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Tax I.D. 62-0814289

Est. 1970

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

Report Summary

Thursday February 27, 2014

Report Number: L684371

Samples Received: 02/21/14

Client Project: 15-63680-34377-66330

Description: Montezuma West (MZW)

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jarred Willis, ESC Representative

Laboratory Certification Numbers

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-01

Sample ID : DW-23

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 13:00

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
1,4-Dioxane	4.6	0.60	3.0	ug/l		8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/26/14	1
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	02/23/14	1
Acrolein	U	8.9	50.	ug/l		8260B	02/23/14	1
Acrylonitrile	U	1.9	10.	ug/l	J4	8260B	02/23/14	1
Benzene	U	0.33	1.0	ug/l		8260B	02/23/14	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	02/23/14	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	02/23/14	1
Bromoform	U	0.47	1.0	ug/l		8260B	02/23/14	1
Bromomethane	U	0.87	5.0	ug/l		8260B	02/23/14	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/23/14	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/23/14	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	02/23/14	1
Carbon disulfide	U	0.28	1.0	ug/l		8260B	02/23/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	02/23/14	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	02/23/14	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	02/23/14	1
Chloroethane	U	0.45	5.0	ug/l		8260B	02/23/14	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	02/23/14	1
Chloroform	U	0.32	5.0	ug/l		8260B	02/23/14	1
Chloromethane	U	0.28	2.5	ug/l		8260B	02/23/14	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	02/23/14	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	02/23/14	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	02/23/14	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	02/23/14	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	02/23/14	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	02/23/14	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	02/23/14	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	02/23/14	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	02/23/14	1
1,1-Dichloroethane	0.57	0.26	1.0	ug/l	J	8260B	02/23/14	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	02/23/14	1
1,1-Dichloroethene	3.7	0.40	1.0	ug/l		8260B	02/23/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	02/23/14	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/23/14	1
1,2-Dichloropropane	U	0.31	1.0	ug/l	J4	8260B	02/23/14	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	02/23/14	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	02/23/14	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/23/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-01

Sample ID : DW-23

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 13:00

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/23/14	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	02/23/14	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	02/23/14	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	02/23/14	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	02/23/14	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	02/23/14	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	02/23/14	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	02/23/14	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	02/23/14	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l	J4	8260B	02/23/14	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	02/23/14	1
Naphthalene	U	1.0	5.0	ug/l		8260B	02/23/14	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	02/23/14	1
Styrene	U	0.31	1.0	ug/l		8260B	02/23/14	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	02/23/14	1
1,1,2,2-Tetrachloroethane	U	0.58	1.0	ug/l		8260B	02/23/14	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	02/23/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	02/23/14	1
Toluene	U	0.78	5.0	ug/l		8260B	02/23/14	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	02/23/14	1
1,2,4-Trichlorobenzene	U	0.21	1.0	ug/l		8260B	02/23/14	1
1,1,1-Trichloroethane	4.1	0.32	1.0	ug/l		8260B	02/23/14	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	02/23/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	02/23/14	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	02/23/14	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	02/23/14	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	02/23/14	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	02/23/14	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	02/23/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	02/23/14	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	02/23/14	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/23/14	1
Dibromofluoromethane	108.			% Rec.		8260B	02/23/14	1
4-Bromofluorobenzene	92.8			% Rec.		8260B	02/23/14	1

U = ND (Not Detected)

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-02

Sample ID : DW-18

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 13:30

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
1,4-Dioxane	0.73	0.60	3.0	ug/l	J	8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/26/14	1
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	02/26/14	1
Acrolein	U	8.9	50.	ug/l		8260B	02/26/14	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	02/26/14	1
Benzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Bromoform	U	0.47	1.0	ug/l		8260B	02/26/14	1
Bromomethane	U	0.87	5.0	ug/l		8260B	02/26/14	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Carbon disulfide	U	0.28	1.0	ug/l		8260B	02/26/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	02/26/14	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	02/26/14	1
Chloroethane	U	0.45	5.0	ug/l		8260B	02/26/14	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	02/26/14	1
Chloroform	U	0.32	5.0	ug/l		8260B	02/26/14	1
Chloromethane	U	0.28	2.5	ug/l		8260B	02/26/14	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	02/26/14	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	02/26/14	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	02/26/14	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	02/26/14	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	02/26/14	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	02/26/14	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1

U = ND (Not Detected)

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-02

Sample ID : DW-18

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 13:30

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	02/26/14	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	02/26/14	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	02/26/14	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l	J3	8260B	02/26/14	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	02/26/14	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	02/26/14	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	02/26/14	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	02/26/14	1
Naphthalene	U	1.0	5.0	ug/l		8260B	02/26/14	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Styrene	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
1,1,2,2-Tetrachloroethane	U	0.58	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	02/26/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	02/26/14	1
Toluene	U	0.78	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	02/26/14	1
1,2,4-Trichlorobenzene	U	0.21	1.0	ug/l		8260B	02/26/14	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	02/26/14	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	02/26/14	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	02/26/14	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	02/26/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	02/26/14	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	02/26/14	1
Dibromofluoromethane	95.7			% Rec.		8260B	02/26/14	1
4-Bromofluorobenzene	106.			% Rec.		8260B	02/26/14	1

U = ND (Not Detected)

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

Sample ID : DW-21

Collected By : Don Hanson
Collection Date : 02/19/14 14:30

ESC Sample # : L684371-03

Site ID : EUGENE, OR

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
1,4-Dioxane	3.8	0.60	3.0	ug/l		8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/26/14	1
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	02/26/14	1
Acrolein	U	8.9	50.	ug/l		8260B	02/26/14	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	02/26/14	1
Benzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Bromoform	U	0.47	1.0	ug/l		8260B	02/26/14	1
Bromomethane	U	0.87	5.0	ug/l		8260B	02/26/14	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Carbon disulfide	U	0.28	1.0	ug/l		8260B	02/26/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	02/26/14	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	02/26/14	1
Chloroethane	U	0.45	5.0	ug/l		8260B	02/26/14	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	02/26/14	1
Chloroform	U	0.32	5.0	ug/l		8260B	02/26/14	1
Chloromethane	U	0.28	2.5	ug/l		8260B	02/26/14	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	02/26/14	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	02/26/14	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	02/26/14	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	02/26/14	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethane	0.35	0.26	1.0	ug/l	J	8260B	02/26/14	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethene	2.0	0.40	1.0	ug/l		8260B	02/26/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	02/26/14	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	02/26/14	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-03

Sample ID : DW-21

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 14:30

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	02/26/14	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	02/26/14	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	02/26/14	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l	J3	8260B	02/26/14	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	02/26/14	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	02/26/14	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	02/26/14	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	02/26/14	1
Naphthalene	U	1.0	5.0	ug/l		8260B	02/26/14	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Styrene	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
1,1,2,2-Tetrachloroethane	U	0.58	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	02/26/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	02/26/14	1
Toluene	U	0.78	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	02/26/14	1
1,2,4-Trichlorobenzene	U	0.21	1.0	ug/l		8260B	02/26/14	1
1,1,1-Trichloroethane	4.2	0.32	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	02/26/14	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	02/26/14	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	02/26/14	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	02/26/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	02/26/14	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	02/26/14	1
Dibromofluoromethane	97.1			% Rec.		8260B	02/26/14	1
4-Bromofluorobenzene	105.			% Rec.		8260B	02/26/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MW)

ESC Sample # : L684371-04

Sample ID : DW-21 P00L

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 14:15

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
1,4-Dioxane	38.	0.60	3.0	ug/l	B	8260B	02/25/14	1
Surrogate Recovery								
Toluene-d8	88.3			% Rec.		8260B	02/25/14	1
Volatile Organics								
Acetone	11.	10.	50.	ug/l	J	8260B	02/26/14	1
Acrolein	U	8.9	50.	ug/l		8260B	02/26/14	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	02/26/14	1
Benzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Bromodichloromethane	0.81	0.38	1.0	ug/l	J	8260B	02/26/14	1
Bromoform	U	0.47	1.0	ug/l		8260B	02/26/14	1
Bromomethane	U	0.87	5.0	ug/l		8260B	02/26/14	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Carbon disulfide	0.31	0.28	1.0	ug/l	J	8260B	02/26/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	02/26/14	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Chlorodibromomethane	0.44	0.33	1.0	ug/l	J	8260B	02/26/14	1
Chloroethane	U	0.45	5.0	ug/l		8260B	02/26/14	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	02/26/14	1
Chloroform	14.	0.32	5.0	ug/l		8260B	02/26/14	1
Chloromethane	1.9	0.28	2.5	ug/l	J	8260B	02/26/14	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	02/26/14	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	02/26/14	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	02/26/14	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	02/26/14	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	02/26/14	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	02/26/14	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-04

Sample ID : DW-21 P00L

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 14:15

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l	J3	8260B	02/26/14	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	02/26/14	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	02/26/14	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	02/26/14	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	02/26/14	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	02/26/14	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	02/26/14	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	02/26/14	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	02/26/14	1
Naphthalene	U	1.0	5.0	ug/l		8260B	02/26/14	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Styrene	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
1,1,2,2-Tetrachloroethane	U	0.58	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	02/26/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	02/26/14	1
Toluene	U	0.78	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	02/26/14	1
1,2,4-Trichlorobenzene	U	0.21	1.0	ug/l		8260B	02/26/14	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	02/26/14	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	02/26/14	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	02/26/14	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	02/26/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	02/26/14	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	02/26/14	1
Dibromofluoromethane	101.			% Rec.		8260B	02/26/14	1
4-Bromofluorobenzene	104.			% Rec.		8260B	02/26/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-05

Sample ID : DW-19

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 14:00

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
1,4-Dioxane	0.80	0.60	3.0	ug/l	J	8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	02/26/14	1
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	02/26/14	1
Acrolein	U	8.9	50.	ug/l		8260B	02/26/14	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	02/26/14	1
Benzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Bromoform	U	0.47	1.0	ug/l		8260B	02/26/14	1
Bromomethane	U	0.87	5.0	ug/l		8260B	02/26/14	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Carbon disulfide	U	0.28	1.0	ug/l		8260B	02/26/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	02/26/14	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	02/26/14	1
Chloroethane	U	0.45	5.0	ug/l		8260B	02/26/14	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	02/26/14	1
Chloroform	U	0.32	5.0	ug/l		8260B	02/26/14	1
Chloromethane	U	0.28	2.5	ug/l		8260B	02/26/14	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	02/26/14	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	02/26/14	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	02/26/14	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	02/26/14	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	02/26/14	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	02/26/14	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-05

Sample ID : DW-19

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 14:00

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	02/26/14	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	02/26/14	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	02/26/14	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l	J3	8260B	02/26/14	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	02/26/14	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	02/26/14	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	02/26/14	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	02/26/14	1
Naphthalene	U	1.0	5.0	ug/l		8260B	02/26/14	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Styrene	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
1,1,2,2-Tetrachloroethane	U	0.58	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	02/26/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	02/26/14	1
Toluene	U	0.78	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	02/26/14	1
1,2,4-Trichlorobenzene	U	0.21	1.0	ug/l		8260B	02/26/14	1
1,1,1-Trichloroethane	0.40	0.32	1.0	ug/l	J	8260B	02/26/14	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	02/26/14	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	02/26/14	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	02/26/14	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	02/26/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	02/26/14	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	02/26/14	1
Dibromofluoromethane	98.3			% Rec.		8260B	02/26/14	1
4-Bromofluorobenzene	109.			% Rec.		8260B	02/26/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

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Est. 1970

REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-06

Sample ID : TRIP BLANK

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 00:00

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	02/26/14	1
Acrolein	U	8.9	50.	ug/l		8260B	02/26/14	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	02/26/14	1
Benzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Bromoform	U	0.47	1.0	ug/l		8260B	02/26/14	1
Bromomethane	U	0.87	5.0	ug/l		8260B	02/26/14	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/26/14	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Carbon disulfide	U	0.28	1.0	ug/l		8260B	02/26/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	02/26/14	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	02/26/14	1
Chloroethane	U	0.45	5.0	ug/l		8260B	02/26/14	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	02/26/14	1
Chloroform	U	0.32	5.0	ug/l		8260B	02/26/14	1
Chloromethane	U	0.28	2.5	ug/l		8260B	02/26/14	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	02/26/14	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	02/26/14	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	02/26/14	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	02/26/14	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	02/26/14	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	02/26/14	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	02/26/14	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/26/14	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	02/26/14	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	02/26/14	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	02/26/14	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l	J3	8260B	02/26/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

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REPORT OF ANALYSIS

Don Hanson
Oregon Dept. of Env. Quality - ODEQ
165 E. 7th Avenue, Suite 100
Eugene, OR 97401

February 27, 2014

Date Received : February 21, 2014
Description : Montezuma West (MZW)

ESC Sample # : L684371-06

Sample ID : TRIP BLANK

Site ID : EUGENE, OR

Collected By : Don Hanson
Collection Date : 02/19/14 00:00

Project # : 15-63680-34377-66330

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	02/26/14	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	02/26/14	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	02/26/14	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	02/26/14	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	02/26/14	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	02/26/14	1
Naphthalene	U	1.0	5.0	ug/l		8260B	02/26/14	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	02/26/14	1
Styrene	U	0.31	1.0	ug/l		8260B	02/26/14	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
1,1,2,2-Tetrachloroethane	U	0.58	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	02/26/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	02/26/14	1
Toluene	U	0.78	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	02/26/14	1
1,2,4-Trichlorobenzene	U	0.21	1.0	ug/l		8260B	02/26/14	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	02/26/14	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	02/26/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	02/26/14	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	02/26/14	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	02/26/14	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	02/26/14	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	02/26/14	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	02/26/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	02/26/14	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	02/26/14	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	02/26/14	1
Dibromofluoromethane	99.3			% Rec.		8260B	02/26/14	1
4-Bromofluorobenzene	108.			% Rec.		8260B	02/26/14	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L684371-01	WG707744	SAMP	Acrylonitrile	R2887226	J4
	WG707744	SAMP	1,1-Dichloroethane	R2887226	J
	WG707744	SAMP	1,2-Dichloropropane	R2887226	J4
	WG707744	SAMP	4-Methyl-2-pentanone (MIBK)	R2887226	J4
L684371-02	WG708210	SAMP	1,4-Dioxane	R2888312	J
	WG707746	SAMP	Hexachloro-1,3-butadiene	R2888262	J3
L684371-03	WG707746	SAMP	1,1-Dichloroethane	R2888262	J
	WG707746	SAMP	Hexachloro-1,3-butadiene	R2888262	J3
L684371-04	WG707951	SAMP	1,4-Dioxane	R2887966	B
	WG707746	SAMP	Acetone	R2888262	J
	WG707746	SAMP	Bromodichloromethane	R2888262	J
	WG707746	SAMP	Carbon disulfide	R2888262	J
	WG707746	SAMP	Chlorodibromomethane	R2888262	J
	WG707746	SAMP	Chloromethane	R2888262	J
	WG707746	SAMP	Hexachloro-1,3-butadiene	R2888262	J3
	WG708210	SAMP	1,4-Dioxane	R2888312	J
L684371-05	WG707746	SAMP	Hexachloro-1,3-butadiene	R2888262	J3
	WG707746	SAMP	1,1,1-Trichloroethane	R2888262	J
L684371-06	WG707746	SAMP	Hexachloro-1,3-butadiene	R2888262	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

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 Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography 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.
- 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
02/27/14 at 09:09:36

TSR Signing Reports: 358
R5 - Desired TAT

Clients MUST use the State of Oregon COCs for all work. Create an NCF for any samples received on ESC COCs.

Sample: L684371-01 Account: OREGONDEQ Received: 02/21/14 10:00 Due Date: 02/28/14 00:00 RPT Date: 02/27/14 09:08
Sample: L684371-02 Account: OREGONDEQ Received: 02/21/14 10:00 Due Date: 02/28/14 00:00 RPT Date: 02/27/14 09:08
Sample: L684371-03 Account: OREGONDEQ Received: 02/21/14 10:00 Due Date: 02/28/14 00:00 RPT Date: 02/27/14 09:08
Sample: L684371-04 Account: OREGONDEQ Received: 02/21/14 10:00 Due Date: 02/28/14 00:00 RPT Date: 02/27/14 09:08
Sample: L684371-05 Account: OREGONDEQ Received: 02/21/14 10:00 Due Date: 02/28/14 00:00 RPT Date: 02/27/14 09:08
Sample: L684371-06 Account: OREGONDEQ Received: 02/21/14 10:00 Due Date: 02/28/14 00:00 RPT Date: 02/27/14 09:08



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Oregon Dept. of Env. Quality - ODEQ
Don Hanson
165 E. 7th Avenue, Suite 100

Eugene, OR 97401

Quality Assurance Report
Level II

L684371

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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 27, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG707744	02/22/14 21:21
1,1,1-Trichloroethane	< .001	mg/l			WG707744	02/22/14 21:21
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG707744	02/22/14 21:21
1,1,2-Trichloroethane	< .001	mg/l			WG707744	02/22/14 21:21
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG707744	02/22/14 21:21
1,1-Dichloroethane	< .001	mg/l			WG707744	02/22/14 21:21
1,1-Dichloroethene	< .001	mg/l			WG707744	02/22/14 21:21
1,1-Dichloropropene	< .001	mg/l			WG707744	02/22/14 21:21
1,2,3-Trichlorobenzene	< .001	mg/l			WG707744	02/22/14 21:21
1,2,3-Trichloropropane	< .001	mg/l			WG707744	02/22/14 21:21
1,2,3-Trimethylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
1,2,4-Trichlorobenzene	< .001	mg/l			WG707744	02/22/14 21:21
1,2,4-Trimethylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG707744	02/22/14 21:21
1,2-Dibromoethane	< .001	mg/l			WG707744	02/22/14 21:21
1,2-Dichlorobenzene	< .001	mg/l			WG707744	02/22/14 21:21
1,2-Dichloroethane	< .001	mg/l			WG707744	02/22/14 21:21
1,2-Dichloropropane	< .001	mg/l			WG707744	02/22/14 21:21
1,3,5-Trimethylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
1,3-Dichlorobenzene	< .001	mg/l			WG707744	02/22/14 21:21
1,3-Dichloropropane	< .001	mg/l			WG707744	02/22/14 21:21
1,4-Dichlorobenzene	< .001	mg/l			WG707744	02/22/14 21:21
2,2-Dichloropropane	< .001	mg/l			WG707744	02/22/14 21:21
2-Butanone (MEK)	< .01	mg/l			WG707744	02/22/14 21:21
2-Chloroethyl vinyl ether	< .05	mg/l			WG707744	02/22/14 21:21
2-Chlorotoluene	< .001	mg/l			WG707744	02/22/14 21:21
4-Chlorotoluene	< .001	mg/l			WG707744	02/22/14 21:21
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG707744	02/22/14 21:21
Acetone	< .05	mg/l			WG707744	02/22/14 21:21
Acrolein	< .025	mg/l			WG707744	02/22/14 21:21
Acrylonitrile	< .01	mg/l			WG707744	02/22/14 21:21
Benzene	< .001	mg/l			WG707744	02/22/14 21:21
Bromobenzene	< .001	mg/l			WG707744	02/22/14 21:21
Bromodichloromethane	< .001	mg/l			WG707744	02/22/14 21:21
Bromoform	< .001	mg/l			WG707744	02/22/14 21:21
Bromomethane	< .005	mg/l			WG707744	02/22/14 21:21
Carbon disulfide	< .001	mg/l			WG707744	02/22/14 21:21
Carbon tetrachloride	< .001	mg/l			WG707744	02/22/14 21:21
Chlorobenzene	< .001	mg/l			WG707744	02/22/14 21:21
Chlorodibromomethane	< .001	mg/l			WG707744	02/22/14 21:21
Chloroethane	< .005	mg/l			WG707744	02/22/14 21:21
Chloroform	< .005	mg/l			WG707744	02/22/14 21:21
Chloromethane	< .0025	mg/l			WG707744	02/22/14 21:21
cis-1,2-Dichloroethene	< .001	mg/l			WG707744	02/22/14 21:21
cis-1,3-Dichloropropene	< .001	mg/l			WG707744	02/22/14 21:21
Di-isopropyl ether	< .001	mg/l			WG707744	02/22/14 21:21
Dibromomethane	< .001	mg/l			WG707744	02/22/14 21:21
Dichlorodifluoromethane	< .005	mg/l			WG707744	02/22/14 21:21
Ethylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
Hexachloro-1,3-butadiene	< .001	mg/l			WG707744	02/22/14 21:21
Isopropylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
Methyl tert-butyl ether	< .001	mg/l			WG707744	02/22/14 21:21
Methylene Chloride	< .005	mg/l			WG707744	02/22/14 21:21
n-Butylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
n-Propylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
Naphthalene	< .005	mg/l			WG707744	02/22/14 21:21
p-Isopropyltoluene	< .001	mg/l			WG707744	02/22/14 21:21
sec-Butylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
Styrene	< .001	mg/l			WG707744	02/22/14 21:21

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Tax I.D. 62-0814289

Est. 1970

February 27, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
tert-Butylbenzene	< .001	mg/l			WG707744	02/22/14 21:21
Tetrachloroethene	< .001	mg/l			WG707744	02/22/14 21:21
Toluene	< .005	mg/l			WG707744	02/22/14 21:21
trans-1,2-Dichloroethene	< .001	mg/l			WG707744	02/22/14 21:21
trans-1,3-Dichloropropene	< .001	mg/l			WG707744	02/22/14 21:21
Trichloroethene	< .001	mg/l			WG707744	02/22/14 21:21
Trichlorofluoromethane	< .005	mg/l			WG707744	02/22/14 21:21
Vinyl chloride	< .001	mg/l			WG707744	02/22/14 21:21
Xylenes, Total	< .003	mg/l			WG707744	02/22/14 21:21
4-Bromofluorobenzene		% Rec.	91.70	71-126	WG707744	02/22/14 21:21
Dibromofluoromethane		% Rec.	107.0	78.3-121	WG707744	02/22/14 21:21
Toluene-d8		% Rec.	101.0	88.5-111	WG707744	02/22/14 21:21
1,4-Dioxane	< .003	mg/l			WG707951	02/25/14 11:43
Toluene-d8		% Rec.	95.10	70-130	WG707951	02/25/14 11:43
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG707746	02/26/14 01:51
1,1,1-Trichloroethane	< .001	mg/l			WG707746	02/26/14 01:51
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG707746	02/26/14 01:51
1,1,2-Trichloroethane	< .001	mg/l			WG707746	02/26/14 01:51
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG707746	02/26/14 01:51
1,1-Dichloroethane	< .001	mg/l			WG707746	02/26/14 01:51
1,1-Dichloroethene	< .001	mg/l			WG707746	02/26/14 01:51
1,1-Dichloropropene	< .001	mg/l			WG707746	02/26/14 01:51
1,2,3-Trichlorobenzene	< .001	mg/l			WG707746	02/26/14 01:51
1,2,3-Trichloropropane	< .001	mg/l			WG707746	02/26/14 01:51
1,2,3-Trimethylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
1,2,4-Trichlorobenzene	< .001	mg/l			WG707746	02/26/14 01:51
1,2,4-Trimethylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG707746	02/26/14 01:51
1,2-Dibromoethane	< .001	mg/l			WG707746	02/26/14 01:51
1,2-Dichlorobenzene	< .001	mg/l			WG707746	02/26/14 01:51
1,2-Dichloroethane	< .001	mg/l			WG707746	02/26/14 01:51
1,2-Dichloropropene	< .001	mg/l			WG707746	02/26/14 01:51
1,3,5-Trimethylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
1,3-Dichlorobenzene	< .001	mg/l			WG707746	02/26/14 01:51
1,3-Dichloropropene	< .001	mg/l			WG707746	02/26/14 01:51
1,4-Dichlorobenzene	< .001	mg/l			WG707746	02/26/14 01:51
2,2-Dichloropropane	< .001	mg/l			WG707746	02/26/14 01:51
2-Butanone (MEK)	< .01	mg/l			WG707746	02/26/14 01:51
2-Chloroethyl vinyl ether	< .05	mg/l			WG707746	02/26/14 01:51
2-Chlorotoluene	< .001	mg/l			WG707746	02/26/14 01:51
4-Chlorotoluene	< .001	mg/l			WG707746	02/26/14 01:51
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG707746	02/26/14 01:51
Acetone	< .05	mg/l			WG707746	02/26/14 01:51
Acrolein	< .025	mg/l			WG707746	02/26/14 01:51
Acrylonitrile	< .01	mg/l			WG707746	02/26/14 01:51
Benzene	< .001	mg/l			WG707746	02/26/14 01:51
Bromobenzene	< .001	mg/l			WG707746	02/26/14 01:51
Bromodichloromethane	< .001	mg/l			WG707746	02/26/14 01:51
Bromoform	< .001	mg/l			WG707746	02/26/14 01:51
Bromomethane	< .005	mg/l			WG707746	02/26/14 01:51
Carbon disulfide	< .001	mg/l			WG707746	02/26/14 01:51
Carbon tetrachloride	< .001	mg/l			WG707746	02/26/14 01:51
Chlorobenzene	< .001	mg/l			WG707746	02/26/14 01:51
Chlorodibromomethane	< .001	mg/l			WG707746	02/26/14 01:51
Chloroethane	< .005	mg/l			WG707746	02/26/14 01:51

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Don Hanson
165 E. 7th Avenue, Suite 100

Eugene, OR 97401

Quality Assurance Report
Level II

L684371

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 27, 2014

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chloroform	< .005	mg/l			WG707746	02/26/14 01:51
Chloromethane	< .0025	mg/l			WG707746	02/26/14 01:51
cis-1,2-Dichloroethene	< .001	mg/l			WG707746	02/26/14 01:51
cis-1,3-Dichloropropene	< .001	mg/l			WG707746	02/26/14 01:51
Di-isopropyl ether	< .001	mg/l			WG707746	02/26/14 01:51
Dibromomethane	< .001	mg/l			WG707746	02/26/14 01:51
Dichlorodifluoromethane	< .005	mg/l			WG707746	02/26/14 01:51
Ethylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
Hexachloro-1,3-butadiene	< .001	mg/l			WG707746	02/26/14 01:51
Isopropylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
Methyl tert-butyl ether	< .001	mg/l			WG707746	02/26/14 01:51
Methylene Chloride	< .005	mg/l			WG707746	02/26/14 01:51
n-Butylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
n-Propylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
Naphthalene	< .005	mg/l			WG707746	02/26/14 01:51
p-Isopropyltoluene	< .001	mg/l			WG707746	02/26/14 01:51
sec-Butylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
Styrene	< .001	mg/l			WG707746	02/26/14 01:51
tert-Butylbenzene	< .001	mg/l			WG707746	02/26/14 01:51
Tetrachloroethene	< .001	mg/l			WG707746	02/26/14 01:51
Toluene	< .005	mg/l			WG707746	02/26/14 01:51
trans-1,2-Dichloroethene	< .001	mg/l			WG707746	02/26/14 01:51
trans-1,3-Dichloropropene	< .001	mg/l			WG707746	02/26/14 01:51
Trichloroethene	< .001	mg/l			WG707746	02/26/14 01:51
Trichlorofluoromethane	< .005	mg/l			WG707746	02/26/14 01:51
Vinyl chloride	< .001	mg/l			WG707746	02/26/14 01:51
Xylenes, Total	< .003	mg/l			WG707746	02/26/14 01:51
4-Bromofluorobenzene		% Rec.	112.0	71-126	WG707746	02/26/14 01:51
Dibromofluoromethane		% Rec.	97.60	78.3-121	WG707746	02/26/14 01:51
Toluene-d8		% Rec.	106.0	88.5-111	WG707746	02/26/14 01:51
1,4-Dioxane	< .003	mg/l			WG708210	02/26/14 15:37
Toluene-d8		% Rec.	100.0	70-130	WG708210	02/26/14 15:37

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0276	111.	74.2-124	WG707744
1,1,1-Trichloroethane	mg/l	.025	0.0278	111.	73.2-123	WG707744
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0276	110.	70.7-122	WG707744
1,1,2-Trichloroethane	mg/l	.025	0.0272	109.	77.7-118	WG707744
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0282	113.	67.2-143	WG707744
1,1-Dichloroethane	mg/l	.025	0.0292	117.	70.7-126	WG707744
1,1-Dichloroethene	mg/l	.025	0.0277	111.	67.8-129	WG707744
1,1-Dichloropropene	mg/l	.025	0.0278	111.	73.1-125	WG707744
1,2,3-Trichlorobenzene	mg/l	.025	0.0290	116.	64.9-135	WG707744
1,2,3-Trichloropropane	mg/l	.025	0.0284	114.	71.8-121	WG707744
1,2,3-Trimethylbenzene	mg/l	.025	0.0228	91.3	72.3-116	WG707744
1,2,4-Trichlorobenzene	mg/l	.025	0.0298	119.	69.7-136	WG707744
1,2,4-Trimethylbenzene	mg/l	.025	0.0262	105.	75-123	WG707744
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0282	113.	65.4-128	WG707744
1,2-Dibromoethane	mg/l	.025	0.0278	111.	76.6-121	WG707744
1,2-Dichlorobenzene	mg/l	.025	0.0273	109.	78.4-117	WG707744
1,2-Dichloroethane	mg/l	.025	0.0277	111.	68.8-124	WG707744
1,2-Dichloropropane	mg/l	.025	0.0301	120.*	76.5-119	WG707744
1,3,5-Trimethylbenzene	mg/l	.025	0.0272	109.	75.6-124	WG707744
1,3-Dichlorobenzene	mg/l	.025	0.0280	112.	70.8-128	WG707744
1,3-Dichloropropane	mg/l	.025	0.0268	107.	77.4-117	WG707744

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Tax I.D. 62-0814289

Est. 1970

February 27, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,4-Dichlorobenzene	mg/l	.025	0.0258	103.	78.8-115	WG707744
2,2-Dichloropropane	mg/l	.025	0.0277	111.	62.4-133	WG707744
2-Butanone (MEK)	mg/l	.125	0.168	135.	55-149	WG707744
2-Chloroethyl vinyl ether	mg/l	.125	0.143	115.	43.8-150	WG707744
2-Chlorotoluene	mg/l	.025	0.0271	108.	74.7-122	WG707744
4-Chlorotoluene	mg/l	.025	0.0266	106.	77.5-120	WG707744
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.172	138.*	70.5-133	WG707744
Acetone	mg/l	.125	0.156	125.	35.6-163	WG707744
Acrolein	mg/l	.125	0.225	180.	10-190	WG707744
Acrylonitrile	mg/l	.125	0.166	132.*	55.2-130	WG707744
Benzene	mg/l	.025	0.0283	113.	74.8-121	WG707744
Bromobenzene	mg/l	.025	0.0258	103.	77.5-116	WG707744
Bromodichloromethane	mg/l	.025	0.0266	106.	75.1-116	WG707744
Bromoform	mg/l	.025	0.0288	115.	67.5-130	WG707744
Bromomethane	mg/l	.025	0.0270	108.	49.9-162	WG707744
Carbon disulfide	mg/l	.025	0.0266	106.	64.6-140	WG707744
Carbon tetrachloride	mg/l	.025	0.0283	113.	70.2-123	WG707744
Chlorobenzene	mg/l	.025	0.0263	105.	78.1-119	WG707744
Chlorodibromomethane	mg/l	.025	0.0263	105.	74-121	WG707744
Chloroethane	mg/l	.025	0.0267	107.	61.7-135	WG707744
Chloroform	mg/l	.025	0.0282	113.	76-121	WG707744
Chloromethane	mg/l	.025	0.0284	113.	61.5-129	WG707744
cis-1,2-Dichloroethene	mg/l	.025	0.0285	114.	76-119	WG707744
cis-1,3-Dichloropropene	mg/l	.025	0.0286	114.	78.2-120	WG707744
Di-isopropyl ether	mg/l	.025	0.0291	116.	65.6-132	WG707744
Dibromomethane	mg/l	.025	0.0293	117.	79.5-118	WG707744
Dichlorodifluoromethane	mg/l	.025	0.0286	114.	54.8-135	WG707744
Ethylbenzene	mg/l	.025	0.0260	104.	78.8-122	WG707744
Hexachloro-1,3-butadiene	mg/l	.025	0.0276	110.	64.7-129	WG707744
Isopropylbenzene	mg/l	.025	0.0292	117.	78.6-132	WG707744
Methyl tert-butyl ether	mg/l	.025	0.0282	113.	71.2-126	WG707744
Methylene Chloride	mg/l	.025	0.0261	104.	70.3-120	WG707744
n-Butylbenzene	mg/l	.025	0.0274	110.	76.2-126	WG707744
n-Propylbenzene	mg/l	.025	0.0272	109.	78.2-122	WG707744
Naphthalene	mg/l	.025	0.0281	112.	68.4-128	WG707744
p-Isopropyltoluene	mg/l	.025	0.0289	115.	74-131	WG707744
sec-Butylbenzene	mg/l	.025	0.0277	111.	74.4-127	WG707744
Styrene	mg/l	.025	0.0289	116.	80.4-126	WG707744
tert-Butylbenzene	mg/l	.025	0.0282	113.	75.3-126	WG707744
Tetrachloroethene	mg/l	.025	0.0267	107.	72.6-126	WG707744
Toluene	mg/l	.025	0.0274	110.	79.7-116	WG707744
trans-1,2-Dichloroethene	mg/l	.025	0.0270	108.	72.6-121	WG707744
trans-1,3-Dichloropropene	mg/l	.025	0.0271	108.	74.3-123	WG707744
Trichloroethene	mg/l	.025	0.0282	113.	77.7-118	WG707744
Trichlorofluoromethane	mg/l	.025	0.0274	109.	63.5-135	WG707744
Vinyl chloride	mg/l	.025	0.0281	112.	65.9-128	WG707744
Xylenes, Total	mg/l	.075	0.0773	103.	78.7-121	WG707744
4-Bromofluorobenzene				93.70	71-126	WG707744
Dibromofluoromethane				107.0	78.3-121	WG707744
Toluene-d8				102.0	88.5-111	WG707744
1,4-Dioxane	mg/l	.05	0.0459	91.9	70-130	WG707951
Toluene-d8				94.50	70-130	WG707951
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0282	113.	74.2-124	WG707746
1,1,1-Trichloroethane	mg/l	.025	0.0263	105.	73.2-123	WG707746
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0271	108.	70.7-122	WG707746

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Est. 1970

February 27, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,1,2-Trichloroethane	mg/l	.025	0.0275	110.	77.7-118	WG707746
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0247	98.7	67.2-143	WG707746
1,1-Dichloroethane	mg/l	.025	0.0253	101.	70.7-126	WG707746
1,1-Dichloroethene	mg/l	.025	0.0229	91.7	67.8-129	WG707746
1,1-Dichloropropene	mg/l	.025	0.0252	101.	73.1-125	WG707746
1,2,3-Trichlorobenzene	mg/l	.025	0.0269	107.	64.9-135	WG707746
1,2,3-Trichloropropene	mg/l	.025	0.0282	113.	71.8-121	WG707746
1,2,3-Trimethylbenzene	mg/l	.025	0.0217	86.6	72.3-116	WG707746
1,2,4-Trichlorobenzene	mg/l	.025	0.0268	107.	69.7-136	WG707746
1,2,4-Trimethylbenzene	mg/l	.025	0.0278	111.	75-123	WG707746
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0258	103.	65.4-128	WG707746
1,2-Dibromoethane	mg/l	.025	0.0263	105.	76.6-121	WG707746
1,2-Dichlorobenzene	mg/l	.025	0.0264	106.	78.4-117	WG707746
1,2-Dichloroethane	mg/l	.025	0.0238	95.1	68.8-124	WG707746
1,2-Dichloropropane	mg/l	.025	0.0259	104.	76.5-119	WG707746
1,3,5-Trimethylbenzene	mg/l	.025	0.0285	114.	75.6-124	WG707746
1,3-Dichlorobenzene	mg/l	.025	0.0288	115.	70.8-128	WG707746
1,3-Dichloropropane	mg/l	.025	0.0244	97.4	77.4-117	WG707746
1,4-Dichlorobenzene	mg/l	.025	0.0259	103.	78.8-115	WG707746
2,2-Dichloropropane	mg/l	.025	0.0257	103.	62.4-133	WG707746
2-Butanone (MEK)	mg/l	.125	0.113	90.4	55-149	WG707746
2-Chloroethyl vinyl ether	mg/l	.125	0.131	105.	43.8-150	WG707746
2-Chlorotoluene	mg/l	.025	0.0274	110.	74.7-122	WG707746
4-Chlorotoluene	mg/l	.025	0.0277	111.	77.5-120	WG707746
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.141	113.	70.5-133	WG707746
Acetone	mg/l	.125	0.0975	78.0	35.6-163	WG707746
Acrolein	mg/l	.125	0.141	113.	10-190	WG707746
Acrylonitrile	mg/l	.125	0.127	101.	55.2-130	WG707746
Benzene	mg/l	.025	0.0249	99.7	74.8-121	WG707746
Bromobenzene	mg/l	.025	0.0266	106.	77.5-116	WG707746
Bromodichloromethane	mg/l	.025	0.0262	105.	75.1-116	WG707746
Bromoform	mg/l	.025	0.0297	119.	67.5-130	WG707746
Bromomethane	mg/l	.025	0.0228	91.0	49.9-162	WG707746
Carbon disulfide	mg/l	.025	0.0219	87.5	64.6-140	WG707746
Carbon tetrachloride	mg/l	.025	0.0259	103.	70.2-123	WG707746
Chlorobenzene	mg/l	.025	0.0272	109.	78.1-119	WG707746
Chlorodibromomethane	mg/l	.025	0.0275	110.	74-121	WG707746
Chloroethane	mg/l	.025	0.0208	83.0	61.7-135	WG707746
Chloroform	mg/l	.025	0.0253	101.	76-121	WG707746
Chloromethane	mg/l	.025	0.0229	91.5	61.5-129	WG707746
cis-1,2-Dichloroethene	mg/l	.025	0.0262	105.	76-119	WG707746
cis-1,3-Dichloropropene	mg/l	.025	0.0260	104.	78.2-120	WG707746
Di-isopropyl ether	mg/l	.025	0.0242	96.7	65.6-132	WG707746
Dibromomethane	mg/l	.025	0.0266	106.	79.5-118	WG707746
Dichlorodifluoromethane	mg/l	.025	0.0248	99.0	54.8-135	WG707746
Ethylbenzene	mg/l	.025	0.0275	110.	78.8-122	WG707746
Hexachloro-1,3-butadiene	mg/l	.025	0.0232	92.9	64.7-129	WG707746
Isopropylbenzene	mg/l	.025	0.0316	127.	78.6-132	WG707746
Methyl tert-butyl ether	mg/l	.025	0.0236	94.6	71.2-126	WG707746
Methylene Chloride	mg/l	.025	0.0241	96.6	70.3-120	WG707746
n-Butylbenzene	mg/l	.025	0.0254	102.	76.2-126	WG707746
n-Propylbenzene	mg/l	.025	0.0276	110.	78.2-122	WG707746
Naphthalene	mg/l	.025	0.0269	108.	68.4-128	WG707746
p-Isopropyltoluene	mg/l	.025	0.0296	118.	74-131	WG707746
sec-Butylbenzene	mg/l	.025	0.0284	114.	74.4-127	WG707746
Styrene	mg/l	.025	0.0303	121.	80.4-126	WG707746
tert-Butylbenzene	mg/l	.025	0.0290	116.	75.3-126	WG707746
Tetrachloroethene	mg/l	.025	0.0274	110.	72.6-126	WG707746
Toluene	mg/l	.025	0.0269	108.	79.7-116	WG707746

* Performance of this Analyte is outside of established criteria.

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YOUR LAB OF CHOICE

Oregon Dept. of Env. Quality - ODEQ
Don Hanson
165 E. 7th Avenue, Suite 100

Eugene, OR 97401

Quality Assurance Report
Level II

L684371

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 27, 2014

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
trans-1,2-Dichloroethene	mg/l	.025	0.0254	101.	72.6-121	WG707746
trans-1,3-Dichloropropene	mg/l	.025	0.0274	110.	74.3-123	WG707746
Trichloroethene	mg/l	.025	0.0262	105.	77.7-118	WG707746
Trichlorofluoromethane	mg/l	.025	0.0237	94.9	63.5-135	WG707746
Vinyl chloride	mg/l	.025	0.0235	94.1	65.9-128	WG707746
Xylenes, Total	mg/l	.075	0.0825	110.	78.7-121	WG707746
4-Bromofluorobenzene				107.0	71-126	WG707746
Dibromofluoromethane				98.50	78.3-121	WG707746
Toluene-d8				107.0	88.5-111	WG707746
1,4-Dioxane	mg/l	.05	0.0419	83.7	70-130	WG708210
Toluene-d8				101.0	70-130	WG708210

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,1,1,2-Tetrachloroethane	mg/l	0.0275	0.0276	110.	74.2-124	0.480	20	WG707744
1,1,1-Trichloroethane	mg/l	0.0288	0.0278	115.	73.2-123	3.58	20	WG707744
1,1,2,2-Tetrachloroethane	mg/l	0.0259	0.0276	104.	70.7-122	6.17	20	WG707744
1,1,2-Trichloroethane	mg/l	0.0268	0.0272	107.	77.7-118	1.12	20	WG707744
1,1,2-Trichlorotrifluoroethane	mg/l	0.0289	0.0282	116.	67.2-143	2.62	20	WG707744
1,1-Dichloroethane	mg/l	0.0303	0.0292	121.	70.7-126	3.81	20	WG707744
1,1-Dichloroethene	mg/l	0.0290	0.0277	116.	67.8-129	4.45	20	WG707744
1,1-Dichloropropene	mg/l	0.0293	0.0278	117.	73.1-125	5.16	20	WG707744
1,2,3-Trichlorobenzene	mg/l	0.0300	0.0290	120.	64.9-135	3.34	20	WG707744
1,2,3-Trichloropropane	mg/l	0.0267	0.0284	107.	71.8-121	6.34	20	WG707744
1,2,3-Trimethylbenzene	mg/l	0.0234	0.0228	94.0	72.3-116	2.60	20	WG707744
1,2,4-Trichlorobenzene	mg/l	0.0308	0.0298	123.	69.7-136	3.33	20	WG707744
1,2,4-Trimethylbenzene	mg/l	0.0267	0.0262	107.	75-123	2.01	20	WG707744
1,2-Dibromo-3-Chloropropane	mg/l	0.0259	0.0282	104.	65.4-128	8.36	20	WG707744
1,2-Dibromoethane	mg/l	0.0268	0.0278	107.	76.6-121	3.59	20	WG707744
1,2-Dichlorobenzene	mg/l	0.0278	0.0273	111.	78.4-117	1.65	20	WG707744
1,2-Dichloroethane	mg/l	0.0273	0.0277	109.	68.8-124	1.42	20	WG707744
1,2-Dichloropropane	mg/l	0.0291	0.0301	116.	76.5-119	3.15	20	WG707744
1,3,5-Trimethylbenzene	mg/l	0.0277	0.0272	111.	75.6-124	1.79	20	WG707744
1,3-Dichlorobenzene	mg/l	0.0283	0.0280	113.	70.8-128	1.34	20	WG707744
1,3-Dichloropropane	mg/l	0.0267	0.0268	107.	77.4-117	0.550	20	WG707744
1,4-Dichlorobenzene	mg/l	0.0268	0.0258	107.	78.8-115	3.81	20	WG707744
2,2-Dichloropropane	mg/l	0.0287	0.0277	115.	62.4-133	3.45	20	WG707744
2-Butanone (MEK)	mg/l	0.159	0.168	127.	55-149	5.76	20	WG707744
2-Chloroethyl vinyl ether	mg/l	0.134	0.143	107.	43.8-150	6.97	20	WG707744
2-Chlorotoluene	mg/l	0.0274	0.0271	109.	74.7-122	0.890	20	WG707744
4-Chlorotoluene	mg/l	0.0269	0.0266	108.	77.5-120	1.15	20	WG707744
4-Methyl-2-pentanone (MIBK)	mg/l	0.158	0.172	126.	70.5-133	8.63	20	WG707744
Acetone	mg/l	0.150	0.156	120.	35.6-163	4.31	23.9	WG707744
Acrolein	mg/l	0.218	0.225	174.	10-190	3.50	28.1	WG707744
Acrylonitrile	mg/l	0.156	0.166	125.	55.2-130	5.99	20	WG707744
Benzene	mg/l	0.0291	0.0283	116.	74.8-121	2.80	20	WG707744
Bromobenzene	mg/l	0.0257	0.0258	103.	77.5-116	0.510	20	WG707744
Bromodichloromethane	mg/l	0.0265	0.0266	106.	75.1-116	0.600	20	WG707744
Bromoform	mg/l	0.0278	0.0288	111.	67.5-130	3.54	20	WG707744
Bromomethane	mg/l	0.0277	0.0270	111.	49.9-162	2.36	20	WG707744
Carbon disulfide	mg/l	0.0270	0.0266	108.	64.6-140	1.35	20	WG707744
Carbon tetrachloride	mg/l	0.0291	0.0283	116.	70.2-123	2.80	20	WG707744
Chlorobenzene	mg/l	0.0266	0.0263	106.	78.1-119	1.11	20	WG707744
Chlorodibromomethane	mg/l	0.0256	0.0263	102.	74-121	2.58	20	WG707744
Chloroethane	mg/l	0.0284	0.0267	114.	61.7-135	6.13	20	WG707744
Chloroform	mg/l	0.0287	0.0282	115.	76-121	1.61	20	WG707744

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chloromethane	mg/l	0.0297	0.0284	119.	61.5-129	4.71	20	WG707744
cis-1,2-Dichloroethene	mg/l	0.0293	0.0285	117.	76-119	2.69	20	WG707744
cis-1,3-Dichloropropene	mg/l	0.0285	0.0286	114.	78.2-120	0.230	20	WG707744
Di-isopropyl ether	mg/l	0.0295	0.0291	118.	65.6-132	1.35	20	WG707744
Dibromomethane	mg/l	0.0289	0.0293	116.	79.5-118	1.32	20	WG707744
Dichlorodifluoromethane	mg/l	0.0289	0.0286	116.	54.8-135	1.13	20	WG707744
Ethylbenzene	mg/l	0.0268	0.0260	107.	78.8-122	3.17	20	WG707744
Hexachloro-1,3-butadiene	mg/l	0.0291	0.0276	116.	64.7-129	5.27	20	WG707744
Isopropylbenzene	mg/l	0.0302	0.0292	121.	78.6-132	3.38	20	WG707744
Methyl tert-butyl ether	mg/l	0.0278	0.0282	111.	71.2-126	1.44	20	WG707744
Methylene Chloride	mg/l	0.0268	0.0261	107.	70.3-120	2.66	20	WG707744
n-Butylbenzene	mg/l	0.0290	0.0274	116.	76.2-126	5.58	20	WG707744
n-Propylbenzene	mg/l	0.0277	0.0272	111.	78.2-122	1.86	20	WG707744
Naphthalene	mg/l	0.0274	0.0281	110.	68.4-128	2.42	20	WG707744
p-Isopropyltoluene	mg/l	0.0295	0.0289	118.	74-131	2.03	20	WG707744
sec-Butylbenzene	mg/l	0.0284	0.0277	114.	74.4-127	2.76	20	WG707744
Styrene	mg/l	0.0294	0.0289	118.	80.4-126	1.84	20	WG707744
tert-Butylbenzene	mg/l	0.0286	0.0282	114.	75.3-126	1.34	20	WG707744
Tetrachloroethene	mg/l	0.0278	0.0267	111.	72.6-126	3.98	20	WG707744
Toluene	mg/l	0.0277	0.0274	111.	79.7-116	1.24	20	WG707744
trans-1,2-Dichloroethene	mg/l	0.0290	0.0270	116.	72.6-121	7.24	20	WG707744
trans-1,3-Dichloropropene	mg/l	0.0270	0.0271	108.	74.3-123	0.470	20	WG707744
Trichloroethene	mg/l	0.0289	0.0282	116.	77.7-118	2.44	20	WG707744
Trichlorofluoromethane	mg/l	0.0284	0.0274	114.	63.5-135	3.85	20	WG707744
Vinyl chloride	mg/l	0.0291	0.0281	116.	65.9-128	3.37	20	WG707744
Xylenes, Total	mg/l	0.0789	0.0773	105.	78.7-121	2.03	20	WG707744
4-Bromofluorobenzene				92.60	71-126			WG707744
Dibromofluoromethane				108.0	78.3-121			WG707744
Toluene-d8				101.0	88.5-111			WG707744
1,4-Dioxane	mg/l	0.0463	0.0459	93.0	70-130	0.830	25	WG707951
Toluene-d8				94.70	70-130			WG707951
1,1,1,2-Tetrachloroethane	mg/l	0.0273	0.0282	109.	74.2-124	3.09	20	WG707746
1,1,1-Trichloroethane	mg/l	0.0254	0.0263	102.	73.2-123	3.51	20	WG707746
1,1,2,2-Tetrachloroethane	mg/l	0.0252	0.0271	101.	70.7-122	7.16	20	WG707746
1,1,2-Trichloroethane	mg/l	0.0263	0.0275	105.	77.7-118	4.24	20	WG707746
1,1,2-Trichlorotrifluoroethane	mg/l	0.0235	0.0247	94.0	67.2-143	4.76	20	WG707746
1,1-Dichloroethane	mg/l	0.0246	0.0253	98.0	70.7-126	3.12	20	WG707746
1,1-Dichloropropene	mg/l	0.0218	0.0229	87.0	67.8-129	5.05	20	WG707746
1,2-Dichlorobenzene	mg/l	0.0240	0.0252	96.0	73.1-125	4.94	20	WG707746
1,2,3-Trichlorobenzene	mg/l	0.0223	0.0269	89.0	64.9-135	18.4	20	WG707746
1,2,3-Trichloropropane	mg/l	0.0253	0.0282	101.	71.8-121	10.7	20	WG707746
1,2,3-Trimethylbenzene	mg/l	0.0207	0.0217	83.0	72.3-116	4.73	20	WG707746
1,2,4-Trichlorobenzene	mg/l	0.0234	0.0268	94.0	69.7-136	13.5	20	WG707746
1,2,4-Trimethylbenzene	mg/l	0.0271	0.0278	108.	75-123	2.77	20	WG707746
1,2-Dibromo-3-Chloropropane	mg/l	0.0235	0.0258	94.0	65.4-128	9.27	20	WG707746
1,2-Dibromoethane	mg/l	0.0260	0.0263	104.	76.6-121	1.06	20	WG707746
1,2-Dichlorobenzene	mg/l	0.0250	0.0264	100.	78.4-117	5.64	20	WG707746
1,2-Dichloroethane	mg/l	0.0231	0.0238	92.0	68.8-124	3.02	20	WG707746
1,2-Dichloropropane	mg/l	0.0255	0.0259	102.	76.5-119	1.63	20	WG707746
1,3,5-Trimethylbenzene	mg/l	0.0270	0.0285	108.	75.6-124	5.55	20	WG707746
1,3-Dichlorobenzene	mg/l	0.0273	0.0288	109.	70.8-128	5.64	20	WG707746
1,3-Dichloropropane	mg/l	0.0243	0.0244	97.0	77.4-117	0.390	20	WG707746
1,4-Dichlorobenzene	mg/l	0.0245	0.0259	98.0	78.8-115	5.36	20	WG707746
2,2-Dichloropropane	mg/l	0.0256	0.0257	102.	62.4-133	0.710	20	WG707746
2-Butanone (MEK)	mg/l	0.106	0.113	85.0	55-149	6.17	20	WG707746

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Est. 1970

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
2-Chloroethyl vinyl ether	mg/l	0.127	0.131	102.	43.8-150	3.35	20	WG707746
2-Chlorotoluene	mg/l	0.0266	0.0274	106.	74.7-122	3.06	20	WG707746
4-Chlorotoluene	mg/l	0.0267	0.0277	107.	77.5-120	3.75	20	WG707746
4-Methyl-2-pentanone (MIBK)	mg/l	0.128	0.141	102.	70.5-133	9.39	20	WG707746
Acetone	mg/l	0.0945	0.0975	76.0	35.6-163	3.13	23.9	WG707746
Acrolein	mg/l	0.135	0.141	108.	10-190	4.80	28.1	WG707746
Acrylonitrile	mg/l	0.118	0.127	95.0	55.2-130	6.69	20	WG707746
Benzene	mg/l	0.0244	0.0249	97.0	74.8-121	2.28	20	WG707746
Bromobenzene	mg/l	0.0263	0.0266	105.	77.5-116	1.14	20	WG707746
Bromodichloromethane	mg/l	0.0248	0.0262	99.0	75.1-116	5.34	20	WG707746
Bromoform	mg/l	0.0269	0.0297	108.	67.5-130	9.63	20	WG707746
Bromomethane	mg/l	0.0209	0.0228	84.0	49.9-162	8.30	20	WG707746
Carbon disulfide	mg/l	0.0210	0.0219	84.0	64.6-140	4.25	20	WG707746
Carbon tetrachloride	mg/l	0.0254	0.0259	101.	70.2-123	1.92	20	WG707746
Chlorobenzene	mg/l	0.0273	0.0272	109.	78.1-119	0.120	20	WG707746
Chlorodibromomethane	mg/l	0.0266	0.0275	106.	74-121	3.37	20	WG707746
Chloroethane	mg/l	0.0200	0.0208	80.0	61.7-135	3.89	20	WG707746
Chloroform	mg/l	0.0243	0.0253	97.0	76-121	3.85	20	WG707746
Chloromethane	mg/l	0.0222	0.0229	89.0	61.5-129	3.03	20	WG707746
cis-1,2-Dichloroethene	mg/l	0.0252	0.0262	101.	76-119	3.55	20	WG707746
cis-1,3-Dichloropropene	mg/l	0.0252	0.0260	101.	78.2-120	3.33	20	WG707746
Di-isopropyl ether	mg/l	0.0235	0.0242	94.0	65.6-132	2.69	20	WG707746
Dibromomethane	mg/l	0.0259	0.0266	104.	79.5-118	2.38	20	WG707746
Dichlorodifluoromethane	mg/l	0.0239	0.0248	96.0	54.8-135	3.34	20	WG707746
Ethylbenzene	mg/l	0.0273	0.0275	109.	78.8-122	0.540	20	WG707746
Hexachloro-1,3-butadiene	mg/l	0.0185	0.0232	74.0	64.7-129	22.5*	20	WG707746
Isopropylbenzene	mg/l	0.0305	0.0316	122.	78.6-132	3.77	20	WG707746
Methyl tert-butyl ether	mg/l	0.0229	0.0236	92.0	71.2-126	3.06	20	WG707746
Methylene Chloride	mg/l	0.0235	0.0241	94.0	70.3-120	2.64	20	WG707746
n-Butylbenzene	mg/l	0.0227	0.0254	91.0	76.2-126	11.3	20	WG707746
n-Propylbenzene	mg/l	0.0272	0.0276	109.	78.2-122	1.66	20	WG707746
Naphthalene	mg/l	0.0230	0.0269	92.0	68.4-128	15.5	20	WG707746
p-Isopropyltoluene	mg/l	0.0277	0.0296	111.	74-131	6.75	20	WG707746
sec-Butylbenzene	mg/l	0.0268	0.0284	107.	74.4-127	5.74	20	WG707746
Styrene	mg/l	0.0287	0.0303	115.	80.4-126	5.23	20	WG707746
tert-Butylbenzene	mg/l	0.0275	0.0290	110.	75.3-126	5.45	20	WG707746
Tetrachloroethene	mg/l	0.0270	0.0274	108.	72.6-126	1.36	20	WG707746
Toluene	mg/l	0.0255	0.0269	102.	79.7-116	5.19	20	WG707746
trans-1,2-Dichloroethene	mg/l	0.0249	0.0254	100.	72.6-121	1.91	20	WG707746
trans-1,3-Dichloropropene	mg/l	0.0255	0.0274	102.	74.3-123	6.92	20	WG707746
Trichloroethene	mg/l	0.0250	0.0262	100.	77.7-118	4.55	20	WG707746
Trichlorofluoromethane	mg/l	0.0226	0.0237	90.0	63.5-135	4.64	20	WG707746
Vinyl chloride	mg/l	0.0221	0.0235	88.0	65.9-128	6.38	20	WG707746
Xylenes, Total	mg/l	0.0799	0.0825	106.	78.7-121	3.25	20	WG707746
4-Bromofluorobenzene				109.0	71-126			WG707746
Dibromofluoromethane				97.40	78.3-121			WG707746
Toluene-d8				104.0	88.5-111			WG707746
1,4-Dioxane	mg/l	0.0515	0.0419	103.	70-130	20.6	25	WG708210
Toluene-d8				100.0	70-130			WG708210

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
1,1,1,2-Tetrachloroethane	mg/l	0.0269	0.0	.025	110.	64-128	L684416-01	WG707744
1,1,1-Trichloroethane	mg/l	0.0278	0.0	.025	110.	58.7-134	L684416-01	WG707744
1,1,2,2-Tetrachloroethane	mg/l	0.0252	0.0	.025	100.	56-132	L684416-01	WG707744
1,1,2-Trichloroethane	mg/l	0.0259	0.0	.025	100.	66.3-125	L684416-01	WG707744

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			Ref Res						
1,1,2-Trichlorotrifluoroethane	mg/l	0.0277	0.0		.025	110.	54.8-154	L684416-01	WG707744
1,1-Dichloroethane	mg/l	0.0284	0.0		.025	110.	58.5-132	L684416-01	WG707744
1,1-Dichloroethene	mg/l	0.0273	0.0		.025	110.	51.1-140	L684416-01	WG707744
1,1-Dichloropropene	mg/l	0.0276	0.0		.025	110.	57.3-136	L684416-01	WG707744
1,2,3-Trichlorobenzene	mg/l	0.0287	0.0		.025	120.	59.1-138	L684416-01	WG707744
1,2,3-Trichloropropane	mg/l	0.0255	0.0		.025	100.	61.4-128	L684416-01	WG707744
1,2,3-Trimethylbenzene	mg/l	0.0222	0.0		.025	89.0	61.3-122	L684416-01	WG707744
1,2,4-Trichlorobenzene	mg/l	0.0302	0.0		.025	120.	63.6-143	L684416-01	WG707744
1,2,4-Trimethylbenzene	mg/l	0.0255	0.0		.025	100.	57.4-137	L684416-01	WG707744
1,2-Dibromo-3-Chloropropane	mg/l	0.0243	0.0		.025	97.0	57.3-136	L684416-01	WG707744
1,2-Dibromoethane	mg/l	0.0262	0.0		.025	100.	67.1-125	L684416-01	WG707744
1,2-Dichlorobenzene	mg/l	0.0265	0.0		.025	110.	68.2-123	L684416-01	WG707744
1,2-Dichloroethane	mg/l	0.0265	0.0		.025	110.	60-126	L684416-01	WG707744
1,2-Dichloropropane	mg/l	0.0286	0.0		.025	110.	64.2-123	L684416-01	WG707744
1,3,5-Trimethylbenzene	mg/l	0.0265	0.0		.025	110.	63.6-132	L684416-01	WG707744
1,3-Dichlorobenzene	mg/l	0.0277	0.0		.025	110.	63.1-131	L684416-01	WG707744
1,3-Dichloropropane	mg/l	0.0257	0.0		.025	100.	67.9-121	L684416-01	WG707744
1,4-Dichlorobenzene	mg/l	0.0255	0.0		.025	100.	68.6-123	L684416-01	WG707744
2,2-Dichloropropane	mg/l	0.0284	0.0		.025	110.	50.5-144	L684416-01	WG707744
2-Butanone (MEK)	mg/l	0.121	0.0		.125	97.0	22.4-138	L684416-01	WG707744
2-Chloroethyl vinyl ether	mg/l	0.0125	0.0		.125	10.0	10-155	L684416-01	WG707744
2-Chlorotoluene	mg/l	0.0261	0.0		.025	100.	63.6-128	L684416-01	WG707744
4-Chlorotoluene	mg/l	0.0261	0.0		.025	100.	65.7-127	L684416-01	WG707744
4-Methyl-2-pentanone (MIBK)	mg/l	0.149	0.0		.125	120.	60.8-140	L684416-01	WG707744
Acetone	mg/l	0.0804	0.00153		.125	63.0	10-130	L684416-01	WG707744
Acrolein	mg/l	0.382	0.0		.125	300.*	10-200	L684416-01	WG707744
Acrylonitrile	mg/l	0.150	0.0		.125	120.	49.4-133	L684416-01	WG707744
Benzene	mg/l	0.0280	0.0		.025	110.	54.3-133	L684416-01	WG707744
Bromobenzene	mg/l	0.0247	0.0		.025	99.0	63.9-124	L684416-01	WG707744
Bromodichloromethane	mg/l	0.0255	0.0		.025	100.	63.9-121	L684416-01	WG707744
Bromoform	mg/l	0.0270	0.0		.025	110.	59.5-134	L684416-01	WG707744
Bromomethane	mg/l	0.0255	0.0		.025	100.	41.7-155	L684416-01	WG707744
Carbon disulfide	mg/l	0.0255	0.0		.025	100.	43.3-149	L684416-01	WG707744
Carbon tetrachloride	mg/l	0.0278	0.0		.025	110.	55.7-134	L684416-01	WG707744
Chlorobenzene	mg/l	0.0256	0.0		.025	100.	67-125	L684416-01	WG707744
Chlorodibromomethane	mg/l	0.0251	0.0		.025	100.	64.3-125	L684416-01	WG707744
Chloroethane	mg/l	0.0263	0.0		.025	100.	51.5-136	L684416-01	WG707744
Chloroform	mg/l	0.0274	0.0		.025	110.	63-129	L684416-01	WG707744
Chloromethane	mg/l	0.0278	0.0		.025	110.	42.4-135	L684416-01	WG707744
cis-1,2-Dichloroethene	mg/l	0.0275	0.0		.025	110.	59.2-129	L684416-01	WG707744
cis-1,3-Dichloropropene	mg/l	0.0276	0.0		.025	110.	66.4-125	L684416-01	WG707744
Di-isopropyl ether	mg/l	0.0283	0.0		.025	110.	56.9-136	L684416-01	WG707744
Dibromomethane	mg/l	0.0274	0.0		.025	110.	68.2-124	L684416-01	WG707744
Dichlorodifluoromethane	mg/l	0.0281	0.0		.025	110.	40.6-144	L684416-01	WG707744
Ethylbenzene	mg/l	0.0257	0.0		.025	100.	61.4-133	L684416-01	WG707744
Hexachloro-1,3-butadiene	mg/l	0.0278	0.0		.025	110.	55.1-136	L684416-01	WG707744
Isopropylbenzene	mg/l	0.0287	0.0		.025	120.	66.8-141	L684416-01	WG707744
Methyl tert-butyl ether	mg/l	0.0265	0.0		.025	110.	57.7-134	L684416-01	WG707744
Methylene Chloride	mg/l	0.0252	0.0		.025	100.	58.1-122	L684416-01	WG707744
n-Butylbenzene	mg/l	0.0278	0.0		.025	110.	62.7-140	L684416-01	WG707744
n-Propylbenzene	mg/l	0.0268	0.0		.025	110.	65.9-131	L684416-01	WG707744
Naphthalene	mg/l	0.0261	0.0		.025	100.	58-135	L684416-01	WG707744
p-Isopropyltoluene	mg/l	0.0283	0.0		.025	110.	63.2-139	L684416-01	WG707744
sec-Butylbenzene	mg/l	0.0269	0.0		.025	110.	62.2-136	L684416-01	WG707744
Styrene	mg/l	0.0283	0.0		.025	110.	66.8-133	L684416-01	WG707744
tert-Butylbenzene	mg/l	0.0275	0.0		.025	110.	63.3-134	L684416-01	WG707744
Tetrachloroethene	mg/l	0.0268	0.0		.025	110.	53-139	L684416-01	WG707744
Toluene	mg/l	0.0264	0.0		.025	110.	61.4-130	L684416-01	WG707744
trans-1,2-Dichloroethene	mg/l	0.0269	0.0		.025	110.	56.5-129	L684416-01	WG707744

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Tax I.D. 62-0814289

Est. 1970

February 27, 2014

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
trans-1,3-Dichloropropene	mg/l	0.0259	0.0	.025	100.	64.1-128	L684416-01	WG707744
Trichloroethene	mg/l	0.0272	0.0	.025	110.	44.1-149	L684416-01	WG707744
Trichlorofluoromethane	mg/l	0.0270	0.0	.025	110.	49.6-145	L684416-01	WG707744
Vinyl chloride	mg/l	0.0271	0.0	.025	110.	47.8-137	L684416-01	WG707744
Xylenes, Total	mg/l	0.0759	0.0	.075	100.	63.3-131	L684416-01	WG707744
4-Bromofluorobenzene					93.90	71-126		WG707744
Dibromofluoromethane					108.0	78.3-121		WG707744
Toluene-d8					99.70	88.5-111		WG707744
1,4-Dioxane	mg/l	0.170	0.0921	.05	160.	0-200	L684018-04	WG707951
Toluene-d8					95.30	70-130		WG707951
1,1,1,2-Tetrachloroethane	mg/l	0.0253	0.0	.025	100.	64-128	L684433-01	WG707746
1,1,1-Trichloroethane	mg/l	0.0238	0.0	.025	95.0	58.7-134	L684433-01	WG707746
1,1,2,2-Tetrachloroethane	mg/l	0.0242	0.0	.025	97.0	56-132	L684433-01	WG707746
1,1,2-Trichloroethane	mg/l	0.0250	0.0	.025	100.	66.3-125	L684433-01	WG707746
1,1,2-Trichlorotrifluoroethane	mg/l	0.0234	0.0	.025	94.0	54.8-154	L684433-01	WG707746
1,1-Dichloroethane	mg/l	0.0230	0.0	.025	92.0	58.5-132	L684433-01	WG707746
1,1-Dichloropropene	mg/l	0.0210	0.0	.025	84.0	51.1-140	L684433-01	WG707746
1,1-Dichloroethane	mg/l	0.0227	0.0	.025	91.0	57.3-136	L684433-01	WG707746
1,2,3-Trichlorobenzene	mg/l	0.0224	0.0	.025	89.0	59.1-138	L684433-01	WG707746
1,2,3-Trichloropropane	mg/l	0.0246	0.0	.025	98.0	61.4-128	L684433-01	WG707746
1,2,3-Trimethylbenzene	mg/l	0.0194	0.0	.025	77.0	61.3-122	L684433-01	WG707746
1,2,4-Trichlorobenzene	mg/l	0.0237	0.0	.025	95.0	63.6-143	L684433-01	WG707746
1,2,4-Trimethylbenzene	mg/l	0.0251	0.0	.025	100.	57.4-137	L684433-01	WG707746
1,2-Dibromo-3-Chloropropane	mg/l	0.0224	0.0	.025	90.0	57.3-136	L684433-01	WG707746
1,2-Dibromoethane	mg/l	0.0248	0.0	.025	99.0	67.1-125	L684433-01	WG707746
1,2-Dichlorobenzene	mg/l	0.0237	0.0	.025	95.0	68.2-123	L684433-01	WG707746
1,2-Dichloroethane	mg/l	0.0218	0.0	.025	87.0	60-126	L684433-01	WG707746
1,2-Dichloropropane	mg/l	0.0235	0.0	.025	94.0	64.2-123	L684433-01	WG707746
1,3,5-Trimethylbenzene	mg/l	0.0254	0.0	.025	100.	63.6-132	L684433-01	WG707746
1,3-Dichlorobenzene	mg/l	0.0260	0.0	.025	100.	63.1-131	L684433-01	WG707746
1,3-Dichloropropane	mg/l	0.0226	0.0	.025	90.0	67.9-121	L684433-01	WG707746
1,4-Dichlorobenzene	mg/l	0.0234	0.0	.025	93.0	68.6-123	L684433-01	WG707746
2,2-Dichloropropane	mg/l	0.0242	0.0	.025	97.0	50.5-144	L684433-01	WG707746
2-Butanone (MEK)	mg/l	0.0939	0.0	.125	75.0	22.4-138	L684433-01	WG707746
2-Chloroethyl vinyl ether	mg/l	0.00130	0.0	.125	1.00*	10-155	L684433-01	WG707746
2-Chlorotoluene	mg/l	0.0242	0.0	.025	97.0	63.6-128	L684433-01	WG707746
4-Chlorotoluene	mg/l	0.0248	0.0	.025	99.0	65.7-127	L684433-01	WG707746
4-Methyl-2-pentanone (MIBK)	mg/l	0.128	0.0	.125	100.	60.8-140	L684433-01	WG707746
Acetone	mg/l	0.0660	0.00201	.125	51.0	10-130	L684433-01	WG707746
Acrolein	mg/l	0.146	0.0	.125	120.	10-200	L684433-01	WG707746
Acrylonitrile	mg/l	0.119	0.0	.125	95.0	49.4-133	L684433-01	WG707746
Benzene	mg/l	0.0229	0.0	.025	92.0	54.3-133	L684433-01	WG707746
Bromobenzene	mg/l	0.0238	0.0	.025	95.0	63.9-124	L684433-01	WG707746
Bromodichloromethane	mg/l	0.0233	0.0	.025	93.0	63.9-121	L684433-01	WG707746
Bromoform	mg/l	0.0266	0.0	.025	110.	59.5-134	L684433-01	WG707746
Bromomethane	mg/l	0.0204	0.0	.025	82.0	41.7-155	L684433-01	WG707746
Carbon disulfide	mg/l	0.0205	0.0	.025	82.0	43.3-149	L684433-01	WG707746
Carbon tetrachloride	mg/l	0.0242	0.0	.025	97.0	55.7-134	L684433-01	WG707746
Chlorobenzene	mg/l	0.0247	0.0	.025	99.0	67-125	L684433-01	WG707746
Chlorodibromomethane	mg/l	0.0250	0.0	.025	100.	64.3-125	L684433-01	WG707746
Chloroethane	mg/l	0.0195	0.0	.025	78.0	51.5-136	L684433-01	WG707746
Chloroform	mg/l	0.0233	0.0	.025	93.0	63-129	L684433-01	WG707746
Chloromethane	mg/l	0.0215	0.0	.025	86.0	42.4-135	L684433-01	WG707746
cis-1,2-Dichloroethene	mg/l	0.0239	0.0	.025	96.0	59.2-129	L684433-01	WG707746
cis-1,3-Dichloropropene	mg/l	0.0232	0.0	.025	93.0	66.4-125	L684433-01	WG707746

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Tax I.D. 62-0814289

Est. 1970

February 27, 2014

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Di-isopropyl ether	mg/l	0.0220	0.0	.025	88.0	56.9-136	L684433-01	WG707746
Dibromomethane	mg/l	0.0245	0.0	.025	98.0	68.2-124	L684433-01	WG707746
Dichlorodifluoromethane	mg/l	0.0252	0.0	.025	100.	40.6-144	L684433-01	WG707746
Ethylbenzene	mg/l	0.0252	0.0	.025	100.	61.4-133	L684433-01	WG707746
Hexachloro-1,3-butadiene	mg/l	0.0213	0.0	.025	85.0	55.1-136	L684433-01	WG707746
Isopropylbenzene	mg/l	0.0288	0.0	.025	120.	66.8-141	L684433-01	WG707746
Methyl tert-butyl ether	mg/l	0.0221	0.0	.025	88.0	57.7-134	L684433-01	WG707746
Methylene Chloride	mg/l	0.0221	0.000337	.025	87.0	58.1-122	L684433-01	WG707746
n-Butylbenzene	mg/l	0.0230	0.0	.025	92.0	62.7-140	L684433-01	WG707746
n-Propylbenzene	mg/l	0.0252	0.0	.025	100.	65.9-131	L684433-01	WG707746
Naphthalene	mg/l	0.0224	0.0	.025	90.0	58-135	L684433-01	WG707746
p-Isopropyltoluene	mg/l	0.0266	0.0	.025	110.	63.2-139	L684433-01	WG707746
sec-Butylbenzene	mg/l	0.0256	0.0	.025	100.	62.2-136	L684433-01	WG707746
Styrene	mg/l	0.0270	0.0	.025	110.	66.8-133	L684433-01	WG707746
tert-Butylbenzene	mg/l	0.0260	0.0	.025	100.	63.3-134	L684433-01	WG707746
Tetrachloroethene	mg/l	0.0257	0.0	.025	100.	53-139	L684433-01	WG707746
Toluene	mg/l	0.0244	0.0	.025	98.0	61.4-130	L684433-01	WG707746
trans-1,2-Dichloroethene	mg/l	0.0236	0.0	.025	94.0	56.5-129	L684433-01	WG707746
trans-1,3-Dichloropropene	mg/l	0.0250	0.0	.025	100.	64.1-128	L684433-01	WG707746
Trichloroethene	mg/l	0.0235	0.0	.025	94.0	44.1-149	L684433-01	WG707746
Trichlorofluoromethane	mg/l	0.0220	0.0	.025	88.0	49.6-145	L684433-01	WG707746
Vinyl chloride	mg/l	0.0218	0.0	.025	87.0	47.8-137	L684433-01	WG707746
Xylenes, Total	mg/l	0.0752	0.0	.075	100.	63.3-131	L684433-01	WG707746
4-Bromofluorobenzene					109.0	71-126		WG707746
Dibromofluoromethane					98.30	78.3-121		WG707746
Toluene-d8					104.0	88.5-111		WG707746
1,4-Dioxane	mg/l	0.0468	0.000576	.05	92.0	0-200	L683756-06	WG708210
Toluene-d8					101.0	70-130		WG708210

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
1,1,1,2-Tetrachloroethane	mg/l	0.0279	0.0269	112.	64-128	3.44	20	L684416-01	WG707744
1,1,1-Trichloroethane	mg/l	0.0292	0.0278	117.	58.7-134	4.80	20	L684416-01	WG707744
1,1,2,2-Tetrachloroethane	mg/l	0.0270	0.0252	108.	56-132	6.96	22.2	L684416-01	WG707744
1,1,2-Trichloroethane	mg/l	0.0272	0.0259	109.	66.3-125	4.88	20	L684416-01	WG707744
1,1,2-Trichlorotrifluoroethane	mg/l	0.0291	0.0277	116.	54.8-154	4.89	22.5	L684416-01	WG707744
1,1-Dichloroethane	mg/l	0.0306	0.0284	122.	58.5-132	7.57	20	L684416-01	WG707744
1,1-Dichloroethene	mg/l	0.0293	0.0273	117.	51.1-140	7.20	20.2	L684416-01	WG707744
1,1-Dichloropropene	mg/l	0.0292	0.0276	117.	57.3-136	5.76	20	L684416-01	WG707744
1,2,3-Trichlorobenzene	mg/l	0.0303	0.0287	121.	59.1-138	5.31	23.7	L684416-01	WG707744
1,2,3-Trichloropropane	mg/l	0.0270	0.0255	108.	61.4-128	5.61	22.4	L684416-01	WG707744
1,2,3-Trimethylbenzene	mg/l	0.0239	0.0222	95.6	61.3-122	7.23	20	L684416-01	WG707744
1,2,4-Trichlorobenzene	mg/l	0.0314	0.0302	126.	63.6-143	4.02	21.9	L684416-01	WG707744
1,2,4-Trimethylbenzene	mg/l	0.0266	0.0255	106.	57.4-137	4.26	20	L684416-01	WG707744
1,2-Dibromo-3-Chloropropane	mg/l	0.0276	0.0243	110.	57.3-136	12.8	27	L684416-01	WG707744
1,2-Dibromoethane	mg/l	0.0276	0.0262	110.	67.1-125	5.35	20	L684416-01	WG707744
1,2-Dichlorobenzene	mg/l	0.0287	0.0265	115.	68.2-123	7.73	20	L684416-01	WG707744
1,2-Dichloroethane	mg/l	0.0282	0.0265	113.	60-126	6.44	20	L684416-01	WG707744
1,2-Dichloropropane	mg/l	0.0309	0.0286	123.	64.2-123	7.54	20	L684416-01	WG707744
1,3,5-Trimethylbenzene	mg/l	0.0276	0.0265	110.	63.6-132	4.03	20.5	L684416-01	WG707744
1,3-Dichlorobenzene	mg/l	0.0286	0.0277	114.	63.1-131	3.17	20	L684416-01	WG707744
1,3-Dichloropropane	mg/l	0.0268	0.0257	107.	67.9-121	4.09	20	L684416-01	WG707744
1,4-Dichlorobenzene	mg/l	0.0269	0.0255	108.	68.6-123	5.23	20	L684416-01	WG707744
2,2-Dichloropropane	mg/l	0.0299	0.0284	119.	50.5-144	4.94	21.9	L684416-01	WG707744
2-Butanone (MEK)	mg/l	0.131	0.121	105.	22.4-138	7.99	27	L684416-01	WG707744
2-Chloroethyl vinyl ether	mg/l	0.00228	0.0125	1.82*	10-155	138.*	20	L684416-01	WG707744

* Performance of this Analyte is outside of established criteria.

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Tax I.D. 62-0814289

Est. 1970

February 27, 2014

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
2-Chlorotoluene	mg/l	0.0271	0.0261	108.	63.6-128	3.88	20	L684416-01	WG707744
4-Chlorotoluene	mg/l	0.0273	0.0261	109.	65.7-127	4.53	20	L684416-01	WG707744
4-Methyl-2-pentanone (MIBK)	mg/l	0.166	0.149	132.	60.8-140	10.4	25.1	L684416-01	WG707744
Acetone	mg/l	0.0877	0.0804	68.9	10-130	8.62	27.9	L684416-01	WG707744
Acrolein	mg/l	0.416	0.382	333.*	10-200	8.55	27.7	L684416-01	WG707744
Acrylonitrile	mg/l	0.164	0.150	131.	49.4-133	9.26	25.3	L684416-01	WG707744
Benzene	mg/l	0.0293	0.0280	117.	54.3-133	4.29	20	L684416-01	WG707744
Bromobenzene	mg/l	0.0261	0.0247	104.	63.9-124	5.62	20	L684416-01	WG707744
Bromodichloromethane	mg/l	0.0271	0.0255	108.	63.9-121	6.09	20	L684416-01	WG707744
Bromoform	mg/l	0.0282	0.0270	113.	59.5-134	4.28	20.5	L684416-01	WG707744
Bromomethane	mg/l	0.0279	0.0255	112.	41.7-155	9.05	21.9	L684416-01	WG707744
Carbon disulfide	mg/l	0.0272	0.0255	109.	43.3-149	6.23	20.3	L684416-01	WG707744
Carbon tetrachloride	mg/l	0.0296	0.0278	118.	55.7-134	6.23	20	L684416-01	WG707744
Chlorobenzene	mg/l	0.0270	0.0256	108.	67-125	5.48	20	L684416-01	WG707744
Chlorodibromomethane	mg/l	0.0266	0.0251	106.	64.3-125	5.78	20.8	L684416-01	WG707744
Chloroethane	mg/l	0.0278	0.0263	111.	51.5-136	5.72	40	L684416-01	WG707744
Chloroform	mg/l	0.0295	0.0274	118.	63-129	7.22	20	L684416-01	WG707744
Chloromethane	mg/l	0.0296	0.0278	118.	42.4-135	6.06	20	L684416-01	WG707744
cis-1,2-Dichloroethene	mg/l	0.0298	0.0275	119.	59.2-129	7.99	20	L684416-01	WG707744
cis-1,3-Dichloropropene	mg/l	0.0295	0.0276	118.	66.4-125	6.72	20	L684416-01	WG707744
Di-isopropyl ether	mg/l	0.0305	0.0283	122.	56.9-136	7.35	20	L684416-01	WG707744
Dibromomethane	mg/l	0.0296	0.0274	118.	68.2-124	7.85	20	L684416-01	WG707744
Dichlorodifluoromethane	mg/l	0.0305	0.0281	122.	40.6-144	8.08	20.2	L684416-01	WG707744
Ethylbenzene	mg/l	0.0266	0.0257	106.	61.4-133	3.49	20	L684416-01	WG707744
Hexachloro-1,3-butadiene	mg/l	0.0298	0.0278	119.	55.1-136	7.09	23.6	L684416-01	WG707744
Isopropylbenzene	mg/l	0.0302	0.0287	121.	66.8-141	4.95	20	L684416-01	WG707744
Methyl tert-butyl ether	mg/l	0.0282	0.0265	113.	57.7-134	6.19	20	L684416-01	WG707744
Methylene Chloride	mg/l	0.0272	0.0252	109.	58.1-122	7.55	20	L684416-01	WG707744
n-Butylbenzene	mg/l	0.0293	0.0278	117.	62.7-140	5.36	20.3	L684416-01	WG707744
n-Propylbenzene	mg/l	0.0279	0.0268	112.	65.9-131	4.24	20	L684416-01	WG707744
Naphthalene	mg/l	0.0283	0.0261	113.	58-135	8.17	25.5	L684416-01	WG707744
p-Isopropyltoluene	mg/l	0.0293	0.0283	117.	63.2-139	3.56	20.4	L684416-01	WG707744
sec-Butylbenzene	mg/l	0.0284	0.0269	114.	62.2-136	5.54	20.3	L684416-01	WG707744
Styrene	mg/l	0.0293	0.0283	117.	66.8-133	3.37	20	L684416-01	WG707744
tert-Butylbenzene	mg/l	0.0290	0.0275	116.	63.3-134	5.19	21	L684416-01	WG707744
Tetrachloroethene	mg/l	0.0278	0.0268	111.	53-139	3.62	20	L684416-01	WG707744
Toluene	mg/l	0.0281	0.0264	112.	61.4-130	6.19	20	L684416-01	WG707744
trans-1,2-Dichloroethene	mg/l	0.0288	0.0269	115.	56.5-129	6.76	20	L684416-01	WG707744
trans-1,3-Dichloropropene	mg/l	0.0280	0.0259	112.	64.1-128	7.81	20	L684416-01	WG707744
Trichloroethene	mg/l	0.0290	0.0272	116.	44.1-149	6.38	20	L684416-01	WG707744
Trichlorofluoromethane	mg/l	0.0290	0.0270	116.	49.6-145	7.04	21.2	L684416-01	WG707744
Vinyl chloride	mg/l	0.0292	0.0271	117.	47.8-137	7.51	20	L684416-01	WG707744
Xylenes, Total	mg/l	0.0802	0.0759	107.	63.3-131	5.46	20	L684416-01	WG707744
4-Bromofluorobenzene				91.60	71-126				WG707744
Dibromofluoromethane				109.0	78.3-121				WG707744
Toluene-d8				101.0	88.5-111				WG707744
1,4-Dioxane	mg/l	0.159	0.170	133.	0-200	7.08	42	L684018-04	WG707951
Toluene-d8				95.10	70-130				WG707951
1,1,1,2-Tetrachloroethane	mg/l	0.0265	0.0253	106.	64-128	4.78	20	L684433-01	WG707746
1,1,1-Trichloroethane	mg/l	0.0257	0.0238	103.	58.7-134	7.41	20	L684433-01	WG707746
1,1,2,2-Tetrachloroethane	mg/l	0.0259	0.0242	104.	56-132	6.84	22.2	L684433-01	WG707746
1,1,2-Trichloroethane	mg/l	0.0263	0.0250	105.	66.3-125	4.88	20	L684433-01	WG707746
1,1,2-Trichlorotrifluoroethane	mg/l	0.0245	0.0234	98.1	54.8-154	4.59	22.5	L684433-01	WG707746
1,1-Dichloroethane	mg/l	0.0245	0.0230	98.0	58.5-132	6.43	20	L684433-01	WG707746
1,1-Dichloroethene	mg/l	0.0222	0.0210	88.7	51.1-140	5.58	20.2	L684433-01	WG707746

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
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1,1-Dichloropropene	mg/l	0.0243	0.0227	97.4	57.3-136	6.86	20	L684433-01	WG707746
1,2,3-Trichlorobenzene	mg/l	0.0234	0.0224	93.7	59.1-138	4.66	23.7	L684433-01	WG707746
1,2,3-Trichloropropane	mg/l	0.0271	0.0246	108.	61.4-128	9.82	22.4	L684433-01	WG707746
1,2,3-Trimethylbenzene	mg/l	0.0207	0.0194	82.8	61.3-122	6.69	20	L684433-01	WG707746
1,2,4-Trichlorobenzene	mg/l	0.0247	0.0237	98.7	63.6-143	4.16	21.9	L684433-01	WG707746
1,2,4-Trimethylbenzene	mg/l	0.0269	0.0251	108.	57.4-137	6.78	20	L684433-01	WG707746
1,2-Dibromo-3-Chloropropane	mg/l	0.0240	0.0224	95.8	57.3-136	6.64	27	L684433-01	WG707746
1,2-Dibromoethane	mg/l	0.0264	0.0248	105.	67.1-125	6.26	20	L684433-01	WG707746
1,2-Dichlorobenzene	mg/l	0.0251	0.0237	100.	68.2-123	5.72	20	L684433-01	WG707746
1,2-Dichloroethane	mg/l	0.0238	0.0218	95.3	60-126	8.75	20	L684433-01	WG707746
1,2-Dichloropropane	mg/l	0.0252	0.0235	101.	64.2-123	7.07	20	L684433-01	WG707746
1,3,5-Trimethylbenzene	mg/l	0.0275	0.0254	110.	63.6-132	7.81	20.5	L684433-01	WG707746
1,3-Dichlorobenzene	mg/l	0.0276	0.0260	110.	63.1-131	5.85	20	L684433-01	WG707746
1,3-Dichloropropane	mg/l	0.0243	0.0226	97.0	67.9-121	6.93	20	L684433-01	WG707746
1,4-Dichlorobenzene	mg/l	0.0248	0.0234	99.4	68.6-123	6.16	20	L684433-01	WG707746
2,2-Dichloropropane	mg/l	0.0264	0.0242	105.	50.5-144	8.79	21.9	L684433-01	WG707746
2-Butanone (MEK)	mg/l	0.101	0.0939	80.7	22.4-138	7.14	27	L684433-01	WG707746
2-Chloroethyl vinyl ether	mg/l	0.000369	0.00130	0.295*	10-155	111.*	20	L684433-01	WG707746
2-Chlorotoluene	mg/l	0.0266	0.0242	106.	63.6-128	9.48	20	L684433-01	WG707746
4-Chlorotoluene	mg/l	0.0267	0.0248	107.	65.7-127	7.49	20	L684433-01	WG707746
4-Methyl-2-pentanone (MIBK)	mg/l	0.138	0.128	110.	60.8-140	7.20	25.1	L684433-01	WG707746
Acetone	mg/l	0.0683	0.0660	53.0	10-130	3.40	27.9	L684433-01	WG707746
Acrolein	mg/l	0.156	0.146	125.	10-200	6.46	27.7	L684433-01	WG707746
Acrylonitrile	mg/l	0.128	0.119	102.	49.4-133	7.77	25.3	L684433-01	WG707746
Benzene	mg/l	0.0247	0.0229	98.7	54.3-133	7.45	20	L684433-01	WG707746
Bromobenzene	mg/l	0.0252	0.0238	101.	63.9-124	5.71	20	L684433-01	WG707746
Bromodichloromethane	mg/l	0.0251	0.0233	100.	63.9-121	7.38	20	L684433-01	WG707746
Bromoform	mg/l	0.0289	0.0266	115.	59.5-134	8.29	20.5	L684433-01	WG707746
Bromomethane	mg/l	0.0222	0.0204	88.6	41.7-155	8.22	21.9	L684433-01	WG707746
Carbon disulfide	mg/l	0.0217	0.0205	87.0	43.3-149	5.85	20.3	L684433-01	WG707746
Carbon tetrachloride	mg/l	0.0255	0.0242	102.	55.7-134	5.39	20	L684433-01	WG707746
Chlorobenzene	mg/l	0.0264	0.0247	106.	67-125	6.93	20	L684433-01	WG707746
Chlorodibromomethane	mg/l	0.0264	0.0250	105.	64.3-125	5.35	20.8	L684433-01	WG707746
Chloroethane	mg/l	0.0209	0.0195	83.4	51.5-136	6.64	40	L684433-01	WG707746
Chloroform	mg/l	0.0248	0.0233	99.3	63-129	6.35	20	L684433-01	WG707746
Chloromethane	mg/l	0.0217	0.0215	86.7	42.4-135	0.970	20	L684433-01	WG707746
cis-1,2-Dichloroethene	mg/l	0.0257	0.0239	103.	59.2-129	7.49	20	L684433-01	WG707746
cis-1,3-Dichloropropene	mg/l	0.0248	0.0232	99.2	66.4-125	6.54	20	L684433-01	WG707746
Di-isopropyl ether	mg/l	0.0235	0.0220	94.1	56.9-136	6.59	20	L684433-01	WG707746
Dibromomethane	mg/l	0.0260	0.0245	104.	68.2-124	5.78	20	L684433-01	WG707746
Dichlorodifluoromethane	mg/l	0.0267	0.0252	107.	40.6-144	5.58	20.2	L684433-01	WG707746
Ethylbenzene	mg/l	0.0267	0.0252	107.	61.4-133	5.67	20	L684433-01	WG707746
Hexachloro-1,3-butadiene	mg/l	0.0219	0.0213	87.7	55.1-136	2.69	23.6	L684433-01	WG707746
Isopropylbenzene	mg/l	0.0303	0.0288	121.	66.8-141	5.40	20	L684433-01	WG707746
Methyl tert-butyl ether	mg/l	0.0242	0.0221	96.9	57.7-134	9.26	20	L684433-01	WG707746
Methylene Chloride	mg/l	0.0235	0.0221	92.5	58.1-122	5.76	20	L684433-01	WG707746
n-Butylbenzene	mg/l	0.0245	0.0230	98.0	62.7-140	6.19	20.3	L684433-01	WG707746
n-Propylbenzene	mg/l	0.0265	0.0252	106.	65.9-131	5.10	20	L684433-01	WG707746
Naphthalene	mg/l	0.0237	0.0224	94.6	58-135	5.59	25.5	L684433-01	WG707746
p-Isopropyltoluene	mg/l	0.0283	0.0266	113.	63.2-139	6.42	20.4	L684433-01	WG707746
sec-Butylbenzene	mg/l	0.0276	0.0256	110.	62.2-136	7.69	20.3	L684433-01	WG707746
Styrene	mg/l	0.0290	0.0270	116.	66.8-133	7.15	20	L684433-01	WG707746
tert-Butylbenzene	mg/l	0.0283	0.0260	113.	63.3-134	8.33	21	L684433-01	WG707746
Tetrachloroethene	mg/l	0.0271	0.0257	108.	53-139	5.18	20	L684433-01	WG707746
Toluene	mg/l	0.0256	0.0244	102.	61.4-130	4.47	20	L684433-01	WG707746
trans-1,2-Dichloroethene	mg/l	0.0250	0.0236	99.9	56.5-129	5.59	20	L684433-01	WG707746
trans-1,3-Dichloropropene	mg/l	0.0262	0.0250	105.	64.1-128	4.90	20	L684433-01	WG707746
Trichloroethene	mg/l	0.0253	0.0235	101.	44.1-149	7.33	20	L684433-01	WG707746
Trichlorofluoromethane	mg/l	0.0237	0.0220	94.8	49.6-145	7.45	21.2	L684433-01	WG707746

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			Ref	%Rec					
Vinyl chloride	mg/l	0.0230	0.0218	92.2	47.8-137	5.75	20	L684433-01	WG707746
Xylenes, Total	mg/l	0.0791	0.0752	105.	63.3-131	5.10	20	L684433-01	WG707746
4-Bromofluorobenzene				109.0	71-126				WG707746
Dibromofluoromethane				98.10	78.3-121				WG707746
Toluene-d8				104.0	88.5-111				WG707746
1,4-Dioxane	mg/l	0.0496	0.0468	98.1	0-200	5.98	42	L683756-06	WG708210
Toluene-d8				100.0	70-130				WG708210

Batch number /Run number / Sample number cross reference

WG707744: R2887226: L684371-01
WG707951: R2887966: L684371-02 04
WG707746: R2888262: L684371-02 03 04 05 06
WG708210: R2888312: L684371-01 02 03 05

* * Calculations are performed prior to rounding of reported values.
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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 reagent 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.