | | 100 | <250 | UDQ | 63 | 250 | 630 |
| 78-87-5 | 1,2-Dichloropropane | | 100 | <250 | UDQ | 70 | 250 | 630 |
| 75-27-4 | Bromodichloromethane | | 100 | <250 | UDQ | 60 | 250 | 630 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 100 | <1300 | ~~UDQ~~ | 460 | 1300 | 3200 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 100 | <1300 | ~~UDQ~~ | 430 | 1300 | 3200 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 100 | <250 | ~~UDQ~~ | 53 | 250 | 630 |
| 108-88-3 | Toluene | | 100 | <250 | UDQ | 58 | 250 | 630 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 100 | <250 | ~~UDQ~~ | 54 | 250 | 630 |
| 79-00-5 | 1,1,2-Trichloroethane | | 100 | <250 | UDQ | 76 | 250 | 630 |

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# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS13-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-01 | File ID: | 5DH007.D |
| Sampled: | 04/07/15 09:25 | Prepared: | 04/13/15 00:00 | Analyzed: | 04/13/15 10:31 |
| Solids: | 78.95 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.02 g / 5 mL |

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 100 | <250 | UDQ | 62 | 250 | 630 |
| 124-48-1 | Dibromochloromethane | 100 | <250 | UDQ | 66 | 250 | 630 |
| 106-93-4 | 1,2-Dibromoethane | 100 | <250 | UDQ | 85 | 250 | 630 |
| 108-90-7 | Chlorobenzene | 100 | <250 | UDQ | 61 | 250 | 630 |
| 100-41-4 | Ethylbenzene | 100 | <250 | UDQ | 71 | 250 | 630 |
| 108-38-3/106-42-3 | m,p-Xylenes | 100 | <510 | UDQ | 130 | 510 | 1300 |
| 95-47-6 | o-Xylene | 100 | <250 | UDQ | 66 | 250 | 630 |
| 75-25-2 | Bromoform | 100 | <250 | UDQ | 65 | 250 | 630 |
| 100-42-5 | Styrene | 100 | <250 | UDQ | 56 | 250 | 630 |
| 98-82-8 | Isopropylbenzene | 100 | <250 | UDQ | 68 | 250 | 630 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | 430 | JDQ | 58 | 250 | 630 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 100 | <250 | UDQ | 110 | 250 | 630 |
| 541-73-1 | 1,3-Dichlorobenzene | 100 | <250 | UDQ | 60 | 250 | 630 |
| 106-46-7 | 1,4-Dichlorobenzene | 100 | <250 | UDQ | 57 | 250 | 630 |
| 95-50-1 | 1,2-Dichlorobenzene | 100 | <250 | UDQ | 56 | 250 | 630 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 100 | <250 | UDQ | 110 | 250 | 630 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 100 | <250 | UDQ | 120 | 250 | 630 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 63.1 | 68 | 108 | 74 - 133 | |
| Toluene-d8 | 63.1 | 63 | 100 | 85 - 115 | |
| 4-Bromofluorobenzene | 63.1 | 62 | 99 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 637597 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1194969 | 12.173 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1190896 | 15.607 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 691859 | 18.574 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB13-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-02 | File ID: | 5DH008.D |
| Sampled: | 04/07/15 09:35 | Prepared: | 04/13/15 00:00 | Analyzed: | 04/13/15 11:02 |
| Solids: | 80.67 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.37 g / 5 mL |

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 100 | <250 | UDQ | 77 | 250 | 620 |
| 74-87-3 | Chloromethane | | 100 | <250 | UDQ | 81 | 250 | 620 |
| 75-01-4 | Vinyl chloride | | 100 | <250 | UDQ | 55 | 250 | 620 |
| 74-83-9 | Bromomethane | | 100 | <250 | UDQ | 110 | 250 | 620 |
| 75-00-3 | Chloroethane | UJ - ICB | 100 | <250 | ~~UDQ~~ | 67 | 250 | 620 |
| 75-69-4 | Trichlorofluoromethane | | 100 | <250 | UDQ | 67 | 250 | 620 |
| 76-13-1 | Freon 113 | | 100 | <250 | UDQ | 74 | 250 | 620 |
| 67-64-1 | Acetone | J - ICB | 100 | 510 | ~~JDQ~~ | 470 | 1500 | 3100 |
| 75-35-4 | 1,1-Dichloroethene | | 100 | <250 | UDQ | 77 | 250 | 620 |
| 75-15-0 | Carbon disulfide | | 100 | <1200 | UDQ | 260 | 1200 | 3100 |
| 75-09-2 | Methylene Chloride | | 100 | <620 | UDQ | 97 | 620 | 3100 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 100 | <250 | UDQ | 33 | 250 | 620 |
| 156-60-5 | trans-1,2-Dichloroethene | | 100 | <250 | UDQ | 86 | 250 | 620 |
| 156-59-2 | cis-1,2-Dichloroethene | | 100 | <250 | UDQ | 66 | 250 | 620 |
| 75-34-3 | 1,1-Dichloroethane | | 100 | <250 | UDQ | 71 | 250 | 620 |
| 78-93-3 | 2-Butanone | UJ - ICL | 100 | <1200 | ~~UDQ~~ | 250 | 1200 | 3100 |
| 67-66-3 | Chloroform | | 100 | <250 | UDQ | 53 | 250 | 620 |
| 74-97-5 | Bromochloromethane | | 100 | <250 | UDQ | 93 | 250 | 620 |
| 71-55-6 | 1,1,1-Trichloroethane | | 100 | <250 | UDQ | 43 | 250 | 620 |
| 79-20-9 | Methyl acetate | UJ - 2S | 100 | <250 | ~~UDQ~~ | 200 | 250 | 620 |
| 110-82-7 | Cyclohexane | | 100 | <250 | UDQ | 66 | 250 | 620 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 100 | <250 | ~~UDQ~~ | 64 | 250 | 620 |
| 56-23-5 | Carbon Tetrachloride | | 100 | <250 | UDQ | 74 | 250 | 620 |
| 107-06-2 | 1,2-Dichloroethane | | 100 | <250 | UDQ | 66 | 250 | 620 |
| 71-43-2 | Benzene | | 100 | <250 | UDQ | 50 | 250 | 620 |
| 79-01-6 | Trichloroethene | | 100 | <250 | UDQ | 62 | 250 | 620 |
| 78-87-5 | 1,2-Dichloropropane | | 100 | <250 | UDQ | 68 | 250 | 620 |
| 75-27-4 | Bromodichloromethane | | 100 | <250 | UDQ | 58 | 250 | 620 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 100 | <1200 | ~~UDQ~~ | 450 | 1200 | 3100 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 100 | <1200 | ~~UDQ~~ | 420 | 1200 | 3100 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 100 | <250 | ~~UDQ~~ | 52 | 250 | 620 |
| 108-88-3 | Toluene | | 100 | <250 | UDQ | 57 | 250 | 620 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 100 | <250 | ~~UDQ~~ | 53 | 250 | 620 |
| 79-00-5 | 1,1,2-Trichloroethane | | 100 | <250 | UDQ | 74 | 250 | 620 |

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# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB13-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-02 | File ID: | 5DH008.D |
| Sampled: | 04/07/15 09:35 | Prepared: | 04/13/15 00:00 | Analyzed: | 04/13/15 11:02 |
| Solids: | 80.67 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.37 g / 5 mL |

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 100 | <250 | UDQ | 61 | 250 | 620 |
| 124-48-1 | Dibromochloromethane | 100 | <250 | UDQ | 64 | 250 | 620 |
| 106-93-4 | 1,2-Dibromoethane | 100 | <250 | UDQ | 83 | 250 | 620 |
| 108-90-7 | Chlorobenzene | 100 | <250 | UDQ | 60 | 250 | 620 |
| 100-41-4 | Ethylbenzene | 100 | <250 | UDQ | 69 | 250 | 620 |
| 108-38-3/106-42-3 | m,p-Xylenes | 100 | <500 | UDQ | 120 | 500 | 1200 |
| 95-47-6 | o-Xylene | 100 | <250 | UDQ | 64 | 250 | 620 |
| 75-25-2 | Bromoform | 100 | <250 | UDQ | 63 | 250 | 620 |
| 100-42-5 | Styrene | 100 | <250 | UDQ | 55 | 250 | 620 |
| 98-82-8 | Isopropylbenzene | 100 | <250 | UDQ | 67 | 250 | 620 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | <250 | UDQ | 57 | 250 | 620 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 100 | <250 | UDQ | 110 | 250 | 620 |
| 541-73-1 | 1,3-Dichlorobenzene | 100 | <250 | UDQ | 58 | 250 | 620 |
| 106-46-7 | 1,4-Dichlorobenzene | 100 | <250 | UDQ | 56 | 250 | 620 |
| 95-50-1 | 1,2-Dichlorobenzene | 100 | <250 | UDQ | 55 | 250 | 620 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 100 | <250 | UDQ | 110 | 250 | 620 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 100 | <250 | UDQ | 110 | 250 | 620 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 57.7 | 61 | 105 | 74 - 133 | |
| Toluene-d8 | 57.7 | 57 | 99 | 85 - 115 | |
| 4-Bromofluorobenzene | 57.7 | 66 | 114 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 691244 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1281140 | 12.172 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1273469 | 15.607 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 940658 | 18.573 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS20-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-03 | File ID: | 5DE014.D |
| Sampled: | 04/07/15 10:00 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 14:18 |
| Solids: | 66.02 | Preparation: | EPA 5030B_MS | Initial/Final: | 4.92 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | UL - SSL | 1 | <3.0 | UQ | 0.9 | 3.0 | 7.6 |
| 74-87-3 | Chloromethane | | 1 | <3.0 | U | 1.0 | 3.0 | 7.6 |
| 75-01-4 | Vinyl chloride | | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 74-83-9 | Bromomethane | | 1 | <3.0 | U | 1.4 | 3.0 | 7.6 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <3.0 | ~~UQ~~ | 0.8 | 3.0 | 7.6 |
| 75-69-4 | Trichlorofluoromethane | UL - SSL | 1 | <3.0 | UQ | 0.8 | 3.0 | 7.6 |
| 76-13-1 | Freon 113 | UL - SSL | 1 | <3.0 | UQ | 0.9 | 3.0 | 7.6 |
| 67-64-1 | Acetone | J - ICB | 1 | 34 | ~~JQ~~ | 5.8 | 19 | 38 |
| 75-35-4 | 1,1-Dichloroethene | UL - SSL | 1 | <3.0 | U | 0.9 | 3.0 | 7.6 |
| 75-15-0 | Carbon disulfide | | 1 | <15 | UQ | 3.2 | 15 | 38 |
| 75-09-2 | Methylene Chloride | | 1 | <7.6 | UQ | 1.2 | 7.6 | 38 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <3.0 | U | 0.4 | 3.0 | 7.6 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <3.0 | U | 1.0 | 3.0 | 7.6 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <3.0 | U | 0.9 | 3.0 | 7.6 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <15 | ~~U~~ | 3.0 | 15 | 38 |
| 67-66-3 | Chloroform | UL - SSL | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 74-97-5 | Bromochloromethane | | 1 | <3.0 | U | 1.1 | 3.0 | 7.6 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <3.0 | UQ | 0.5 | 3.0 | 7.6 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <3.0 | ~~U~~ | 2.4 | 3.0 | 7.6 |
| 110-82-7 | Cyclohexane | UL - SSL | 1 | <3.0 | UQ | 0.8 | 3.0 | 7.6 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <3.0 | ~~UQ~~ | 0.8 | 3.0 | 7.6 |
| 56-23-5 | Carbon Tetrachloride | UL - SSL | 1 | <3.0 | UQ | 0.9 | 3.0 | 7.6 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 71-43-2 | Benzene | | 1 | <3.0 | U | 0.6 | 3.0 | 7.6 |
| 79-01-6 | Trichloroethene | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 75-27-4 | Bromodichloromethane | | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <15 | ~~U~~ | 5.5 | 15 | 38 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <15 | ~~U~~ | 5.2 | 15 | 38 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <3.0 | ~~U~~ | 0.6 | 3.0 | 7.6 |
| 108-88-3 | Toluene | UL - SSL | 1 | <3.0 | ~~U~~ | 0.7 | 3.0 | 7.6 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <3.0 | ~~U~~ | 0.7 | 3.0 | 7.6 |
| 79-00-5 | 1,1,2-Trichloroethane | UL - SSL | 1 | <3.0 | ~~U~~ | 0.9 | 3.0 | 7.6 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS20-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-03 | File ID: | 5DE014.D |
| Sampled: | 04/07/15 10:00 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 14:18 |
| Solids: | 66.02 | Preparation: | EPA 5030B_MS | Initial/Final: | 4.92 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | UL - SSL | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 124-48-1 | Dibromochloromethane | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 106-93-4 | 1,2-Dibromoethane | | 1 | <3.0 | U | 1.0 | 3.0 | 7.6 |
| 108-90-7 | Chlorobenzene | | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 100-41-4 | Ethylbenzene | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 108-38-3/106-42-3 | m,p-Xylenes | | 1 | <6.1 | UQ | 1.5 | 6.1 | 15 |
| 95-47-6 | o-Xylene | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 75-25-2 | Bromoform | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 100-42-5 | Styrene | | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 98-82-8 | Isopropylbenzene | | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 120-82-1 | 1,2,4-Trichlorobenzene | UJ - ISL | 1 | <3.0 | U | 1.3 | 3.0 | 7.6 |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 1 | <3.0 | U | 1.3 | 3.0 | 7.6 |
| 87-61-6 | 1,2,3-Trichlorobenzene | | 1 | <3.0 | U | 1.4 | 3.0 | 7.6 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 77.0 | 72 | 94 | 74 - 133 | |
| Toluene-d8 | 77.0 | 65 | 84 | 85 - 115 | * |
| 4-Bromofluorobenzene | 77.0 | 44 | 57 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 670369 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1124209 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 803770 | 15.607 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 216359 | 18.582 | 548927 | 18.606 | * |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS20-0415

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil | Laboratory ID: A502126-03RE1 | File ID: 5DK012.D

Sampled: 04/07/15 10:00 | Prepared: 04/16/15 00:00 | Analyzed: 04/16/15 13:35

Solids: 66.02 | Preparation: EPA 5030B_MS | Initial/Final: 5.32 g / 5 mL

Batch: 5D16007 | Sequence: AA33466 | Calibration: 1503091 | Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <3.0 | U | 0.9 | 3.0 | 7.6 |
| 74-87-3 | Chloromethane | 1 | <3.0 | U | 1.0 | 3.0 | 7.6 |
| 75-01-4 | Vinyl chloride | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 74-83-9 | Bromomethane | 1 | <3.0 | U | 1.4 | 3.0 | 7.6 |
| 75-00-3 | Chloroethane | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 75-69-4 | Trichlorofluoromethane | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 76-13-1 | Freon 113 | 1 | <3.0 | U | 0.9 | 3.0 | 7.6 |
| 67-64-1 | Acetone | 1 | 51 | Q | 5.8 | 19 | 38 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <3.0 | U | 0.9 | 3.0 | 7.6 |
| 75-15-0 | Carbon disulfide | 1 | <15 | U | 3.2 | 15 | 38 |
| 75-09-2 | Methylene Chloride | 1 | 14 | JBQ | 1.2 | 7.6 | 38 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <3.0 | U | 0.4 | 3.0 | 7.6 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <3.0 | U | 1.0 | 3.0 | 7.6 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <3.0 | U | 0.9 | 3.0 | 7.6 |
| 78-93-3 | 2-Butanone | 1 | <15 | U | 3.0 | 15 | 38 |
| 67-66-3 | Chloroform | 1 | <3.0 | UQ | 0.7 | 3.0 | 7.6 |
| 74-97-5 | Bromochloromethane | 1 | <3.0 | U | 1.1 | 3.0 | 7.6 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <3.0 | U | 0.5 | 3.0 | 7.6 |
| 79-20-9 | Methyl acetate | 1 | <3.0 | U | 2.4 | 3.0 | 7.6 |
| 110-82-7 | Cyclohexane | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 108-87-2 | Methyl cyclohexane | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 56-23-5 | Carbon Tetrachloride | 1 | <3.0 | U | 0.9 | 3.0 | 7.6 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 71-43-2 | Benzene | 1 | <3.0 | U | 0.6 | 3.0 | 7.6 |
| 79-01-6 | Trichloroethene | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 75-27-4 | Bromodichloromethane | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <15 | U | 5.5 | 15 | 38 |
| 591-78-6 | 2-Hexanone | 1 | <15 | U | 5.2 | 15 | 38 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <3.0 | U | 0.6 | 3.0 | 7.6 |
| 108-88-3 | Toluene | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <3.0 | U | 0.9 | 3.0 | 7.6 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS20-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-03RE1 | File ID: | 5DK012.D |
| Sampled: | 04/07/15 10:00 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 13:35 |
| Solids: | 66.02 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.32 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene Exclude - RE | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 124-48-1 | Dibromochloromethane | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <3.0 | U | 1.0 | 3.0 | 7.6 |
| 108-90-7 | Chlorobenzene | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 100-41-4 | Ethylbenzene | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <6.1 | U | 1.5 | 6.1 | 15 |
| 95-47-6 | o-Xylene | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 75-25-2 | Bromoform | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 100-42-5 | Styrene | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 98-82-8 | Isopropylbenzene | 1 | <3.0 | U | 0.8 | 3.0 | 7.6 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <3.0 | U | 1.3 | 3.0 | 7.6 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <3.0 | U | 0.7 | 3.0 | 7.6 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <3.0 | U | 1.3 | 3.0 | 7.6 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <3.0 | U | 1.4 | 3.0 | 7.6 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 71.2 | 71 | 100 | 74 - 133 | |
| Toluene-d8 | 71.2 | 55 | 78 | 85 - 115 | * |
| 4-Bromofluorobenzene | 71.2 | 35 | 49 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 482077 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 899224 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 665494 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 167758 | 18.582 | 548927 | 18.606 | * |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB20-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-04
File ID: 5DE015.D
Sampled: 04/07/15 10:10
Prepared: 04/10/15 00:00
Analyzed: 04/10/15 14:48
Solids: 88.28
Preparation: EPA 5030B_MS
Initial/Final: 5.33 g / 5 mL
Batch: 5D10006
Sequence: AA33391
Calibration: 1503091
Instrument: OVGCMS5

Exclude - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.7 |
| 74-87-3 | Chloromethane | 1 | <2.3 | U | 0.7 | 2.3 | 5.7 |
| 75-01-4 | Vinyl chloride | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 74-83-9 | Bromomethane | 1 | <2.3 | U | 1.0 | 2.3 | 5.7 |
| 75-00-3 | Chloroethane | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.7 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.7 |
| 76-13-1 | Freon 113 | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.7 |
| 67-64-1 | Acetone | 1 | 5.1 | JQ | 4.3 | 14 | 28 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.3 | U | 0.7 | 2.3 | 5.7 |
| 75-15-0 | Carbon disulfide | 1 | <11 | UQ | 2.4 | 11 | 28 |
| 75-09-2 | Methylene Chloride | 1 | <5.7 | UQ | 0.9 | 5.7 | 28 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.3 | U | 0.3 | 2.3 | 5.7 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.3 | U | 0.8 | 2.3 | 5.7 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 78-93-3 | 2-Butanone | 1 | <11 | U | 2.3 | 11 | 28 |
| 67-66-3 | Chloroform | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 74-97-5 | Bromochloromethane | 1 | <2.3 | U | 0.8 | 2.3 | 5.7 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.3 | UQ | 0.4 | 2.3 | 5.7 |
| 79-20-9 | Methyl acetate | 1 | <2.3 | U | 1.8 | 2.3 | 5.7 |
| 110-82-7 | Cyclohexane | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.7 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.7 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.7 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 71-43-2 | Benzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 79-01-6 | Trichloroethene | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 75-27-4 | Bromodichloromethane | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <11 | U | 4.1 | 11 | 28 |
| 591-78-6 | 2-Hexanone | 1 | <11 | U | 3.9 | 11 | 28 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 108-88-3 | Toluene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.3 | U | 0.7 | 2.3 | 5.7 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB20-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-04 | File ID: | 5DE015.D |
| Sampled: | 04/07/15 10:10 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 14:48 |
| Solids: | 88.28 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.33 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

Exclude - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 124-48-1 | Dibromochloromethane | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.3 | U | 0.8 | 2.3 | 5.7 |
| 108-90-7 | Chlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 100-41-4 | Ethylbenzene | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.5 | UQ | 1.1 | 4.5 | 11 |
| 95-47-6 | o-Xylene | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 75-25-2 | Bromoform | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 100-42-5 | Styrene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 98-82-8 | Isopropylbenzene | 1 | <2.3 | U | 0.6 | 2.3 | 5.7 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.3 | U | 1.0 | 2.3 | 5.7 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.7 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.3 | U | 1.0 | 2.3 | 5.7 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.3 | U | 1.0 | 2.3 | 5.7 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 53.1 | 50 | 95 | 74 - 133 | |
| Toluene-d8 | 53.1 | 49 | 92 | 85 - 115 | |
| 4-Bromofluorobenzene | 53.1 | 42 | 79 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 739548 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1296096 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1270908 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 606155 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB20-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-04RE1 | File ID: | 5DK013.D |
| Sampled: | 04/07/15 10:10 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 14:06 |
| Solids: | 88.28 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.07 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.7 |
| 74-87-3 | Chloromethane | | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 |
| 75-01-4 | Vinyl chloride | | 1 | <1.9 | UQ | 0.4 | 1.9 | 4.7 |
| 74-83-9 | Bromomethane | | 1 | <1.9 | UQ | 0.8 | 1.9 | 4.7 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.9 | ~~UQ~~ | 0.5 | 1.9 | 4.7 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.7 |
| 76-13-1 | Freon 113 | | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.7 |
| 67-64-1 | Acetone | J - ICB | 1 | 6.1 | ~~JQ~~ | 3.5 | 12 | 23 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.7 |
| 75-15-0 | Carbon disulfide | | 1 | <9.3 | UQ | 2.0 | 9.3 | 23 |
| 75-09-2 | Methylene Chloride | B - MBL | 1 | 26 | ~~BQ~~ | 0.7 | 4.7 | 23 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.9 | U | 0.3 | 1.9 | 4.7 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.7 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.7 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.7 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <9.3 | ~~U~~ | 1.9 | 9.3 | 23 |
| 67-66-3 | Chloroform | | 1 | <1.9 | UQ | 0.4 | 1.9 | 4.7 |
| 74-97-5 | Bromochloromethane | | 1 | <1.9 | UQ | 0.7 | 1.9 | 4.7 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.9 | UQ | 0.3 | 1.9 | 4.7 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.9 | ~~UQ~~ | 1.5 | 1.9 | 4.7 |
| 110-82-7 | Cyclohexane | | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.7 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.9 | ~~UQ~~ | 0.5 | 1.9 | 4.7 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.7 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 71-43-2 | Benzene | | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 79-01-6 | Trichloroethene | | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <9.3 | ~~U~~ | 3.4 | 9.3 | 23 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <9.3 | ~~U~~ | 3.2 | 9.3 | 23 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.9 | ~~U~~ | 0.4 | 1.9 | 4.7 |
| 108-88-3 | Toluene | | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.9 | ~~U~~ | 0.4 | 1.9 | 4.7 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB20-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-04RE1
File ID: 5DK013.D
Sampled: 04/07/15 10:10
Prepared: 04/16/15 00:00
Analyzed: 04/16/15 14:06
Solids: 88.28
Preparation: EPA 5030B_MS
Initial/Final: 6.07 g / 5 mL
Batch: 5D16007
Sequence: AA33466
Calibration: 1503091
Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 124-48-1 | Dibromochloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 |
| 108-90-7 | Chlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 100-41-4 | Ethylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.7 | U | 0.9 | 3.7 | 9.3 |
| 95-47-6 | o-Xylene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 75-25-2 | Bromoform | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 100-42-5 | Styrene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 98-82-8 | Isopropylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.7 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.9 | U | 0.8 | 1.9 | 4.7 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.7 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 46.7 | 59 | 125 | 74 - 133 | |
| Toluene-d8 | 46.7 | 52 | 111 | 85 - 115 | |
| 4-Bromofluorobenzene | 46.7 | 44 | 93 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 460710 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 880994 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 974092 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 511495 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS21-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-05
File ID: 5DE016.D
Sampled: 04/07/15 10:30
Prepared: 04/10/15 00:00
Analyzed: 04/10/15 15:19
Solids: 85.78
Preparation: EPA 5030B_MS
Initial/Final: 5.75 g / 5 mL
Batch: 5D10006
Sequence: AA33391
Calibration: 1503091
Instrument: OVGCMS5

Exclude - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 74-87-3 | Chloromethane | 1 | <2.0 | U | 0.7 | 2.0 | 5.1 |
| 75-01-4 | Vinyl chloride | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 74-83-9 | Bromomethane | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |
| 75-00-3 | Chloroethane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 76-13-1 | Freon 113 | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 67-64-1 | Acetone | 1 | 30 | Q | 3.9 | 13 | 25 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 75-15-0 | Carbon disulfide | 1 | <10 | UQ | 2.1 | 10 | 25 |
| 75-09-2 | Methylene Chloride | 1 | <5.1 | UQ | 0.8 | 5.1 | 25 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.0 | U | 0.3 | 2.0 | 5.1 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.0 | U | 0.7 | 2.0 | 5.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 78-93-3 | 2-Butanone | 1 | <10 | U | 2.0 | 10 | 25 |
| 67-66-3 | Chloroform | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 74-97-5 | Bromochloromethane | 1 | <2.0 | U | 0.8 | 2.0 | 5.1 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 |
| 79-20-9 | Methyl acetate | 1 | <2.0 | U | 1.6 | 2.0 | 5.1 |
| 110-82-7 | Cyclohexane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 71-43-2 | Benzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 79-01-6 | Trichloroethene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 75-27-4 | Bromodichloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <10 | U | 3.6 | 10 | 25 |
| 591-78-6 | 2-Hexanone | 1 | <10 | U | 3.4 | 10 | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 108-88-3 | Toluene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS21-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-05 | File ID: | 5DE016.D |
| Sampled: | 04/07/15 10:30 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 15:19 |
| Solids: | 85.78 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.75 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene Exclude - SSL | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 124-48-1 | Dibromochloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.0 | U | 0.7 | 2.0 | 5.1 |
| 108-90-7 | Chlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 100-41-4 | Ethylbenzene | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.1 | UQ | 1.0 | 4.1 | 10 |
| 95-47-6 | o-Xylene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 75-25-2 | Bromoform | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 100-42-5 | Styrene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 98-82-8 | Isopropylbenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 50.7 | 48 | 95 | 74 - 133 | |
| Toluene-d8 | 50.7 | 47 | 93 | 85 - 115 | |
| 4-Bromofluorobenzene | 50.7 | 42 | 82 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 765646 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1326236 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1324836 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 682822 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS21-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-05RE1
File ID: 5DK014.D
Sampled: 04/07/15 10:30
Prepared: 04/16/15 00:00
Analyzed: 04/16/15 14:37
Solids: 85.78
Preparation: EPA 5030B_MS
Initial/Final: 6.13 g / 5 mL
Batch: 5D16007
Sequence: AA33466
Calibration: 1503091
Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 74-87-3 | Chloromethane | | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 75-01-4 | Vinyl chloride | | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 74-83-9 | Bromomethane | | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.9 | ~~U~~ | 0.5 | 1.9 | 4.8 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 76-13-1 | Freon 113 | | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 67-64-1 | Acetone | J - ICB | 1 | 31 | ~~Q~~ | 3.6 | 12 | 24 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 75-15-0 | Carbon disulfide | | 1 | <9.5 | U | 2.0 | 9.5 | 24 |
| 75-09-2 | Methylene Chloride | B - MBL | 1 | 11 | ~~JBQ~~ | 0.7 | 4.8 | 24 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.9 | U | 0.3 | 1.9 | 4.8 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.9 | U | 0.7 | 1.9 | 4.8 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <9.5 | ~~U~~ | 1.9 | 9.5 | 24 |
| 67-66-3 | Chloroform | | 1 | <1.9 | UQ | 0.4 | 1.9 | 4.8 |
| 74-97-5 | Bromochloromethane | | 1 | <1.9 | U | 0.7 | 1.9 | 4.8 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.9 | U | 0.3 | 1.9 | 4.8 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.9 | ~~U~~ | 1.5 | 1.9 | 4.8 |
| 110-82-7 | Cyclohexane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.9 | ~~U~~ | 0.5 | 1.9 | 4.8 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 71-43-2 | Benzene | | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 79-01-6 | Trichloroethene | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <9.5 | ~~U~~ | 3.4 | 9.5 | 24 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <9.5 | ~~U~~ | 3.2 | 9.5 | 24 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.9 | ~~U~~ | 0.4 | 1.9 | 4.8 |
| 108-88-3 | Toluene | | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.9 | ~~U~~ | 0.4 | 1.9 | 4.8 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS21-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-05RE1 | File ID: | 5DK014.D |
| Sampled: | 04/07/15 10:30 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 14:37 |
| Solids: | 85.78 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.13 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 124-48-1 | Dibromochloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 108-90-7 | Chlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-41-4 | Ethylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.8 | U | 0.9 | 3.8 | 9.5 |
| 95-47-6 | o-Xylene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-25-2 | Bromoform | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-42-5 | Styrene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 98-82-8 | Isopropylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 47.5 | 58 | 122 | 74 - 133 | |
| Toluene-d8 | 47.5 | 52 | 109 | 85 - 115 | |
| 4-Bromofluorobenzene | 47.5 | 42 | 87 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 472300 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 899421 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 954837 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 460347 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB21-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-06
File ID: 5DE017.D
Sampled: 04/07/15 10:40
Prepared: 04/10/15 00:00
Analyzed: 04/10/15 15:50
Solids: 86.94
Preparation: EPA 5030B_MS
Initial/Final: 6.42 g / 5 mL
Batch: 5D10006
Sequence: AA33391
Calibration: 1503091
Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | UL - SSL | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.5 |
| 74-87-3 | Chloromethane | | 1 | <1.8 | U | 0.6 | 1.8 | 4.5 |
| 75-01-4 | Vinyl chloride | | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 74-83-9 | Bromomethane | | 1 | <1.8 | U | 0.8 | 1.8 | 4.5 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.5 |
| 75-69-4 | Trichlorofluoromethane | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 76-13-1 | Freon 113 | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 67-64-1 | Acetone | J - ICB | 1 | 68 | ~~Q~~ | 3.4 | 11 | 22 |
| 75-35-4 | 1,1-Dichloroethene | UL - SSL | 1 | <1.8 | U | 0.6 | 1.8 | 4.5 |
| 75-15-0 | Carbon disulfide | | 1 | <9.0 | UQ | 1.9 | 9.0 | 22 |
| 75-09-2 | Methylene Chloride | | 1 | <4.5 | UQ | 0.7 | 4.5 | 22 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.8 | U | 0.2 | 1.8 | 4.5 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.8 | U | 0.6 | 1.8 | 4.5 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <9.0 | ~~U~~ | 1.8 | 9.0 | 22 |
| 67-66-3 | Chloroform | UL - SSL | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 74-97-5 | Bromochloromethane | | 1 | <1.8 | U | 0.7 | 1.8 | 4.5 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.8 | UQ | 0.3 | 1.8 | 4.5 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.8 | ~~U~~ | 1.4 | 1.8 | 4.5 |
| 110-82-7 | Cyclohexane | UL - SSL | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.5 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.5 |
| 56-23-5 | Carbon Tetrachloride | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 71-43-2 | Benzene | | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 79-01-6 | Trichloroethene | | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <9.0 | ~~U~~ | 3.2 | 9.0 | 22 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <9.0 | ~~U~~ | 3.0 | 9.0 | 22 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.5 |
| 108-88-3 | Toluene | UL - SSL | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.5 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.5 |
| 79-00-5 | 1,1,2-Trichloroethane | UL - SSL | 1 | <1.8 | ~~U~~ | 0.5 | 1.8 | 4.5 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB21-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-06 | File ID: | 5DE017.D |
| Sampled: | 04/07/15 10:40 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 15:50 |
| Solids: | 86.94 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.42 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

UL - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 124-48-1 | Dibromochloromethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.5 |
| 108-90-7 | Chlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 100-41-4 | Ethylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.6 | UQ | 0.9 | 3.6 | 9.0 |
| 95-47-6 | o-Xylene | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 75-25-2 | Bromoform | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 100-42-5 | Styrene | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 98-82-8 | Isopropylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.5 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.5 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.8 | U | 0.8 | 1.8 | 4.5 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.5 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 44.8 | 42 | 93 | 74 - 133 | |
| Toluene-d8 | 44.8 | 41 | 91 | 85 - 115 | |
| 4-Bromofluorobenzene | 44.8 | 36 | 81 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 800810 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1391770 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1399743 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 717081 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB21-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-06RE1
File ID: 5DK015.D
Sampled: 04/07/15 10:40
Prepared: 04/16/15 00:00
Analyzed: 04/16/15 15:09
Solids: 86.94
Preparation: EPA 5030B_MS
Initial/Final: 5.9 g / 5 mL
Batch: 5D16007
Sequence: AA33466
Calibration: 1503091
Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.9 |
| 74-87-3 | Chloromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.9 |
| 75-01-4 | Vinyl chloride | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 74-83-9 | Bromomethane | 1 | <1.9 | U | 0.9 | 1.9 | 4.9 |
| 75-00-3 | Chloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 76-13-1 | Freon 113 | 1 | <1.9 | U | 0.6 | 1.9 | 4.9 |
| 67-64-1 | Acetone | 1 | 70 | Q | 3.7 | 12 | 24 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.9 | U | 0.6 | 1.9 | 4.9 |
| 75-15-0 | Carbon disulfide | 1 | <9.7 | U | 2.0 | 9.7 | 24 |
| 75-09-2 | Methylene Chloride | 1 | 11 | JBQ | 0.8 | 4.9 | 24 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.9 | U | 0.3 | 1.9 | 4.9 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.9 | U | 0.7 | 1.9 | 4.9 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.9 |
| 78-93-3 | 2-Butanone | 1 | <9.7 | U | 1.9 | 9.7 | 24 |
| 67-66-3 | Chloroform | 1 | <1.9 | UQ | 0.4 | 1.9 | 4.9 |
| 74-97-5 | Bromochloromethane | 1 | <1.9 | U | 0.7 | 1.9 | 4.9 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.9 | U | 0.3 | 1.9 | 4.9 |
| 79-20-9 | Methyl acetate | 1 | <1.9 | U | 1.6 | 1.9 | 4.9 |
| 110-82-7 | Cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 108-87-2 | Methyl cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.9 | U | 0.6 | 1.9 | 4.9 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 71-43-2 | Benzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 79-01-6 | Trichloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 75-27-4 | Bromodichloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <9.7 | U | 3.5 | 9.7 | 24 |
| 591-78-6 | 2-Hexanone | 1 | <9.7 | U | 3.3 | 9.7 | 24 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 108-88-3 | Toluene | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.9 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB21-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-06RE1 | File ID: | 5DK015.D |
| Sampled: | 04/07/15 10:40 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 15:09 |
| Solids: | 86.94 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.9 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene Exclude - RE | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 124-48-1 | Dibromochloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.9 | U | 0.7 | 1.9 | 4.9 |
| 108-90-7 | Chlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 100-41-4 | Ethylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.9 | U | 1.0 | 3.9 | 9.7 |
| 95-47-6 | o-Xylene | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 75-25-2 | Bromoform | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 100-42-5 | Styrene | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 98-82-8 | Isopropylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.9 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.9 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.9 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.9 | U | 0.8 | 1.9 | 4.9 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.9 | U | 0.9 | 1.9 | 4.9 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 48.7 | 51 | 105 | 74 - 133 | |
| Toluene-d8 | 48.7 | 45 | 93 | 85 - 115 | |
| 4-Bromofluorobenzene | 48.7 | 38 | 78 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 576070 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1092880 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1203934 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 643590 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS27-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-07
File ID: 5DE018.D
Sampled: 04/07/15 12:40
Prepared: 04/10/15 00:00
Analyzed: 04/10/15 16:21
Solids: 87.11
Preparation: EPA 5030B_MS
Initial/Final: 5.99 g / 5 mL
Batch: 5D10006
Sequence: AA33391
Calibration: 1503091
Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | UL - SSL | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 |
| 74-87-3 | Chloromethane | | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 75-01-4 | Vinyl chloride | | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 74-83-9 | Bromomethane | | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.9 | ~~UQ~~ | 0.5 | 1.9 | 4.8 |
| 75-69-4 | Trichlorofluoromethane | UL - SSL | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.8 |
| 76-13-1 | Freon 113 | UL - SSL | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 |
| 67-64-1 | Acetone | J - ICB | 1 | 5.0 | ~~JQ~~ | 3.6 | 12 | 24 |
| 75-35-4 | 1,1-Dichloroethene | UL - SSL | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 75-15-0 | Carbon disulfide | | 1 | <9.6 | UQ | 2.0 | 9.6 | 24 |
| 75-09-2 | Methylene Chloride | | 1 | <4.8 | UQ | 0.7 | 4.8 | 24 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.9 | U | 0.3 | 1.9 | 4.8 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.9 | U | 0.7 | 1.9 | 4.8 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <9.6 | ~~U~~ | 1.9 | 9.6 | 24 |
| 67-66-3 | Chloroform | UL - SSL | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 74-97-5 | Bromochloromethane | | 1 | <1.9 | U | 0.7 | 1.9 | 4.8 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.9 | UQ | 0.3 | 1.9 | 4.8 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.9 | ~~U~~ | 1.5 | 1.9 | 4.8 |
| 110-82-7 | Cyclohexane | UL - SSL | 1 | <1.9 | ~~UQ~~ | 0.5 | 1.9 | 4.8 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.9 | ~~UQ~~ | 0.5 | 1.9 | 4.8 |
| 56-23-5 | Carbon Tetrachloride | UL - SSL | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 71-43-2 | Benzene | | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 79-01-6 | Trichloroethene | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <9.6 | ~~U~~ | 3.4 | 9.6 | 24 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <9.6 | ~~U~~ | 3.3 | 9.6 | 24 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.9 | ~~U~~ | 0.4 | 1.9 | 4.8 |
| 108-88-3 | Toluene | UL - SSL | 1 | <1.9 | ~~U~~ | 0.4 | 1.9 | 4.8 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.9 | ~~U~~ | 0.4 | 1.9 | 4.8 |
| 79-00-5 | 1,1,2-Trichloroethane | UL - SSL | 1 | <1.9 | ~~U~~ | 0.6 | 1.9 | 4.8 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS27-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-07 | File ID: | 5DE018.D |
| Sampled: | 04/07/15 12:40 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 16:21 |
| Solids: | 87.11 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.99 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene UL - SSL | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 124-48-1 | Dibromochloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 108-90-7 | Chlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-41-4 | Ethylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.8 | UQ | 0.9 | 3.8 | 9.6 |
| 95-47-6 | o-Xylene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-25-2 | Bromoform | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-42-5 | Styrene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 98-82-8 | Isopropylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 47.9 | 47 | 97 | 74 - 133 | |
| Toluene-d8 | 47.9 | 44 | 92 | 85 - 115 | |
| 4-Bromofluorobenzene | 47.9 | 39 | 82 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 787187 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1389378 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1406169 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 733314 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS27-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-07RE1 | File ID: | 5DK016.D |
| Sampled: | 04/07/15 12:40 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 15:41 |
| Solids: | 87.11 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.24 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 74-87-3 | Chloromethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 75-01-4 | Vinyl chloride | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 74-83-9 | Bromomethane | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |
| 75-00-3 | Chloroethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 76-13-1 | Freon 113 | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 67-64-1 | Acetone | 1 | <11 | UQ | 3.5 | 11 | 23 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 75-15-0 | Carbon disulfide | 1 | <9.2 | U | 1.9 | 9.2 | 23 |
| 75-09-2 | Methylene Chloride | 1 | 14 | JBQ | 0.7 | 4.6 | 23 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.8 | U | 0.2 | 1.8 | 4.6 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 78-93-3 | 2-Butanone | 1 | <9.2 | U | 1.8 | 9.2 | 23 |
| 67-66-3 | Chloroform | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.6 |
| 74-97-5 | Bromochloromethane | 1 | <1.8 | U | 0.7 | 1.8 | 4.6 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.8 | U | 0.3 | 1.8 | 4.6 |
| 79-20-9 | Methyl acetate | 1 | <1.8 | U | 1.5 | 1.8 | 4.6 |
| 110-82-7 | Cyclohexane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 108-87-2 | Methyl cyclohexane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 71-43-2 | Benzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 79-01-6 | Trichloroethene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-27-4 | Bromodichloromethane | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <9.2 | U | 3.3 | 9.2 | 23 |
| 591-78-6 | 2-Hexanone | 1 | <9.2 | U | 3.1 | 9.2 | 23 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 108-88-3 | Toluene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |

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# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS27-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-07RE1 | File ID: | 5DK016.D |
| Sampled: | 04/07/15 12:40 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 15:41 |
| Solids: | 87.11 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.24 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 124-48-1 | Dibromochloromethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 108-90-7 | Chlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 100-41-4 | Ethylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.7 | U | 0.9 | 3.7 | 9.2 |
| 95-47-6 | o-Xylene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-25-2 | Bromoform | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 100-42-5 | Styrene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 98-82-8 | Isopropylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 46.0 | 47 | 103 | 74 - 133 | |
| Toluene-d8 | 46.0 | 39 | 84 | 85 - 115 | * |
| 4-Bromofluorobenzene | 46.0 | 31 | 68 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 530226 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1069908 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1069680 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 429362 | 18.59 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB27-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-08 | File ID: | 5DE019.D |
| Sampled: | 04/07/15 12:50 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 16:52 |
| Solids: | 85.89 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.39 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | UL - SSL | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.6 |
| 74-87-3 | Chloromethane | | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 75-01-4 | Vinyl chloride | | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 74-83-9 | Bromomethane | | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.6 |
| 75-69-4 | Trichlorofluoromethane | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 76-13-1 | Freon 113 | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 67-64-1 | Acetone | UJ - ICB | 1 | <11 | ~~U~~ | 3.5 | 11 | 23 |
| 75-35-4 | 1,1-Dichloroethene | UL - SSL | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 75-15-0 | Carbon disulfide | | 1 | <9.1 | UQ | 1.9 | 9.1 | 23 |
| 75-09-2 | Methylene Chloride | | 1 | <4.6 | UQ | 0.7 | 4.6 | 23 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.8 | U | 0.2 | 1.8 | 4.6 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <9.1 | ~~U~~ | 1.8 | 9.1 | 23 |
| 67-66-3 | Chloroform | UL - SSL | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 74-97-5 | Bromochloromethane | | 1 | <1.8 | U | 0.7 | 1.8 | 4.6 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.8 | UQ | 0.3 | 1.8 | 4.6 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.8 | ~~U~~ | 1.5 | 1.8 | 4.6 |
| 110-82-7 | Cyclohexane | UL - SSL | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.6 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.6 |
| 56-23-5 | Carbon Tetrachloride | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 71-43-2 | Benzene | | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 79-01-6 | Trichloroethene | | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <9.1 | ~~U~~ | 3.3 | 9.1 | 23 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <9.1 | ~~U~~ | 3.1 | 9.1 | 23 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.6 |
| 108-88-3 | Toluene | UL - SSL | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.6 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.6 |
| 79-00-5 | 1,1,2-Trichloroethane | UL - SSL | 1 | <1.8 | ~~U~~ | 0.5 | 1.8 | 4.6 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB27-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-08 | File ID: | 5DE019.D |
| Sampled: | 04/07/15 12:50 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 16:52 |
| Solids: | 85.89 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.39 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

UL - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 124-48-1 | Dibromochloromethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 108-90-7 | Chlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 100-41-4 | Ethylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.6 | UQ | 0.9 | 3.6 | 9.1 |
| 95-47-6 | o-Xylene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-25-2 | Bromoform | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 100-42-5 | Styrene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 98-82-8 | Isopropylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 45.6 | 44 | 98 | 74 - 133 | |
| Toluene-d8 | 45.6 | 42 | 92 | 85 - 115 | |
| 4-Bromofluorobenzene | 45.6 | 37 | 82 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 781421 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1372607 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1403093 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 725121 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB27-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-08RE1
File ID: 5DK017.D
Sampled: 04/07/15 12:50
Prepared: 04/16/15 00:00
Analyzed: 04/16/15 16:12
Solids: 85.89
Preparation: EPA 5030B_MS
Initial/Final: 6.66 g / 5 mL
Batch: 5D16007
Sequence: AA33466
Calibration: 1503091
Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 74-87-3 | Chloromethane | 1 | <1.7 | U | 0.6 | 1.7 | 4.4 |
| 75-01-4 | Vinyl chloride | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 74-83-9 | Bromomethane | 1 | <1.7 | U | 0.8 | 1.7 | 4.4 |
| 75-00-3 | Chloroethane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 76-13-1 | Freon 113 | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 67-64-1 | Acetone | 1 | <11 | UQ | 3.3 | 11 | 22 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 75-15-0 | Carbon disulfide | 1 | <8.7 | U | 1.8 | 8.7 | 22 |
| 75-09-2 | Methylene Chloride | 1 | 8.3 | JBQ | 0.7 | 4.4 | 22 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.7 | U | 0.2 | 1.7 | 4.4 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.7 | U | 0.6 | 1.7 | 4.4 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 78-93-3 | 2-Butanone | 1 | <8.7 | U | 1.7 | 8.7 | 22 |
| 67-66-3 | Chloroform | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 74-97-5 | Bromochloromethane | 1 | <1.7 | U | 0.7 | 1.7 | 4.4 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.7 | U | 0.3 | 1.7 | 4.4 |
| 79-20-9 | Methyl acetate | 1 | <1.7 | U | 1.4 | 1.7 | 4.4 |
| 110-82-7 | Cyclohexane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 108-87-2 | Methyl cyclohexane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 71-43-2 | Benzene | 1 | <1.7 | U | 0.3 | 1.7 | 4.4 |
| 79-01-6 | Trichloroethene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 75-27-4 | Bromodichloromethane | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <8.7 | U | 3.1 | 8.7 | 22 |
| 591-78-6 | 2-Hexanone | 1 | <8.7 | U | 3.0 | 8.7 | 22 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 108-88-3 | Toluene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB27-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-08RE1 | File ID: | 5DK017.D |
| Sampled: | 04/07/15 12:50 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 16:12 |
| Solids: | 85.89 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.66 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 124-48-1 | Dibromochloromethane | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.7 | U | 0.6 | 1.7 | 4.4 |
| 108-90-7 | Chlorobenzene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 100-41-4 | Ethylbenzene | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.5 | U | 0.9 | 3.5 | 8.7 |
| 95-47-6 | o-Xylene | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 75-25-2 | Bromoform | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 100-42-5 | Styrene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 98-82-8 | Isopropylbenzene | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.7 | U | 0.7 | 1.7 | 4.4 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.7 | U | 0.7 | 1.7 | 4.4 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.7 | U | 0.8 | 1.7 | 4.4 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 43.7 | 44 | 101 | 74 - 133 | |
| Toluene-d8 | 43.7 | 38 | 88 | 85 - 115 | |
| 4-Bromofluorobenzene | 43.7 | 32 | 72 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 563740 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1087892 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1138240 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 522346 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

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# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS28-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-09 | File ID: | 5DE020.D |
| Sampled: | 04/07/15 13:30 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 17:23 |
| Solids: | 81.26 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.94 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | UL - SSL | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.2 |
| 74-87-3 | Chloromethane | | 1 | <2.1 | U | 0.7 | 2.1 | 5.2 |
| 75-01-4 | Vinyl chloride | | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 74-83-9 | Bromomethane | | 1 | <2.1 | U | 0.9 | 2.1 | 5.2 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <2.1 | ~~UQ~~ | 0.6 | 2.1 | 5.2 |
| 75-69-4 | Trichlorofluoromethane | UL - SSL | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.2 |
| 76-13-1 | Freon 113 | UL - SSL | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.2 |
| 67-64-1 | Acetone | J - ICB | 1 | 31 | ~~Q~~ | 3.9 | 13 | 26 |
| 75-35-4 | 1,1-Dichloroethene | UL - SSL | 1 | <2.1 | U | 0.6 | 2.1 | 5.2 |
| 75-15-0 | Carbon disulfide | | 1 | <10 | UQ | 2.2 | 10 | 26 |
| 75-09-2 | Methylene Chloride | | 1 | <5.2 | UQ | 0.8 | 5.2 | 26 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.1 | U | 0.3 | 2.1 | 5.2 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.1 | U | 0.7 | 2.1 | 5.2 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.1 | U | 0.6 | 2.1 | 5.2 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <10 | ~~U~~ | 2.1 | 10 | 26 |
| 67-66-3 | Chloroform | UL - SSL | 1 | <2.1 | U | 0.4 | 2.1 | 5.2 |
| 74-97-5 | Bromochloromethane | | 1 | <2.1 | U | 0.8 | 2.1 | 5.2 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <2.1 | UQ | 0.4 | 2.1 | 5.2 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <2.1 | ~~U~~ | 1.7 | 2.1 | 5.2 |
| 110-82-7 | Cyclohexane | UL - SSL | 1 | <2.1 | ~~UQ~~ | 0.5 | 2.1 | 5.2 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <2.1 | ~~UQ~~ | 0.5 | 2.1 | 5.2 |
| 56-23-5 | Carbon Tetrachloride | UL - SSL | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.2 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 71-43-2 | Benzene | | 1 | <2.1 | U | 0.4 | 2.1 | 5.2 |
| 79-01-6 | Trichloroethene | | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.1 | U | 0.6 | 2.1 | 5.2 |
| 75-27-4 | Bromodichloromethane | | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <10 | ~~U~~ | 3.7 | 10 | 26 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <10 | ~~U~~ | 3.5 | 10 | 26 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <2.1 | ~~U~~ | 0.4 | 2.1 | 5.2 |
| 108-88-3 | Toluene | UL - SSL | 1 | <2.1 | ~~U~~ | 0.5 | 2.1 | 5.2 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <2.1 | ~~U~~ | 0.4 | 2.1 | 5.2 |
| 79-00-5 | 1,1,2-Trichloroethane | UL - SSL | 1 | <2.1 | ~~U~~ | 0.6 | 2.1 | 5.2 |

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# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS28-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-09 | File ID: | 5DE020.D |
| Sampled: | 04/07/15 13:30 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 17:23 |
| Solids: | 81.26 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.94 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 124-48-1 | Dibromochloromethane | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.1 | U | 0.7 | 2.1 | 5.2 |
| 108-90-7 | Chlorobenzene | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 100-41-4 | Ethylbenzene | 1 | <2.1 | U | 0.6 | 2.1 | 5.2 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.1 | UQ | 1.0 | 4.1 | 10 |
| 95-47-6 | o-Xylene | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 75-25-2 | Bromoform | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 100-42-5 | Styrene | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 98-82-8 | Isopropylbenzene | 1 | <2.1 | U | 0.6 | 2.1 | 5.2 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.1 | U | 0.9 | 2.1 | 5.2 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.1 | U | 0.5 | 2.1 | 5.2 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.1 | U | 0.9 | 2.1 | 5.2 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.1 | U | 0.9 | 2.1 | 5.2 |

UL - SSL

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 51.8 | 51 | 98 | 74 - 133 | |
| Toluene-d8 | 51.8 | 47 | 90 | 85 - 115 | |
| 4-Bromofluorobenzene | 51.8 | 37 | 72 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 736952 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1302175 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1217691 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 490772 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS28-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-09RE1
File ID: 5DK018.D
Sampled: 04/07/15 13:30
Prepared: 04/16/15 00:00
Analyzed: 04/16/15 16:44
Solids: 81.26
Preparation: EPA 5030B_MS
Initial/Final: 5.38 g / 5 mL
Batch: 5D16007
Sequence: AA33466
Calibration: 1503091
Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 74-87-3 | Chloromethane | 1 | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 75-01-4 | Vinyl chloride | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 74-83-9 | Bromomethane | 1 | <2.5 | U | 1.1 | 2.5 | 6.2 |
| 75-00-3 | Chloroethane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 76-13-1 | Freon 113 | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 67-64-1 | Acetone | 1 | 71 | Q | 4.7 | 15 | 31 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 75-15-0 | Carbon disulfide | 1 | <12 | U | 2.6 | 12 | 31 |
| 75-09-2 | Methylene Chloride | 1 | 22 | JBQ | 1.0 | 6.2 | 31 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.5 | U | 0.3 | 2.5 | 6.2 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 78-93-3 | 2-Butanone | 1 | <12 | U | 2.5 | 12 | 31 |
| 67-66-3 | Chloroform | 1 | <2.5 | UQ | 0.5 | 2.5 | 6.2 |
| 74-97-5 | Bromochloromethane | 1 | <2.5 | U | 0.9 | 2.5 | 6.2 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.5 | U | 0.4 | 2.5 | 6.2 |
| 79-20-9 | Methyl acetate | 1 | <2.5 | U | 2.0 | 2.5 | 6.2 |
| 110-82-7 | Cyclohexane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 71-43-2 | Benzene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 79-01-6 | Trichloroethene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 75-27-4 | Bromodichloromethane | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <12 | U | 4.4 | 12 | 31 |
| 591-78-6 | 2-Hexanone | 1 | <12 | U | 4.2 | 12 | 31 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 108-88-3 | Toluene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS28-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-09RE1 | File ID: | 5DK018.D |
| Sampled: | 04/07/15 13:30 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 16:44 |
| Solids: | 81.26 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.38 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 124-48-1 | Dibromochloromethane | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 108-90-7 | Chlorobenzene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 100-41-4 | Ethylbenzene | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.9 | U | 1.2 | 4.9 | 12 |
| 95-47-6 | o-Xylene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 75-25-2 | Bromoform | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 100-42-5 | Styrene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 98-82-8 | Isopropylbenzene | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.5 | U | 1.0 | 2.5 | 6.2 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.5 | U | 1.0 | 2.5 | 6.2 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.5 | U | 1.1 | 2.5 | 6.2 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 57.2 | 66 | 116 | 74 - 133 | |
| Toluene-d8 | 57.2 | 52 | 91 | 85 - 115 | |
| 4-Bromofluorobenzene | 57.2 | 36 | 63 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 271405 | 11.482 | 646118 | 11.491 | * |
| 1,4-Difluorobenzene | 522912 | 12.181 | 1132565 | 12.189 | * |
| Chlorobenzene-d5 | 515682 | 15.615 | 1071316 | 15.632 | * |
| 1,4-Dichlorobenzene-d4 | 190390 | 18.582 | 548927 | 18.606 | * |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB28-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-10
File ID: 5DE021.D
Sampled: 04/07/15 13:40
Prepared: 04/10/15 00:00
Analyzed: 04/10/15 17:54
Solids: 86.93
Preparation: EPA 5030B_MS
Initial/Final: 6.49 g / 5 mL
Batch: 5D10006
Sequence: AA33391
Calibration: 1503091
Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.4 |
| 74-87-3 | Chloromethane | | 1 | <1.8 | U | 0.6 | 1.8 | 4.4 |
| 75-01-4 | Vinyl chloride | | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 74-83-9 | Bromomethane | | 1 | <1.8 | U | 0.8 | 1.8 | 4.4 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.4 |
| 75-69-4 | Trichlorofluoromethane | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.4 |
| 76-13-1 | Freon 113 | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.4 |
| 67-64-1 | Acetone | J - ICB | 1 | 82 | ~~Q~~ | 3.4 | 11 | 22 |
| 75-35-4 | 1,1-Dichloroethene | UL - SSL | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 75-15-0 | Carbon disulfide | | 1 | <8.9 | UQ | 1.9 | 8.9 | 22 |
| 75-09-2 | Methylene Chloride | | 1 | <4.4 | UQ | 0.7 | 4.4 | 22 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.8 | U | 0.2 | 1.8 | 4.4 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.8 | U | 0.6 | 1.8 | 4.4 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 78-93-3 | 2-Butanone | J - ICL | 1 | 5.1 | ~~J~~ | 1.8 | 8.9 | 22 |
| 67-66-3 | Chloroform | UL - SSL | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 74-97-5 | Bromochloromethane | | 1 | <1.8 | U | 0.7 | 1.8 | 4.4 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.8 | UQ | 0.3 | 1.8 | 4.4 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.8 | ~~U~~ | 1.4 | 1.8 | 4.4 |
| 110-82-7 | Cyclohexane | UL - SSL | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.4 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.8 | ~~UQ~~ | 0.5 | 1.8 | 4.4 |
| 56-23-5 | Carbon Tetrachloride | UL - SSL | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.4 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 71-43-2 | Benzene | | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 79-01-6 | Trichloroethene | | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <8.9 | ~~U~~ | 3.2 | 8.9 | 22 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <8.9 | ~~U~~ | 3.0 | 8.9 | 22 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.4 |
| 108-88-3 | Toluene | UL - SSL | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.4 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.8 | ~~U~~ | 0.4 | 1.8 | 4.4 |
| 79-00-5 | 1,1,2-Trichloroethane | UL - SSL | 1 | <1.8 | ~~U~~ | 0.5 | 1.8 | 4.4 |

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# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB28-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10 | File ID: | 5DE021.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/10/15 00:00 | Analyzed: | 04/10/15 17:54 |
| Solids: | 86.93 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.49 g / 5 mL |

Batch: 5D10006 Sequence: AA33391 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 124-48-1 | Dibromochloromethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.4 |
| 108-90-7 | Chlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 100-41-4 | Ethylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.5 | UQ | 0.9 | 3.5 | 8.9 |
| 95-47-6 | o-Xylene | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 75-25-2 | Bromoform | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 100-42-5 | Styrene | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 98-82-8 | Isopropylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.4 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.4 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.8 | U | 0.8 | 1.8 | 4.4 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.4 |

UL - SSL

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 44.3 | 42 | 94 | 74 - 133 | |
| Toluene-d8 | 44.3 | 40 | 90 | 85 - 115 | |
| 4-Bromofluorobenzene | 44.3 | 33 | 75 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 789673 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1366848 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1289201 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 558289 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB28-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10RE1 | File ID: | 5DK019.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 17:15 |
| Solids: | 86.93 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.33 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.5 |
| 74-87-3 | Chloromethane | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.5 |
| 75-01-4 | Vinyl chloride | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 74-83-9 | Bromomethane | 1 | <1.8 | UQ | 0.8 | 1.8 | 4.5 |
| 75-00-3 | Chloroethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 76-13-1 | Freon 113 | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 67-64-1 | Acetone | 1 | <11 | UQ | 3.5 | 11 | 23 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.5 |
| 75-15-0 | Carbon disulfide | 1 | <9.1 | UQ | 1.9 | 9.1 | 23 |
| 75-09-2 | Methylene Chloride | 1 | <4.5 | UQ | 0.7 | 4.5 | 23 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.8 | UQ | 0.2 | 1.8 | 4.5 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 78-93-3 | 2-Butanone | 1 | <9.1 | UQ | 1.8 | 9.1 | 23 |
| 67-66-3 | Chloroform | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 74-97-5 | Bromochloromethane | 1 | <1.8 | UQ | 0.7 | 1.8 | 4.5 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.8 | UQ | 0.3 | 1.8 | 4.5 |
| 79-20-9 | Methyl acetate | 1 | <1.8 | UQ | 1.5 | 1.8 | 4.5 |
| 110-82-7 | Cyclohexane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 108-87-2 | Methyl cyclohexane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 71-43-2 | Benzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 79-01-6 | Trichloroethene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 75-27-4 | Bromodichloromethane | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <9.1 | UQ | 3.3 | 9.1 | 23 |
| 591-78-6 | 2-Hexanone | 1 | <9.1 | UQ | 3.1 | 9.1 | 23 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 108-88-3 | Toluene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB28-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10RE1 | File ID: | 5DK019.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 17:15 |
| Solids: | 86.93 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.33 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 124-48-1 | Dibromochloromethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.5 |
| 108-90-7 | Chlorobenzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 100-41-4 | Ethylbenzene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.6 | UQ | 0.9 | 3.6 | 9.1 |
| 95-47-6 | o-Xylene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 75-25-2 | Bromoform | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 100-42-5 | Styrene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 98-82-8 | Isopropylbenzene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.8 | UQ | 0.8 | 1.8 | 4.5 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.5 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.8 | UQ | 0.8 | 1.8 | 4.5 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.8 | UQ | 0.8 | 1.8 | 4.5 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 45.4 | 59 | 129 | 74 - 133 | |
| Toluene-d8 | 45.4 | 40 | 88 | 85 - 115 | |
| 4-Bromofluorobenzene | 45.4 | 28 | 62 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 15238 | 11.482 | 646118 | 11.491 | * |
| 1,4-Difluorobenzene | 29970 | 12.181 | 1132565 | 12.189 | * |
| Chlorobenzene-d5 | 45391 | 15.624 | 1071316 | 15.632 | * |
| 1,4-Dichlorobenzene-d4 | 23607 | 18.573 | 548927 | 18.606 | * |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB28-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10RE2 | File ID: | 5DL005.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/17/15 00:00 | Analyzed: | 04/17/15 10:36 |
| Solids: | 86.93 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.38 g / 5 mL |

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.8 |
| 74-87-3 | Chloromethane | 1 | <2.3 | U | 0.7 | 2.3 | 5.8 |
| 75-01-4 | Vinyl chloride | 1 | <2.3 | UQ | 0.5 | 2.3 | 5.8 |
| 74-83-9 | Bromomethane | 1 | <2.3 | UQ | 1.0 | 2.3 | 5.8 |
| 75-00-3 | Chloroethane | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.8 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.8 |
| 76-13-1 | Freon 113 | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.8 |
| 67-64-1 | Acetone | 1 | 18 | JQ | 4.4 | 14 | 29 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.8 |
| 75-15-0 | Carbon disulfide | 1 | <12 | UQ | 2.4 | 12 | 29 |
| 75-09-2 | Methylene Chloride | 1 | 21 | JBQ | 0.9 | 5.8 | 29 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.3 | U | 0.3 | 2.3 | 5.8 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.3 | UQ | 0.8 | 2.3 | 5.8 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.8 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.8 |
| 78-93-3 | 2-Butanone | 1 | <12 | U | 2.3 | 12 | 29 |
| 67-66-3 | Chloroform | 1 | 0.9 | JQ | 0.5 | 2.3 | 5.8 |
| 74-97-5 | Bromochloromethane | 1 | <2.3 | UQ | 0.9 | 2.3 | 5.8 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.3 | UQ | 0.4 | 2.3 | 5.8 |
| 79-20-9 | Methyl acetate | 1 | <2.3 | U | 1.8 | 2.3 | 5.8 |
| 110-82-7 | Cyclohexane | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.8 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.8 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.8 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 71-43-2 | Benzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 79-01-6 | Trichloroethene | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.8 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 75-27-4 | Bromodichloromethane | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <12 | U | 4.1 | 12 | 29 |
| 591-78-6 | 2-Hexanone | 1 | <12 | UQ | 3.9 | 12 | 29 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 108-88-3 | Toluene | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.3 | U | 0.7 | 2.3 | 5.8 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB28-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-10RE2 | File ID: | 5DL005.D |
| Sampled: | 04/07/15 13:40 | Prepared: | 04/17/15 00:00 | Analyzed: | 04/17/15 10:36 |
| Solids: | 86.93 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.38 g / 5 mL |

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 124-48-1 | Dibromochloromethane | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.3 | UQ | 0.8 | 2.3 | 5.8 |
| 108-90-7 | Chlorobenzene | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 100-41-4 | Ethylbenzene | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.6 | U | 1.1 | 4.6 | 12 |
| 95-47-6 | o-Xylene | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 75-25-2 | Bromoform | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 100-42-5 | Styrene | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 98-82-8 | Isopropylbenzene | 1 | <2.3 | U | 0.6 | 2.3 | 5.8 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.3 | U | 1.0 | 2.3 | 5.8 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.8 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.3 | UQ | 1.0 | 2.3 | 5.8 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.3 | U | 1.0 | 2.3 | 5.8 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 53.5 | 64 | 120 | 74 - 133 | |
| Toluene-d8 | 53.5 | 54 | 101 | 85 - 115 | |
| 4-Bromofluorobenzene | 53.5 | 38 | 71 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 425435 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 826468 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 795716 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 271773 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-TB01-040715

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water
Laboratory ID: A502126-11
File ID: 5DJ018.D
Sampled: 04/07/15 14:10
Prepared: 04/15/15 00:00
Analyzed: 04/15/15 16:19
Solids:
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Batch: 5D15034
Sequence: AA33460
Calibration: 1503091
Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 1 | <1.0 | U | 0.74 | 1.0 | 2.0 |
| 74-87-3 | Chloromethane | | 1 | <1.0 | U | 0.82 | 1.0 | 2.0 |
| 75-01-4 | Vinyl chloride | | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 |
| 74-83-9 | Bromomethane | | 1 | <1.0 | U | 0.95 | 1.0 | 2.0 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.0 | ~~UQ~~ | 0.98 | 1.0 | 2.0 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 |
| 76-13-1 | Freon 113 | | 1 | <1.0 | UQ | 0.73 | 1.0 | 2.0 |
| 67-64-1 | Acetone | UJ - ICB | 1 | <12 | ~~UQ~~ | 5.0 | 12 | 25 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 |
| 75-15-0 | Carbon disulfide | | 1 | <5.0 | U | 2.6 | 5.0 | 10 |
| 75-09-2 | Methylene Chloride | | 1 | <5.0 | U | 2.0 | 5.0 | 10 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.0 | U | 0.60 | 1.0 | 2.0 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.0 | U | 0.62 | 1.0 | 2.0 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <12 | ~~U~~ | 4.5 | 12 | 25 |
| 67-66-3 | Chloroform | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 74-97-5 | Bromochloromethane | | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.0 | ~~UQ~~ | 0.95 | 1.0 | 2.0 |
| 110-82-7 | Cyclohexane | | 1 | <1.0 | U | 0.93 | 1.0 | 2.0 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.0 | ~~U~~ | 0.64 | 1.0 | 2.0 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.0 | U | 0.63 | 1.0 | 2.0 |
| 71-43-2 | Benzene | | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 |
| 79-01-6 | Trichloroethene | | 1 | <1.0 | U | 0.89 | 1.0 | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.0 | U | 0.52 | 1.0 | 2.0 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <2.5 | ~~U~~ | 0.79 | 2.5 | 5.0 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <2.5 | ~~UQ~~ | 1.4 | 2.5 | 5.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.0 | ~~U~~ | 0.59 | 1.0 | 2.0 |
| 108-88-3 | Toluene | | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.0 | ~~U~~ | 0.73 | 1.0 | 2.0 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-TB01-040715

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A502126-11 File ID: 5DJ018.D

Sampled: 04/07/15 14:10 Prepared: 04/15/15 00:00 Analyzed: 04/15/15 16:19

Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 5D15034 Sequence: AA33460 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 124-48-1 | Dibromochloromethane | 1 | <1.0 | U | 0.44 | 1.0 | 2.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.0 | U | 0.78 | 1.0 | 2.0 |
| 108-90-7 | Chlorobenzene | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 |
| 100-41-4 | Ethylbenzene | 1 | <1.0 | U | 0.69 | 1.0 | 2.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <2.0 | U | 1.3 | 2.0 | 4.0 |
| 95-47-6 | o-Xylene | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 |
| 75-25-2 | Bromoform | 1 | <1.0 | U | 0.75 | 1.0 | 2.0 |
| 100-42-5 | Styrene | 1 | <1.0 | U | 0.61 | 1.0 | 2.0 |
| 98-82-8 | Isopropylbenzene | 1 | <1.0 | U | 0.67 | 1.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.0 | U | 0.54 | 1.0 | 2.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.0 | U | 0.70 | 1.0 | 2.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.0 | U | 0.77 | 1.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <5.0 | U | 0.96 | 5.0 | 10 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.0 | U | 0.86 | 1.0 | 2.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 50.0 | 58 | 115 | 85 - 115 | |
| 1,2-Dichloroethane-d4 | 50.0 | 42 | 85 | 70 - 120 | |
| Toluene-d8 | 50.0 | 50 | 99 | 85 - 120 | |
| 4-Bromofluorobenzene | 50.0 | 46 | 91 | 75 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 520814 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1015212 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1056243 | 15.624 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 554688 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS29-0415

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil | Laboratory ID: A502126-12 | File ID: 5DH009.D

Sampled: 04/07/15 11:10 | Prepared: 04/13/15 00:00 | Analyzed: 04/13/15 11:48

Solids: 76.57 | Preparation: EPA 5030B_MS | Initial/Final: 5.56 g / 5 mL

Batch: 5D13017 | Sequence: AA33410 | Calibration: 1503091 | Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 1 | <2.3 | U | 0.7 | 2.3 | 5.9 |
| 74-87-3 | Chloromethane | | 1 | <2.3 | U | 0.8 | 2.3 | 5.9 |
| 75-01-4 | Vinyl chloride | | 1 | <2.3 | U | 0.5 | 2.3 | 5.9 |
| 74-83-9 | Bromomethane | | 1 | <2.3 | U | 1.1 | 2.3 | 5.9 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <2.3 | ~~UQ~~ | 0.6 | 2.3 | 5.9 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 76-13-1 | Freon 113 | | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.9 |
| 67-64-1 | Acetone | J - ICB | 1 | 15 | ~~JQ~~ | 4.5 | 15 | 29 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <2.3 | U | 0.7 | 2.3 | 5.9 |
| 75-15-0 | Carbon disulfide | | 1 | <12 | U | 2.5 | 12 | 29 |
| 75-09-2 | Methylene Chloride | | 1 | <5.9 | U | 0.9 | 5.9 | 29 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.3 | U | 0.3 | 2.3 | 5.9 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.3 | U | 0.8 | 2.3 | 5.9 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.3 | UQ | 0.6 | 2.3 | 5.9 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.3 | U | 0.7 | 2.3 | 5.9 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <12 | ~~U~~ | 2.3 | 12 | 29 |
| 67-66-3 | Chloroform | | 1 | <2.3 | UQ | 0.5 | 2.3 | 5.9 |
| 74-97-5 | Bromochloromethane | | 1 | <2.3 | UQ | 0.9 | 2.3 | 5.9 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <2.3 | UQ | 0.4 | 2.3 | 5.9 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <2.3 | ~~UQ~~ | 1.9 | 2.3 | 5.9 |
| 110-82-7 | Cyclohexane | | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <2.3 | ~~U~~ | 0.6 | 2.3 | 5.9 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <2.3 | UQ | 0.7 | 2.3 | 5.9 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 71-43-2 | Benzene | | 1 | <2.3 | U | 0.5 | 2.3 | 5.9 |
| 79-01-6 | Trichloroethene | | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 75-27-4 | Bromodichloromethane | | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <12 | ~~U~~ | 4.2 | 12 | 29 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <12 | ~~UQ~~ | 4.0 | 12 | 29 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <2.3 | ~~U~~ | 0.5 | 2.3 | 5.9 |
| 108-88-3 | Toluene | | 1 | <2.3 | U | 0.5 | 2.3 | 5.9 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <2.3 | ~~U~~ | 0.5 | 2.3 | 5.9 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <2.3 | U | 0.7 | 2.3 | 5.9 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS29-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-12 | File ID: | 5DH009.D |
| Sampled: | 04/07/15 11:10 | Prepared: | 04/13/15 00:00 | Analyzed: | 04/13/15 11:48 |
| Solids: | 76.57 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.56 g / 5 mL |

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 124-48-1 | Dibromochloromethane | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.3 | U | 0.8 | 2.3 | 5.9 |
| 108-90-7 | Chlorobenzene | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 100-41-4 | Ethylbenzene | 1 | <2.3 | U | 0.7 | 2.3 | 5.9 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.7 | UQ | 1.2 | 4.7 | 12 |
| 95-47-6 | o-Xylene | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 75-25-2 | Bromoform | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 100-42-5 | Styrene | 1 | <2.3 | U | 0.5 | 2.3 | 5.9 |
| 98-82-8 | Isopropylbenzene | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.3 | U | 0.5 | 2.3 | 5.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.3 | U | 1.0 | 2.3 | 5.9 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.3 | U | 0.6 | 2.3 | 5.9 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.9 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.3 | U | 0.5 | 2.3 | 5.9 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.3 | U | 1.0 | 2.3 | 5.9 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.3 | U | 1.1 | 2.3 | 5.9 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 58.7 | 70 | 119 | 74 - 133 | |
| Toluene-d8 | 58.7 | 62 | 105 | 85 - 115 | |
| 4-Bromofluorobenzene | 58.7 | 58 | 99 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 640173 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1203123 | 12.172 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1212571 | 15.607 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 614127 | 18.573 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB29-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-13
File ID: 5DH010.D
Sampled: 04/07/15 11:20
Prepared: 04/13/15 00:00
Analyzed: 04/13/15 12:19
Solids: 78.66
Preparation: EPA 5030B_MS
Initial/Final: 6.04 g / 5 mL
Batch: 5D13017
Sequence: AA33410
Calibration: 1503091
Instrument: OVGCMS5

Exclude - SSL

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.1 | U | 0.7 | 2.1 | 5.3 |
| 74-87-3 | Chloromethane | 1 | <2.1 | U | 0.7 | 2.1 | 5.3 |
| 75-01-4 | Vinyl chloride | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 74-83-9 | Bromomethane | 1 | <2.1 | U | 0.9 | 2.1 | 5.3 |
| 75-00-3 | Chloroethane | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.3 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.1 | U | 0.6 | 2.1 | 5.3 |
| 76-13-1 | Freon 113 | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.3 |
| 67-64-1 | Acetone | 1 | 46 | Q | 4.0 | 13 | 26 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.1 | U | 0.7 | 2.1 | 5.3 |
| 75-15-0 | Carbon disulfide | 1 | <11 | U | 2.2 | 11 | 26 |
| 75-09-2 | Methylene Chloride | 1 | <5.3 | U | 0.8 | 5.3 | 26 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.1 | U | 0.3 | 2.1 | 5.3 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.1 | U | 0.7 | 2.1 | 5.3 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.3 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.1 | U | 0.6 | 2.1 | 5.3 |
| 78-93-3 | 2-Butanone | 1 | <11 | U | 2.1 | 11 | 26 |
| 67-66-3 | Chloroform | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.3 |
| 74-97-5 | Bromochloromethane | 1 | <2.1 | UQ | 0.8 | 2.1 | 5.3 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.1 | UQ | 0.4 | 2.1 | 5.3 |
| 79-20-9 | Methyl acetate | 1 | <2.1 | UQ | 1.7 | 2.1 | 5.3 |
| 110-82-7 | Cyclohexane | 1 | <2.1 | U | 0.6 | 2.1 | 5.3 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.3 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.1 | U | 0.6 | 2.1 | 5.3 |
| 71-43-2 | Benzene | 1 | <2.1 | U | 0.4 | 2.1 | 5.3 |
| 79-01-6 | Trichloroethene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.1 | U | 0.6 | 2.1 | 5.3 |
| 75-27-4 | Bromodichloromethane | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <11 | U | 3.8 | 11 | 26 |
| 591-78-6 | 2-Hexanone | 1 | <11 | UQ | 3.6 | 11 | 26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.1 | U | 0.4 | 2.1 | 5.3 |
| 108-88-3 | Toluene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.1 | U | 0.6 | 2.1 | 5.3 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB29-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-13 | File ID: | 5DH010.D |
| Sampled: | 04/07/15 11:20 | Prepared: | 04/13/15 00:00 | Analyzed: | 04/13/15 12:19 |
| Solids: | 78.66 | Preparation: | EPA 5030B_MS | Initial/Final: | 6.04 g / 5 mL |

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene Exclude - SSL | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 124-48-1 | Dibromochloromethane | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.1 | U | 0.7 | 2.1 | 5.3 |
| 108-90-7 | Chlorobenzene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 100-41-4 | Ethylbenzene | 1 | <2.1 | U | 0.6 | 2.1 | 5.3 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.2 | UQ | 1.0 | 4.2 | 11 |
| 95-47-6 | o-Xylene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 75-25-2 | Bromoform | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 100-42-5 | Styrene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 98-82-8 | Isopropylbenzene | 1 | <2.1 | U | 0.6 | 2.1 | 5.3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.1 | U | 0.9 | 2.1 | 5.3 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.1 | U | 0.5 | 2.1 | 5.3 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.1 | U | 0.9 | 2.1 | 5.3 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.1 | U | 1.0 | 2.1 | 5.3 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 52.6 | 52 | 100 | 74 - 133 | |
| Toluene-d8 | 52.6 | 46 | 88 | 85 - 115 | |
| 4-Bromofluorobenzene | 52.6 | 41 | 78 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 667424 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1273152 | 12.173 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1201091 | 15.607 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 549900 | 18.573 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB29-0H02-0415

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil | Laboratory ID: A502126-13RE1 | File ID: 5DK020.D

Sampled: 04/07/15 11:20 | Prepared: 04/16/15 00:00 | Analyzed: 04/16/15 17:46

Solids: 78.66 | Preparation: EPA 5030B_MS | Initial/Final: 5.81 g / 5 mL

Batch: 5D16007 | Sequence: AA33466 | Calibration: 1503091 | Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 74-87-3 | Chloromethane | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-01-4 | Vinyl chloride | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 74-83-9 | Bromomethane | | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.6 | 2.2 | 5.5 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 76-13-1 | Freon 113 | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 67-64-1 | Acetone | J - ICB | 1 | 63 | ~~Q~~ | 4.2 | 14 | 27 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-15-0 | Carbon disulfide | | 1 | <11 | U | 2.3 | 11 | 27 |
| 75-09-2 | Methylene Chloride | B - MBL | 1 | 13 | ~~JBQ~~ | 0.9 | 5.5 | 27 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.2 | U | 0.3 | 2.2 | 5.5 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.2 | U | 0.8 | 2.2 | 5.5 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <11 | ~~U~~ | 2.2 | 11 | 27 |
| 67-66-3 | Chloroform | | 1 | <2.2 | U~~Q~~ | 0.5 | 2.2 | 5.5 |
| 74-97-5 | Bromochloromethane | | 1 | <2.2 | U | 0.8 | 2.2 | 5.5 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <2.2 | U | 0.4 | 2.2 | 5.5 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <2.2 | ~~U~~ | 1.8 | 2.2 | 5.5 |
| 110-82-7 | Cyclohexane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.6 | 2.2 | 5.5 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 71-43-2 | Benzene | | 1 | <2.2 | U | 0.4 | 2.2 | 5.5 |
| 79-01-6 | Trichloroethene | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-27-4 | Bromodichloromethane | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <11 | ~~U~~ | 3.9 | 11 | 27 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <11 | ~~U~~ | 3.7 | 11 | 27 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.5 | 2.2 | 5.5 |
| 108-88-3 | Toluene | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.5 | 2.2 | 5.5 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB29-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-13RE1 | File ID: | 5DK020.D |
| Sampled: | 04/07/15 11:20 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 17:46 |
| Solids: | 78.66 | Preparation: | EPA 5030B_MS | Initial/Final: | 5.81 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 124-48-1 | Dibromochloromethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 108-90-7 | Chlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 100-41-4 | Ethylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.4 | U | 1.1 | 4.4 | 11 |
| 95-47-6 | o-Xylene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-25-2 | Bromoform | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 100-42-5 | Styrene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 98-82-8 | Isopropylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 54.7 | 72 | 132 | 74 - 133 | |
| Toluene-d8 | 54.7 | 60 | 110 | 85 - 115 | |
| 4-Bromofluorobenzene | 54.7 | 49 | 90 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 464921 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 927016 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1065306 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 568394 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

**YS25-SS30-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-14 | File ID: | 5DH011.D |
| Sampled: | 04/07/15 12:10 | Prepared: | 04/13/15 00:00 | Analyzed: | 04/13/15 12:50 |
| Solids: | 90.48 | Preparation: | EPA 5030B_MS | Initial/Final: | 4.7 g / 5 mL |

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | UL - SSL | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 74-87-3 | Chloromethane | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-01-4 | Vinyl chloride | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 74-83-9 | Bromomethane | | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <2.2 | ~~UQ~~ | 0.6 | 2.2 | 5.5 |
| 75-69-4 | Trichlorofluoromethane | UL - SSL | 1 | <2.2 | ~~U~~ | 0.6 | 2.2 | 5.5 |
| 76-13-1 | Freon 113 | UL - SSL | 1 | <2.2 | ~~UQ~~ | 0.7 | 2.2 | 5.5 |
| 67-64-1 | Acetone | J - ICB | 1 | 13 | ~~JQ~~ | 4.2 | 14 | 28 |
| 75-35-4 | 1,1-Dichloroethene | UL - SSL | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-15-0 | Carbon disulfide | | 1 | <11 | U | 2.3 | 11 | 28 |
| 75-09-2 | Methylene Chloride | | 1 | <5.5 | U | 0.9 | 5.5 | 28 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.2 | U | 0.3 | 2.2 | 5.5 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.2 | U | 0.8 | 2.2 | 5.5 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.2 | UQ | 0.6 | 2.2 | 5.5 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <11 | ~~U~~ | 2.2 | 11 | 28 |
| 67-66-3 | Chloroform | UL - SSL | 1 | <2.2 | UQ | 0.5 | 2.2 | 5.5 |
| 74-97-5 | Bromochloromethane | | 1 | <2.2 | UQ | 0.8 | 2.2 | 5.5 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <2.2 | UQ | 0.4 | 2.2 | 5.5 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <2.2 | ~~UQ~~ | 1.8 | 2.2 | 5.5 |
| 110-82-7 | Cyclohexane | UL - SSL | 1 | <2.2 | ~~U~~ | 0.6 | 2.2 | 5.5 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.6 | 2.2 | 5.5 |
| 56-23-5 | Carbon Tetrachloride | UL - SSL | 1 | <2.2 | UQ | 0.7 | 2.2 | 5.5 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 71-43-2 | Benzene | | 1 | <2.2 | U | 0.4 | 2.2 | 5.5 |
| 79-01-6 | Trichloroethene | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-27-4 | Bromodichloromethane | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <11 | ~~U~~ | 4.0 | 11 | 28 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <11 | ~~UQ~~ | 3.8 | 11 | 28 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.5 | 2.2 | 5.5 |
| 108-88-3 | Toluene | UL - SSL | 1 | <2.2 | ~~U~~ | 0.5 | 2.2 | 5.5 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.5 | 2.2 | 5.5 |
| 79-00-5 | 1,1,2-Trichloroethane | UL - SSL | 1 | <2.2 | ~~U~~ | 0.7 | 2.2 | 5.5 |

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# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

**YS25-SS30-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-14 | File ID: | 5DH011.D |
| Sampled: | 04/07/15 12:10 | Prepared: | 04/13/15 00:00 | Analyzed: | 04/13/15 12:50 |
| Solids: | 90.48 | Preparation: | EPA 5030B_MS | Initial/Final: | 4.7 g / 5 mL |

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene UL - SSL | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 124-48-1 | Dibromochloromethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 108-90-7 | Chlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 100-41-4 | Ethylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.4 | UQ | 1.1 | 4.4 | 11 |
| 95-47-6 | o-Xylene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-25-2 | Bromoform | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 100-42-5 | Styrene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 98-82-8 | Isopropylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 58.8 | 57 | 97 | 74 - 133 | |
| Toluene-d8 | 58.8 | 51 | 87 | 85 - 115 | |
| 4-Bromofluorobenzene | 58.8 | 44 | 75 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 727404 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1363838 | 12.172 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1261291 | 15.607 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 529639 | 18.573 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

**YS25-SS30-0415**

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-14RE1 | File ID: | 5DK021.D |
| Sampled: | 04/07/15 12:10 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 18:17 |
| Solids: | 90.48 | Preparation: | EPA 5030B_MS | Initial/Final: | 4.72 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 74-87-3 | Chloromethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-01-4 | Vinyl chloride | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 74-83-9 | Bromomethane | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |
| 75-00-3 | Chloroethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 76-13-1 | Freon 113 | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 67-64-1 | Acetone | 1 | 26 | JQ | 4.2 | 14 | 28 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-15-0 | Carbon disulfide | 1 | <11 | U | 2.3 | 11 | 28 |
| 75-09-2 | Methylene Chloride | 1 | 28 | BQ | 0.9 | 5.5 | 28 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.2 | U | 0.3 | 2.2 | 5.5 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.2 | U | 0.8 | 2.2 | 5.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 78-93-3 | 2-Butanone | 1 | <11 | U | 2.2 | 11 | 28 |
| 67-66-3 | Chloroform | 1 | <2.2 | UQ | 0.5 | 2.2 | 5.5 |
| 74-97-5 | Bromochloromethane | 1 | <2.2 | U | 0.8 | 2.2 | 5.5 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.2 | U | 0.4 | 2.2 | 5.5 |
| 79-20-9 | Methyl acetate | 1 | <2.2 | U | 1.8 | 2.2 | 5.5 |
| 110-82-7 | Cyclohexane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 71-43-2 | Benzene | 1 | <2.2 | U | 0.4 | 2.2 | 5.5 |
| 79-01-6 | Trichloroethene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-27-4 | Bromodichloromethane | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <11 | U | 4.0 | 11 | 28 |
| 591-78-6 | 2-Hexanone | 1 | <11 | U | 3.8 | 11 | 28 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 108-88-3 | Toluene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SS30-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-14RE1 | File ID: | 5DK021.D |
| Sampled: | 04/07/15 12:10 | Prepared: | 04/16/15 00:00 | Analyzed: | 04/16/15 18:17 |
| Solids: | 90.48 | Preparation: | EPA 5030B_MS | Initial/Final: | 4.72 g / 5 mL |

Batch: 5D16007 Sequence: AA33466 Calibration: 1503091 Instrument: OVGCMS5

Exclude - RE

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 124-48-1 | Dibromochloromethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 108-90-7 | Chlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 100-41-4 | Ethylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.4 | U | 1.1 | 4.4 | 11 |
| 95-47-6 | o-Xylene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-25-2 | Bromoform | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 100-42-5 | Styrene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 98-82-8 | Isopropylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 58.5 | 61 | 105 | 74 - 133 | |
| Toluene-d8 | 58.5 | 52 | 88 | 85 - 115 | |
| 4-Bromofluorobenzene | 58.5 | 40 | 68 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 538673 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1050275 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1035709 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 403415 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB30-0H02-0415

| | | | |
|---|---|---|---|
| Laboratory: | ENCO Orlando | SDG: | A502126-CTOWE19 |
| Client: | CH2M Hill, Inc. (CH025) | Project: | CTO-WE19 Yorktown Site 25-SOILS |

| | | | | | |
|---|---|---|---|---|---|
| Matrix: | Soil | Laboratory ID: | A502126-15 | File ID: | 5DH012.D |
| Sampled: | 04/07/15 12:20 | Prepared: | 04/13/15 00:00 | Analyzed: | 04/13/15 13:21 |
| Solids: | 90.84 | Preparation: | EPA 5030B_MS | Initial/Final: | 4.96 g / 5 mL |

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 74-87-3 | Chloromethane | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-01-4 | Vinyl chloride | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 74-83-9 | Bromomethane | | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <2.2 | ~~UQ~~ | 0.6 | 2.2 | 5.5 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 76-13-1 | Freon 113 | | 1 | <2.2 | UQ | 0.7 | 2.2 | 5.5 |
| 67-64-1 | Acetone | J - ICB | 1 | 82 | ~~Q~~ | 4.2 | 14 | 28 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-15-0 | Carbon disulfide | | 1 | <11 | U | 2.3 | 11 | 28 |
| 75-09-2 | Methylene Chloride | | 1 | <5.5 | U | 0.9 | 5.5 | 28 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.2 | U | 0.3 | 2.2 | 5.5 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.2 | U | 0.8 | 2.2 | 5.5 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.2 | UQ | 0.6 | 2.2 | 5.5 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 78-93-3 | 2-Butanone | J - ICL | 1 | 4.7 | ~~J~~ | 2.2 | 11 | 28 |
| 67-66-3 | Chloroform | | 1 | <2.2 | UQ | 0.5 | 2.2 | 5.5 |
| 74-97-5 | Bromochloromethane | | 1 | <2.2 | UQ | 0.8 | 2.2 | 5.5 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <2.2 | UQ | 0.4 | 2.2 | 5.5 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <2.2 | ~~UQ~~ | 1.8 | 2.2 | 5.5 |
| 110-82-7 | Cyclohexane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.6 | 2.2 | 5.5 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <2.2 | UQ | 0.7 | 2.2 | 5.5 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 71-43-2 | Benzene | | 1 | <2.2 | U | 0.4 | 2.2 | 5.5 |
| 79-01-6 | Trichloroethene | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-27-4 | Bromodichloromethane | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <11 | ~~U~~ | 4.0 | 11 | 28 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <11 | ~~UQ~~ | 3.7 | 11 | 28 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.5 | 2.2 | 5.5 |
| 108-88-3 | Toluene | | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <2.2 | ~~U~~ | 0.5 | 2.2 | 5.5 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-SB30-0H02-0415

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil
Laboratory ID: A502126-15
File ID: 5DH012.D
Sampled: 04/07/15 12:20
Prepared: 04/13/15 00:00
Analyzed: 04/13/15 13:21
Solids: 90.84
Preparation: EPA 5030B_MS
Initial/Final: 4.96 g / 5 mL
Batch: 5D13017
Sequence: AA33410
Calibration: 1503091
Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 124-48-1 | Dibromochloromethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 108-90-7 | Chlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 100-41-4 | Ethylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.4 | U~~Q~~ | 1.1 | 4.4 | 11 |
| 95-47-6 | o-Xylene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-25-2 | Bromoform | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 100-42-5 | Styrene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 98-82-8 | Isopropylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 55.5 | 63 | 114 | 74 - 133 | |
| Toluene-d8 | 55.5 | 55 | 98 | 85 - 115 | |
| 4-Bromofluorobenzene | 55.5 | 47 | 85 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 643570 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1225855 | 12.173 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1140242 | 15.607 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 473035 | 18.574 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-EB040715-SO

Laboratory: ENCO Orlando SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A502126-16 File ID: 5DJ019.D

Sampled: 04/07/15 14:00 Prepared: 04/15/15 00:00 Analyzed: 04/15/15 16:50

Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 5D15034 Sequence: AA33460 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 1 | <1.0 | U | 0.74 | 1.0 | 2.0 |
| 74-87-3 | Chloromethane | | 1 | <1.0 | U | 0.82 | 1.0 | 2.0 |
| 75-01-4 | Vinyl chloride | | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 |
| 74-83-9 | Bromomethane | | 1 | <1.0 | U | 0.95 | 1.0 | 2.0 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.0 | ~~UQ~~ | 0.98 | 1.0 | 2.0 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 |
| 76-13-1 | Freon 113 | | 1 | <1.0 | UQ | 0.73 | 1.0 | 2.0 |
| 67-64-1 | Acetone | UJ - ICB | 1 | <12 | ~~UQ~~ | 5.0 | 12 | 25 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 |
| 75-15-0 | Carbon disulfide | | 1 | <5.0 | U | 2.6 | 5.0 | 10 |
| 75-09-2 | Methylene Chloride | | 1 | <5.0 | U | 2.0 | 5.0 | 10 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.0 | U | 0.60 | 1.0 | 2.0 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.0 | U | 0.62 | 1.0 | 2.0 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <12 | U | 4.5 | 12 | 25 |
| 67-66-3 | Chloroform | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 74-97-5 | Bromochloromethane | | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.0 | UQ | 0.95 | 1.0 | 2.0 |
| 110-82-7 | Cyclohexane | | 1 | <1.0 | U | 0.93 | 1.0 | 2.0 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.0 | ~~U~~ | 0.64 | 1.0 | 2.0 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.0 | U | 0.63 | 1.0 | 2.0 |
| 71-43-2 | Benzene | | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 |
| 79-01-6 | Trichloroethene | | 1 | <1.0 | U | 0.89 | 1.0 | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.0 | U | 0.52 | 1.0 | 2.0 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <2.5 | ~~U~~ | 0.79 | 2.5 | 5.0 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <2.5 | ~~UQ~~ | 1.4 | 2.5 | 5.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.0 | ~~U~~ | 0.59 | 1.0 | 2.0 |
| 108-88-3 | Toluene | | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.0 | ~~U~~ | 0.73 | 1.0 | 2.0 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-EB040715-SO

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water | Laboratory ID: A502126-16 | File ID: 5DJ019.D

Sampled: 04/07/15 14:00 | Prepared: 04/15/15 00:00 | Analyzed: 04/15/15 16:50

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 5D15034 | Sequence: AA33460 | Calibration: 1503091 | Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 124-48-1 | Dibromochloromethane | 1 | <1.0 | U | 0.44 | 1.0 | 2.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.0 | U | 0.78 | 1.0 | 2.0 |
| 108-90-7 | Chlorobenzene | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 |
| 100-41-4 | Ethylbenzene | 1 | <1.0 | U | 0.69 | 1.0 | 2.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <2.0 | U | 1.3 | 2.0 | 4.0 |
| 95-47-6 | o-Xylene | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 |
| 75-25-2 | Bromoform | 1 | <1.0 | U | 0.75 | 1.0 | 2.0 |
| 100-42-5 | Styrene | 1 | <1.0 | U | 0.61 | 1.0 | 2.0 |
| 98-82-8 | Isopropylbenzene | 1 | <1.0 | U | 0.67 | 1.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.0 | U | 0.54 | 1.0 | 2.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.0 | U | 0.70 | 1.0 | 2.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.0 | U | 0.77 | 1.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <5.0 | U | 0.96 | 5.0 | 10 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.0 | U | 0.86 | 1.0 | 2.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 50.0 | 55 | 110 | 85 - 115 | |
| 1,2-Dichloroethane-d4 | 50.0 | 43 | 86 | 70 - 120 | |
| Toluene-d8 | 50.0 | 49 | 98 | 85 - 120 | |
| 4-Bromofluorobenzene | 50.0 | 44 | 88 | 75 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 539125 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1041392 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1084750 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 562618 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

HK 7/15/2015

# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-TB02-040715

Laboratory: ENCO Orlando | SDG: A502126-CTOWE19

Client: CH2M Hill, Inc. (CH025) | Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water | Laboratory ID: A502126-17 | File ID: 5DJ020.D

Sampled: 04/07/15 14:15 | Prepared: 04/15/15 00:00 | Analyzed: 04/15/15 17:21

Solids: | Preparation: EPA 5030B_MS | Initial/Final: 5 mL / 5 mL

Batch: 5D15034 | Sequence: AA33460 | Calibration: 1503091 | Instrument: OVGCMS5

| CAS NO. | COMPOUND | | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | | 1 | <1.0 | U | 0.74 | 1.0 | 2.0 |
| 74-87-3 | Chloromethane | | 1 | <1.0 | U | 0.82 | 1.0 | 2.0 |
| 75-01-4 | Vinyl chloride | | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 |
| 74-83-9 | Bromomethane | | 1 | <1.0 | U | 0.95 | 1.0 | 2.0 |
| 75-00-3 | Chloroethane | UJ - ICB | 1 | <1.0 | ~~UQ~~ | 0.98 | 1.0 | 2.0 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 |
| 76-13-1 | Freon 113 | | 1 | <1.0 | UQ | 0.73 | 1.0 | 2.0 |
| 67-64-1 | Acetone | UJ - ICB | 1 | <12 | ~~UQ~~ | 5.0 | 12 | 25 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 |
| 75-15-0 | Carbon disulfide | | 1 | <5.0 | U | 2.6 | 5.0 | 10 |
| 75-09-2 | Methylene Chloride | | 1 | <5.0 | U | 2.0 | 5.0 | 10 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.0 | U | 0.60 | 1.0 | 2.0 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.0 | U | 0.62 | 1.0 | 2.0 |
| 78-93-3 | 2-Butanone | UJ - ICL | 1 | <12 | ~~U~~ | 4.5 | 12 | 25 |
| 67-66-3 | Chloroform | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 74-97-5 | Bromochloromethane | | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 79-20-9 | Methyl acetate | UJ - 2S | 1 | <1.0 | ~~UQ~~ | 0.95 | 1.0 | 2.0 |
| 110-82-7 | Cyclohexane | | 1 | <1.0 | U | 0.93 | 1.0 | 2.0 |
| 108-87-2 | Methyl cyclohexane | UJ - ICB | 1 | <1.0 | ~~U~~ | 0.64 | 1.0 | 2.0 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.0 | U | 0.63 | 1.0 | 2.0 |
| 71-43-2 | Benzene | | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 |
| 79-01-6 | Trichloroethene | | 1 | <1.0 | U | 0.89 | 1.0 | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.0 | U | 0.52 | 1.0 | 2.0 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ - ICL | 1 | <2.5 | ~~U~~ | 0.79 | 2.5 | 5.0 |
| 591-78-6 | 2-Hexanone | UJ - ICB | 1 | <2.5 | UQ | 1.4 | 2.5 | 5.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | UJ - ICB | 1 | <1.0 | U | 0.59 | 1.0 | 2.0 |
| 108-88-3 | Toluene | | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | UJ - ICB | 1 | <1.0 | ~~U~~ | 0.73 | 1.0 | 2.0 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |

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# ORGANIC ANALYSIS DATA SHEET

## EPA 8260B

YS25-TB02-040715

Laboratory: ENCO Orlando
SDG: A502126-CTOWE19
Client: CH2M Hill, Inc. (CH025)
Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water
Laboratory ID: A502126-17
File ID: 5DJ020.D
Sampled: 04/07/15 14:15
Prepared: 04/15/15 00:00
Analyzed: 04/15/15 17:21
Solids:
Preparation: EPA 5030B_MS
Initial/Final: 5 mL / 5 mL
Batch: 5D15034
Sequence: AA33460
Calibration: 1503091
Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|---|---|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 124-48-1 | Dibromochloromethane | 1 | <1.0 | U | 0.44 | 1.0 | 2.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.0 | U | 0.78 | 1.0 | 2.0 |
| 108-90-7 | Chlorobenzene | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 |
| 100-41-4 | Ethylbenzene | 1 | <1.0 | U | 0.69 | 1.0 | 2.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <2.0 | U | 1.3 | 2.0 | 4.0 |
| 95-47-6 | o-Xylene | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 |
| 75-25-2 | Bromoform | 1 | <1.0 | U | 0.75 | 1.0 | 2.0 |
| 100-42-5 | Styrene | 1 | <1.0 | U | 0.61 | 1.0 | 2.0 |
| 98-82-8 | Isopropylbenzene | 1 | <1.0 | U | 0.67 | 1.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.0 | U | 0.54 | 1.0 | 2.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.0 | U | 0.70 | 1.0 | 2.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.0 | U | 0.77 | 1.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <5.0 | U | 0.96 | 5.0 | 10 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.0 | U | 0.86 | 1.0 | 2.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|---|---|---|---|---|---|
| Dibromofluoromethane | 50.0 | 55 | 110 | 85 - 115 | |
| 1,2-Dichloroethane-d4 | 50.0 | 41 | 83 | 70 - 120 | |
| Toluene-d8 | 50.0 | 48 | 96 | 85 - 120 | |
| 4-Bromofluorobenzene | 50.0 | 44 | 88 | 75 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|---|---|---|---|---|---|
| Pentafluorobenzene | 536950 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1047833 | 12.189 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1087409 | 15.624 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 561496 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

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