



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 14-0429
Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

September 16, 2014

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 14-0429, Cabot Carbon/Koppers
Superfund Remedial

FROM: Kristin Trapp
OCS Analyst

THRU: Floyd Wellborn, Chief
ASB Organic Chemistry Section

TO: Scott Miller

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd

Analyses Included in this report:

Method Used:

Accreditations:

Volatile Organics (VOA)

Volatile organic compounds

EPA 8260C (Water)

ISO



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Report Narrative for Project: 14-0429

09/16/14 KT VOA: The following VOA water sample was received at a pH>2 but was analyzed within the method defined holding time of 7 days for unpreserved samples: E143506-05.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 14-0429, Cabot Carbon/Koppers

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
TB01	E143506-01	Trip Blank - Water	8/25/14 13:00	8/28/14 10:16
HG26D	E143506-02	Groundwater	8/26/14 16:00	8/28/14 10:16
HG26S	E143506-03	Groundwater	8/26/14 14:30	8/28/14 10:16
HG28S	E143506-04	Groundwater	8/26/14 09:30	8/28/14 10:16
HG30S	E143506-05	Groundwater	8/26/14 11:30	8/28/14 10:16
HG31D	E143506-06	Groundwater	8/25/14 13:30	8/28/14 10:16
ITW01	E143506-07	Groundwater	8/26/14 11:30	8/28/14 10:16
ITW02	E143506-08	Groundwater	8/26/14 11:30	8/28/14 10:16
WMW17E	E143506-09	Groundwater	8/26/14 15:00	8/28/14 10:16
WMW18E	E143506-10	Groundwater	8/26/14 16:45	8/28/14 10:16
TB02	E143510-01	Trip Blank - Water	8/27/14 09:00	8/29/14 10:08
TB03	E143510-02	Trip Blank - Water	8/27/14 09:00	8/29/14 10:08
ESE002	E143510-03	Groundwater	8/27/14 12:30	8/29/14 10:08
ESE004	E143510-04	Groundwater	8/27/14 10:00	8/29/14 10:08
ESE007	E143510-05	Groundwater	8/27/14 15:00	8/29/14 10:08
HG20D	E143510-06	Groundwater	8/27/14 16:30	8/29/14 10:08
HG20S	E143510-07	Groundwater	8/27/14 15:30	8/29/14 10:08
HG26DH	E143510-08	Groundwater	8/26/14 16:00	8/29/14 10:08
HG28D	E143510-09	Groundwater	8/28/14 12:00	8/29/14 10:08
HG29D	E143510-10	Groundwater	8/27/14 10:00	8/29/14 10:08
HG929D	E143510-11	Groundwater	8/27/14 10:10	8/29/14 10:08
HD29S	E143510-12	Groundwater	8/27/14 12:00	8/29/14 10:08
HG30D	E143510-13	Groundwater	8/28/14 10:00	8/29/14 10:08
ITW13	E143510-14	Groundwater	8/28/14 10:00	8/29/14 10:08
ITW14	E143510-15	Groundwater	8/28/14 11:30	8/29/14 10:08



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
C-6	Sample aliquot taken from VOA vial with headspace (air bubble greater than 5-6 mm diameter).
D-2	Due to Matrix Interference, the sample cannot be accurately quantified. The reported result is estimated.
D-4	MRL elevated due to interferences.
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
Q-2	Result greater than MDL but less than MRL.
QC-1	Analyte concentration low in continuing calibration verification standard
QL-1	Laboratory Control Spike Recovery less than method control limits
QR-1	MRL verification recovery less than lower control limits.
T-0	No temperature blank present for cooler this sample was received in.
T-1	Sample received in cooler with temperature blank greater than 6 degrees C.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **TB01**

Lab ID: **E143506-01**

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/25/14 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, QR-1, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
67-64-1	Acetone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
71-43-2	Benzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: TB01

Lab ID: E143506-01

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/25/14 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 12:59	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
95-47-6	o-Xylene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **TB01**

Lab ID: **E143506-01**

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/25/14 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
100-42-5	Styrene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
108-88-3	Toluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 12:59	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, T-1	ug/L	10	8/29/14 11:42	8/29/14 12:59	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG26D

Lab ID: E143506-02

Station ID: HG26D

Matrix: Groundwater

Date Collected: 8/26/14 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	20	T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, QR-1, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	12	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	4.1	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
67-64-1	Acetone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
71-43-2	Benzene	19	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG26D

Lab ID: E143506-02

Station ID: HG26D

Matrix: Groundwater

Date Collected: 8/26/14 16:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
100-41-4	Ethyl Benzene	16	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
98-82-8	Isopropylbenzene	1.1	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:36	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
103-65-1	n-Propylbenzene	0.42	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
95-47-6	o-Xylene	11	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C



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 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG26D

Lab ID: E143506-02

Station ID: HG26D

Matrix: Groundwater

Date Collected: 8/26/14 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
99-87-6	p-Isopropyltoluene	1.0	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
100-42-5	Styrene	0.70	U, D-4, T-1	ug/L	0.70	8/29/14 11:42	8/29/14 19:36	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
108-88-3	Toluene	12	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:36	EPA 8260C
Tentatively Identified Compounds:								
R4-8000002	Benzothiophene (TIC)	70	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 19:36	EPA 8260C
R4-7520	Indane (TIC)	200	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 19:36	EPA 8260C
R4-7519	Indene (TIC)	30	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 19:36	EPA 8260C



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D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG26S

Lab ID: E143506-03

Station ID: HG26S

Matrix: Groundwater

Date Collected: 8/26/14 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	13	T-1	ug/L	1.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, QR-1, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	28	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	3.2	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
67-64-1	Acetone	5.5	T-1	ug/L	4.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
71-43-2	Benzene	28	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C



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 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG26S

Lab ID: E143506-03

Station ID: HG26S

Matrix: Groundwater

Date Collected: 8/26/14 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
110-82-7	Cyclohexane	0.46	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
100-41-4	Ethyl Benzene	23	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
98-82-8	Isopropylbenzene	3.4	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	0.43	J, Q-2, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 20:02	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
108-87-2	Methylcyclohexane	0.36	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
103-65-1	n-Propylbenzene	2.1	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
95-47-6	o-Xylene	20	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG26S**

Lab ID: **E143506-03**

Station ID: **HG26S**

Matrix: Groundwater

Date Collected: 8/26/14 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
99-87-6	p-Isopropyltoluene	6.0	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
135-98-8	sec-Butylbenzene	0.22	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
100-42-5	Styrene	0.64	U, D-4, T-1	ug/L	0.64	8/29/14 11:42	8/29/14 20:02	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
108-88-3	Toluene	3.7	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 20:02	EPA 8260C
Tentatively Identified Compounds:								
R4-8000002	Benzothiophene (TIC)	70	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 20:02	EPA 8260C
R4-7520	Indane (TIC)	200	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 20:02	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG28S**

Lab ID: **E143506-04**

Station ID: **HG28S**

Matrix: Groundwater

Date Collected: 8/26/14 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	150	T-1	ug/L	25	8/29/14 11:42	8/29/14 20:55	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
71-55-6	1,1,1-Trichloroethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
79-00-5	1,1,2-Trichloroethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-34-3	1,1-Dichloroethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
563-58-6	1,1-Dichloropropene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	12	U, J, QR-1, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
96-18-4	1,2,3-Trichloropropane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	28	T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	25	U, T-1	ug/L	25	8/29/14 11:42	8/29/14 20:55	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
95-50-1	1,2-Dichlorobenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
107-06-2	1,2-Dichloroethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
78-87-5	1,2-Dichloropropane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
541-73-1	1,3-Dichlorobenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
142-28-9	1,3-Dichloropropane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
106-46-7	1,4-Dichlorobenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
594-20-7	2,2-Dichloropropane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
67-64-1	Acetone	28000	T-1	ug/L	1000	8/29/14 11:42	8/29/14 13:52	EPA 8260C
71-43-2	Benzene	190	T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
108-86-1	Bromobenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
74-97-5	Bromochloromethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG28S**

Lab ID: **E143506-04**

Station ID: **HG28S**

Matrix: Groundwater

Date Collected: 8/26/14 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-25-2	Bromoform	25	U, T-1	ug/L	25	8/29/14 11:42	8/29/14 20:55	EPA 8260C
74-83-9	Bromomethane	50	U, T-1	ug/L	50	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-15-0	Carbon disulfide	50	U, T-1	ug/L	50	8/29/14 11:42	8/29/14 20:55	EPA 8260C
56-23-5	Carbon Tetrachloride	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
108-90-7	Chlorobenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-00-3	Chloroethane	50	U, T-1	ug/L	50	8/29/14 11:42	8/29/14 20:55	EPA 8260C
67-66-3	Chloroform	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
74-87-3	Chloromethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
110-82-7	Cyclohexane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
124-48-1	Dibromochloromethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
74-95-3	Dibromomethane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
100-41-4	Ethyl Benzene	66	T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
87-68-3	Hexachlorobutadiene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
98-82-8	Isopropylbenzene	3.2	J, Q-2, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
79-20-9	Methyl Acetate	9300	T-1	ug/L	250	8/29/14 11:42	8/29/14 13:52	EPA 8260C
591-78-6	Methyl Butyl Ketone	180	T-1	ug/L	25	8/29/14 11:42	8/29/14 20:55	EPA 8260C
78-93-3	Methyl Ethyl Ketone	10000	T-1	ug/L	1000	8/29/14 11:42	8/29/14 13:52	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	80	T-1	ug/L	25	8/29/14 11:42	8/29/14 20:55	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
108-87-2	Methylcyclohexane	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-09-2	Methylene Chloride	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
104-51-8	n-Butylbenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
103-65-1	n-Propylbenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
95-49-8	o-Chlorotoluene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
95-47-6	o-Xylene	50	T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C



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 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG28S**

Lab ID: **E143506-04**

Station ID: **HG28S**

Matrix: Groundwater

Date Collected: 8/26/14 9:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
106-43-4	p-Chlorotoluene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
99-87-6	p-Isopropyltoluene	120	T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
135-98-8	sec-Butylbenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
100-42-5	Styrene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
98-06-6	tert-Butylbenzene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
108-88-3	Toluene	840	T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
75-01-4	Vinyl chloride	12	U, T-1	ug/L	12	8/29/14 11:42	8/29/14 20:55	EPA 8260C
Tentatively Identified Compounds:								
R4-8000435	Methylbutanone (TIC)	800	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 20:55	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG30S**

Lab ID: **E143506-05**

Station ID: **HG30S**

Matrix: Groundwater

Date Collected: 8/26/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	48	T-1	ug/L	5.0	8/29/14 11:42	8/29/14 20:28	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
71-55-6	1,1,1-Trichloroethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
79-00-5	1,1,2-Trichloroethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-34-3	1,1-Dichloroethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
563-58-6	1,1-Dichloropropene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	2.5	U, J, QR-1, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
96-18-4	1,2,3-Trichloropropane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	3.7	T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U, T-1	ug/L	5.0	8/29/14 11:42	8/29/14 20:28	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
95-50-1	1,2-Dichlorobenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
107-06-2	1,2-Dichloroethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
78-87-5	1,2-Dichloropropane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
541-73-1	1,3-Dichlorobenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
142-28-9	1,3-Dichloropropane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
106-46-7	1,4-Dichlorobenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
594-20-7	2,2-Dichloropropane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
67-64-1	Acetone	9100	T-1	ug/L	200	8/29/14 11:42	8/29/14 14:18	EPA 8260C
71-43-2	Benzene	130	T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
108-86-1	Bromobenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
74-97-5	Bromochloromethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG30S

Lab ID: E143506-05

Station ID: HG30S

Matrix: Groundwater

Date Collected: 8/26/14 11:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-25-2	Bromoform	5.0	U, T-1	ug/L	5.0	8/29/14 11:42	8/29/14 20:28	EPA 8260C
74-83-9	Bromomethane	10	U, T-1	ug/L	10	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-15-0	Carbon disulfide	10	U, T-1	ug/L	10	8/29/14 11:42	8/29/14 20:28	EPA 8260C
56-23-5	Carbon Tetrachloride	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
108-90-7	Chlorobenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-00-3	Chloroethane	10	U, T-1	ug/L	10	8/29/14 11:42	8/29/14 20:28	EPA 8260C
67-66-3	Chloroform	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
74-87-3	Chloromethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
110-82-7	Cyclohexane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
124-48-1	Dibromochloromethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
74-95-3	Dibromomethane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
100-41-4	Ethyl Benzene	28	T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
87-68-3	Hexachlorobutadiene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
98-82-8	Isopropylbenzene	1.2	J, Q-2, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
79-20-9	Methyl Acetate	160	T-1	ug/L	5.0	8/29/14 11:42	8/29/14 20:28	EPA 8260C
591-78-6	Methyl Butyl Ketone	70	T-1	ug/L	5.0	8/29/14 11:42	8/29/14 20:28	EPA 8260C
78-93-3	Methyl Ethyl Ketone	3400	T-1	ug/L	200	8/29/14 11:42	8/29/14 14:18	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	42	T-1	ug/L	5.0	8/29/14 11:42	8/29/14 20:28	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
108-87-2	Methylcyclohexane	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-09-2	Methylene Chloride	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
104-51-8	n-Butylbenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
103-65-1	n-Propylbenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
95-49-8	o-Chlorotoluene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
95-47-6	o-Xylene	13	T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG30S**

Lab ID: **E143506-05**

Station ID: **HG30S**

Matrix: Groundwater

Date Collected: 8/26/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
99-87-6	p-Isopropyltoluene	5.6	T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
135-98-8	sec-Butylbenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
100-42-5	Styrene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
98-06-6	tert-Butylbenzene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
108-88-3	Toluene	480	T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
75-01-4	Vinyl chloride	2.5	U, T-1	ug/L	2.5	8/29/14 11:42	8/29/14 20:28	EPA 8260C
Tentatively Identified Compounds:								
R4-7531	Butanol (TIC)	50	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 20:28	EPA 8260C
R4-8000435	Methylbutanone (TIC)	400	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 20:28	EPA 8260C
R4-8000438	Pentanone (TIC)	70	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 20:28	EPA 8260C
R4-7525	Tetrahydrofuran (TIC)	60	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 20:28	EPA 8260C



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG31D

Lab ID: E143506-06

Station ID: HG31D

Matrix: Groundwater

Date Collected: 8/25/14 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	53	T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, QR-1, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	3.6	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.46	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
67-64-1	Acetone	250	T-1	ug/L	20	9/05/14 11:58	9/05/14 12:43	EPA 8260C
71-43-2	Benzene	130	T-1	ug/L	2.5	9/05/14 11:58	9/05/14 12:43	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C



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D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG31D

Lab ID: E143506-06

Station ID: HG31D

Matrix: Groundwater

Date Collected: 8/25/14 13:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
100-41-4	Ethyl Benzene	42	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
98-82-8	Isopropylbenzene	3.0	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
591-78-6	Methyl Butyl Ketone	3.0	T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
78-93-3	Methyl Ethyl Ketone	79	T-1	ug/L	4.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	4.0	T-1	ug/L	1.0	8/29/14 11:42	8/29/14 19:09	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
103-65-1	n-Propylbenzene	0.48	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
95-47-6	o-Xylene	16	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG31D**

Lab ID: **E143506-06**

Station ID: **HG31D**

Matrix: Groundwater

Date Collected: 8/25/14 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
99-87-6	p-Isopropyltoluene	9.3	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
100-42-5	Styrene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
108-88-3	Toluene	29	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 19:09	EPA 8260C
Tentatively Identified Compounds:								
R4-8000435	Methylbutanone (TIC)	10	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 19:09	EPA 8260C
R4-7525	Tetrahydrofuran (TIC)	50	NJ, T-1	ug/L		8/29/14 11:42	8/29/14 19:09	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW01

Lab ID: E143506-07

Station ID: ITW01

Matrix: Groundwater

Date Collected: 8/26/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, QR-1, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
67-64-1	Acetone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
71-43-2	Benzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW01

Lab ID: E143506-07

Station ID: ITW01

Matrix: Groundwater

Date Collected: 8/26/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:23	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
95-47-6	o-Xylene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C



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 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW01

Lab ID: E143506-07

Station ID: ITW01

Matrix: Groundwater

Date Collected: 8/26/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
100-42-5	Styrene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
108-88-3	Toluene	0.080	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:23	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, T-1	ug/L	10	8/29/14 11:42	8/29/14 17:23	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW02

Lab ID: E143506-08

Station ID: ITW02

Matrix: Groundwater

Date Collected: 8/26/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, QR-1, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
67-64-1	Acetone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
71-43-2	Benzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW02

Lab ID: E143506-08

Station ID: ITW02

Matrix: Groundwater

Date Collected: 8/26/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 17:50	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
95-47-6	o-Xylene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW02

Lab ID: E143506-08

Station ID: ITW02

Matrix: Groundwater

Date Collected: 8/26/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
100-42-5	Styrene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
108-88-3	Toluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 17:50	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, T-1	ug/L	10	8/29/14 11:42	8/29/14 17:50	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: WMW17E

Lab ID: E143506-09

Station ID: WMW17E

Matrix: Groundwater

Date Collected: 8/26/14 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.9	T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, QR-1, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	1.3	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.26	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
67-64-1	Acetone	6.7	T-1	ug/L	4.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
71-43-2	Benzene	1.1	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: WMW17E

Lab ID: E143506-09

Station ID: WMW17E

Matrix: Groundwater

Date Collected: 8/26/14 15:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
100-41-4	Ethyl Benzene	1.8	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
98-82-8	Isopropylbenzene	1.1	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:16	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
103-65-1	n-Propylbenzene	0.20	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
95-47-6	o-Xylene	1.8	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C



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 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: WMW17E

Lab ID: E143506-09

Station ID: WMW17E

Matrix: Groundwater

Date Collected: 8/26/14 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
99-87-6	p-Isopropyltoluene	0.35	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
100-42-5	Styrene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
108-88-3	Toluene	0.64	T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:16	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, T-1	ug/L	10	8/29/14 11:42	8/29/14 18:16	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: WMW18E

Lab ID: E143506-10

Station ID: WMW18E

Matrix: Groundwater

Date Collected: 8/26/14 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, QR-1, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
67-64-1	Acetone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
71-43-2	Benzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C



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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: WMW18E

Lab ID: E143506-10

Station ID: WMW18E

Matrix: Groundwater

Date Collected: 8/26/14 16:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-25-2	Bromoform	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-1	ug/L	2.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
67-66-3	Chloroform	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
100-41-4	Ethyl Benzene	0.27	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-1	ug/L	4.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-1	ug/L	1.0	8/29/14 11:42	8/29/14 18:43	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
95-47-6	o-Xylene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: WMW18E

Lab ID: E143506-10

Station ID: WMW18E

Matrix: Groundwater

Date Collected: 8/26/14 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
100-42-5	Styrene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
108-88-3	Toluene	0.11	J, Q-2, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-1	ug/L	0.50	8/29/14 11:42	8/29/14 18:43	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, T-1	ug/L	10	8/29/14 11:42	8/29/14 18:43	EPA 8260C



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 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **TB02**

Lab ID: **E143510-01**

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/27/14 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U, T-0	ug/L	1.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, T-0	ug/L	1.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
67-64-1	Acetone	4.0	U, T-0	ug/L	4.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
71-43-2	Benzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
108-86-1	Bromobenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **TB02**

Lab ID: **E143510-01**

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/27/14 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-25-2	Bromoform	1.0	U, T-0	ug/L	1.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
74-83-9	Bromomethane	2.0	U, T-0	ug/L	2.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, T-0	ug/L	2.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-00-3	Chloroethane	2.0	U, T-0	ug/L	2.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
67-66-3	Chloroform	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
74-87-3	Chloromethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
110-82-7	Cyclohexane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
74-95-3	Dibromomethane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, T-0	ug/L	1.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, T-0	ug/L	1.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, T-0	ug/L	4.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, T-0	ug/L	1.0	9/04/14 11:41	9/04/14 16:41	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
95-47-6	o-Xylene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **TB02**

Lab ID: **E143510-01**

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/27/14 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
100-42-5	Styrene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
108-88-3	Toluene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, T-0	ug/L	0.50	9/04/14 11:41	9/04/14 16:41	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, T-0	ug/L	10	9/04/14 11:41	9/04/14 16:41	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **TB03**

Lab ID: **E143510-02**

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/27/14 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
67-64-1	Acetone	4.0	U, J, C-6	ug/L	4.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
71-43-2	Benzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
108-86-1	Bromobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C



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D.A.R.T. Id: 14-0429

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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: TB03

Lab ID: E143510-02

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/27/14 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-25-2	Bromoform	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-00-3	Chloroethane	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
67-66-3	Chloroform	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
74-87-3	Chloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
110-82-7	Cyclohexane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
74-95-3	Dibromomethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, J, C-6	ug/L	4.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 17:07	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
95-47-6	o-Xylene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **TB03**

Lab ID: **E143510-02**

Station ID:

Matrix: Trip Blank - Water

Date Collected: 8/27/14 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
100-42-5	Styrene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
108-88-3	Toluene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 17:07	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, J, C-6	ug/L	10	9/04/14 11:41	9/04/14 17:07	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ESE002

Lab ID: E143510-03

Station ID: ESE002

Matrix: Groundwater

Date Collected: 8/27/14 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ESE002

Lab ID: E143510-03

Station ID: ESE002

Matrix: Groundwater

Date Collected: 8/27/14 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:33	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C



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 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ESE002

Lab ID: E143510-03

Station ID: ESE002

Matrix: Groundwater

Date Collected: 8/27/14 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:33	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	9/04/14 11:41	9/04/14 17:33	EPA 8260C



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 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ESE004

Lab ID: E143510-04

Station ID: ESE004

Matrix: Groundwater

Date Collected: 8/27/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C



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 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ESE004

Lab ID: E143510-04

Station ID: ESE004

Matrix: Groundwater

Date Collected: 8/27/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 17:59	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C



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 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ESE004

Lab ID: E143510-04

Station ID: ESE004

Matrix: Groundwater

Date Collected: 8/27/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 17:59	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	9/04/14 11:41	9/04/14 17:59	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **ESE007**

Lab ID: **E143510-05**

Station ID: **ESE007**

Matrix: Groundwater

Date Collected: 8/27/14 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	2.0	J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	1.2	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.13	J, Q-2, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
67-64-1	Acetone	4.0	U, J, C-6	ug/L	4.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
71-43-2	Benzene	1.4	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
108-86-1	Bromobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ESE007

Lab ID: E143510-05

Station ID: ESE007

Matrix: Groundwater

Date Collected: 8/27/14 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-25-2	Bromoform	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-00-3	Chloroethane	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
67-66-3	Chloroform	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
74-87-3	Chloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
110-82-7	Cyclohexane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
74-95-3	Dibromomethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
100-41-4	Ethyl Benzene	1.4	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
98-82-8	Isopropylbenzene	0.51	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, J, C-6	ug/L	4.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 18:25	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
103-65-1	n-Propylbenzene	0.22	J, Q-2, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
95-47-6	o-Xylene	1.0	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ESE007

Lab ID: E143510-05

Station ID: ESE007

Matrix: Groundwater

Date Collected: 8/27/14 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
99-87-6	p-Isopropyltoluene	0.11	J, Q-2, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
100-42-5	Styrene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
108-88-3	Toluene	0.63	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 18:25	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U, J, C-6	ug/L	10	9/04/14 11:41	9/04/14 18:25	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG20D

Lab ID: E143510-06

Station ID: HG20D

Matrix: Groundwater

Date Collected: 8/27/14 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	5.4		ug/L	1.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	3.1		ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.90		ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
71-43-2	Benzene	4.3		ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG20D

Lab ID: E143510-06

Station ID: HG20D

Matrix: Groundwater

Date Collected: 8/27/14 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
100-41-4	Ethyl Benzene	4.3		ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
98-82-8	Isopropylbenzene	0.26	J, Q-2	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 18:52	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
103-65-1	n-Propylbenzene	0.11	J, Q-2	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
95-47-6	o-Xylene	3.0		ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG20D

Lab ID: E143510-06

Station ID: HG20D

Matrix: Groundwater

Date Collected: 8/27/14 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
99-87-6	p-Isopropyltoluene	0.43	J, Q-2	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
108-88-3	Toluene	0.89		ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 18:52	EPA 8260C
Tentatively Identified Compounds:								
R4-8000002	Benzothiophene (TIC)	20	NJ	ug/L		9/04/14 11:41	9/04/14 18:52	EPA 8260C
R4-7520	Indane (TIC)	70	NJ	ug/L		9/04/14 11:41	9/04/14 18:52	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG20S

Lab ID: E143510-07

Station ID: HG20S

Matrix: Groundwater

Date Collected: 8/27/14 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	3.6	J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	3.3	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.51	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
67-64-1	Acetone	4.0	U, J, C-6	ug/L	4.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
71-43-2	Benzene	3.6	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
108-86-1	Bromobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
74-97-5	Bromochloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG20S

Lab ID: E143510-07

Station ID: HG20S

Matrix: Groundwater

Date Collected: 8/27/14 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-25-2	Bromoform	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-15-0	Carbon disulfide	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
108-90-7	Chlorobenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-00-3	Chloroethane	2.0	U, J, C-6	ug/L	2.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
67-66-3	Chloroform	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
74-87-3	Chloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
110-82-7	Cyclohexane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
74-95-3	Dibromomethane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
100-41-4	Ethyl Benzene	4.0	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
98-82-8	Isopropylbenzene	2.2	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
79-20-9	Methyl Acetate	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U, J, C-6	ug/L	4.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U, J, C-6	ug/L	1.0	9/04/14 11:41	9/04/14 19:18	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-09-2	Methylene Chloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
104-51-8	n-Butylbenzene	0.52	J, D-2, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
103-65-1	n-Propylbenzene	1.6	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
95-47-6	o-Xylene	2.6	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG20S

Lab ID: E143510-07

Station ID: HG20S

Matrix: Groundwater

Date Collected: 8/27/14 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
99-87-6	p-Isopropyltoluene	0.74	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
135-98-8	sec-Butylbenzene	0.46	J, Q-2, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
100-42-5	Styrene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
108-88-3	Toluene	1.1	J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
75-01-4	Vinyl chloride	0.50	U, J, C-6	ug/L	0.50	9/04/14 11:41	9/04/14 19:18	EPA 8260C
Tentatively Identified Compounds:								
R4-7520	Indane (TIC)	20	NJ, C-6	ug/L		9/04/14 11:41	9/04/14 19:18	EPA 8260C



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D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG26DH

Lab ID: E143510-08

Station ID: HG26D

Matrix: Groundwater

Date Collected: 8/26/14 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	45	J, C-6, T-0	ug/L	40	9/05/14 11:58	9/05/14 13:09	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
71-55-6	1,1,1-Trichloroethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
79-00-5	1,1,2-Trichloroethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-34-3	1,1-Dichloroethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
563-58-6	1,1-Dichloropropene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
96-18-4	1,2,3-Trichloropropane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	4.0	J, Q-2, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	40	U, J, C-6, T-0	ug/L	40	9/05/14 11:58	9/05/14 13:09	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
95-50-1	1,2-Dichlorobenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
107-06-2	1,2-Dichloroethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
78-87-5	1,2-Dichloropropane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
541-73-1	1,3-Dichlorobenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
142-28-9	1,3-Dichloropropane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
106-46-7	1,4-Dichlorobenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
594-20-7	2,2-Dichloropropane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
67-64-1	Acetone	7700	J, C-6, T-0	ug/L	160	9/05/14 11:58	9/05/14 13:09	EPA 8260C
71-43-2	Benzene	95	J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
108-86-1	Bromobenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
74-97-5	Bromochloromethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG26DH

Lab ID: E143510-08

Station ID: HG26D

Matrix: Groundwater

Date Collected: 8/26/14 16:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-25-2	Bromoform	40	U, J, C-6, T-0	ug/L	40	9/05/14 11:58	9/05/14 13:09	EPA 8260C
74-83-9	Bromomethane	80	U, J, QC-1, QL-1, QR-1, C-6, T-0	ug/L	80	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-15-0	Carbon disulfide	80	U, J, C-6, T-0	ug/L	80	9/05/14 11:58	9/05/14 13:09	EPA 8260C
56-23-5	Carbon Tetrachloride	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
108-90-7	Chlorobenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-00-3	Chloroethane	80	U, J, C-6, T-0	ug/L	80	9/05/14 11:58	9/05/14 13:09	EPA 8260C
67-66-3	Chloroform	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
74-87-3	Chloromethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
110-82-7	Cyclohexane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
124-48-1	Dibromochloromethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
74-95-3	Dibromomethane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
100-41-4	Ethyl Benzene	30	J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
87-68-3	Hexachlorobutadiene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
98-82-8	Isopropylbenzene	2.4	J, Q-2, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
79-20-9	Methyl Acetate	40	U, J, C-6, T-0	ug/L	40	9/05/14 11:58	9/05/14 13:09	EPA 8260C
591-78-6	Methyl Butyl Ketone	130	J, C-6, T-0	ug/L	40	9/05/14 11:58	9/05/14 13:09	EPA 8260C
78-93-3	Methyl Ethyl Ketone	2900	J, C-6, T-0	ug/L	160	9/05/14 11:58	9/05/14 13:09	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	43	J, C-6, T-0	ug/L	40	9/05/14 11:58	9/05/14 13:09	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
108-87-2	Methylcyclohexane	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-09-2	Methylene Chloride	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
104-51-8	n-Butylbenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
103-65-1	n-Propylbenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C



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 D.A.R.T. Id: 14-0429
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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG26DH

Lab ID: E143510-08

Station ID: HG26D

Matrix: Groundwater

Date Collected: 8/26/14 16:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
95-49-8	o-Chlorotoluene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
95-47-6	o-Xylene	12	J, Q-2, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
106-43-4	p-Chlorotoluene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
99-87-6	p-Isopropyltoluene	99	J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
135-98-8	sec-Butylbenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
100-42-5	Styrene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
98-06-6	tert-Butylbenzene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
108-88-3	Toluene	250	J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
75-01-4	Vinyl chloride	20	U, J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 13:09	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U, J, C-6, T-0	ug/L	400	9/05/14 11:58	9/05/14 13:09	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG28D

Lab ID: E143510-09

Station ID: HG28D

Matrix: Groundwater

Date Collected: 8/28/14 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	43		ug/L	1.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	3.3		ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.58		ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
67-64-1	Acetone	4.7		ug/L	4.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
71-43-2	Benzene	93		ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG28D

Lab ID: E143510-09

Station ID: HG28D

Matrix: Groundwater

Date Collected: 8/28/14 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
100-41-4	Ethyl Benzene	32		ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
98-82-8	Isopropylbenzene	2.6		ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 19:44	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
103-65-1	n-Propylbenzene	0.42	J, Q-2	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
95-47-6	o-Xylene	12		ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG28D

Lab ID: E143510-09

Station ID: HG28D

Matrix: Groundwater

Date Collected: 8/28/14 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
99-87-6	p-Isopropyltoluene	0.59		ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
108-88-3	Toluene	1.9		ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 19:44	EPA 8260C
Tentatively Identified Compounds:								
R4-7520	Indane (TIC)	20	NJ	ug/L		9/04/14 11:41	9/04/14 19:44	EPA 8260C
R4-7525	Tetrahydrofuran (TIC)	30	NJ	ug/L		9/04/14 11:41	9/04/14 19:44	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG29D**

Lab ID: **E143510-10**

Station ID: **HG29D**

Matrix: Groundwater

Date Collected: 8/27/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	49	J, C-6	ug/L	40	9/05/14 11:58	9/05/14 13:35	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
71-55-6	1,1,1-Trichloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
79-00-5	1,1,2-Trichloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-34-3	1,1-Dichloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
563-58-6	1,1-Dichloropropene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
96-18-4	1,2,3-Trichloropropane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	5.2	J, Q-2, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	40	U, J, C-6	ug/L	40	9/05/14 11:58	9/05/14 13:35	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
95-50-1	1,2-Dichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
107-06-2	1,2-Dichloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
78-87-5	1,2-Dichloropropane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
541-73-1	1,3-Dichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
142-28-9	1,3-Dichloropropane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
106-46-7	1,4-Dichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
594-20-7	2,2-Dichloropropane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
67-64-1	Acetone	9000	J, C-6	ug/L	400	9/05/14 14:00	9/05/14 14:56	EPA 8260C
71-43-2	Benzene	96	J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
108-86-1	Bromobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
74-97-5	Bromochloromethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG29D

Lab ID: E143510-10

Station ID: HG29D

Matrix: Groundwater

Date Collected: 8/27/14 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-25-2	Bromoform	40	U, J, C-6	ug/L	40	9/05/14 11:58	9/05/14 13:35	EPA 8260C
74-83-9	Bromomethane	80	U, J, QC-1, QL-1, QR-1, C-6	ug/L	80	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-15-0	Carbon disulfide	80	U, J, C-6	ug/L	80	9/05/14 11:58	9/05/14 13:35	EPA 8260C
56-23-5	Carbon Tetrachloride	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
108-90-7	Chlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-00-3	Chloroethane	80	U, J, C-6	ug/L	80	9/05/14 11:58	9/05/14 13:35	EPA 8260C
67-66-3	Chloroform	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
74-87-3	Chloromethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
110-82-7	Cyclohexane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
124-48-1	Dibromochloromethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
74-95-3	Dibromomethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
100-41-4	Ethyl Benzene	33	J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
87-68-3	Hexachlorobutadiene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
98-82-8	Isopropylbenzene	2.4	J, Q-2, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
79-20-9	Methyl Acetate	40	U, J, C-6	ug/L	40	9/05/14 11:58	9/05/14 13:35	EPA 8260C
591-78-6	Methyl Butyl Ketone	140	J, C-6	ug/L	40	9/05/14 11:58	9/05/14 13:35	EPA 8260C
78-93-3	Methyl Ethyl Ketone	3300	J, C-6	ug/L	160	9/05/14 11:58	9/05/14 13:35	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	50	J, C-6	ug/L	40	9/05/14 11:58	9/05/14 13:35	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
108-87-2	Methylcyclohexane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-09-2	Methylene Chloride	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
104-51-8	n-Butylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
103-65-1	n-Propylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C



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 D.A.R.T. Id: 14-0429
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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG29D**

Lab ID: **E143510-10**

Station ID: **HG29D**

Matrix: Groundwater

Date Collected: 8/27/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-49-8	o-Chlorotoluene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
95-47-6	o-Xylene	14	J, Q-2, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
106-43-4	p-Chlorotoluene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
99-87-6	p-Isopropyltoluene	130	J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
135-98-8	sec-Butylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
100-42-5	Styrene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
98-06-6	tert-Butylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
108-88-3	Toluene	300	J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
75-01-4	Vinyl chloride	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 13:35	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U, J, C-6	ug/L	400	9/05/14 11:58	9/05/14 13:35	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG929D**

Lab ID: **E143510-11**

Station ID: **HG29D**

Matrix: Groundwater

Date Collected: 8/27/14 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	52	J, C-6	ug/L	40	9/05/14 11:58	9/05/14 14:02	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
71-55-6	1,1,1-Trichloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
79-00-5	1,1,2-Trichloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-34-3	1,1-Dichloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
563-58-6	1,1-Dichloropropene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
96-18-4	1,2,3-Trichloropropane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	4.8	J, Q-2, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	40	U, J, C-6	ug/L	40	9/05/14 11:58	9/05/14 14:02	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
95-50-1	1,2-Dichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
107-06-2	1,2-Dichloroethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
78-87-5	1,2-Dichloropropane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
541-73-1	1,3-Dichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
142-28-9	1,3-Dichloropropane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
106-46-7	1,4-Dichlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
594-20-7	2,2-Dichloropropane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
67-64-1	Acetone	9200	J, C-6	ug/L	400	9/05/14 14:00	9/05/14 15:22	EPA 8260C
71-43-2	Benzene	97	J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
108-86-1	Bromobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
74-97-5	Bromochloromethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C



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D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG929D

Lab ID: E143510-11

Station ID: HG29D

Matrix: Groundwater

Date Collected: 8/27/14 10:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-25-2	Bromoform	40	U, J, C-6	ug/L	40	9/05/14 11:58	9/05/14 14:02	EPA 8260C
74-83-9	Bromomethane	80	U, J, QC-1, QL-1, QR-1, C-6	ug/L	80	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-15-0	Carbon disulfide	80	U, J, C-6	ug/L	80	9/05/14 11:58	9/05/14 14:02	EPA 8260C
56-23-5	Carbon Tetrachloride	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
108-90-7	Chlorobenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-00-3	Chloroethane	80	U, J, C-6	ug/L	80	9/05/14 11:58	9/05/14 14:02	EPA 8260C
67-66-3	Chloroform	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
74-87-3	Chloromethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
110-82-7	Cyclohexane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
124-48-1	Dibromochloromethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
74-95-3	Dibromomethane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
100-41-4	Ethyl Benzene	34	J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
87-68-3	Hexachlorobutadiene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
98-82-8	Isopropylbenzene	2.4	J, Q-2, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
79-20-9	Methyl Acetate	40	U, J, C-6	ug/L	40	9/05/14 11:58	9/05/14 14:02	EPA 8260C
591-78-6	Methyl Butyl Ketone	140	J, C-6	ug/L	40	9/05/14 11:58	9/05/14 14:02	EPA 8260C
78-93-3	Methyl Ethyl Ketone	3100	J, C-6	ug/L	160	9/05/14 11:58	9/05/14 14:02	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	46	J, C-6	ug/L	40	9/05/14 11:58	9/05/14 14:02	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
108-87-2	Methylcyclohexane	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-09-2	Methylene Chloride	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
104-51-8	n-Butylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
103-65-1	n-Propylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG929D

Lab ID: E143510-11

Station ID: HG29D

Matrix: Groundwater

Date Collected: 8/27/14 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-49-8	o-Chlorotoluene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
95-47-6	o-Xylene	14	J, Q-2, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
106-43-4	p-Chlorotoluene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
99-87-6	p-Isopropyltoluene	130	J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
135-98-8	sec-Butylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
100-42-5	Styrene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
98-06-6	tert-Butylbenzene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
108-88-3	Toluene	310	J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
75-01-4	Vinyl chloride	20	U, J, C-6	ug/L	20	9/05/14 11:58	9/05/14 14:02	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U, J, C-6	ug/L	400	9/05/14 11:58	9/05/14 14:02	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HD29S

Lab ID: E143510-12

Station ID: HG29S

Matrix: Groundwater

Date Collected: 8/27/14 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	130		ug/L	100	9/04/14 11:41	9/04/14 20:37	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
71-55-6	1,1,1-Trichloroethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
79-00-5	1,1,2-Trichloroethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-34-3	1,1-Dichloroethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
563-58-6	1,1-Dichloropropene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
96-18-4	1,2,3-Trichloropropane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	12	J, Q-2	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	100	U	ug/L	100	9/04/14 11:41	9/04/14 20:37	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
95-50-1	1,2-Dichlorobenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
107-06-2	1,2-Dichloroethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
78-87-5	1,2-Dichloropropane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
541-73-1	1,3-Dichlorobenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
142-28-9	1,3-Dichloropropane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
106-46-7	1,4-Dichlorobenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
594-20-7	2,2-Dichloropropane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
67-64-1	Acetone	19000		ug/L	400	9/04/14 11:41	9/04/14 20:37	EPA 8260C
71-43-2	Benzene	320		ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
108-86-1	Bromobenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
74-97-5	Bromochloromethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 14-0429

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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HD29S

Lab ID: E143510-12

Station ID: HG29S

Matrix: Groundwater

Date Collected: 8/27/14 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-25-2	Bromoform	100	U	ug/L	100	9/04/14 11:41	9/04/14 20:37	EPA 8260C
74-83-9	Bromomethane	200	U	ug/L	200	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-15-0	Carbon disulfide	200	U	ug/L	200	9/04/14 11:41	9/04/14 20:37	EPA 8260C
56-23-5	Carbon Tetrachloride	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
108-90-7	Chlorobenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-00-3	Chloroethane	200	U	ug/L	200	9/04/14 11:41	9/04/14 20:37	EPA 8260C
67-66-3	Chloroform	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
74-87-3	Chloromethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
110-82-7	Cyclohexane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
124-48-1	Dibromochloromethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
74-95-3	Dibromomethane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
100-41-4	Ethyl Benzene	78		ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
87-68-3	Hexachlorobutadiene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
98-82-8	Isopropylbenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
79-20-9	Methyl Acetate	1600		ug/L	100	9/04/14 11:41	9/04/14 20:37	EPA 8260C
591-78-6	Methyl Butyl Ketone	200		ug/L	100	9/04/14 11:41	9/04/14 20:37	EPA 8260C
78-93-3	Methyl Ethyl Ketone	6800		ug/L	400	9/04/14 11:41	9/04/14 20:37	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	65	J, Q-2	ug/L	100	9/04/14 11:41	9/04/14 20:37	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
108-87-2	Methylcyclohexane	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-09-2	Methylene Chloride	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
104-51-8	n-Butylbenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
103-65-1	n-Propylbenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
95-49-8	o-Chlorotoluene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
95-47-6	o-Xylene	36	J, Q-2	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HD29S

Lab ID: E143510-12

Station ID: HG29S

Matrix: Groundwater

Date Collected: 8/27/14 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
99-87-6	p-Isopropyltoluene	31	J, Q-2	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
135-98-8	sec-Butylbenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
100-42-5	Styrene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
98-06-6	tert-Butylbenzene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
108-88-3	Toluene	1400		ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
75-01-4	Vinyl chloride	50	U	ug/L	50	9/04/14 11:41	9/04/14 20:37	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	1000	U	ug/L	1000	9/04/14 11:41	9/04/14 20:37	EPA 8260C



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 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG30D**

Lab ID: **E143510-13**

Station ID: **HG30D**

Matrix: Groundwater

Date Collected: 8/28/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	37		ug/L	1.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	14		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	4.7		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
71-43-2	Benzene	39		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: HG30D

Lab ID: E143510-13

Station ID: HG30D

Matrix: Groundwater

Date Collected: 8/28/14 10:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
74-83-9	Bromomethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
100-41-4	Ethyl Benzene	32		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
98-82-8	Isopropylbenzene	4.4		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	0.56	J, Q-2	ug/L	1.0	9/04/14 11:41	9/04/14 20:10	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
103-65-1	n-Propylbenzene	1.2		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
95-49-8	o-Chlorotoluene	1.8	U, D-4	ug/L	1.8	9/04/14 11:41	9/04/14 20:10	EPA 8260C
95-47-6	o-Xylene	16		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C



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 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700
 D.A.R.T. Id: 14-0429
 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **HG30D**

Lab ID: **E143510-13**

Station ID: **HG30D**

Matrix: Groundwater

Date Collected: 8/28/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
99-87-6	p-Isopropyltoluene	8.4		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
108-88-3	Toluene	7.1		ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	9/04/14 11:41	9/04/14 20:10	EPA 8260C
Tentatively Identified Compounds:								
R4-8000002	Benzothiophene (TIC)	50	NJ	ug/L		9/04/14 11:41	9/04/14 20:10	EPA 8260C
R4-7520	Indane (TIC)	200	NJ	ug/L		9/04/14 11:41	9/04/14 20:10	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: **ITW13**

Lab ID: **E143510-14**

Station ID: **ITW13**

Matrix: Groundwater

Date Collected: 8/28/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	93	J, C-6, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 15:48	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
71-55-6	1,1,1-Trichloroethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
79-00-5	1,1,2-Trichloroethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-34-3	1,1-Dichloroethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
563-58-6	1,1-Dichloropropene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
96-18-4	1,2,3-Trichloropropane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	14	J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U, J, C-6, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 15:48	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
95-50-1	1,2-Dichlorobenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
107-06-2	1,2-Dichloroethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
78-87-5	1,2-Dichloropropane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	2.3	J, Q-2, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
541-73-1	1,3-Dichlorobenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
142-28-9	1,3-Dichloropropane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
106-46-7	1,4-Dichlorobenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
594-20-7	2,2-Dichloropropane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
67-64-1	Acetone	190	J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 15:48	EPA 8260C
71-43-2	Benzene	61	J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
108-86-1	Bromobenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
74-97-5	Bromochloromethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C



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D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW13

Lab ID: E143510-14

Station ID: ITW13

Matrix: Groundwater

Date Collected: 8/28/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-25-2	Bromoform	5.0	U, J, C-6, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 15:48	EPA 8260C
74-83-9	Bromomethane	10	U, J, QC-1, QL-1, QR-1, C-6, T-0	ug/L	10	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-15-0	Carbon disulfide	10	U, J, C-6, T-0	ug/L	10	9/05/14 11:58	9/05/14 15:48	EPA 8260C
56-23-5	Carbon Tetrachloride	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
108-90-7	Chlorobenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-00-3	Chloroethane	10	U, J, C-6, T-0	ug/L	10	9/05/14 11:58	9/05/14 15:48	EPA 8260C
67-66-3	Chloroform	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
74-87-3	Chloromethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	3.0	J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
110-82-7	Cyclohexane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
124-48-1	Dibromochloromethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
74-95-3	Dibromomethane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
100-41-4	Ethyl Benzene	220	J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
87-68-3	Hexachlorobutadiene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
98-82-8	Isopropylbenzene	7.0	J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
79-20-9	Methyl Acetate	5.0	U, J, C-6, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 15:48	EPA 8260C
591-78-6	Methyl Butyl Ketone	37	J, C-6, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 15:48	EPA 8260C
78-93-3	Methyl Ethyl Ketone	110	J, C-6, T-0	ug/L	20	9/05/14 11:58	9/05/14 15:48	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	17	J, C-6, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 15:48	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
108-87-2	Methylcyclohexane	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-09-2	Methylene Chloride	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
104-51-8	n-Butylbenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
103-65-1	n-Propylbenzene	2.3	J, Q-2, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C



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 Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW13

Lab ID: E143510-14

Station ID: ITW13

Matrix: Groundwater

Date Collected: 8/28/14 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-49-8	o-Chlorotoluene	6.5	U, J, D-4, C-6, T-0	ug/L	6.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
95-47-6	o-Xylene	26	J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
106-43-4	p-Chlorotoluene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
99-87-6	p-Isopropyltoluene	170	J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
135-98-8	sec-Butylbenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
100-42-5	Styrene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
98-06-6	tert-Butylbenzene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
108-88-3	Toluene	240	J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
75-01-4	Vinyl chloride	2.5	U, J, C-6, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 15:48	EPA 8260C
Tentatively Identified Compounds:								
R4-8000639	Methylbutanol (TIC)	70	NJ, C-6, T-0	ug/L		9/05/14 11:58	9/05/14 15:48	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW14

Lab ID: E143510-15

Station ID: ITW14

Matrix: Groundwater

Date Collected: 8/28/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	230	T-0	ug/L	5.0	9/05/14 11:58	9/05/14 16:14	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
71-55-6	1,1,1-Trichloroethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
79-00-5	1,1,2-Trichloroethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-34-3	1,1-Dichloroethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
563-58-6	1,1-Dichloropropene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
96-18-4	1,2,3-Trichloropropane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	47	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	5.0	U, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 16:14	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
95-50-1	1,2-Dichlorobenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
107-06-2	1,2-Dichloroethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
78-87-5	1,2-Dichloropropane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	10	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
541-73-1	1,3-Dichlorobenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
142-28-9	1,3-Dichloropropane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
106-46-7	1,4-Dichlorobenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
594-20-7	2,2-Dichloropropane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
67-64-1	Acetone	37	T-0	ug/L	20	9/05/14 11:58	9/05/14 16:14	EPA 8260C
71-43-2	Benzene	25	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
108-86-1	Bromobenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
74-97-5	Bromochloromethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C



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Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW14

Lab ID: E143510-15

Station ID: ITW14

Matrix: Groundwater

Date Collected: 8/28/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-25-2	Bromoform	5.0	U, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 16:14	EPA 8260C
74-83-9	Bromomethane	10	U, J, QC-1, QL-1, QR-1, T-0	ug/L	10	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-15-0	Carbon disulfide	10	U, T-0	ug/L	10	9/05/14 11:58	9/05/14 16:14	EPA 8260C
56-23-5	Carbon Tetrachloride	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
108-90-7	Chlorobenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-00-3	Chloroethane	10	U, T-0	ug/L	10	9/05/14 11:58	9/05/14 16:14	EPA 8260C
67-66-3	Chloroform	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
74-87-3	Chloromethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
110-82-7	Cyclohexane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
124-48-1	Dibromochloromethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
74-95-3	Dibromomethane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
100-41-4	Ethyl Benzene	99	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
87-68-3	Hexachlorobutadiene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
98-82-8	Isopropylbenzene	9.3	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
79-20-9	Methyl Acetate	5.0	U, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 16:14	EPA 8260C
591-78-6	Methyl Butyl Ketone	5.0	U, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 16:14	EPA 8260C
78-93-3	Methyl Ethyl Ketone	6.8	J, Q-2, T-0	ug/L	20	9/05/14 11:58	9/05/14 16:14	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	5.0	U, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 16:14	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
108-87-2	Methylcyclohexane	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-09-2	Methylene Chloride	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
104-51-8	n-Butylbenzene	4.5	U, D-4, T-0	ug/L	4.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
103-65-1	n-Propylbenzene	4.2	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C



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Volatile Organics

Project: 14-0429, Cabot Carbon/Koppers

Sample ID: ITW14

Lab ID: E143510-15

Station ID: ITW14

Matrix: Groundwater

Date Collected: 8/28/14 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
95-49-8	o-Chlorotoluene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
95-47-6	o-Xylene	54	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
106-43-4	p-Chlorotoluene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
99-87-6	p-Isopropyltoluene	250	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
135-98-8	sec-Butylbenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
100-42-5	Styrene	5.0	U, D-4, T-0	ug/L	5.0	9/05/14 11:58	9/05/14 16:14	EPA 8260C
98-06-6	tert-Butylbenzene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
108-88-3	Toluene	340	T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
75-01-4	Vinyl chloride	2.5	U, T-0	ug/L	2.5	9/05/14 11:58	9/05/14 16:14	EPA 8260C
Tentatively Identified Compounds:								
R4-7528	1,2,3-Trimethylbenzene (TIC)	300	J, T-0	ug/L		9/05/14 11:58	9/05/14 16:14	EPA 8260C



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

Blank (1408178-BLK1)

Prepared & Analyzed: 08/29/14

EPA 8260C

(m- and/or p-)Xylene	U	1.0	ug/L							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Acetone	U	4.0	"							U
Benzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Bromoform	U	1.0	"							U
Bromomethane	U	2.0	"							U
Carbon disulfide	U	2.0	"							U
Carbon Tetrachloride	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Chloroethane	U	2.0	"							U
Chloroform	U	0.50	"							U
Chloromethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
cis-1,3-Dichloropropene	U	0.50	"							U



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

Blank (1408178-BLK1)	Prepared & Analyzed: 08/29/14									
Cyclohexane	U	0.50	ug/L							U
Dibromochloromethane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
o-Xylene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
Styrene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
Toluene	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

LCS (1408178-BS1)

Prepared & Analyzed: 08/29/14

EPA 8260C

(m- and/or p-)Xylene	38.660		ug/L	40.000		96.6	91.3-117			
1,1,1,2-Tetrachloroethane	20.600		"	20.000		103	76.5-128			
1,1,1-Trichloroethane	22.710		"	20.000		114	79.3-126			
1,1,2,2-Tetrachloroethane	17.370		"	20.000		86.8	80.2-118			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20.860		"	20.000		104	80-124			
1,1,2-Trichloroethane	18.170		"	20.000		90.8	87.1-111			
1,1-Dichloroethane	20.450		"	20.000		102	87.8-113			
1,1-Dichloroethene (1,1-Dichloroethylene)	19.550		"	20.000		97.8	85.4-116			
1,1-Dichloropropene	20.670		"	20.000		103	89.4-115			
1,2,3-Trichlorobenzene	18.440		"	20.000		92.2	85-117			
1,2,3-Trichloropropane	18.510		"	20.000		92.6	83.4-114			
1,2,4-Trichlorobenzene	18.530		"	20.000		92.6	83.9-117			
1,2,4-Trimethylbenzene	19.010		"	20.000		95.0	86.5-121			
1,2-Dibromo-3-Chloropropane (DBCP)	37.980		"	40.000		95.0	72.3-136			
1,2-Dibromoethane (EDB)	18.440		"	20.000		92.2	87.3-115			
1,2-Dichlorobenzene	18.480		"	20.000		92.4	86.4-111			
1,2-Dichloroethane	22.470		"	20.000		112	83.9-122			
1,2-Dichloropropane	19.380		"	20.000		96.9	88-113			
1,3,5-Trimethylbenzene	18.780		"	20.000		93.9	86.8-119			
1,3-Dichlorobenzene	18.460		"	20.000		92.3	86.4-112			
1,3-Dichloropropane	18.720		"	20.000		93.6	87.4-113			
1,4-Dichlorobenzene	18.080		"	20.000		90.4	86.5-110			
2,2-Dichloropropane	22.460		"	20.000		112	53.4-154			
Acetone	36.620		"	40.000		91.6	49.7-153			
Benzene	19.690		"	20.000		98.4	89.6-113			
Bromobenzene	17.770		"	20.000		88.8	84.6-112			
Bromochloromethane	20.400		"	20.000		102	83.6-117			
Bromodichloromethane	21.400		"	20.000		107	80-125			
Bromoform	37.610		"	40.000		94.0	63.1-142			
Bromomethane	16.210		"	20.000		81.0	49.9-140			
Carbon disulfide	18.740		"	20.000		93.7	81.7-114			
Carbon Tetrachloride	22.730		"	20.000		114	68.8-140			
Chlorobenzene	18.840		"	20.000		94.2	88.4-109			
Chloroethane	19.200		"	20.000		96.0	76.7-118			
Chloroform	21.550		"	20.000		108	87.9-115			
Chloromethane	19.420		"	20.000		97.1	68.9-118			
cis-1,2-Dichloroethene	19.740		"	20.000		98.7	87.6-115			
cis-1,3-Dichloropropene	18.800		"	20.000		94.0	81-121			



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

LCS (1408178-BS1)

Prepared & Analyzed: 08/29/14

Cyclohexane	19.230		ug/L	20.000		96.2	83.5-122			
Dibromochloromethane	20.370		"	20.000		102	71.7-133			
Dibromomethane	20.500		"	20.000		102	87.3-117			
Dichlorodifluoromethane (Freon 12)	21.260		"	20.000		106	63.5-132			
Ethyl Benzene	19.410		"	20.000		97.0	90-114			
Hexachlorobutadiene	19.470		"	20.000		97.4	80.2-116			
Isopropylbenzene	18.150		"	20.000		90.8	84.5-120			
Methyl Acetate	37.800		"	40.000		94.5	75.8-121			
Methyl Butyl Ketone	37.880		"	40.000		94.7	69.9-136			
Methyl Ethyl Ketone	37.220		"	40.000		93.0	68.1-135			
Methyl Isobutyl Ketone	37.340		"	40.000		93.4	77-127			
Methyl T-Butyl Ether (MTBE)	19.890		"	20.000		99.4	80.1-123			
Methylcyclohexane	20.460		"	20.000		102	82.6-124			
Methylene Chloride	20.150		"	20.000		101	81.2-118			
n-Butylbenzene	18.840		"	20.000		94.2	85.7-121			
n-Propylbenzene	18.340		"	20.000		91.7	87-117			
o-Chlorotoluene	18.250		"	20.000		91.2	85.8-114			
o-Xylene	19.490		"	20.000		97.4	88.9-116			
p-Chlorotoluene	18.510		"	20.000		92.6	86.5-114			
p-Isopropyltoluene	19.130		"	20.000		95.6	86.3-123			
sec-Butylbenzene	18.640		"	20.000		93.2	86.2-120			
Styrene	19.800		"	20.000		99.0	89.9-119			
tert-Butylbenzene	18.630		"	20.000		93.2	85.2-119			
Tetrachloroethene (Tetrachloroethylene)	19.900		"	20.000		99.5	85.1-113			
Toluene	18.520		"	20.000		92.6	87.7-111			
trans-1,2-Dichloroethene	20.050		"	20.000		100	86.6-114			
trans-1,3-Dichloropropene	19.880		"	20.000		99.4	77.4-127			
Trichloroethene (Trichloroethylene)	20.170		"	20.000		101	87.8-114			
Trichlorofluoromethane (Freon 11)	22.920		"	20.000		115	78-129			
Vinyl chloride	20.130		"	20.000		101	78.8-115			



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

LCS Dup (1408178-BSD1)

Prepared & Analyzed: 08/29/14

EPA 8260C

(m- and/or p-)Xylene	40.570		ug/L	40.000		101	91.3-117	4.82	10	
1,1,1,2-Tetrachloroethane	21.370		"	20.000		107	76.5-128	3.67	10	
1,1,1-Trichloroethane	23.640		"	20.000		118	79.3-126	4.01	10	
1,1,2,2-Tetrachloroethane	18.590		"	20.000		93.0	80.2-118	6.79	16	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	21.970		"	20.000		110	80-124	5.18	10	
1,1,2-Trichloroethane	19.240		"	20.000		96.2	87.1-111	5.72	11	
1,1-Dichloroethane	21.360		"	20.000		107	87.8-113	4.35	10	
1,1-Dichloroethene (1,1-Dichloroethylene)	20.440		"	20.000		102	85.4-116	4.45	11	
1,1-Dichloropropene	21.790		"	20.000		109	89.4-115	5.28	10	
1,2,3-Trichlorobenzene	19.180		"	20.000		95.9	85-117	3.93	12	
1,2,3-Trichloropropane	19.320		"	20.000		96.6	83.4-114	4.28	20	
1,2,4-Trichlorobenzene	19.410		"	20.000		97.0	83.9-117	4.64	13	
1,2,4-Trimethylbenzene	19.700		"	20.000		98.5	86.5-121	3.56	11	
1,2-Dibromo-3-Chloropropane (DBCP)	40.360		"	40.000		101	72.3-136	6.08	26	
1,2-Dibromoethane (EDB)	19.520		"	20.000		97.6	87.3-115	5.69	12	
1,2-Dichlorobenzene	19.100		"	20.000		95.5	86.4-111	3.30	10	
1,2-Dichloroethane	23.370		"	20.000		117	83.9-122	3.93	10	
1,2-Dichloropropane	20.530		"	20.000		103	88-113	5.76	10	
1,3,5-Trimethylbenzene	19.390		"	20.000		97.0	86.8-119	3.20	10	
1,3-Dichlorobenzene	18.970		"	20.000		94.8	86.4-112	2.73	10	
1,3-Dichloropropane	19.710		"	20.000		98.6	87.4-113	5.15	10	
1,4-Dichlorobenzene	18.860		"	20.000		94.3	86.5-110	4.22	11	
2,2-Dichloropropane	23.200		"	20.000		116	53.4-154	3.24	10	
Acetone	41.130		"	40.000		103	49.7-153	11.6	65	
Benzene	20.640		"	20.000		103	89.6-113	4.71	10	
Bromobenzene	18.970		"	20.000		94.8	84.6-112	6.53	10	
Bromochloromethane	21.330		"	20.000		107	83.6-117	4.46	10	
Bromodichloromethane	22.560		"	20.000		113	80-125	5.28	10	
Bromoform	39.550		"	40.000		98.9	63.1-142	5.03	16	
Bromomethane	18.170		"	20.000		90.8	49.9-140	11.4	20	
Carbon disulfide	19.900		"	20.000		99.5	81.7-114	6.00	10	
Carbon Tetrachloride	23.890		"	20.000		119	68.8-140	4.98	10	
Chlorobenzene	19.590		"	20.000		98.0	88.4-109	3.90	10	
Chloroethane	20.070		"	20.000		100	76.7-118	4.43	12	
Chloroform	22.400		"	20.000		112	87.9-115	3.87	10	
Chloromethane	20.660		"	20.000		103	68.9-118	6.19	12	
cis-1,2-Dichloroethene	20.740		"	20.000		104	87.6-115	4.94	10	
cis-1,3-Dichloropropene	19.500		"	20.000		97.5	81-121	3.66	10	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

LCS Dup (1408178-BSD1)

Prepared & Analyzed: 08/29/14

Cyclohexane	20.570		ug/L	20.000		103	83.5-122	6.73	10	
Dibromochloromethane	21.180		"	20.000		106	71.7-133	3.90	12	
Dibromomethane	21.390		"	20.000		107	87.3-117	4.25	10	
Dichlorodifluoromethane (Freon 12)	22.430		"	20.000		112	63.5-132	5.36	13	
Ethyl Benzene	20.310		"	20.000		102	90-114	4.53	10	
Hexachlorobutadiene	20.190		"	20.000		101	80.2-116	3.63	13	
Isopropylbenzene	19.050		"	20.000		95.2	84.5-120	4.84	10	
Methyl Acetate	40.850		"	40.000		102	75.8-121	7.76	22	
Methyl Butyl Ketone	40.150		"	40.000		100	69.9-136	5.82	38	
Methyl Ethyl Ketone	41.380		"	40.000		103	68.1-135	10.6	49	
Methyl Isobutyl Ketone	39.580		"	40.000		99.0	77-127	5.82	22	
Methyl T-Butyl Ether (MTBE)	21.210		"	20.000		106	80.1-123	6.42	10	
Methylcyclohexane	21.750		"	20.000		109	82.6-124	6.11	10	
Methylene Chloride	20.900		"	20.000		104	81.2-118	3.65	10	
n-Butylbenzene	19.610		"	20.000		98.0	85.7-121	4.01	10	
n-Propylbenzene	19.010		"	20.000		95.0	87-117	3.59	10	
o-Chlorotoluene	18.590		"	20.000		93.0	85.8-114	1.85	10	
o-Xylene	20.560		"	20.000		103	88.9-116	5.34	10	
p-Chlorotoluene	19.120		"	20.000		95.6	86.5-114	3.24	10	
p-Isopropyltoluene	20.210		"	20.000		101	86.3-123	5.49	10	
sec-Butylbenzene	19.300		"	20.000		96.5	86.2-120	3.48	10	
Styrene	20.770		"	20.000		104	89.9-119	4.78	10	
tert-Butylbenzene	19.460		"	20.000		97.3	85.2-119	4.36	10	
Tetrachloroethene (Tetrachloroethylene)	20.840		"	20.000		104	85.1-113	4.61	10	
Toluene	19.530		"	20.000		97.6	87.7-111	5.31	10	
trans-1,2-Dichloroethene	20.950		"	20.000		105	86.6-114	4.39	10	
trans-1,3-Dichloropropene	20.950		"	20.000		105	77.4-127	5.24	10	
Trichloroethene (Trichloroethylene)	21.300		"	20.000		106	87.8-114	5.45	10	
Trichlorofluoromethane (Freon 11)	24.090		"	20.000		120	78-129	4.98	10	
Vinyl chloride	21.520		"	20.000		108	78.8-115	6.67	10	



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

Duplicate (1408178-DUP1)

Source: E143506-05

Prepared & Analyzed: 08/29/14

EPA 8260C

(m- and/or p-)Xylene	46.000	50	ug/L		47.000			2.15	20	Q-2, J
1,1,1,2-Tetrachloroethane	U	25	"		U				20	U
1,1,1-Trichloroethane	U	25	"		U				20	U
1,1,2,2-Tetrachloroethane	U	25	"		U				20	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	25	"		U				20	U
1,1,2-Trichloroethane	U	25	"		U				20	U
1,1-Dichloroethane	U	25	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	25	"		U				20	U
1,1-Dichloropropene	U	25	"		U				20	U
1,2,3-Trichlorobenzene	U	25	"		U				20	U
1,2,3-Trichloropropane	U	25	"		U				20	U
1,2,4-Trichlorobenzene	U	25	"		U				20	U
1,2,4-Trimethylbenzene	U	25	"		U				20	U
1,2-Dibromo-3-Chloropropane (DBCP)	U	50	"		U				20	U
1,2-Dibromoethane (EDB)	U	25	"		U				20	U
1,2-Dichlorobenzene	U	25	"		U				20	U
1,2-Dichloroethane	U	25	"		U				20	U
1,2-Dichloropropane	U	25	"		U				20	U
1,3,5-Trimethylbenzene	U	25	"		U				20	U
1,3-Dichlorobenzene	U	25	"		U				20	U
1,3-Dichloropropane	U	25	"		U				20	U
1,4-Dichlorobenzene	U	25	"		U				20	U
2,2-Dichloropropane	U	25	"		U				20	U
Acetone	8837.5	200	"		9108.5			3.02	20	
Benzene	133.00	25	"		135.50			1.86	20	
Bromobenzene	U	25	"		U				20	U
Bromochloromethane	U	25	"		U				20	U
Bromodichloromethane	U	25	"		U				20	U
Bromoform	U	50	"		U				20	U
Bromomethane	U	100	"		U				20	U
Carbon disulfide	U	100	"		U				20	U
Carbon Tetrachloride	U	25	"		U				20	U
Chlorobenzene	U	25	"		U				20	U
Chloroethane	U	100	"		U				20	U
Chloroform	U	25	"		U				20	U
Chloromethane	U	25	"		U				20	U
cis-1,2-Dichloroethene	U	25	"		U				20	U
cis-1,3-Dichloropropene	U	25	"		U				20	U



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

Duplicate (1408178-DUP1)	Source: E143506-05			Prepared & Analyzed: 08/29/14						
Cyclohexane	U	25	ug/L		U			20		U
Dibromochloromethane	U	25	"		U			20		U
Dibromomethane	U	25	"		U			20		U
Dichlorodifluoromethane (Freon 12)	U	25	"		U			20		U
Ethyl Benzene	26.500	25	"		28.500		7.27	20		
Hexachlorobutadiene	U	25	"		U			20		U
Isopropylbenzene	U	25	"		U			20		U
Methyl Acetate	158.50	50	"		165.50		4.32	20		
Methyl Butyl Ketone	64.000	50	"		57.000		11.6	20		
Methyl Ethyl Ketone	3321.0	200	"		3365.0		1.32	20		
Methyl Isobutyl Ketone	34.500	50	"		35.000		1.44	20		Q-2, J
Methyl T-Butyl Ether (MTBE)	U	25	"		U			20		U
Methylcyclohexane	U	25	"		U			20		U
Methylene Chloride	U	25	"		U			20		U
n-Butylbenzene	U	25	"		U			20		U
n-Propylbenzene	U	25	"		U			20		U
o-Chlorotoluene	U	25	"		U			20		U
o-Xylene	12.500	25	"		13.500		7.69	20		Q-2, J
p-Chlorotoluene	U	25	"		U			20		U
p-Isopropyltoluene	10.500	25	"		7.0000		40.0	20		Q-2, XD-1, J
sec-Butylbenzene	U	25	"		U			20		U
Styrene	U	25	"		U			20		U
tert-Butylbenzene	U	25	"		U			20		U
Tetrachloroethene (Tetrachloroethylene)	U	25	"		U			20		U
Toluene	485.00	25	"		491.00		1.23	20		
trans-1,2-Dichloroethene	U	25	"		U			20		U
trans-1,3-Dichloropropene	U	25	"		U			20		U
Trichloroethene (Trichloroethylene)	U	25	"		U			20		U
Trichlorofluoromethane (Freon 11)	U	25	"		U			20		U
Vinyl chloride	U	25	"		U			20		U
Tentatively Identified Compounds	U	500	"		0.0000			200		U



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

MRL Verification (1408178-PS1)

Prepared & Analyzed: 08/29/14

EPA 8260C

(m- and/or p-)Xylene	3.0900		ug/L	4.0000		77.2	71.3-137			
1,1,1,2-Tetrachloroethane	1.7500		"	2.0000		87.5	56.5-148			
1,1,1-Trichloroethane	1.9600		"	2.0000		98.0	59.3-146			
1,1,2,2-Tetrachloroethane	1.5400		"	2.0000		77.0	60.2-138			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.7300		"	2.0000		86.5	60-144			
1,1,2-Trichloroethane	1.6100		"	2.0000		80.5	67.1-131			
1,1-Dichloroethane	1.7600		"	2.0000		88.0	67.8-133			
1,1-Dichloroethene (1,1-Dichloroethylene)	1.6900		"	2.0000		84.5	65.4-136			
1,1-Dichloropropene	1.6500		"	2.0000		82.5	69.4-135			
1,2,3-Trichlorobenzene	1.2900		"	2.0000		64.5	65-137			QR-1
1,2,3-Trichloropropane	1.6900		"	2.0000		84.5	63.4-134			
1,2,4-Trichlorobenzene	1.3100		"	2.0000		65.5	63.9-137			
1,2,4-Trimethylbenzene	1.3800		"	2.0000		69.0	66.5-141			
1,2-Dibromo-3-Chloropropane (DBCP)	3.1500		"	4.0000		78.8	52.3-156			
1,2-Dibromoethane (EDB)	1.6600		"	2.0000		83.0	67.3-135			
1,2-Dichlorobenzene	1.5500		"	2.0000		77.5	66.4-131			
1,2-Dichloroethane	1.9400		"	2.0000		97.0	63.9-142			
1,2-Dichloropropane	1.6800		"	2.0000		84.0	68-133			
1,3,5-Trimethylbenzene	1.3800		"	2.0000		69.0	66.8-139			
1,3-Dichlorobenzene	1.5400		"	2.0000		77.0	66.4-132			
1,3-Dichloropropane	1.6800		"	2.0000		84.0	67.4-133			
1,4-Dichlorobenzene	1.5900		"	2.0000		79.5	66.5-130			
2,2-Dichloropropane	1.8800		"	2.0000		94.0	33.4-174			
Acetone	4.1500		"	4.0000		104	29.7-173			MRL-2
Benzene	1.7000		"	2.0000		85.0	69.6-133			
Bromobenzene	1.5400		"	2.0000		77.0	64.6-132			
Bromochloromethane	1.7000		"	2.0000		85.0	63.6-137			
Bromodichloromethane	1.8500		"	2.0000		92.5	60-145			
Bromoform	3.2200		"	4.0000		80.5	43.1-162			
Bromomethane	1.1700		"	2.0000		58.5	29.9-160			MRL-2
Carbon disulfide	1.7900		"	2.0000		89.5	61.7-134			MRL-2
Carbon Tetrachloride	1.9300		"	2.0000		96.5	48.8-160			
Chlorobenzene	1.6400		"	2.0000		82.0	68.4-129			
Chloroethane	1.7500		"	2.0000		87.5	56.7-138			MRL-2
Chloroform	1.9200		"	2.0000		96.0	67.9-135			
Chloromethane	1.7300		"	2.0000		86.5	48.9-138			
cis-1,2-Dichloroethene	1.6600		"	2.0000		83.0	67.6-135			
cis-1,3-Dichloropropene	1.5100		"	2.0000		75.5	61-141			



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1408178 - V 5030B VOA Wtr Prep

MRL Verification (1408178-PS1)

Prepared & Analyzed: 08/29/14

Cyclohexane	1.4600		ug/L	2.0000		73.0	63.5-142			
Dibromochloromethane	1.6600		"	2.0000		83.0	51.7-153			
Dibromomethane	1.8700		"	2.0000		93.5	67.3-137			
Dichlorodifluoromethane (Freon 12)	1.7400		"	2.0000		87.0	43.5-152			
Ethyl Benzene	1.5500		"	2.0000		77.5	70-134			
Hexachlorobutadiene	1.5300		"	2.0000		76.5	60.2-136			
Isopropylbenzene	1.4100		"	2.0000		70.5	64.5-140			
Methyl Acetate	3.3900		"	4.0000		84.8	55.8-141			
Methyl Butyl Ketone	2.8600		"	4.0000		71.5	49.9-156			
Methyl Ethyl Ketone	3.0800		"	4.0000		77.0	48.1-155			MRL-2
Methyl Isobutyl Ketone	3.0300		"	4.0000		75.8	57-147			
Methyl T-Butyl Ether (MTBE)	1.6100		"	2.0000		80.5	60.1-143			
Methylcyclohexane	1.6100		"	2.0000		80.5	62.6-144			
Methylene Chloride	1.7100		"	2.0000		85.5	61.2-138			
n-Butylbenzene	1.3700		"	2.0000		68.5	65.7-141			
n-Propylbenzene	1.4700		"	2.0000		73.5	67-137			
o-Chlorotoluene	1.4800		"	2.0000		74.0	65.8-134			
o-Xylene	1.5600		"	2.0000		78.0	68.9-136			
p-Chlorotoluene	1.5100		"	2.0000		75.5	66.5-134			
p-Isopropyltoluene	1.3800		"	2.0000		69.0	66.3-143			
sec-Butylbenzene	1.4200		"	2.0000		71.0	66.2-140			
Styrene	1.4700		"	2.0000		73.5	69.9-139			
tert-Butylbenzene	1.4100		"	2.0000		70.5	65.2-139			
Tetrachloroethene (Tetrachloroethylene)	1.6600		"	2.0000		83.0	65.1-133			
Toluene	1.6400		"	2.0000		82.0	67.7-131			
trans-1,2-Dichloroethene	1.7900		"	2.0000		89.5	66.6-134			
trans-1,3-Dichloropropene	1.6700		"	2.0000		83.5	57.4-147			
Trichloroethene (Trichloroethylene)	1.6700		"	2.0000		83.5	67.8-134			
Trichlorofluoromethane (Freon 11)	1.9400		"	2.0000		97.0	58-149			
Vinyl chloride	1.6200		"	2.0000		81.0	58.8-135			



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

Blank (1409008-BLK2)

Prepared & Analyzed: 09/04/14

EPA 8260C

(m- and/or p-)Xylene	U	1.0	ug/L							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Acetone	U	4.0	"							U
Benzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Bromoform	U	1.0	"							U
Bromomethane	U	2.0	"							U
Carbon disulfide	U	2.0	"							U
Carbon Tetrachloride	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Chloroethane	U	2.0	"							U
Chloroform	U	0.50	"							U
Chloromethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
cis-1,3-Dichloropropene	U	0.50	"							U



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

Blank (1409008-BLK2)	Prepared & Analyzed: 09/04/14									
Cyclohexane	U	0.50	ug/L							U
Dibromochloromethane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
o-Xylene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
Styrene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
Toluene	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

LCS (1409008-BS2)

Prepared & Analyzed: 09/04/14

EPA 8260C

(m- and/or p-)Xylene	45.150		ug/L	40.000		113	91.3-117			
1,1,1,2-Tetrachloroethane	22.010		"	20.000		110	76.5-128			
1,1,1-Trichloroethane	22.270		"	20.000		111	79.3-126			
1,1,2,2-Tetrachloroethane	19.250		"	20.000		96.2	80.2-118			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	22.960		"	20.000		115	80-124			
1,1,2-Trichloroethane	20.900		"	20.000		104	87.1-111			
1,1-Dichloroethane	22.310		"	20.000		112	87.8-113			
1,1-Dichloroethene (1,1-Dichloroethylene)	22.210		"	20.000		111	85.4-116			
1,1-Dichloropropene	22.540		"	20.000		113	89.4-115			
1,2,3-Trichlorobenzene	21.060		"	20.000		105	85-117			
1,2,3-Trichloropropane	19.620		"	20.000		98.1	83.4-114			
1,2,4-Trichlorobenzene	21.510		"	20.000		108	83.9-117			
1,2,4-Trimethylbenzene	22.760		"	20.000		114	86.5-121			
1,2-Dibromo-3-Chloropropane (DBCP)	34.550		"	40.000		86.4	72.3-136			
1,2-Dibromoethane (EDB)	20.980		"	20.000		105	87.3-115			
1,2-Dichlorobenzene	21.680		"	20.000		108	86.4-111			
1,2-Dichloroethane	21.600		"	20.000		108	83.9-122			
1,2-Dichloropropane	22.500		"	20.000		112	88-113			
1,3,5-Trimethylbenzene	22.880		"	20.000		114	86.8-119			
1,3-Dichlorobenzene	21.820		"	20.000		109	86.4-112			
1,3-Dichloropropane	21.230		"	20.000		106	87.4-113			
1,4-Dichlorobenzene	21.590		"	20.000		108	86.5-110			
2,2-Dichloropropane	23.160		"	20.000		116	53.4-154			
Acetone	28.080		"	40.000		70.2	49.7-153			
Benzene	22.070		"	20.000		110	89.6-113			
Bromobenzene	21.630		"	20.000		108	84.6-112			
Bromochloromethane	22.060		"	20.000		110	83.6-117			
Bromodichloromethane	22.170		"	20.000		111	80-125			
Bromoform	39.700		"	40.000		99.2	63.1-142			
Bromomethane	22.990		"	20.000		115	49.9-140			
Carbon disulfide	21.180		"	20.000		106	81.7-114			
Carbon Tetrachloride	22.250		"	20.000		111	68.8-140			
Chlorobenzene	21.760		"	20.000		109	88.4-109			
Chloroethane	22.130		"	20.000		111	76.7-118			
Chloroform	21.710		"	20.000		109	87.9-115			
Chloromethane	21.600		"	20.000		108	68.9-118			
cis-1,2-Dichloroethene	22.200		"	20.000		111	87.6-115			
cis-1,3-Dichloropropene	22.560		"	20.000		113	81-121			



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D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

LCS (1409008-BS2)

Prepared & Analyzed: 09/04/14

Cyclohexane	22.570		ug/L	20.000		113	83.5-122			
Dibromochloromethane	21.850		"	20.000		109	71.7-133			
Dibromomethane	21.400		"	20.000		107	87.3-117			
Dichlorodifluoromethane (Freon 12)	21.890		"	20.000		109	63.5-132			
Ethyl Benzene	22.100		"	20.000		110	90-114			
Hexachlorobutadiene	21.890		"	20.000		109	80.2-116			
Isopropylbenzene	22.400		"	20.000		112	84.5-120			
Methyl Acetate	35.300		"	40.000		88.2	75.8-121			
Methyl Butyl Ketone	33.760		"	40.000		84.4	69.9-136			
Methyl Ethyl Ketone	30.960		"	40.000		77.4	68.1-135			
Methyl Isobutyl Ketone	35.690		"	40.000		89.2	77-127			
Methyl T-Butyl Ether (MTBE)	21.140		"	20.000		106	80.1-123			
Methylcyclohexane	22.840		"	20.000		114	82.6-124			
Methylene Chloride	21.830		"	20.000		109	81.2-118			
n-Butylbenzene	22.800		"	20.000		114	85.7-121			
n-Propylbenzene	22.040		"	20.000		110	87-117			
o-Chlorotoluene	21.730		"	20.000		109	85.8-114			
o-Xylene	22.740		"	20.000		114	88.9-116			
p-Chlorotoluene	21.930		"	20.000		110	86.5-114			
p-Isopropyltoluene	22.640		"	20.000		113	86.3-123			
sec-Butylbenzene	22.270		"	20.000		111	86.2-120			
Styrene	23.360		"	20.000		117	89.9-119			
tert-Butylbenzene	22.190		"	20.000		111	85.2-119			
Tetrachloroethene (Tetrachloroethylene)	21.850		"	20.000		109	85.1-113			
Toluene	21.790		"	20.000		109	87.7-111			
trans-1,2-Dichloroethene	22.800		"	20.000		114	86.6-114			
trans-1,3-Dichloropropene	21.830		"	20.000		109	77.4-127			
Trichloroethene (Trichloroethylene)	21.960		"	20.000		110	87.8-114			
Trichlorofluoromethane (Freon 11)	22.440		"	20.000		112	78-129			
Vinyl chloride	22.170		"	20.000		111	78.8-115			



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

LCS Dup (1409008-BSD2)

Prepared & Analyzed: 09/04/14

EPA 8260C

(m- and/or p-)Xylene	41.860		ug/L	40.000		105	91.3-117	7.56	10	
1,1,1,2-Tetrachloroethane	20.460		"	20.000		102	76.5-128	7.30	10	
1,1,1-Trichloroethane	20.690		"	20.000		103	79.3-126	7.36	10	
1,1,2,2-Tetrachloroethane	19.960		"	20.000		99.8	80.2-118	3.62	16	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20.990		"	20.000		105	80-124	8.96	10	
1,1,2-Trichloroethane	20.000		"	20.000		100	87.1-111	4.40	11	
1,1-Dichloroethane	20.700		"	20.000		104	87.8-113	7.49	10	
1,1-Dichloroethene (1,1-Dichloroethylene)	20.660		"	20.000		103	85.4-116	7.23	11	
1,1-Dichloropropene	21.440		"	20.000		107	89.4-115	5.00	10	
1,2,3-Trichlorobenzene	19.680		"	20.000		98.4	85-117	6.77	12	
1,2,3-Trichloropropane	19.820		"	20.000		99.1	83.4-114	1.01	20	
1,2,4-Trichlorobenzene	19.910		"	20.000		99.6	83.9-117	7.73	13	
1,2,4-Trimethylbenzene	21.030		"	20.000		105	86.5-121	7.90	11	
1,2-Dibromo-3-Chloropropane (DBCP)	39.180		"	40.000		98.0	72.3-136	12.6	26	
1,2-Dibromoethane (EDB)	19.830		"	20.000		99.2	87.3-115	5.64	12	
1,2-Dichlorobenzene	19.790		"	20.000		99.0	86.4-111	9.12	10	
1,2-Dichloroethane	20.020		"	20.000		100	83.9-122	7.59	10	
1,2-Dichloropropane	20.550		"	20.000		103	88-113	9.06	10	
1,3,5-Trimethylbenzene	20.940		"	20.000		105	86.8-119	8.85	10	
1,3-Dichlorobenzene	20.010		"	20.000		100	86.4-112	8.65	10	
1,3-Dichloropropane	20.210		"	20.000		101	87.4-113	4.92	10	
1,4-Dichlorobenzene	19.530		"	20.000		97.6	86.5-110	10.0	11	
2,2-Dichloropropane	21.830		"	20.000		109	53.4-154	5.91	10	
Acetone	36.440		"	40.000		91.1	49.7-153	25.9	65	
Benzene	20.620		"	20.000		103	89.6-113	6.79	10	
Bromobenzene	20.260		"	20.000		101	84.6-112	6.54	10	
Bromochloromethane	20.560		"	20.000		103	83.6-117	7.04	10	
Bromodichloromethane	20.590		"	20.000		103	80-125	7.39	10	
Bromoform	39.500		"	40.000		98.8	63.1-142	0.505	16	
Bromomethane	21.100		"	20.000		106	49.9-140	8.57	20	
Carbon disulfide	19.590		"	20.000		98.0	81.7-114	7.80	10	
Carbon Tetrachloride	20.530		"	20.000		103	68.8-140	8.04	10	
Chlorobenzene	20.150		"	20.000		101	88.4-109	7.68	10	
Chloroethane	20.360		"	20.000		102	76.7-118	8.33	12	
Chloroform	20.400		"	20.000		102	87.9-115	6.22	10	
Chloromethane	19.810		"	20.000		99.0	68.9-118	8.65	12	
cis-1,2-Dichloroethene	20.490		"	20.000		102	87.6-115	8.01	10	
cis-1,3-Dichloropropene	20.540		"	20.000		103	81-121	9.37	10	



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D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

LCS Dup (1409008-BSD2)

Prepared & Analyzed: 09/04/14

Cyclohexane	20.930		ug/L	20.000		105	83.5-122	7.54	10	
Dibromochloromethane	20.200		"	20.000		101	71.7-133	7.85	12	
Dibromomethane	19.780		"	20.000		98.9	87.3-117	7.87	10	
Dichlorodifluoromethane (Freon 12)	20.010		"	20.000		100	63.5-132	8.97	13	
Ethyl Benzene	20.770		"	20.000		104	90-114	6.20	10	
Hexachlorobutadiene	20.070		"	20.000		100	80.2-116	8.67	13	
Isopropylbenzene	20.920		"	20.000		105	84.5-120	6.83	10	
Methyl Acetate	39.020		"	40.000		97.6	75.8-121	10.0	22	
Methyl Butyl Ketone	41.390		"	40.000		103	69.9-136	20.3	38	
Methyl Ethyl Ketone	38.410		"	40.000		96.0	68.1-135	21.5	49	
Methyl Isobutyl Ketone	40.510		"	40.000		101	77-127	12.7	22	
Methyl T-Butyl Ether (MTBE)	20.200		"	20.000		101	80.1-123	4.55	10	
Methylcyclohexane	21.450		"	20.000		107	82.6-124	6.28	10	
Methylene Chloride	20.110		"	20.000		101	81.2-118	8.20	10	
n-Butylbenzene	20.850		"	20.000		104	85.7-121	8.93	10	
n-Propylbenzene	20.730		"	20.000		104	87-117	6.13	10	
o-Chlorotoluene	20.080		"	20.000		100	85.8-114	7.89	10	
o-Xylene	20.810		"	20.000		104	88.9-116	8.86	10	
p-Chlorotoluene	20.260		"	20.000		101	86.5-114	7.92	10	
p-Isopropyltoluene	20.760		"	20.000		104	86.3-123	8.66	10	
sec-Butylbenzene	20.830		"	20.000		104	86.2-120	6.68	10	
Styrene	21.360		"	20.000		107	89.9-119	8.94	10	
tert-Butylbenzene	20.650		"	20.000		103	85.2-119	7.19	10	
Tetrachloroethene (Tetrachloroethylene)	20.460		"	20.000		102	85.1-113	6.57	10	
Toluene	20.400		"	20.000		102	87.7-111	6.59	10	
trans-1,2-Dichloroethene	21.050		"	20.000		105	86.6-114	7.98	10	
trans-1,3-Dichloropropene	20.280		"	20.000		101	77.4-127	7.36	10	
Trichloroethene (Trichloroethylene)	20.030		"	20.000		100	87.8-114	9.19	10	
Trichlorofluoromethane (Freon 11)	20.730		"	20.000		104	78-129	7.92	10	
Vinyl chloride	20.540		"	20.000		103	78.8-115	7.63	10	



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

Duplicate (1409008-DUP1)

Source: E143510-12

Prepared & Analyzed: 09/04/14

EPA 8260C

(m- and/or p-)Xylene	129.00	100	ug/L		127.00			1.56	20	
1,1,1,2-Tetrachloroethane	U	50	"		U				20	U
1,1,1-Trichloroethane	U	50	"		U				20	U
1,1,2,2-Tetrachloroethane	U	50	"		U				20	U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	50	"		U				20	U
1,1,2-Trichloroethane	U	50	"		U				20	U
1,1-Dichloroethane	U	50	"		U				20	U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	50	"		U				20	U
1,1-Dichloropropene	U	50	"		U				20	U
1,2,3-Trichlorobenzene	U	50	"		U				20	U
1,2,3-Trichloropropane	U	50	"		U				20	U
1,2,4-Trichlorobenzene	U	50	"		U				20	U
1,2,4-Trimethylbenzene	11.000	50	"		12.000			8.70	20	Q-2, J
1,2-Dibromo-3-Chloropropane (DBCP)	U	100	"		U				20	U
1,2-Dibromoethane (EDB)	U	50	"		U				20	U
1,2-Dichlorobenzene	U	50	"		U				20	U
1,2-Dichloroethane	U	50	"		U				20	U
1,2-Dichloropropane	U	50	"		U				20	U
1,3,5-Trimethylbenzene	U	50	"		U				20	U
1,3-Dichlorobenzene	U	50	"		U				20	U
1,3-Dichloropropane	U	50	"		U				20	U
1,4-Dichlorobenzene	U	50	"		U				20	U
2,2-Dichloropropane	U	50	"		U				20	U
Acetone	17068	400	"		19152			11.5	20	
Benzene	336.00	50	"		325.00			3.33	20	
Bromobenzene	U	50	"		U				20	U
Bromochloromethane	U	50	"		U				20	U
Bromodichloromethane	U	50	"		U				20	U
Bromoform	U	100	"		U				20	U
Bromomethane	U	200	"		U				20	U
Carbon disulfide	U	200	"		U				20	U
Carbon Tetrachloride	U	50	"		U				20	U
Chlorobenzene	U	50	"		U				20	U
Chloroethane	U	200	"		U				20	U
Chloroform	U	50	"		U				20	U
Chloromethane	U	50	"		U				20	U
cis-1,2-Dichloroethene	U	50	"		U				20	U
cis-1,3-Dichloropropene	U	50	"		U				20	U



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

Duplicate (1409008-DUP1)	Source: E143510-12			Prepared & Analyzed: 09/04/14						
Cyclohexane	U	50	ug/L		U				20	U
Dibromochloromethane	U	50	"		U				20	U
Dibromomethane	U	50	"		U				20	U
Dichlorodifluoromethane (Freon 12)	U	50	"		U				20	U
Ethyl Benzene	74.000	50	"		78.000			5.26	20	
Hexachlorobutadiene	U	50	"		U				20	U
Isopropylbenzene	U	50	"		U				20	U
Methyl Acetate	1538.0	100	"		1617.0			5.01	20	
Methyl Butyl Ketone	158.00	100	"		199.00			23.0	20	XD-2
Methyl Ethyl Ketone	5670.0	400	"		6849.0			18.8	20	
Methyl Isobutyl Ketone	56.000	100	"		65.000			14.9	20	Q-2, J
Methyl T-Butyl Ether (MTBE)	U	50	"		U				20	U
Methylcyclohexane	U	50	"		U				20	U
Methylene Chloride	U	50	"		U				20	U
n-Butylbenzene	U	50	"		U				20	U
n-Propylbenzene	U	50	"		U				20	U
o-Chlorotoluene	U	50	"		U				20	U
o-Xylene	35.000	50	"		36.000			2.82	20	Q-2, J
p-Chlorotoluene	U	50	"		U				20	U
p-Isopropyltoluene	30.000	50	"		31.000			3.28	20	Q-2, J
sec-Butylbenzene	U	50	"		U				20	U
Styrene	U	50	"		U				20	U
tert-Butylbenzene	U	50	"		U				20	U
Tetrachloroethene (Tetrachloroethylene)	U	50	"		U				20	U
Toluene	1494.0	50	"		1447.0			3.20	20	
trans-1,2-Dichloroethene	U	50	"		U				20	U
trans-1,3-Dichloropropene	U	50	"		U				20	U
Trichloroethene (Trichloroethylene)	U	50	"		U				20	U
Trichlorofluoromethane (Freon 11)	U	50	"		U				20	U
Vinyl chloride	U	50	"		U				20	U
Tentatively Identified Compounds	U	1000	"		0.0000				200	U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division
 980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 14-0429

Project: 14-0429, Cabot Carbon/Koppers - Reported by Kristin Trapp

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

MRL Verification (1409008-PS1)

Prepared & Analyzed: 09/04/14

EPA 8260C

(m- and/or p-)Xylene	0.87000		ug/L	1.0000		87.0	71.3-137			MRL-2
1,1,1,2-Tetrachloroethane	0.43000		"	0.50000		86.0	56.5-148			MRL-2
1,1,1-Trichloroethane	0.45000		"	0.50000		90.0	59.3-146			MRL-2
1,1,2,2-Tetrachloroethane	0.43000		"	0.50000		86.0	60.2-138			MRL-2
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.41000		"	0.50000		82.0	60-144			MRL-2
1,1,2-Trichloroethane	0.46000		"	0.50000		92.0	67.1-131			MRL-2
1,1-Dichloroethane	0.48000		"	0.50000		96.0	67.8-133			MRL-2
1,1-Dichloroethene (1,1-Dichloroethylene)	0.45000		"	0.50000		90.0	65.4-136			MRL-2
1,1-Dichloropropene	0.43000		"	0.50000		86.0	69.4-135			MRL-2
1,2,3-Trichlorobenzene	0.39000		"	0.50000		78.0	65-137			MRL-2
1,2,3-Trichloropropane	0.38000		"	0.50000		76.0	63.4-134			MRL-2
1,2,4-Trichlorobenzene	0.41000		"	0.50000		82.0	63.9-137			MRL-2
1,2,4-Trimethylbenzene	0.40000		"	0.50000		80.0	66.5-141			MRL-2
1,2-Dibromo-3-Chloropropane (DBCP)	0.65000		"	1.0000		65.0	52.3-156			MRL-2
1,2-Dibromoethane (EDB)	0.43000		"	0.50000		86.0	67.3-135			MRL-2
1,2-Dichlorobenzene	0.45000		"	0.50000		90.0	66.4-131			MRL-2
1,2-Dichloroethane	0.44000		"	0.50000		88.0	63.9-142			MRL-2
1,2-Dichloropropane	0.45000		"	0.50000		90.0	68-133			MRL-2
1,3,5-Trimethylbenzene	0.41000		"	0.50000		82.0	66.8-139			MRL-2
1,3-Dichlorobenzene	0.44000		"	0.50000		88.0	66.4-132			MRL-2
1,3-Dichloropropane	0.43000		"	0.50000		86.0	67.4-133			MRL-2
1,4-Dichlorobenzene	0.52000		"	0.50000		104	66.5-130			MRL-2
2,2-Dichloropropane	0.46000		"	0.50000		92.0	33.4-174			MRL-2
Acetone	0.46000		"	1.0000		46.0	29.7-173			
Benzene	0.47000		"	0.50000		94.0	69.6-133			MRL-2
Bromobenzene	0.48000		"	0.50000		96.0	64.6-132			MRL-2
Bromochloromethane	0.46000		"	0.50000		92.0	63.6-137			MRL-2
Bromodichloromethane	0.50000		"	0.50000		100	60-145			MRL-2
Bromoform	0.75000		"	1.0000		75.0	43.1-162			MRL-2
Bromomethane	0.36000		"	0.50000		72.0	29.9-160			
Carbon disulfide	0.56000		"	0.50000		112	61.7-134			
Carbon Tetrachloride	0.43000		"	0.50000		86.0	48.8-160			MRL-2
Chlorobenzene	0.48000		"	0.50000		96.0	68.4-129			MRL-2
Chloroethane	0.41000		"	0.50000		82.0	56.7-138			
Chloroform	0.48000		"	0.50000		96.0	67.9-135			MRL-2
Chloromethane	0.52000		"	0.50000		104	48.9-138			MRL-2
cis-1,2-Dichloroethene	0.44000		"	0.50000		88.0	67.6-135			MRL-2
cis-1,3-Dichloropropene	0.47000		"	0.50000		94.0	61-141			MRL-2



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409008 - V 5030B VOA Wtr Prep

MRL Verification (1409008-PS1)

Prepared & Analyzed: 09/04/14

Cyclohexane	0.45000		ug/L	0.50000		90.0	63.5-142			MRL-2
Dibromochloromethane	0.47000		"	0.50000		94.0	51.7-153			MRL-2
Dibromomethane	0.41000		"	0.50000		82.0	67.3-137			MRL-2
Dichlorodifluoromethane (Freon 12)	0.42000		"	0.50000		84.0	43.5-152			MRL-2
Ethyl Benzene	0.44000		"	0.50000		88.0	70-134			MRL-2
Hexachlorobutadiene	0.41000		"	0.50000		82.0	60.2-136			MRL-2
Isopropylbenzene	0.41000		"	0.50000		82.0	64.5-140			MRL-2
Methyl Acetate	0.76000		"	1.0000		76.0	55.8-141			MRL-2
Methyl Butyl Ketone	0.59000		"	1.0000		59.0	49.9-156			MRL-2
Methyl Ethyl Ketone	0.64000		"	1.0000		64.0	48.1-155			MRL-2
Methyl Isobutyl Ketone	0.64000		"	1.0000		64.0	57-147			MRL-2
Methyl T-Butyl Ether (MTBE)	0.40000		"	0.50000		80.0	60.1-143			MRL-2
Methylcyclohexane	0.39000		"	0.50000		78.0	62.6-144			MRL-2
Methylene Chloride	0.50000		"	0.50000		100	61.2-138			MRL-2
n-Butylbenzene	0.40000		"	0.50000		80.0	65.7-141			MRL-2
n-Propylbenzene	0.41000		"	0.50000		82.0	67-137			MRL-2
o-Chlorotoluene	0.45000		"	0.50000		90.0	65.8-134			MRL-2
o-Xylene	0.47000		"	0.50000		94.0	68.9-136			MRL-2
p-Chlorotoluene	0.44000		"	0.50000		88.0	66.5-134			MRL-2
p-Isopropyltoluene	0.39000		"	0.50000		78.0	66.3-143			MRL-2
sec-Butylbenzene	0.42000		"	0.50000		84.0	66.2-140			MRL-2
Styrene	0.42000		"	0.50000		84.0	69.9-139			MRL-2
tert-Butylbenzene	0.44000		"	0.50000		88.0	65.2-139			MRL-2
Tetrachloroethene (Tetrachloroethylene)	0.46000		"	0.50000		92.0	65.1-133			MRL-2
Toluene	0.50000		"	0.50000		100	67.7-131			MRL-2
trans-1,2-Dichloroethene	0.45000		"	0.50000		90.0	66.6-134			MRL-2
trans-1,3-Dichloropropene	0.41000		"	0.50000		82.0	57.4-147			MRL-2
Trichloroethene (Trichloroethylene)	0.47000		"	0.50000		94.0	67.8-134			MRL-2
Trichlorofluoromethane (Freon 11)	0.40000		"	0.50000		80.0	58-149			MRL-2
Vinyl chloride	0.46000		"	0.50000		92.0	58.8-135			MRL-2



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

Blank (1409020-BLK1)

Prepared & Analyzed: 09/05/14

EPA 8260C

(m- and/or p-)Xylene	U	1.0	ug/L							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
1,1,2,2-Tetrachloroethane	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U
1,1-Dichloroethane	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,2-Dichloropropane	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Acetone	U	4.0	"							U
Benzene	U	0.50	"							U
Bromobenzene	U	0.50	"							U
Bromochloromethane	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Bromoform	U	1.0	"							U
Bromomethane	U	2.0	"							QC-1, U
Carbon disulfide	U	2.0	"							U
Carbon Tetrachloride	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
Chloroethane	U	2.0	"							U
Chloroform	U	0.50	"							U
Chloromethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
cis-1,3-Dichloropropene	U	0.50	"							U



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

Blank (1409020-BLK1)

Prepared & Analyzed: 09/05/14

Cyclohexane	U	0.50	ug/L							U
Dibromochloromethane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
Dichlorodifluoromethane (Freon 12)	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
Methyl Acetate	U	1.0	"							U
Methyl Butyl Ketone	U	1.0	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
o-Xylene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
Styrene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
Toluene	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
Vinyl chloride	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							U



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

LCS (1409020-BS1)

Prepared & Analyzed: 09/05/14

EPA 8260C

(m- and/or p-)Xylene	45.510		ug/L	40.000		114	91.3-117			
1,1,1,2-Tetrachloroethane	21.910		"	20.000		110	76.5-128			
1,1,1-Trichloroethane	21.890		"	20.000		109	79.3-126			
1,1,2,2-Tetrachloroethane	21.820		"	20.000		109	80.2-118			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	22.530		"	20.000		113	80-124			
1,1,2-Trichloroethane	21.960		"	20.000		110	87.1-111			
1,1-Dichloroethane	22.450		"	20.000		112	87.8-113			
1,1-Dichloroethene (1,1-Dichloroethylene)	23.000		"	20.000		115	85.4-116			
1,1-Dichloropropene	23.080		"	20.000		115	89.4-115			
1,2,3-Trichlorobenzene	21.750		"	20.000		109	85-117			
1,2,3-Trichloropropane	21.850		"	20.000		109	83.4-114			
1,2,4-Trichlorobenzene	22.300		"	20.000		112	83.9-117			
1,2,4-Trimethylbenzene	23.090		"	20.000		115	86.5-121			
1,2-Dibromo-3-Chloropropane (DBCP)	41.550		"	40.000		104	72.3-136			
1,2-Dibromoethane (EDB)	21.590		"	20.000		108	87.3-115			
1,2-Dichlorobenzene	21.670		"	20.000		108	86.4-111			
1,2-Dichloroethane	21.880		"	20.000		109	83.9-122			
1,2-Dichloropropane	22.910		"	20.000		115	88-113			QL-2
1,3,5-Trimethylbenzene	22.780		"	20.000		114	86.8-119			
1,3-Dichlorobenzene	21.750		"	20.000		109	86.4-112			
1,3-Dichloropropane	21.800		"	20.000		109	87.4-113			
1,4-Dichlorobenzene	21.520		"	20.000		108	86.5-110			
2,2-Dichloropropane	22.490		"	20.000		112	53.4-154			
Acetone	42.180		"	40.000		105	49.7-153			
Benzene	22.470		"	20.000		112	89.6-113			
Bromobenzene	21.890		"	20.000		109	84.6-112			
Bromochloromethane	22.290		"	20.000		111	83.6-117			
Bromodichloromethane	22.280		"	20.000		111	80-125			
Bromoform	42.080		"	40.000		105	63.1-142			
Bromomethane	7.0000		"	20.000		35.0	49.9-140			QC-1, QL-1
Carbon disulfide	21.990		"	20.000		110	81.7-114			
Carbon Tetrachloride	21.630		"	20.000		108	68.8-140			
Chlorobenzene	21.710		"	20.000		109	88.4-109			
Chloroethane	22.530		"	20.000		113	76.7-118			
Chloroform	21.870		"	20.000		109	87.9-115			
Chloromethane	19.500		"	20.000		97.5	68.9-118			
cis-1,2-Dichloroethene	22.680		"	20.000		113	87.6-115			
cis-1,3-Dichloropropene	22.500		"	20.000		112	81-121			



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

LCS (1409020-BS1)	Prepared & Analyzed: 09/05/14									
Cyclohexane	23.360		ug/L	20.000		117	83.5-122			
Dibromochloromethane	21.640		"	20.000		108	71.7-133			
Dibromomethane	21.690		"	20.000		108	87.3-117			
Dichlorodifluoromethane (Freon 12)	20.770		"	20.000		104	63.5-132			
Ethyl Benzene	22.410		"	20.000		112	90-114			
Hexachlorobutadiene	21.780		"	20.000		109	80.2-116			
Isopropylbenzene	22.670		"	20.000		113	84.5-120			
Methyl Acetate	43.350		"	40.000		108	75.8-121			
Methyl Butyl Ketone	44.400		"	40.000		111	69.9-136			
Methyl Ethyl Ketone	43.190		"	40.000		108	68.1-135			
Methyl Isobutyl Ketone	44.530		"	40.000		111	77-127			
Methyl T-Butyl Ether (MTBE)	22.630		"	20.000		113	80.1-123			
Methylcyclohexane	23.340		"	20.000		117	82.6-124			
Methylene Chloride	22.450		"	20.000		112	81.2-118			
n-Butylbenzene	22.810		"	20.000		114	85.7-121			
n-Propylbenzene	22.370		"	20.000		112	87-117			
o-Chlorotoluene	21.950		"	20.000		110	85.8-114			
o-Xylene	22.770		"	20.000		114	88.9-116			
p-Chlorotoluene	21.970		"	20.000		110	86.5-114			
p-Isopropyltoluene	22.740		"	20.000		114	86.3-123			
sec-Butylbenzene	22.560		"	20.000		113	86.2-120			
Styrene	23.420		"	20.000		117	89.9-119			
tert-Butylbenzene	22.450		"	20.000		112	85.2-119			
Tetrachloroethene (Tetrachloroethylene)	21.880		"	20.000		109	85.1-113			
Toluene	21.920		"	20.000		110	87.7-111			
trans-1,2-Dichloroethene	23.330		"	20.000		117	86.6-114			QL-2
trans-1,3-Dichloropropene	21.920		"	20.000		110	77.4-127			
Trichloroethene (Trichloroethylene)	22.170		"	20.000		111	87.8-114			
Trichlorofluoromethane (Freon 11)	22.030		"	20.000		110	78-129			
Vinyl chloride	21.430		"	20.000		107	78.8-115			



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

LCS Dup (1409020-BSD1)

Prepared & Analyzed: 09/05/14

EPA 8260C

(m- and/or p-)Xylene	43.610		ug/L	40.000		109	91.3-117	4.26	10	
1,1,1,2-Tetrachloroethane	20.810		"	20.000		104	76.5-128	5.15	10	
1,1,1-Trichloroethane	21.110		"	20.000		106	79.3-126	3.63	10	
1,1,2,2-Tetrachloroethane	20.990		"	20.000		105	80.2-118	3.88	16	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	21.510		"	20.000		108	80-124	4.63	10	
1,1,2-Trichloroethane	21.300		"	20.000		106	87.1-111	3.05	11	
1,1-Dichloroethane	21.660		"	20.000		108	87.8-113	3.58	10	
1,1-Dichloroethene (1,1-Dichloroethylene)	21.850		"	20.000		109	85.4-116	5.13	11	
1,1-Dichloropropene	21.770		"	20.000		109	89.4-115	5.84	10	
1,2,3-Trichlorobenzene	20.990		"	20.000		105	85-117	3.56	12	
1,2,3-Trichloropropane	20.850		"	20.000		104	83.4-114	4.68	20	
1,2,4-Trichlorobenzene	21.680		"	20.000		108	83.9-117	2.82	13	
1,2,4-Trimethylbenzene	22.300		"	20.000		112	86.5-121	3.48	11	
1,2-Dibromo-3-Chloropropane (DBCP)	41.280		"	40.000		103	72.3-136	0.652	26	
1,2-Dibromoethane (EDB)	21.370		"	20.000		107	87.3-115	1.02	12	
1,2-Dichlorobenzene	21.320		"	20.000		107	86.4-111	1.63	10	
1,2-Dichloroethane	20.540		"	20.000		103	83.9-122	6.32	10	
1,2-Dichloropropane	22.260		"	20.000		111	88-113	2.88	10	
1,3,5-Trimethylbenzene	21.920		"	20.000		110	86.8-119	3.85	10	
1,3-Dichlorobenzene	20.910		"	20.000		105	86.4-112	3.94	10	
1,3-Dichloropropane	21.030		"	20.000		105	87.4-113	3.60	10	
1,4-Dichlorobenzene	20.840		"	20.000		104	86.5-110	3.21	11	
2,2-Dichloropropane	21.380		"	20.000		107	53.4-154	5.06	10	
Acetone	39.530		"	40.000		98.8	49.7-153	6.49	65	
Benzene	21.560		"	20.000		108	89.6-113	4.13	10	
Bromobenzene	20.770		"	20.000		104	84.6-112	5.25	10	
Bromochloromethane	20.910		"	20.000		105	83.6-117	6.39	10	
Bromodichloromethane	21.140		"	20.000		106	80-125	5.25	10	
Bromoform	40.760		"	40.000		102	63.1-142	3.19	16	
Bromomethane	9.2500		"	20.000		46.2	49.9-140	27.7	20	QC-1, QL-1
Carbon disulfide	20.820		"	20.000		104	81.7-114	5.47	10	
Carbon Tetrachloride	20.620		"	20.000		103	68.8-140	4.78	10	
Chlorobenzene	21.140		"	20.000		106	88.4-109	2.66	10	
Chloroethane	21.190		"	20.000		106	76.7-118	6.13	12	
Chloroform	21.090		"	20.000		105	87.9-115	3.63	10	
Chloromethane	19.230		"	20.000		96.2	68.9-118	1.39	12	
cis-1,2-Dichloroethene	21.780		"	20.000		109	87.6-115	4.05	10	
cis-1,3-Dichloropropene	22.060		"	20.000		110	81-121	1.97	10	



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

LCS Dup (1409020-BSD1)

Prepared & Analyzed: 09/05/14

Cyclohexane	22.070		ug/L	20.000		110	83.5-122	5.68	10	
Dibromochloromethane	20.810		"	20.000		104	71.7-133	3.91	12	
Dibromomethane	21.180		"	20.000		106	87.3-117	2.38	10	
Dichlorodifluoromethane (Freon 12)	19.460		"	20.000		97.3	63.5-132	6.51	13	
Ethyl Benzene	21.480		"	20.000		107	90-114	4.24	10	
Hexachlorobutadiene	20.560		"	20.000		103	80.2-116	5.76	13	
Isopropylbenzene	21.880		"	20.000		109	84.5-120	3.55	10	
Methyl Acetate	41.780		"	40.000		104	75.8-121	3.69	22	
Methyl Butyl Ketone	43.710		"	40.000		109	69.9-136	1.57	38	
Methyl Ethyl Ketone	41.530		"	40.000		104	68.1-135	3.92	49	
Methyl Isobutyl Ketone	43.310		"	40.000		108	77-127	2.78	22	
Methyl T-Butyl Ether (MTBE)	21.560		"	20.000		108	80.1-123	4.84	10	
Methylcyclohexane	21.860		"	20.000		109	82.6-124	6.55	10	
Methylene Chloride	21.590		"	20.000		108	81.2-118	3.91	10	
n-Butylbenzene	22.190		"	20.000		111	85.7-121	2.76	10	
n-Propylbenzene	21.550		"	20.000		108	87-117	3.73	10	
o-Chlorotoluene	21.220		"	20.000		106	85.8-114	3.38	10	
o-Xylene	21.860		"	20.000		109	88.9-116	4.08	10	
p-Chlorotoluene	21.150		"	20.000		106	86.5-114	3.80	10	
p-Isopropyltoluene	21.870		"	20.000		109	86.3-123	3.90	10	
sec-Butylbenzene	21.730		"	20.000		109	86.2-120	3.75	10	
Styrene	22.250		"	20.000		111	89.9-119	5.12	10	
tert-Butylbenzene	21.700		"	20.000		108	85.2-119	3.40	10	
Tetrachloroethene (Tetrachloroethylene)	20.990		"	20.000		105	85.1-113	4.15	10	
Toluene	21.120		"	20.000		106	87.7-111	3.72	10	
trans-1,2-Dichloroethene	22.470		"	20.000		112	86.6-114	3.76	10	
trans-1,3-Dichloropropene	21.600		"	20.000		108	77.4-127	1.47	10	
Trichloroethene (Trichloroethylene)	20.990		"	20.000		105	87.8-114	5.47	10	
Trichlorofluoromethane (Freon 11)	20.490		"	20.000		102	78-129	7.24	10	
Vinyl chloride	20.490		"	20.000		102	78.8-115	4.48	10	



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

Duplicate (1409020-DUP1)

Source: E143510-11

Prepared & Analyzed: 09/05/14

EPA 8260C

(m- and/or p-)Xylene	56.800	40	ug/L		52.400			8.06	20	C-6, J
1,1,1,2-Tetrachloroethane	U	20	"		U				20	C-6, J, U
1,1,1-Trichloroethane	U	20	"		U				20	C-6, J, U
1,1,2,2-Tetrachloroethane	U	20	"		U				20	C-6, J, U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	20	"		U				20	C-6, J, U
1,1,2-Trichloroethane	U	20	"		U				20	C-6, J, U
1,1-Dichloroethane	U	20	"		U				20	C-6, J, U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	20	"		U				20	C-6, J, U
1,1-Dichloropropene	U	20	"		U				20	C-6, J, U
1,2,3-Trichlorobenzene	U	20	"		U				20	C-6, J, U
1,2,3-Trichloropropane	U	20	"		U				20	C-6, J, U
1,2,4-Trichlorobenzene	U	20	"		U				20	C-6, J, U
1,2,4-Trimethylbenzene	5.6000	20	"		4.8000			15.4	20	C-6, J, Q-2
1,2-Dibromo-3-Chloropropane (DBCP)	U	40	"		U				20	C-6, J, U
1,2-Dibromoethane (EDB)	U	20	"		U				20	C-6, J, U
1,2-Dichlorobenzene	U	20	"		U				20	C-6, J, U
1,2-Dichloroethane	U	20	"		U				20	C-6, J, U
1,2-Dichloropropane	U	20	"		U				20	C-6, J, U
1,3,5-Trimethylbenzene	U	20	"		U				20	J, C-6, U
1,3-Dichlorobenzene	U	20	"		U				20	C-6, J, U
1,3-Dichloropropane	U	20	"		U				20	C-6, J, U
1,4-Dichlorobenzene	U	20	"		U				20	C-6, J, U
2,2-Dichloropropane	U	20	"		U				20	C-6, J, U
Acetone	8814.0	160	"		8246.4			6.65	20	C-6, J, QC-4
Benzene	109.20	20	"		97.200			11.6	20	C-6, J
Bromobenzene	U	20	"		U				20	C-6, J, U
Bromochloromethane	U	20	"		U				20	C-6, J, U
Bromodichloromethane	U	20	"		U				20	C-6, J, U
Bromoform	U	40	"		U				20	C-6, J, U
Bromomethane	U	80	"		U				20	C-6, J, U
Carbon disulfide	U	80	"		U				20	C-6, J, U
Carbon Tetrachloride	U	20	"		U				20	C-6, J, U
Chlorobenzene	U	20	"		U				20	C-6, J, U
Chloroethane	U	80	"		U				20	C-6, J, U
Chloroform	U	20	"		U				20	J, C-6, U
Chloromethane	U	20	"		U				20	C-6, J, U
cis-1,2-Dichloroethene	U	20	"		U				20	J, C-6, U



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Volatile Organics (VOA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

Duplicate (1409020-DUP1)	Source: E143510-11			Prepared & Analyzed: 09/05/14						
cis-1,3-Dichloropropene	U	20	ug/L		U				20	C-6, J, U
Cyclohexane	U	20	"		U				20	C-6, J, U
Dibromochloromethane	U	20	"		U				20	C-6, J, U
Dibromomethane	U	20	"		U				20	C-6, J, U
Dichlorodifluoromethane (Freon 12)	U	20	"		U				20	C-6, J, U
Ethyl Benzene	38.400	20	"		33.600			13.3	20	C-6, J
Hexachlorobutadiene	U	20	"		U				20	C-6, J, U
Isopropylbenzene	2.8000	20	"		2.4000			15.4	20	C-6, J, Q-2
Methyl Acetate	U	40	"		U				20	C-6, J, U
Methyl Butyl Ketone	146.40	40	"		140.80			3.90	20	C-6, J
Methyl Ethyl Ketone	3252.0	160	"		3074.8			5.60	20	C-6, J
Methyl Isobutyl Ketone	51.200	40	"		46.000			10.7	20	C-6, J
Methyl T-Butyl Ether (MTBE)	U	20	"		U				20	C-6, J, U
Methylcyclohexane	U	20	"		U				20	C-6, J, U
Methylene Chloride	U	20	"		U				20	C-6, J, U
n-Butylbenzene	U	20	"		U				20	C-6, J, U
n-Propylbenzene	U	20	"		U				20	C-6, J, U
o-Chlorotoluene	U	20	"		U				20	C-6, J, U
o-Xylene	15.200	20	"		14.400			5.41	20	C-6, J, Q-2
p-Chlorotoluene	U	20	"		U				20	C-6, J, U
p-Isopropyltoluene	148.00	20	"		131.60			11.7	20	C-6, J
sec-Butylbenzene	U	20	"		U				20	C-6, J, U
Styrene	U	20	"		U				20	C-6, J, U
tert-Butylbenzene	U	20	"		U				20	C-6, J, U
Tetrachloroethene (Tetrachloroethylene)	U	20	"		U				20	C-6, J, U
Toluene	340.80	20	"		306.00			10.8	20	C-6, J
trans-1,2-Dichloroethene	U	20	"		U				20	C-6, J, U
trans-1,3-Dichloropropene	U	20	"		U				20	C-6, J, U
Trichloroethene (Trichloroethylene)	U	20	"		U				20	C-6, J, U
Trichlorofluoromethane (Freon 11)	U	20	"		U				20	C-6, J, U
Vinyl chloride	U	20	"		U				20	C-6, J, U
Tentatively Identified Compounds	U	400	"		0.0000				200	C-6, J



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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

MRL Verification (1409020-PS1)

Prepared & Analyzed: 09/05/14

EPA 8260C

(m- and/or p-)Xylene	4.3200		ug/L	4.0000		108	71.3-137			
1,1,1,2-Tetrachloroethane	2.0900		"	2.0000		104	56.5-148			
1,1,1-Trichloroethane	2.2500		"	2.0000		112	59.3-146			
1,1,2,2-Tetrachloroethane	2.0200		"	2.0000		101	60.2-138			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2.2600		"	2.0000		113	60-144			
1,1,2-Trichloroethane	2.2500		"	2.0000		112	67.1-131			
1,1-Dichloroethane	2.3500		"	2.0000		118	67.8-133			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.2800		"	2.0000		114	65.4-136			
1,1-Dichloropropene	2.1800		"	2.0000		109	69.4-135			
1,2,3-Trichlorobenzene	1.9100		"	2.0000		95.5	65-137			
1,2,3-Trichloropropane	2.0700		"	2.0000		104	63.4-134			
1,2,4-Trichlorobenzene	1.9500		"	2.0000		97.5	63.9-137			
1,2,4-Trimethylbenzene	2.0400		"	2.0000		102	66.5-141			
1,2-Dibromo-3-Chloropropane (DBCP)	3.9600		"	4.0000		99.0	52.3-156			
1,2-Dibromoethane (EDB)	2.1000		"	2.0000		105	67.3-135			
1,2-Dichlorobenzene	2.1300		"	2.0000		106	66.4-131			
1,2-Dichloroethane	2.3000		"	2.0000		115	63.9-142			
1,2-Dichloropropane	2.3300		"	2.0000		116	68-133			
1,3,5-Trimethylbenzene	2.0900		"	2.0000		104	66.8-139			
1,3-Dichlorobenzene	2.1400		"	2.0000		107	66.4-132			
1,3-Dichloropropane	2.2100		"	2.0000		110	67.4-133			
1,4-Dichlorobenzene	2.1900		"	2.0000		110	66.5-130			
2,2-Dichloropropane	2.3000		"	2.0000		115	33.4-174			
Acetone	4.4400		"	4.0000		111	29.7-173			MRL-2
Benzene	2.3300		"	2.0000		116	69.6-133			
Bromobenzene	2.1300		"	2.0000		106	64.6-132			
Bromochloromethane	2.2000		"	2.0000		110	63.6-137			
Bromodichloromethane	2.2400		"	2.0000		112	60-145			
Bromoform	3.8600		"	4.0000		96.5	43.1-162			
Bromomethane	0.39000		"	2.0000		19.5	29.9-160			MRL-2, QC-1, QR-1
Carbon disulfide	2.3800		"	2.0000		119	61.7-134			MRL-2
Carbon Tetrachloride	2.1400		"	2.0000		107	48.8-160			
Chlorobenzene	2.1600		"	2.0000		108	68.4-129			
Chloroethane	2.3200		"	2.0000		116	56.7-138			MRL-2
Chloroform	2.3000		"	2.0000		115	67.9-135			
Chloromethane	2.0100		"	2.0000		100	48.9-138			
cis-1,2-Dichloroethene	2.2900		"	2.0000		114	67.6-135			



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Volatile Organics (VOA) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1409020 - V 5030B VOA Wtr Prep

MRL Verification (1409020-PS1)

Prepared & Analyzed: 09/05/14

cis-1,3-Dichloropropene	2.1500		ug/L	2.0000		108	61-141			
Cyclohexane	2.1400		"	2.0000		107	63.5-142			
Dibromochloromethane	2.1700		"	2.0000		108	51.7-153			
Dibromomethane	2.2900		"	2.0000		114	67.3-137			
Dichlorodifluoromethane (Freon 12)	2.1400		"	2.0000		107	43.5-152			
Ethyl Benzene	2.1900		"	2.0000		110	70-134			
Hexachlorobutadiene	2.0700		"	2.0000		104	60.2-136			
Isopropylbenzene	2.0800		"	2.0000		104	64.5-140			
Methyl Acetate	4.5400		"	4.0000		114	55.8-141			
Methyl Butyl Ketone	4.0500		"	4.0000		101	49.9-156			
Methyl Ethyl Ketone	3.8500		"	4.0000		96.2	48.1-155			MRL-2
Methyl Isobutyl Ketone	3.9900		"	4.0000		99.8	57-147			
Methyl T-Butyl Ether (MTBE)	2.1800		"	2.0000		109	60.1-143			
Methylcyclohexane	2.1100		"	2.0000		106	62.6-144			
Methylene Chloride	2.3200		"	2.0000		116	61.2-138			
n-Butylbenzene	1.9800		"	2.0000		99.0	65.7-141			
n-Propylbenzene	2.0700		"	2.0000		104	67-137			
o-Chlorotoluene	2.1700		"	2.0000		108	65.8-134			
o-Xylene	2.1100		"	2.0000		106	68.9-136			
p-Chlorotoluene	2.1400		"	2.0000		107	66.5-134			
p-Isopropyltoluene	2.0100		"	2.0000		100	66.3-143			
sec-Butylbenzene	2.0500		"	2.0000		102	66.2-140			
Styrene	2.0500		"	2.0000		102	69.9-139			
tert-Butylbenzene	2.0600		"	2.0000		103	65.2-139			
Tetrachloroethene (Tetrachloroethylene)	2.2000		"	2.0000		110	65.1-133			
Toluene	2.2100		"	2.0000		110	67.7-131			
trans-1,2-Dichloroethene	2.3800		"	2.0000		119	66.6-134			
trans-1,3-Dichloropropene	2.0300		"	2.0000		102	57.4-147			
Trichloroethene (Trichloroethylene)	2.1400		"	2.0000		107	67.8-134			
Trichlorofluoromethane (Freon 11)	2.2700		"	2.0000		114	58-149			
Vinyl chloride	2.1800		"	2.0000		109	58.8-135			



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Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- C-6 Sample aliquot taken from VOA vial with headspace (air bubble greater than 5-6 mm diameter).
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-2 MRL verification for Non-Potable Water matrix
- Q-2 Result greater than MDL but less than MRL.
- QC-1 Analyte concentration low in continuing calibration verification standard
- QC-4 Result greater than the highest point on the calibration curve
- QL-1 Laboratory Control Spike Recovery less than method control limits
- QL-2 Laboratory Control Spike Recovery greater than method control limits
- QR-1 MRL verification recovery less than lower control limits.
- XD-1 Duplicate results less than MRL
- XD-2 Duplicate results less than 5X MRL