ENVIRONMENTAL
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12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Ellis
Environ
5401 Veterans Pkwy Ste 201
St. Peters, MO 63376

June 01, 2004

ESC Sample # : L156388-01

Date Received : May 28, 2004
Description : Eagle Picher, Lenexa

Site ID :

Sample ID : LMW-2

Project # : 21-12631A

Collected By : Doug M. Burge
Collection Date : 05/27/04 14:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.025	mg/l	8260B	05/28/04	1
Acrolein	BDL	0.050	mg/l	8260B	05/28/04	1
Acrylonitrile	BDL	0.010	mg/l	8260B	05/28/04	1
Benzene	BDL	0.0010	mg/l	8260B	05/28/04	1
Bromobenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	05/28/04	1
Bromoform	BDL	0.0010	mg/l	8260B	05/28/04	1
Bromomethane	BDL	0.0010	mg/l	8260B	05/28/04	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	05/28/04	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	05/28/04	1
Chloroethane	BDL	0.0010	mg/l	8260B	05/28/04	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	05/28/04	1
Chloroform	BDL	0.0050	mg/l	8260B	05/28/04	1
Chloromethane	BDL	0.0010	mg/l	8260B	05/28/04	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	05/28/04	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,2-Dibromo-3-Chloropropane	BDL	0.0020	mg/l	8260B	05/28/04	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	05/28/04	1
Dibromomethane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	05/28/04	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	05/28/04	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	05/28/04	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	05/28/04	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	05/28/04	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
MN - 047-999-395

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Est. 1970

REPORT OF ANALYSIS

Mr. Mike Ellis
Environ
5401 Veterans Pkwy Ste 201
St. Peters, MO 63376

June 01, 2004

ESC Sample # : L156388-01

Date Received : May 28, 2004
Description : Eagle Picher, Lenexa

Site ID :

Sample ID : LMW-2

Project # : 21-12631A

Collected By : Doug M. Burge
Collection Date : 05/27/04 14:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	05/28/04	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	05/28/04	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	05/28/04	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	05/28/04	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	05/28/04	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	05/28/04	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	05/28/04	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	05/28/04	1
Naphthalene	BDL	0.0050	mg/l	8260B	05/28/04	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
Styrene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	05/28/04	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	05/28/04	1
Toluene	BDL	0.0050	mg/l	8260B	05/28/04	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	05/28/04	1
Trichloroethene	BDL	0.0010	mg/l	8260B	05/28/04	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	05/28/04	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	05/28/04	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	05/28/04	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	05/28/04	1
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	05/28/04	1
Dibromofluoromethane	100		% Rec.	8260B	05/28/04	1
4-Bromofluorobenzene	94.		% Rec.	8260B	05/28/04	1

Jeff Carr, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
MN - 047-999-395

Note:
The reported analytical results relate only to the sample submitted.
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Reported: 06/01/04 15:10 Printed: 06/01/04 16:42

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Est. 1970

REPORT OF ANALYSIS

Mr. Mike Ellis
Environ
5401 Veterans Pkwy Ste 201
St. Peters, MO 63376

June 01, 2004

ESC Sample # : L156388-02

Date Received : May 28, 2004
Description : Eagle Picher, Lenexa

Site ID :

Sample ID : LMW-2

Project # : 21-12631A

Collected By : Doug M. Burge
Collection Date : 05/27/04 16:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Mercury	BDL	0.00020	mg/l	7470A	05/28/04	1
Arsenic	BDL	0.010	mg/l	6010B	05/29/04	1
Barium	0.23	0.0050	mg/l	6010B	05/29/04	1
Cadmium	0.0055	0.0050	mg/l	6010B	05/29/04	1
Chromium	BDL	0.010	mg/l	6010B	05/29/04	1
Lead	BDL	0.0050	mg/l	6010B	05/29/04	1
Selenium	BDL	0.010	mg/l	6010B	05/29/04	1
Silver	BDL	0.0050	mg/l	6010B	05/29/04	1

Jeff Carr, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
MN - 047-999-395

Note:
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Reported: 06/01/04 15:10 Printed: 06/01/04 16:42

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L156388-01	Acetone	J4J5
	Chloromethane	J4
	Trichlorofluoromethane	J4
	Vinyl chloride	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits						
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	79-126	83-119
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	81-114	82-116
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	65-129	72-126

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/01/04 at 16:42:31

TSR Signing Reports: 206
R2 - Rush: Next Day

Sample: L156388-01 Account: ENVIRON Received: 05/28/04 07:30 Due Date: 06/01/04 00:00 RPT Date: 06/01/04 15:10

Sample: L156388-02 Account: ENVIRON Received: 05/28/04 07:30 Due Date: 06/01/04 00:00 RPT Date: 06/01/04 15:10

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Environ
Mr. Mike Ellis
5401 Veterans Pkwy Ste 201

St. Peters, MO 63376

Quality Assurance Report
Level II

L156388

June 01, 2004

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
1,1,1,2-Tetrachloroethane	< .001	mg/l	05/28/04 07:18	WG157904
1,1,1-Trichloroethane	< .001	mg/l	05/28/04 07:18	WG157904
1,1,2,2-Tetrachloroethane	< .001	mg/l	05/28/04 07:18	WG157904
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l	05/28/04 07:18	WG157904
1,1,2-Trichloroethane	< .001	mg/l	05/28/04 07:18	WG157904
1,1-Dichloroethane	< .001	mg/l	05/28/04 07:18	WG157904
1,1-Dichloroethene	< .001	mg/l	05/28/04 07:18	WG157904
1,1-Dichloropropene	< .001	mg/l	05/28/04 07:18	WG157904
1,2,3-Trichlorobenzene	< .001	mg/l	05/28/04 07:18	WG157904
1,2,3-Trichloropropane	< .001	mg/l	05/28/04 07:18	WG157904
1,2,3-Trimethylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
1,2,4-Trichlorobenzene	< .001	mg/l	05/28/04 07:18	WG157904
1,2,4-Trimethylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
1,2-Dibromo-3-Chloropropane	< .002	mg/l	05/28/04 07:18	WG157904
1,2-Dibromoethane	< .001	mg/l	05/28/04 07:18	WG157904
1,2-Dichlorobenzene	< .001	mg/l	05/28/04 07:18	WG157904
1,2-Dichloroethane	< .001	mg/l	05/28/04 07:18	WG157904
1,2-Dichloropropane	< .001	mg/l	05/28/04 07:18	WG157904
1,3,5-Trimethylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
1,3-Dichlorobenzene	< .001	mg/l	05/28/04 07:18	WG157904
1,3-Dichloropropane	< .001	mg/l	05/28/04 07:18	WG157904
1,4-Dichlorobenzene	< .001	mg/l	05/28/04 07:18	WG157904
2,2-Dichloropropane	< .001	mg/l	05/28/04 07:18	WG157904
2-Butanone (MEK)	< .01	mg/l	05/28/04 07:18	WG157904
2-Chloroethyl vinyl ether	< .05	mg/l	05/28/04 07:18	WG157904
2-Chlorotoluene	< .001	mg/l	05/28/04 07:18	WG157904
4-Chlorotoluene	< .001	mg/l	05/28/04 07:18	WG157904
4-Methyl-2-pentanone (MIBK)	< .01	mg/l	05/28/04 07:18	WG157904
Acetone	< .025	mg/l	05/28/04 07:18	WG157904
Acrolein	< .05	mg/l	05/28/04 07:18	WG157904
Acrylonitrile	< .01	mg/l	05/28/04 07:18	WG157904
Benzene	< .001	mg/l	05/28/04 07:18	WG157904
Bromobenzene	< .001	mg/l	05/28/04 07:18	WG157904
Bromodichloromethane	< .001	mg/l	05/28/04 07:18	WG157904
Bromoform	< .001	mg/l	05/28/04 07:18	WG157904
Bromomethane	< .001	mg/l	05/28/04 07:18	WG157904
Carbon tetrachloride	< .001	mg/l	05/28/04 07:18	WG157904
Chlorobenzene	< .001	mg/l	05/28/04 07:18	WG157904
Chlorodibromomethane	< .001	mg/l	05/28/04 07:18	WG157904
Chloroethane	< .001	mg/l	05/28/04 07:18	WG157904
Chloroform	< .005	mg/l	05/28/04 07:18	WG157904
Chloromethane	< .001	mg/l	05/28/04 07:18	WG157904
cis-1,2-Dichloroethene	< .001	mg/l	05/28/04 07:18	WG157904
cis-1,3-Dichloropropene	< .001	mg/l	05/28/04 07:18	WG157904
Di-isopropyl ether	< .001	mg/l	05/28/04 07:18	WG157904
Dibromomethane	< .001	mg/l	05/28/04 07:18	WG157904
Dichlorodifluoromethane	< .001	mg/l	05/28/04 07:18	WG157904
Ethylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
Hexachlorobutadiene	< .001	mg/l	05/28/04 07:18	WG157904
Isopropylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
Methyl tert-butyl ether	< .001	mg/l	05/28/04 07:18	WG157904
Methylene Chloride	< .005	mg/l	05/28/04 07:18	WG157904
n-Butylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
n-Propylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
Naphthalene	< .005	mg/l	05/28/04 07:18	WG157904
p-Isopropyltoluene	< .001	mg/l	05/28/04 07:18	WG157904
sec-Butylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
Styrene	< .001	mg/l	05/28/04 07:18	WG157904
tert-Butylbenzene	< .001	mg/l	05/28/04 07:18	WG157904
Tetrachloroethene	< .001	mg/l	05/28/04 07:18	WG157904

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Environ
Mr. Mike Ellis
5401 Veterans Pkwy Ste 201

St. Peters, MO 63376

Quality Assurance Report
Level II

L156388

June 01, 2004

Toluene	< .005	mg/l	05/28/04 07:18	WG157904

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
trans-1,2-Dichloroethene	< .001	mg/l	05/28/04 07:18	WG157904
trans-1,3-Dichloropropene	< .001	mg/l	05/28/04 07:18	WG157904
Trichloroethene	< .001	mg/l	05/28/04 07:18	WG157904
Trichlorofluoromethane	< .001	mg/l	05/28/04 07:18	WG157904
Vinyl chloride	< .001	mg/l	05/28/04 07:18	WG157904
Xylenes, Total	< .003	mg/l	05/28/04 07:18	WG157904
Mercury	< .0002	mg/l	05/28/04 12:12	WG157948

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.02	0.0222	111.	84-128	WG157904
1,1,1-Trichloroethane	mg/l	.02	0.0214	107.	71-122	WG157904
1,1,2,2-Tetrachloroethane	mg/l	.02	0.0235	118.	78-120	WG157904
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.02	0.0180	90.2	37-127	WG157904
1,1,2-Trichloroethane	mg/l	.02	0.0218	109.	82-117	WG157904
1,1-Dichloroethane	mg/l	.02	0.0216	108.	59-135	WG157904
1,1-Dichloroethene	mg/l	.02	0.0219	110.	60-166	WG157904
1,1-Dichloropropene	mg/l	.02	0.0224	112.	67-132	WG157904
1,2,3-Trichlorobenzene	mg/l	.02	0.0188	93.8	81-122	WG157904
1,2,3-Trichloropropane	mg/l	.02	0.0231	115.	78-122	WG157904
1,2,3-Trimethylbenzene	mg/l	.02	0.0159	79.6	64-100	WG157904
1,2,4-Trichlorobenzene	mg/l	.02	0.0200	100.	78-132	WG157904
1,2,4-Trimethylbenzene	mg/l	.02	0.0191	95.4	82-117	WG157904
1,2-Dibromo-3-Chloropropane	mg/l	.02	0.0221	110.	58-140	WG157904
1,2-Dibromoethane	mg/l	.02	0.0216	108.	79-121	WG157904
1,2-Dichlorobenzene	mg/l	.02	0.0199	99.4	83-113	WG157904
1,2-Dichloroethane	mg/l	.02	0.0222	111.	81-122	WG157904
1,2-Dichloropropane	mg/l	.02	0.0212	106.	74-125	WG157904
1,3,5-Trimethylbenzene	mg/l	.02	0.0187	93.4	80-118	WG157904
1,3-Dichlorobenzene	mg/l	.02	0.0191	95.6	80-124	WG157904
1,3-Dichloropropane	mg/l	.02	0.0222	111.	86-120	WG157904
1,4-Dichlorobenzene	mg/l	.02	0.0205	102.	84-115	WG157904
2,2-Dichloropropane	mg/l	.02	0.0214	107.	71-131	WG157904
2-Butanone (MEK)	mg/l	.1	0.128	128.	25-137	WG157904
2-Chloroethyl vinyl ether	mg/l	.1	0.0472	47.2	15-161	WG157904
2-Chlorotoluene	mg/l	.02	0.0196	98.2	79-112	WG157904
4-Chlorotoluene	mg/l	.02	0.0198	98.9	82-116	WG157904
4-Methyl-2-pentanone (MIBK)	mg/l	.1	0.120	120.	57-145	WG157904
Acetone	mg/l	.1	0.200	200.	14-115	WG157904
Acrolein	mg/l	.1	0.0409	40.9	16-83	WG157904
Acrylonitrile	mg/l	.1	0.108	108.	32-142	WG157904
Benzene	mg/l	.02	0.0209	105.	66-127	WG157904
Bromobenzene	mg/l	.02	0.0195	97.3	79-127	WG157904
Bromodichloromethane	mg/l	.02	0.0227	113.	76-117	WG157904
Bromoform	mg/l	.02	0.0202	101.	72-125	WG157904
Bromomethane	mg/l	.02	0.0206	103.	25-170	WG157904
Carbon tetrachloride	mg/l	.02	0.0230	115.	65-127	WG157904
Chlorobenzene	mg/l	.02	0.0200	99.9	79-117	WG157904
Chlorodibromomethane	mg/l	.02	0.0208	104.	76-115	WG157904
Chloroethane	mg/l	.02	0.0212	106.	37-130	WG157904
Chloroform	mg/l	.02	0.0207	104.	70-119	WG157904
Chloromethane	mg/l	.02	0.0220	110.	39-109	WG157904
cis-1,2-Dichloroethene	mg/l	.02	0.0215	108.	72-128	WG157904
cis-1,3-Dichloropropene	mg/l	.02	0.0209	104.	86-137	WG157904
Di-isopropyl ether	mg/l	.02	0.0197	98.6	54-147	WG157904
Dibromomethane	mg/l	.02	0.0216	108.	81-117	WG157904
Dichlorodifluoromethane	mg/l	.02	0.0231	115.	14-133	WG157904

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Mr. Mike Ellis
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St. Peters, MO 63376

Quality Assurance Report
Level II

L156388

June 01, 2004

Ethylbenzene	mg/l	.02	0.0195	97.7	75-117	WG157904

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Hexachlorobutadiene	mg/l	.02	0.0195	97.5	68-122	WG157904
Isopropylbenzene	mg/l	.02	0.0184	92.2	67-113	WG157904
Methyl tert-butyl ether	mg/l	.02	0.0198	99.2	65-128	WG157904
Methylene Chloride	mg/l	.02	0.0205	103.	60-127	WG157904
n-Butylbenzene	mg/l	.02	0.0201	100.	74-125	WG157904
n-Propylbenzene	mg/l	.02	0.0191	95.7	74-120	WG157904
Naphthalene	mg/l	.02	0.0180	90.1	51-127	WG157904
p-Isopropyltoluene	mg/l	.02	0.0184	92.2	74-122	WG157904
sec-Butylbenzene	mg/l	.02	0.0189	94.5	66-118	WG157904
Styrene	mg/l	.02	0.0178	88.9	78-114	WG157904
tert-Butylbenzene	mg/l	.02	0.0194	97.2	69-121	WG157904
Tetrachloroethene	mg/l	.02	0.0207	104.	71-132	WG157904
Toluene	mg/l	.02	0.0199	99.4	68-122	WG157904
trans-1,2-Dichloroethene	mg/l	.02	0.0224	112.	65-141	WG157904
trans-1,3-Dichloropropene	mg/l	.02	0.0190	95.1	82-132	WG157904
Trichloroethene	mg/l	.02	0.0221	110.	81-129	WG157904
Trichlorofluoromethane	mg/l	.02	0.0202	101.	46-94	WG157904
Vinyl chloride	mg/l	.02	0.0207	103.	40-95	WG157904
Xylenes, Total	mg/l	.06	0.0579	96.5	78-114	WG157904
Mercury	mg/l	.001	0.00106	106.	85-115	WG157948

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0221	0.0222	0.452	16	R197523-4	WG157904
1,1,1-Trichloroethane	mg/l	0.0212	0.0214	1.32	28	R197523-4	WG157904
1,1,2,2-Tetrachloroethane	mg/l	0.0234	0.0235	0.468	10	R197523-4	WG157904
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0185	0.0180	2.63	40	R197523-4	WG157904
1,1,2-Trichloroethane	mg/l	0.0218	0.0218	0.321	16	R197523-4	WG157904
1,1-Dichloroethane	mg/l	0.0209	0.0216	3.20	17	R197523-4	WG157904
1,1-Dichloroethene	mg/l	0.0221	0.0219	0.682	36	R197523-4	WG157904
1,1-Dichloropropene	mg/l	0.0221	0.0224	1.57	33	R197523-4	WG157904
1,2,3-Trichlorobenzene	mg/l	0.0208	0.0188	10.5	17	R197523-4	WG157904
1,2,3-Trichloropropane	mg/l	0.0227	0.0231	1.40	13	R197523-4	WG157904
1,2,3-Trimethylbenzene	mg/l	0.0158	0.0159	0.947	20	R197523-4	WG157904
1,2,4-Trichlorobenzene	mg/l	0.0213	0.0200	6.34	25	R197523-4	WG157904
1,2,4-Trimethylbenzene	mg/l	0.0192	0.0191	0.783	29	R197523-4	WG157904
1,2-Dibromo-3-Chloropropane	mg/l	0.0219	0.0221	1.09	21	R197523-4	WG157904
1,2-Dibromoethane	mg/l	0.0223	0.0216	3.05	19	R197523-4	WG157904
1,2-Dichlorobenzene	mg/l	0.0204	0.0199	2.68	16	R197523-4	WG157904
1,2-Dichloroethane	mg/l	0.0219	0.0222	1.27	13	R197523-4	WG157904
1,2-Dichloropropane	mg/l	0.0214	0.0212	0.798	14	R197523-4	WG157904
1,3,5-Trimethylbenzene	mg/l	0.0191	0.0187	2.17	28	R197523-4	WG157904
1,3-Dichlorobenzene	mg/l	0.0195	0.0191	1.87	25	R197523-4	WG157904
1,3-Dichloropropane	mg/l	0.0222	0.0222	0.405	15	R197523-4	WG157904
1,4-Dichlorobenzene	mg/l	0.0204	0.0205	0.0978	18	R197523-4	WG157904
2,2-Dichloropropane	mg/l	0.0219	0.0214	2.12	31	R197523-4	WG157904
2-Butanone (MEK)	mg/l	0.125	0.128	2.53	10	R197523-4	WG157904
2-Chloroethyl vinyl ether	mg/l	0.0450	0.0472	4.67	25	R197523-4	WG157904
2-Chlorotoluene	mg/l	0.0196	0.0196	0.00	24	R197523-4	WG157904
4-Chlorotoluene	mg/l	0.0202	0.0198	1.90	22	R197523-4	WG157904
4-Methyl-2-pentanone (MIBK)	mg/l	0.119	0.120	1.26	12	R197523-4	WG157904
Acetone	mg/l	0.197	0.200	1.47	20	R197523-4	WG157904
Acrolein	mg/l	0.0425	0.0409	3.93	34	R197523-4	WG157904
Acrylonitrile	mg/l	0.106	0.108	1.50	13	R197523-4	WG157904
Benzene	mg/l	0.0206	0.0209	1.44	20	R197523-4	WG157904
Bromobenzene	mg/l	0.0198	0.0195	1.88	22	R197523-4	WG157904
Bromodichloromethane	mg/l	0.0230	0.0227	1.49	13	R197523-4	WG157904

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Bromoform	mg/l	0.0208	0.0202	2.64	18	R197523-4	WG157904

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	Ref Samp	Batch
Bromomethane	mg/l	0.0200	0.0206	3.35	20	R197523-4	WG157904
Carbon tetrachloride	mg/l	0.0222	0.0230	3.50	36	R197523-4	WG157904
Chlorobenzene	mg/l	0.0203	0.0200	1.64	21	R197523-4	WG157904
Chlorodibromomethane	mg/l	0.0203	0.0208	2.19	17	R197523-4	WG157904
Chloroethane	mg/l	0.0210	0.0212	1.09	25	R197523-4	WG157904
Chloroform	mg/l	0.0200	0.0207	3.44	26	R197523-4	WG157904
Chloromethane	mg/l	0.0232	0.0220	5.18	31	R197523-4	WG157904
cis-1,2-Dichloroethene	mg/l	0.0216	0.0215	0.649	18	R197523-4	WG157904
cis-1,3-Dichloropropene	mg/l	0.0212	0.0209	1.47	17	R197523-4	WG157904
Di-isopropyl ether	mg/l	0.0191	0.0197	3.04	13	R197523-4	WG157904
Dibromomethane	mg/l	0.0212	0.0216	1.59	12	R197523-4	WG157904
Dichlorodifluoromethane	mg/l	0.0224	0.0231	2.95	28	R197523-4	WG157904
Ethylbenzene	mg/l	0.0198	0.0195	1.22	25	R197523-4	WG157904
Hexachlorobutadiene	mg/l	0.0209	0.0195	7.17	36	R197523-4	WG157904
Isopropylbenzene	mg/l	0.0189	0.0184	2.46	29	R197523-4	WG157904
Methyl tert-butyl ether	mg/l	0.0201	0.0198	1.10	16	R197523-4	WG157904
Methylene Chloride	mg/l	0.0202	0.0205	1.77	16	R197523-4	WG157904
n-Butylbenzene	mg/l	0.0207	0.0201	3.29	30	R197523-4	WG157904
n-Propylbenzene	mg/l	0.0194	0.0191	1.20	30	R197523-4	WG157904
Naphthalene	mg/l	0.0212	0.0180	16.5	39	R197523-4	WG157904
p-Isopropyltoluene	mg/l	0.0188	0.0184	2.15	36	R197523-4	WG157904
sec-Butylbenzene	mg/l	0.0192	0.0189	1.73	32	R197523-4	WG157904
Styrene	mg/l	0.0182	0.0178	2.22	21	R197523-4	WG157904
tert-Butylbenzene	mg/l	0.0200	0.0194	2.69	30	R197523-4	WG157904
Tetrachloroethene	mg/l	0.0207	0.0207	0.0965	32	R197523-4	WG157904
Toluene	mg/l	0.0200	0.0199	0.502	17	R197523-4	WG157904
trans-1,2-Dichloroethene	mg/l	0.0240	0.0224	6.86	27	R197523-4	WG157904
trans-1,3-Dichloropropene	mg/l	0.0187	0.0190	1.54	16	R197523-4	WG157904
Trichloroethene	mg/l	0.0223	0.0221	0.992	25	R197523-4	WG157904
Trichlorofluoromethane	mg/l	0.0202	0.0202	0.00	41	R197523-4	WG157904
Vinyl chloride	mg/l	0.0214	0.0207	3.28	36	R197523-4	WG157904
Xylenes, Total	mg/l	0.0582	0.0579	0.534	21	R197523-4	WG157904
Mercury	mg/l	0.0010	0.0010	2.87	20	R197425-3	WG157948

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0208	0.00	0.02	104.	67-139	L156388-01	WG157904
1,1,1-Trichloroethane	mg/l	0.0191	0.00	0.02	95.7	46-143	L156388-01	WG157904
1,1,2,2-Tetrachloroethane	mg/l	0.0213	0.00	0.02	106.	70-116	L156388-01	WG157904
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0166	0.00	0.02	82.8	30-134	L156388-01	WG157904
1,1,2-Trichloroethane	mg/l	0.0215	0.00	0.02	108.	70-122	L156388-01	WG157904
1,1-Dichloroethane	mg/l	0.0202	0.00	0.02	101.	47-138	L156388-01	WG157904
1,1-Dichloroethene	mg/l	0.0211	0.00	0.02	106.	56-162	L156388-01	WG157904
1,1-Dichloropropene	mg/l	0.0210	0.00	0.02	105.	49-140	L156388-01	WG157904
1,2,3-Trichlorobenzene	mg/l	0.0166	0.00	0.02	82.8	63-124	L156388-01	WG157904
1,2,3-Trichloropropane	mg/l	0.0201	0.00	0.02	101.	66-124	L156388-01	WG157904
1,2,3-Trimethylbenzene	mg/l	0.0150	0.00	0.02	74.9	51-109	L156388-01	WG157904
1,2,4-Trichlorobenzene	mg/l	0.0169	0.00	0.02	84.7	52-130	L156388-01	WG157904
1,2,4-Trimethylbenzene	mg/l	0.0176	0.00	0.02	88.0	62-126	L156388-01	WG157904
1,2-Dibromo-3-Chloropropane	mg/l	0.0209	0.00	0.02	104.	48-122	L156388-01	WG157904
1,2-Dibromoethane	mg/l	0.0209	0.00	0.02	105.	74-121	L156388-01	WG157904
1,2-Dichlorobenzene	mg/l	0.0190	0.00	0.02	94.8	65-119	L156388-01	WG157904
1,2-Dichloroethane	mg/l	0.0199	0.00	0.02	99.7	48-148	L156388-01	WG157904
1,2-Dichloropropane	mg/l	0.0200	0.00	0.02	100.	66-122	L156388-01	WG157904
1,3,5-Trimethylbenzene	mg/l	0.0175	0.00	0.02	87.6	60-127	L156388-01	WG157904
1,3-Dichlorobenzene	mg/l	0.0171	0.00	0.02	85.3	62-122	L156388-01	WG157904
1,3-Dichloropropane	mg/l	0.0214	0.00	0.02	107.	77-121	L156388-01	WG157904

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1,4-Dichlorobenzene	mg/l	0.0185	0.00	0.02	92.7	60-123	L156388-01	WG157904

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
2,2-Dichloropropane	mg/l	0.0195	0.00	0.02	97.3	40-148	L156388-01	WG157904
2-Butanone (MEK)	mg/l	0.104	0.00	0.1	104.	26-114	L156388-01	WG157904
2-Chloroethyl vinyl ether	mg/l	0.0099	0.00	0.1	9.9	0-100	L156388-01	WG157904
2-Chlorotoluene	mg/l	0.0188	0.00	0.02	94.2	62-120	L156388-01	WG157904
4-Chlorotoluene	mg/l	0.0183	0.00	0.02	91.4	63-123	L156388-01	WG157904
4-Methyl-2-pentanone (MIBK)	mg/l	0.104	0.00	0.1	104.	56-133	L156388-01	WG157904
Acetone	mg/l	0.175	0.00	0.1	175.	13-145	L156388-01	WG157904
Acrolein	mg/l	0.0325	0.00	0.1	32.5	14-90	L156388-01	WG157904
Acrylonitrile	mg/l	0.0966	0.00	0.1	96.6	33-128	L156388-01	WG157904
Benzene	mg/l	0.0198	0.00	0.02	98.9	55-130	L156388-01	WG157904
Bromobenzene	mg/l	0.0187	0.00	0.02	93.6	67-134	L156388-01	WG157904
Bromodichloromethane	mg/l	0.0210	0.00	0.02	105.	57-126	L156388-01	WG157904
Bromoform	mg/l	0.0179	0.00	0.02	89.4	52-130	L156388-01	WG157904
Bromomethane	mg/l	0.0179	0.00	0.02	89.3	17-150	L156388-01	WG157904
Carbon tetrachloride	mg/l	0.0194	0.00	0.02	97.2	42-141	L156388-01	WG157904
Chlorobenzene	mg/l	0.0196	0.00	0.02	98.2	66-125	L156388-01	WG157904
Chlorodibromomethane	mg/l	0.0199	0.00	0.02	99.6	58-123	L156388-01	WG157904
Chloroethane	mg/l	0.0198	0.00	0.02	99.0	29-131	L156388-01	WG157904
Chloroform	mg/l	0.0190	0.00	0.02	95.1	46-136	L156388-01	WG157904
Chloromethane	mg/l	0.0191	0.00	0.02	95.7	26-120	L156388-01	WG157904
cis-1,2-Dichloroethene	mg/l	0.0205	0.00	0.02	103.	59-133	L156388-01	WG157904
cis-1,3-Dichloropropene	mg/l	0.0195	0.00	0.02	97.6	77-132	L156388-01	WG157904
Di-isopropyl ether	mg/l	0.0206	0.00	0.02	103.	47-141	L156388-01	WG157904
Dibromomethane	mg/l	0.0195	0.00	0.02	97.7	64-119	L156388-01	WG157904
Dichlorodifluoromethane	mg/l	0.0179	0.00	0.02	89.4	13-113	L156388-01	WG157904
Ethylbenzene	mg/l	0.0197	0.00	0.02	98.6	61-123	L156388-01	WG157904
Hexachlorobutadiene	mg/l	0.0166	0.00	0.02	83.1	39-138	L156388-01	WG157904
Isopropylbenzene	mg/l	0.0181	0.00	0.02	90.6	56-120	L156388-01	WG157904
Methyl tert-butyl ether	mg/l	0.0202	0.00	0.02	101.	43-140	L156388-01	WG157904
Methylene Chloride	mg/l	0.0197	0.00	0.02	98.5	55-123	L156388-01	WG157904
n-Butylbenzene	mg/l	0.0178	0.00	0.02	89.2	43-139	L156388-01	WG157904
n-Propylbenzene	mg/l	0.0183	0.00	0.02	91.7	57-127	L156388-01	WG157904
Naphthalene	mg/l	0.0176	0.00	0.02	88.2	39-122	L156388-01	WG157904
p-Isopropyltoluene	mg/l	0.0169	0.00	0.02	84.6	58-127	L156388-01	WG157904
sec-Butylbenzene	mg/l	0.0179	0.00	0.02	89.4	55-124	L156388-01	WG157904
Styrene	mg/l	0.0160	0.00	0.02	79.8	61-119	L156388-01	WG157904
tert-Butylbenzene	mg/l	0.0189	0.00	0.02	94.3	58-129	L156388-01	WG157904
Tetrachloroethene	mg/l	0.0187	0.00	0.02	93.6	49-144	L156388-01	WG157904
Toluene	mg/l	0.0184	0.00	0.02	91.9	59-123	L156388-01	WG157904
trans-1,2-Dichloroethene	mg/l	0.0204	0.00	0.02	102.	53-145	L156388-01	WG157904
trans-1,3-Dichloropropene	mg/l	0.0177	0.00	0.02	88.6	69-125	L156388-01	WG157904
Trichloroethene	mg/l	0.0201	0.00	0.02	100.	61-141	L156388-01	WG157904
Trichlorofluoromethane	mg/l	0.0184	0.00	0.02	92.1	24-113	L156388-01	WG157904
Vinyl chloride	mg/l	0.0199	0.00	0.02	99.5	26-110	L156388-01	WG157904
Xylenes, Total	mg/l	0.0556	0.00	0.06	92.7	64-119	L156388-01	WG157904
Mercury	mg/l	0.0009	0.00	0.001	92.0	70-130	L156388-02	WG157948

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0215	0.0208	3.35	16	108.	L156388-01	WG157904
1,1,1-Trichloroethane	mg/l	0.0191	0.0191	0.367	28	95.3	L156388-01	WG157904
1,1,2,2-Tetrachloroethane	mg/l	0.0216	0.0213	1.21	10	108.	L156388-01	WG157904
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0173	0.0166	4.20	40	86.4	L156388-01	WG157904
1,1,2-Trichloroethane	mg/l	0.0208	0.0215	3.36	16	104.	L156388-01	WG157904
1,1-Dichloroethane	mg/l	0.0199	0.0202	1.10	17	99.7	L156388-01	WG157904
1,1-Dichloroethene	mg/l	0.0209	0.0211	1.19	36	104.	L156388-01	WG157904
1,1-Dichloropropene	mg/l	0.0209	0.0210	0.574	33	104.	L156388-01	WG157904

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(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

Environ
Mr. Mike Ellis
5401 Veterans Pkwy Ste 201

St. Peters, MO 63376

Quality Assurance Report
Level II

L156388

June 01, 2004

1,2,3-Trichlorobenzene	mg/l	0.0183	0.0166	9.82	17	91.3	L156388-01	WG157904

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
1,2,3-Trichloropropane	mg/l	0.0203	0.0201	1.09	13	102.	L156388-01	WG157904
1,2,3-Trimethylbenzene	mg/l	0.0152	0.0150	1.33	20	75.9	L156388-01	WG157904
1,2,4-Trichlorobenzene	mg/l	0.0178	0.0169	5.12	25	89.2	L156388-01	WG157904
1,2,4-Trimethylbenzene	mg/l	0.0178	0.0176	1.19	29	89.1	L156388-01	WG157904
1,2-Dibromo-3-Chloropropane	mg/l	0.0187	0.0209	10.7	21	93.7	L156388-01	WG157904
1,2-Dibromoethane	mg/l	0.0210	0.0209	0.429	19	105.	L156388-01	WG157904
1,2-Dichlorobenzene	mg/l	0.0187	0.0190	1.49	16	93.4	L156388-01	WG157904
1,2-Dichloroethane	mg/l	0.0197	0.0199	1.21	13	98.5	L156388-01	WG157904
1,2-Dichloropropane	mg/l	0.0205	0.0200	2.62	14	103.	L156388-01	WG157904
1,3,5-Trimethylbenzene	mg/l	0.0179	0.0175	2.09	28	89.4	L156388-01	WG157904
1,3-Dichlorobenzene	mg/l	0.0177	0.0171	3.68	25	88.5	L156388-01	WG157904
1,3-Dichloropropane	mg/l	0.0211	0.0214	1.60	15	106.	L156388-01	WG157904
1,4-Dichlorobenzene	mg/l	0.0188	0.0185	1.29	18	93.9	L156388-01	WG157904
2,2-Dichloropropane	mg/l	0.0193	0.0195	1.08	31	96.3	L156388-01	WG157904
2-Butanone (MEK)	mg/l	0.102	0.104	1.85	10	102.	L156388-01	WG157904
2-Chloroethyl vinyl ether	mg/l	0.0099	0.0099	0.100	25	9.96	L156388-01	WG157904
2-Chlorotoluene	mg/l	0.0193	0.0188	2.46	24	96.6	L156388-01	WG157904
4-Chlorotoluene	mg/l	0.0191	0.0183	4.23	22	95.3	L156388-01	WG157904
4-Methyl-2-pentanone (MIBK)	mg/l	0.102	0.104	1.56	12	102.	L156388-01	WG157904
Acetone	mg/l	0.167	0.175	4.24	23	167.	L156388-01	WG157904
Acrolein	mg/l	0.0371	0.0325	13.2	34	37.1	L156388-01	WG157904
Acrylonitrile	mg/l	0.0922	0.0966	4.66	13	92.2	L156388-01	WG157904
Benzene	mg/l	0.0195	0.0198	1.27	20	97.7	L156388-01	WG157904
Bromobenzene	mg/l	0.0192	0.0187	2.69	22	96.1	L156388-01	WG157904
Bromodichloromethane	mg/l	0.0210	0.0210	0.0954	13	105.	L156388-01	WG157904
Bromoform	mg/l	0.0182	0.0179	1.55	18	90.8	L156388-01	WG157904
Bromomethane	mg/l	0.0185	0.0179	3.79	20	92.7	L156388-01	WG157904
Carbon tetrachloride	mg/l	0.0198	0.0194	1.63	36	98.8	L156388-01	WG157904
Chlorobenzene	mg/l	0.0199	0.0196	1.06	21	99.3	L156388-01	WG157904
Chlorodibromomethane	mg/l	0.0195	0.0199	1.98	17	97.6	L156388-01	WG157904
Chloroethane	mg/l	0.0199	0.0198	0.353	25	99.3	L156388-01	WG157904
Chloroform	mg/l	0.0188	0.0190	1.00	26	94.1	L156388-01	WG157904
Chloromethane	mg/l	0.0198	0.0191	3.19	31	98.8	L156388-01	WG157904
cis-1,2-Dichloroethene	mg/l	0.0200	0.0205	2.37	18	100.	L156388-01	WG157904
cis-1,3-Dichloropropene	mg/l	0.0197	0.0195	1.07	17	98.6	L156388-01	WG157904
Di-isopropyl ether	mg/l	0.0201	0.0206	2.61	13	100.	L156388-01	WG157904
Dibromomethane	mg/l	0.0192	0.0195	1.55	12	96.2	L156388-01	WG157904
Dichlorodifluoromethane	mg/l	0.0182	0.0179	1.50	28	90.8	L156388-01	WG157904
Ethylbenzene	mg/l	0.0195	0.0197	1.02	25	97.6	L156388-01	WG157904
Hexachlorobutadiene	mg/l	0.0176	0.0166	5.44	36	87.8	L156388-01	WG157904
Isopropylbenzene	mg/l	0.0185	0.0181	1.80	29	92.3	L156388-01	WG157904
Methyl tert-butyl ether	mg/l	0.0198	0.0202	1.80	16	99.0	L156388-01	WG157904
Methylene Chloride	mg/l	0.0193	0.0197	2.10	16	96.4	L156388-01	WG157904
n-Butylbenzene	mg/l	0.0183	0.0178	2.38	30	91.4	L156388-01	WG157904
n-Propylbenzene	mg/l	0.0186	0.0183	1.46	30	93.1	L156388-01	WG157904
Naphthalene	mg/l	0.0191	0.0176	7.85	39	95.4	L156388-01	WG157904
p-Isopropyltoluene	mg/l	0.0174	0.0169	3.03	36	87.2	L156388-01	WG157904
sec-Butylbenzene	mg/l	0.0185	0.0179	3.30	32	92.4	L156388-01	WG157904
Styrene	mg/l	0.0163	0.0160	1.99	21	81.4	L156388-01	WG157904
tert-Butylbenzene	mg/l	0.0195	0.0189	3.13	30	97.3	L156388-01	WG157904
Tetrachloroethene	mg/l	0.0193	0.0187	2.90	32	96.4	L156388-01	WG157904
Toluene	mg/l	0.0187	0.0184	1.94	17	93.7	L156388-01	WG157904
trans-1,2-Dichloroethene	mg/l	0.0218	0.0204	6.31	27	109.	L156388-01	WG157904
trans-1,3-Dichloropropene	mg/l	0.0176	0.0177	0.453	16	88.2	L156388-01	WG157904
Trichloroethene	mg/l	0.0205	0.0201	1.83	25	102.	L156388-01	WG157904
Trichlorofluoromethane	mg/l	0.0184	0.0184	0.0543	41	92.1	L156388-01	WG157904
Vinyl chloride	mg/l	0.0204	0.0199	2.53	36	102.	L156388-01	WG157904
Xylenes, Total	mg/l	0.0571	0.0556	2.59	21	95.1	L156388-01	WG157904

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Mercury	mg/l	0.0009	0.0009	2.15	20	94.0	L156388-02	WG157948

Batch number /Run number / Sample number cross reference

WG157948: R197425: L156388-02
WG157904: R197523: L156388-01
WG157998: R197546: L156388-02

* See Attachment B of standard report for list of qualifiers.
* Calculations are performed prior to rounding of reported values .

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ESC Level 2 Data Package

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of regent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.