



▶ **FINAL REPORT**

Work Order(s): 8G13045

Project: McMurtrey, Hartsock & Worth

Report For:

Robert Hartsock
Law Offices of McMurtrey, Hartsock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301

Reviewed By:

Project Manager
Chris Samatmanakit

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Received: 7/13/2018

TAT: Normal

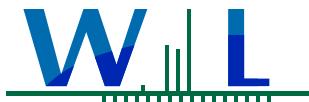
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Billing Code:



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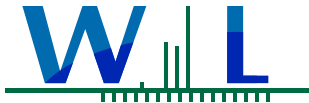
Certificate of Analysis

FINAL REPORT

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

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Certificate of Analysis

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2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project: McMurtrey, Hartsock & Worth
Project Manager: Robert Hartsock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Dear Robert Hartsock,

Enclosed are the results of analyses for samples received 7/13/18 with the Chain-of-Custody document. The samples were received in good condition, at 6.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Case Narrative

Carrot samples were stored at four degrees Celsius until they were homogenized. Sample conditions were monitored on a regular basis to check for any signs of growth or decay. All carrot samples in this report showed no signs of growth and/or decay directly prior to sample homogenization. Sample homogenization was performed in accordance to SAP provided under GSI Job No. 4874-002 based on crop. Homogenized samples were transferred into a clean glass jar and stored in a refrigerator at four degrees Celsius until samples are prepared or extracted for analysis. Analysis holding times were measured from the date and time of homogenization and treated as solid samples. Reference individual sample result headers for preparation and analytical method numbers used for analysis of samples. Reporting limits were adjusted according to initial sample volumes used and if any further dilutions were required for analysis.

Homogenized samples were aliquoted for the analyst for method EPA 8260B first to minimize contamination of common solvents in samples. Samples that were prepared by method EPA 8260B were leached according to the method using the lesser sample volume as noted on individual EPA 8260B result headers. Samples were further diluted at a factor noted in the dilution column as indicated on the results to make an extract that can accommodate sample analysis. Final sample extracts are prepared by instrument Purge & Trap and analysis guideline under EPA 8260B.

1,4-Dioxane and SVOC's were extracted using EPA 3545/ASE-PFE as solid samples. Lesser sample was measured prior to extraction in order to minimize matrix interference with sample analysis and integrity of surrogate spikes in the sample.

1,4-Dioxane was analyzed using EPA 8270M and requested SVOC's were analyzed using EPA 8270C. Further minimal dilution was required for EPA 8270C analysis to get a sample extract that can accommodate analysis.

Acrylamide analysis was performed by EPA 8316M, which employs a QuEChERS extraction technique. Reference Agilent document "Analysis of Acrylamide in French Fries using Agilent Bond Elut QuEChERS AOAC kit and LC/MS/MS" for extraction procedure. Instrument parameters were optimized based on this document for analysis.

Preparation for metals analysis was performed according to EPA 3050M-SCL. Metals analysis follows standard procedure noted in EPA 6010B and EPA 6020B. No dilution was required during sample preparation or analysis.

Alcohols are extracted and analyzed by EPA 8015B. Samples were treated as soil samples as noted in the original EPA method. Samples were diluted prior to sample extraction in order to make an extract that can accommodate sample analysis. See individual sample analysis header for actual sample volume used for sample extraction. Further dilution was required to achieve a sample extract to accommodate sample analysis.

Acetaldehyde, benzyl chloride, and cyclohexylamine analyses were not performed per agreement with Waterboard and GSI Environmental due to lack of lab setup for these analyses.

Sample Container Summary

Sample Name		Sampled By		Lab ID	Matrix	Sampled	Qualifiers
Container ID	Container Type	pH Pass	pH Checked On	pH Check By	CI Pass	CI Checked On	CI Check By
A-C25-20180712-0640		April	Saceaux	8G13045-01	Solid	07/12/18 06:40	
8G13045-01 A	1-L Clear Glass Wide Mouth						
A-C30-20180712-0645		April	Saceaux	8G13045-02	Solid	07/12/18 06:45	
8G13045-02 A	1-L Clear Glass Wide Mouth						
A-C26-20180712-0715		April	Saceaux	8G13045-03	Solid	07/12/18 07:15	
8G13045-03 A	1-L Clear Glass Wide Mouth						



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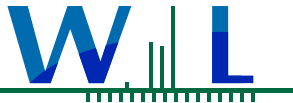
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Sample Name		Sampled By		Lab ID	Matrix	Sampled		Qualifiers
Container ID	Container Type	pH Pass	pH Checked On	pH Check By	CI Pass	CI Checked On	CI Check By	
A-C24-20180712-0800								
8G13045-04 A	1-L Clear Glass Wide Mouth		April Saceaux	8G13045-04	Solid	07/12/18 08:00		
B-C22-20180712-0855								
8G13045-05 A	1-L Clear Glass Wide Mouth		April Saceaux	8G13045-05	Solid	07/12/18 08:55		
B-C31-20180712-0910								
8G13045-06 A	1-L Clear Glass Wide Mouth		April Saceaux	8G13045-06	Solid	07/12/18 09:10		
A-C21-20180712-1030								
8G13045-09 A	1-L Clear Glass Wide Mouth		April Saceaux	8G13045-09	Solid	07/12/18 10:30		



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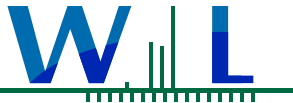
Sample Results

Sample: A-C25-20180712-0640
8G13045-01 (Solid)

Sampled: 07/12/18 6:40 by April Saceaux

Comments: Homogenized on 10/26/18 at 1750.

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains sections for 1,4-Dioxane, Acrylamide, Alcohols, Metals, and Semivolatile Organic Compounds.



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Sample Results

(Continued)

Sample: A-C25-20180712-0640
8G13045-01 (Solid)

Sampled: 07/12/18 6:40 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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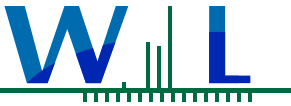
Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)	Batch ID: W8J1933	Initial: 0.56 g	Analyst: rmr
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15	Instr: GCMS06	Final: 1 ml	
2-Naphthylamine	ND	36	M-02, M-04
Bis(2-chloroethyl)ether	ND	3.6	M-02, M-04
Bis(2-ethylhexyl)phthalate	ND	3.6	M-02, M-04
Carbazole	ND	3.6	M-02, M-04
Phenol	ND	3.6	M-02, M-04
Pyridine	ND	7.1	M-02, M-04

Surrogate(s)	Result	Conc:	LOD	Analyzed	Qualifier
2,4,6-Tribromophenol	76%	13.6	32-103	12/07/18 02:12	M-02, M-04
2-Fluorobiphenyl	33%	2.97	36-107	12/07/18 02:12	M-02, M-04, S-GC
2-Fluorophenol	48%	8.57	33-119	12/07/18 02:12	M-02, M-04
Nitrobenzene-d5	47%	4.16	36-114	12/07/18 02:12	M-02, M-04
Phenol-d5	48%	8.55	40-118	12/07/18 02:12	M-02, M-04
Terphenyl-d14	95%	8.52	40-121	12/07/18 02:12	M-02, M-04

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM	Batch ID: W8J1934	Initial: 0.56 g	Analyst: rmr
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17	Instr: GCMS06	Final: 1 ml	
1-Methylnaphthalene	ND	540	M-02, M-04
2-Methylnaphthalene	ND	540	M-02, M-04
Acenaphthene	ND	540	M-02, M-04
Acenaphthylene	ND	540	M-02, M-04
Anthracene	ND	540	M-02, M-04
Benzo (a) anthracene	ND	540	M-02, M-04
Benzo (a) pyrene	ND	540	M-02, M-04
Benzo (b) fluoranthene	ND	540	M-02, M-04
Benzo (g,h,i) perylene	ND	540	M-02, M-04
Benzo (k) fluoranthene	ND	540	M-02, M-04
Chrysene	ND	540	M-02, M-04
Dibenzo (a,h) anthracene	ND	540	M-02, M-04



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Sample Results

(Continued)

Sample: A-C25-20180712-0640
8G13045-01 (Solid)

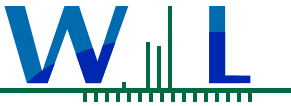
Sampled: 07/12/18 6:40 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)								
Analysis Method: EPA 8270C SIM (Continued)			Batch ID: W8J1934		Initial: 0.56 g		Analyst: rmr	
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17			Instr: GCMS06		Final: 1 ml			
Fluoranthene	ND			540	ug/kg	2	12/05/18 21:08	M-02, M-04
Fluorene	ND			540	ug/kg	2	12/05/18 21:08	M-02, M-04
Indeno (1,2,3-cd) pyrene	ND			540	ug/kg	2	12/05/18 21:08	M-02, M-04
Naphthalene	ND			540	ug/kg	2	12/05/18 21:08	M-02, M-04
Phenanthrene	ND			540	ug/kg	2	12/05/18 21:08	M-02, M-04
Pyrene	ND			540	ug/kg	2	12/05/18 21:08	M-02, M-04
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	38%	Conc: 3400		0.1-109			12/05/18 21:08	M-02, M-04
Nitrobenzene-d5	45%	Conc: 4060		0.1-107			12/05/18 21:08	M-02, M-04
Terphenyl-d14	98%	Conc: 8720		28-128			12/05/18 21:08	M-02, M-04

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B			Batch ID: W8K0412		Initial: 2.545 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
1,1,1,2-Tetrachloroethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,1,1-Trichloroethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			98	ug/kg	5	11/09/18 18:10	M-04, M-02
1,1,2-Trichloroethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,1-Dichloroethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,1-Dichloroethene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,1-Dichloropropene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,2,3-Trichlorobenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,2,3-Trichloropropane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,2,4-Trichlorobenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,2,4-Trimethylbenzene	ND			98	ug/kg	5	11/09/18 18:10	M-04, M-02
1,2-Dibromo-3-chloropropane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,2-Dibromoethane (EDB)	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,2-Dichloroethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,2-Dichloropropane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
1,3,5-Trimethylbenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04



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Sample Results

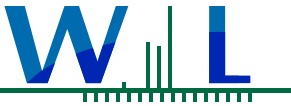
(Continued)

Sample: A-C25-20180712-0640
8G13045-01 (Solid)

Sampled: 07/12/18 6:40 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.545 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
1,3-Dichloropropane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
2,2-Dichloropropane	ND			98	ug/kg	5	11/09/18 18:10	M-04, M-02
2-Butanone	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
2-Chloroethyl vinyl ether	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
2-Chlorotoluene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
2-Hexanone	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
4-Chlorotoluene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
4-Methyl-2-pentanone	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Acetone	570			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Acrolein	1300			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Acrylonitrile	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Benzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Bromobenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Bromochloromethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Bromodichloromethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Bromoform	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Bromomethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Carbon tetrachloride	ND			98	ug/kg	5	11/09/18 18:10	M-04, M-02
Chlorobenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Chloroethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Chloroform	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Chloromethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
cis-1,2-Dichloroethene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
cis-1,3-Dichloropropene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Dibromochloromethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Dibromomethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Ethyl acetate	670			98	ug/kg	5	11/09/18 18:10	M-02, M-04



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Sample Results

(Continued)

Sample: A-C25-20180712-0640
8G13045-01 (Solid)

Sampled: 07/12/18 6:40 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analysis Method: EPA 8260B (Continued)

Batch ID: W8K0412

Initial: 2.545 g

Analyst: cam

Prep Method: EPA 5000/P&T on 11/07/18 17:58

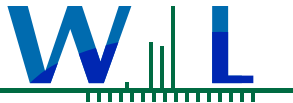
Instr: GCMS17

Final: 10 ml

Ethylbenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Hexachlorobutadiene	ND			98	ug/kg	5	11/09/18 18:10	M-04, M-02
Isopropylbenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
m,p-Xylene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
m-Dichlorobenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Methylene chloride	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Naphthalene	ND			98	ug/kg	5	11/09/18 18:10	M-04, M-02
n-Butylbenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
n-Propylbenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
o-Dichlorobenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
o-Xylene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
p-Dichlorobenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
p-Isopropyltoluene	280			98	ug/kg	5	11/09/18 18:10	M-02, M-04
sec-Butylbenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Styrene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
tert-Butylbenzene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Tetrachloroethene	ND			98	ug/kg	5	11/09/18 18:10	M-04, M-02
Toluene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
trans-1,2-Dichloroethene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
trans-1,3-Dichloropropene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Trichloroethene	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Trichlorofluoromethane	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04
Vinyl chloride	ND			98	ug/kg	5	11/09/18 18:10	M-02, M-04

Surrogate(s)

1,2-Dichloroethane-d4	101%	Conc: 199	78-140	11/09/18 18:10
4-Bromofluorobenzene	95%	Conc: 187	85-116	11/09/18 18:10
Dibromofluoromethane	101%	Conc: 198	84-120	11/09/18 18:10
Toluene-d8	95%	Conc: 187	82-120	11/09/18 18:10



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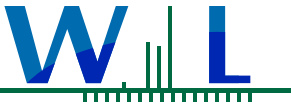
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Sample: A-C30-20180712-0645
8G13045-02 (Solid)

Sampled: 07/12/18 6:45 by April Saceaux

Comments: Homogenized on 10/26/18 at 1750.

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains sections for 1,4-Dioxane, Acrylamide, Alcohols, Metals, and Semivolatile Organic Compounds.



WECK LABORATORIES, INC.

Law Offices of McMurtrey, Hartssock & Worth
2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: A-C30-20180712-0645
8G13045-02 (Solid)

Sampled: 07/12/18 6:45 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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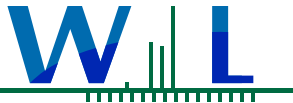
Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)	Batch ID: W8J1933	Initial: 0.55 g	Analyst: rmr
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15	Instr: GCMS06	Final: 1 ml	
2-Naphthylamine	ND	36	M-02, M-04
Bis(2-chloroethyl)ether	ND	3.6	M-02, M-04
Bis(2-ethylhexyl)phthalate	ND	3.6	M-02, M-04
Carbazole	ND	3.6	M-02, M-04
Phenol	ND	3.6	M-02, M-04
Pyridine	ND	7.3	M-02, M-04

Surrogate(s)	Result	Conc:	LOD	Analyzed	Qualifier
2,4,6-Tribromophenol	85%	15.4	32-103	12/07/18 02:43	M-02, M-04
2-Fluorobiphenyl	39%	3.57	36-107	12/07/18 02:43	M-02, M-04
2-Fluorophenol	51%	9.22	33-119	12/07/18 02:43	M-02, M-04
Nitrobenzene-d5	49%	4.47	36-114	12/07/18 02:43	M-02, M-04
Phenol-d5	52%	9.52	40-118	12/07/18 02:43	M-02, M-04
Terphenyl-d14	96%	8.70	40-121	12/07/18 02:43	M-02, M-04

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM	Batch ID: W8J1934	Initial: 0.55 g	Analyst: rmr
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17	Instr: GCMS06	Final: 1 ml	
1-Methylnaphthalene	ND	550	M-04, M-02
2-Methylnaphthalene	ND	550	M-02, M-04
Acenaphthene	ND	550	M-02, M-04
Acenaphthylene	ND	550	M-02, M-04
Anthracene	ND	550	M-02, M-04
Benzo (a) anthracene	ND	550	M-02, M-04
Benzo (a) pyrene	ND	550	M-02, M-04
Benzo (b) fluoranthene	ND	550	M-02, M-04
Benzo (g,h,i) perylene	ND	550	M-02, M-04
Benzo (k) fluoranthene	ND	550	M-02, M-04
Chrysene	ND	550	M-02, M-04
Dibenzo (a,h) anthracene	ND	550	M-02, M-04
Fluoranthene	ND	550	M-02, M-04



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Work Order(s): 8G13045

Certificate of Analysis

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Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: A-C30-20180712-0645
8G13045-02 (Solid)

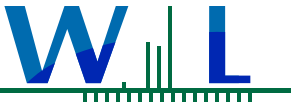
Sampled: 07/12/18 6:45 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)								
Analysis Method: EPA 8270C SIM (Continued)			Batch ID: W8J1934		Initial: 0.55 g		Analyst: rmr	
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17			Instr: GCMS06		Final: 1 ml			
Fluorene	ND			550	ug/kg	2	12/05/18 21:43	M-02, M-04
Indeno (1,2,3-cd) pyrene	ND			550	ug/kg	2	12/05/18 21:43	M-02, M-04
Naphthalene	ND			550	ug/kg	2	12/05/18 21:43	M-02, M-04
Phenanthrene	ND			550	ug/kg	2	12/05/18 21:43	M-02, M-04
Pyrene	ND			550	ug/kg	2	12/05/18 21:43	M-02, M-04
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	46%	Conc: 4180		0.1-109			12/05/18 21:43	M-02, M-04
Nitrobenzene-d5	49%	Conc: 4470		0.1-107			12/05/18 21:43	M-02, M-04
Terphenyl-d14	97%	Conc: 8790		28-128			12/05/18 21:43	M-02, M-04

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B			Batch ID: W8K0412		Initial: 2.576 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
1,1,1,2-Tetrachloroethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,1,1-Trichloroethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,1,2-Trichloroethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,1-Dichloroethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,1-Dichloroethene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,1-Dichloropropene	ND			97	ug/kg	5	11/09/18 18:45	M-04, M-02
1,2,3-Trichlorobenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,2,3-Trichloropropane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,2,4-Trichlorobenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,2,4-Trimethylbenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,2-Dibromoethane (EDB)	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,2-Dichloroethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,2-Dichloropropane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,3,5-Trimethylbenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
1,3-Dichloropropane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04



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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported:
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Sample Results

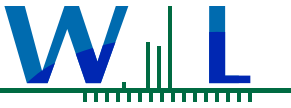
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Sample: A-C30-20180712-0645
8G13045-02 (Solid)

Sampled: 07/12/18 6:45 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.576 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
2,2-Dichloropropane	ND			97	ug/kg	5	11/09/18 18:45	M-04, M-02
2-Butanone	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
2-Chloroethyl vinyl ether	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
2-Chlorotoluene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
2-Hexanone	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
4-Chlorotoluene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
4-Methyl-2-pentanone	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Acetone	360			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Acrolein	570			97	ug/kg	5	11/09/18 18:45	M-04, M-02
Acrylonitrile	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Benzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Bromobenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Bromochloromethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Bromodichloromethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Bromoform	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Bromomethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Carbon tetrachloride	ND			97	ug/kg	5	11/09/18 18:45	M-04, M-02
Chlorobenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Chloroethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Chloroform	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Chloromethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
cis-1,2-Dichloroethene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
cis-1,3-Dichloropropene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Dibromochloromethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Dibromomethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Ethyl acetate	500			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Ethylbenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04



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Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 13:35

Sample Results

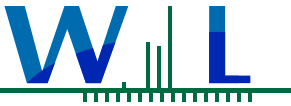
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Sample: A-C30-20180712-0645
8G13045-02 (Solid)

Sampled: 07/12/18 6:45 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.576 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
Hexachlorobutadiene	ND			97	ug/kg	5	11/09/18 18:45	M-04, M-02
Isopropylbenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
m,p-Xylene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
m-Dichlorobenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Methylene chloride	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Naphthalene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
n-Butylbenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
n-Propylbenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
o-Dichlorobenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
o-Xylene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
p-Dichlorobenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
p-Isopropyltoluene	460			97	ug/kg	5	11/09/18 18:45	M-02, M-04
sec-Butylbenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Styrene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
tert-Butylbenzene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Tetrachloroethene	ND			97	ug/kg	5	11/09/18 18:45	M-04, M-02
Toluene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
trans-1,2-Dichloroethene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
trans-1,3-Dichloropropene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Trichloroethene	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Trichlorofluoromethane	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
Vinyl chloride	ND			97	ug/kg	5	11/09/18 18:45	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	102%			Conc: 198			78-140	11/09/18 18:45
4-Bromofluorobenzene	95%			Conc: 185			85-116	11/09/18 18:45
Dibromofluoromethane	102%			Conc: 198			84-120	11/09/18 18:45
Toluene-d8	96%			Conc: 186			82-120	11/09/18 18:45



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Project Manager: Robert Hartssock
Work Order(s): 8G13045

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FINAL REPORT

Reported:
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Sample Results

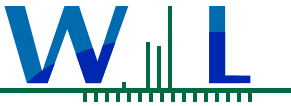
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Sample: A-C26-20180712-0715
8G13045-03 (Solid)

Sampled: 07/12/18 7:15 by April Saceaux

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
1,4-Dioxane Low Level by isotopic dilution GC/MS								
Analysis Method: EPA 8270M				Batch ID: W8J1932	Initial: 0.52 g		Analyst: mld	
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:13				Instr: GCMS20	Final: 1 ml			
1,4-Dioxane	ND			960	ug/kg	1	11/06/18 02:27	M-02
Acrylamide by LC/MS/MS								
Analysis Method: EPA 8316M				Batch ID: W8K0139	Initial: 1.06 g		Analyst: kan	
Prep Method: QuEChERS on 11/07/18 08:24				Instr: LCMS02	Final: 10 ml			
Acrylamide	ND			100	ug/kg	1	11/29/18 15:03	
Alcohols by GC/FID								
Analysis Method: EPA 8015B				Batch ID: W8K0439	Initial: 5.11 g		Analyst: ars	
Prep Method: Microextraction on 11/15/18 10:00				Instr: GC09	Final: 10 ml			
Isopropyl alcohol	ND			390	mg/kg	20	11/16/18 00:10	M-02, M-04
Methanol	ND			390	mg/kg	20	11/16/18 00:10	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods								
Analysis Method: EPA 6010B				Batch ID: W8J1837	Initial: 1.01 g		Analyst: JCK	
Prep Method: EPA 3050M-SCL on 10/30/18 10:19				Instr: ICP03	Final: 50 ml			
Lithium, Total	ND			5.0	mg/kg	1	11/01/18 11:06	
Analysis Method: EPA 6020B				Batch ID: W8J1836	Initial: 1.01 g		Analyst: MTT	
Prep Method: EPA 3050M-SCL on 10/30/18 10:17				Instr: ICPMS02	Final: 1000 ml			
Antimony, Total	ND			0.50	mg/kg	1	11/02/18 13:39	
Arsenic, Total	ND			0.50	mg/kg	1	11/02/18 00:08	
Barium, Total	1.8			0.50	mg/kg	1	11/02/18 00:08	
Beryllium, Total	ND			0.30	mg/kg	1	11/02/18 13:39	
Cadmium, Total	ND			0.20	mg/kg	1	11/02/18 00:08	
Chromium, Total	ND			1.0	mg/kg	1	11/02/18 00:08	
Cobalt, Total	ND			0.50	mg/kg	1	11/02/18 00:08	
Copper, Total	1.3			0.50	mg/kg	1	11/02/18 00:08	
Lead, Total	ND			0.50	mg/kg	1	11/02/18 00:08	
Molybdenum, Total	ND			0.50	mg/kg	1	11/02/18 13:39	
Nickel, Total	ND			1.0	mg/kg	1	11/02/18 00:08	
Selenium, Total	ND			0.50	mg/kg	1	11/02/18 00:08	
Silver, Total	ND			0.50	mg/kg	1	11/02/18 00:08	
Strontium, Total	4.8			0.50	mg/kg	1	11/02/18 00:08	
Thallium, Total	ND			0.50	mg/kg	1	11/02/18 00:08	
Vanadium, Total	ND			1.0	mg/kg	1	11/02/18 00:08	
Zinc, Total	ND			5.0	mg/kg	1	11/02/18 00:08	
Semivolatile Organic Compounds by GC/MS								
Analysis Method: EPA 8270C				Batch ID: W8J1933	Initial: 0.52 g		Analyst: rmr	
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15				Instr: GCMS06	Final: 1 ml			



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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: A-C26-20180712-0715
8G13045-03 (Solid)

Sampled: 07/12/18 7:15 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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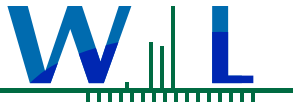
Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)	Batch ID: W8J1933	Initial: 0.52 g	Analyst: rmr			
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15	Instr: GCMS06	Final: 1 ml				
2-Naphthylamine	ND	96	mg/kg	5	12/07/18 03:13	M-02, M-04
Bis(2-chloroethyl)ether	ND	9.6	mg/kg	5	12/07/18 03:13	M-02, M-04
Bis(2-ethylhexyl)phthalate	ND	9.6	mg/kg	5	12/07/18 03:13	M-04, M-02
Carbazole	ND	9.6	mg/kg	5	12/07/18 03:13	M-02, M-04
Phenol	ND	9.6	mg/kg	5	12/07/18 03:13	M-02, M-04
Pyridine	ND	19	mg/kg	5	12/07/18 03:13	M-02, M-04

Surrogate(s)	Result	Conc:	LOD	LOQ	Analyzed	Qualifier
2,4,6-Tribromophenol	88%	16.8	32-103		12/07/18 03:13	M-02, M-04
2-Fluorobiphenyl	51%	4.94	36-107		12/07/18 03:13	M-02, M-04
2-Fluorophenol	57%	11.1	33-119		12/07/18 03:13	M-02, M-04
Nitrobenzene-d5	63%	6.06	36-114		12/07/18 03:13	M-02, M-04
Phenol-d5	57%	11.0	40-118		12/07/18 03:13	M-02, M-04
Terphenyl-d14	96%	9.21	40-121		12/07/18 03:13	M-02, M-04

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM	Batch ID: W8J1934	Initial: 0.52 g	Analyst: rmr			
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17	Instr: GCMS06	Final: 1 ml				
1-Methylnaphthalene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
2-Methylnaphthalene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Acenaphthene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Acenaphthylene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Anthracene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Benzo (a) anthracene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Benzo (a) pyrene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Benzo (b) fluoranthene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Benzo (g,h,i) perylene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Benzo (k) fluoranthene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Chrysene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Dibenzo (a,h) anthracene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Fluoranthene	ND	1400	ug/kg	5	12/05/18 22:19	M-02, M-04



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2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

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Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: A-C26-20180712-0715
8G13045-03 (Solid)

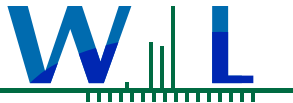
Sampled: 07/12/18 7:15 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)								
Analysis Method: EPA 8270C SIM (Continued)			Batch ID: W8J1934		Initial: 0.52 g		Analyst: rmr	
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17			Instr: GCMS06		Final: 1 ml			
Fluorene	ND			1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Indeno (1,2,3-cd) pyrene	ND			1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Naphthalene	ND			1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Phenanthrene	ND			1400	ug/kg	5	12/05/18 22:19	M-02, M-04
Pyrene	ND			1400	ug/kg	5	12/05/18 22:19	M-02, M-04
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	56%	Conc: 5380		0.1-109			12/05/18 22:19	M-02, M-04
Nitrobenzene-d5	58%	Conc: 5590		0.1-107			12/05/18 22:19	M-02, M-04
Terphenyl-d14	97%	Conc: 9280		28-128			12/05/18 22:19	M-04, M-02

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B			Batch ID: W8K0412		Initial: 2.614 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
1,1,1,2-Tetrachloroethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,1,1-Trichloroethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,1,2-Trichloroethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,1-Dichloroethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,1-Dichloroethene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,1-Dichloropropene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,2,3-Trichlorobenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,2,3-Trichloropropane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,2,4-Trichlorobenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,2,4-Trimethylbenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,2-Dibromoethane (EDB)	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,2-Dichloroethane	ND			96	ug/kg	5	11/09/18 19:19	M-04, M-02
1,2-Dichloropropane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,3,5-Trimethylbenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
1,3-Dichloropropane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04



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Project Manager: Robert Hartssock
Work Order(s): 8G13045

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01/23/2019 13:35

Sample Results

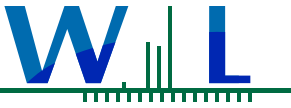
(Continued)

Sample: A-C26-20180712-0715
8G13045-03 (Solid)

Sampled: 07/12/18 7:15 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.614 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
2,2-Dichloropropane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
2-Butanone	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
2-Chloroethyl vinyl ether	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
2-Chlorotoluene	ND			96	ug/kg	5	11/09/18 19:19	M-04, M-02
2-Hexanone	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
4-Chlorotoluene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
4-Methyl-2-pentanone	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Acetone	440			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Acrolein	420			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Acrylonitrile	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Benzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Bromobenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Bromochloromethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Bromodichloromethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Bromoform	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Bromomethane	ND			96	ug/kg	5	11/09/18 19:19	M-04, M-02
Carbon tetrachloride	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Chlorobenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Chloroethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Chloroform	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Chloromethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
cis-1,2-Dichloroethene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
cis-1,3-Dichloropropene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Dibromochloromethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Dibromomethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Ethyl acetate	1100			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Ethylbenzene	ND			96	ug/kg	5	11/09/18 19:19	M-04, M-02



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Work Order(s): 8G13045

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01/23/2019 13:35

Sample Results

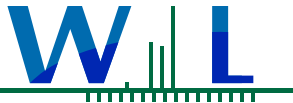
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Sample: A-C26-20180712-0715
8G13045-03 (Solid)

Sampled: 07/12/18 7:15 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.614 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
Hexachlorobutadiene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Isopropylbenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
m,p-Xylene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
m-Dichlorobenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Methylene chloride	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Naphthalene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
n-Butylbenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
n-Propylbenzene	ND			96	ug/kg	5	11/09/18 19:19	M-04, M-02
o-Dichlorobenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
o-Xylene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
p-Dichlorobenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
p-Isopropyltoluene	180			96	ug/kg	5	11/09/18 19:19	M-02, M-04
sec-Butylbenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Styrene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
tert-Butylbenzene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Tetrachloroethene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Toluene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
trans-1,2-Dichloroethene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
trans-1,3-Dichloropropene	ND			96	ug/kg	5	11/09/18 19:19	M-04, M-02
Trichloroethene	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Trichlorofluoromethane	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
Vinyl chloride	ND			96	ug/kg	5	11/09/18 19:19	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	103%		Conc: 197	78-140			11/09/18 19:19	
4-Bromofluorobenzene	94%		Conc: 180	85-116			11/09/18 19:19	
Dibromofluoromethane	100%		Conc: 192	84-120			11/09/18 19:19	
Toluene-d8	96%		Conc: 183	82-120			11/09/18 19:19	



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Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported: 01/23/2019 13:35

Sample Results

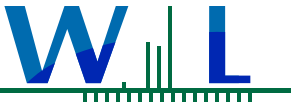
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Sample: A-C24-20180712-0800
8G13045-04 (Solid)

Sampled: 07/12/18 8:00 by April Saceaux

Comments: Homogenized on 10/26/18 at 1750.

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains sections for 1,4-Dioxane, Acrylamide, Alcohols, Metals, and Semivolatile Organic Compounds.



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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

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FINAL REPORT

Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: A-C24-20180712-0800
8G13045-04 (Solid)

Sampled: 07/12/18 8:00 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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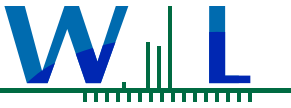
Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)	Batch ID: W8J1933	Initial: 0.57 g	Analyst: rmr
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15	Instr: GCMS06	Final: 1 ml	
2-Naphthylamine	ND	88	M-02, M-04
Bis(2-chloroethyl)ether	ND	8.8	M-02, M-04
Bis(2-ethylhexyl)phthalate	ND	8.8	M-02, M-04
Carbazole	ND	8.8	M-02, M-04
Phenol	ND	8.8	M-02, M-04
Pyridine	ND	18	M-02, M-04

Surrogate(s)	Result	Conc:	LOD	Analyzed	Qualifier
2,4,6-Tribromophenol	86%	15.1	32-103	12/07/18 03:44	M-02, M-04
2-Fluorobiphenyl	45%	3.98	36-107	12/07/18 03:44	M-02, M-04
2-Fluorophenol	56%	9.89	33-119	12/07/18 03:44	M-02, M-04
Nitrobenzene-d5	60%	5.26	36-114	12/07/18 03:44	M-02, M-04
Phenol-d5	56%	9.79	40-118	12/07/18 03:44	M-02, M-04
Phenol-d5	56%	9.79	40-118	12/07/18 03:44	M-02, M-04
Terphenyl-d14	95%	8.37	40-121	12/07/18 03:44	M-02, M-04

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM	Batch ID: W8J1934	Initial: 0.57 g	Analyst: rmr
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17	Instr: GCMS06	Final: 1 ml	
1-Methylnaphthalene	ND	1300	M-02, M-04
2-Methylnaphthalene	ND	1300	M-02, M-04
Acenaphthene	ND	1300	M-02, M-04
Acenaphthylene	ND	1300	M-02, M-04
Anthracene	ND	1300	M-02, M-04
Benzo (a) anthracene	ND	1300	M-02, M-04
Benzo (a) pyrene	ND	1300	M-02, M-04
Benzo (b) fluoranthene	ND	1300	M-02, M-04
Benzo (g,h,i) perylene	ND	1300	M-02, M-04
Benzo (k) fluoranthene	ND	1300	M-02, M-04
Chrysene	ND	1300	M-02, M-04
Dibenzo (a,h) anthracene	ND	1300	M-02, M-04



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Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: A-C24-20180712-0800
8G13045-04 (Solid)

Sampled: 07/12/18 8:00 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

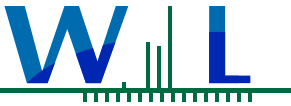
Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analysis Method: EPA 8270C SIM (Continued)		Batch ID: W8J1934		Initial: 0.57 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17		Instr: GCMS06		Final: 1 ml				
Fluoranthene	ND			1300	ug/kg	5	12/05/18 22:54	M-02, M-04
Fluorene	ND			1300	ug/kg	5	12/05/18 22:54	M-02, M-04
Indeno (1,2,3-cd) pyrene	ND			1300	ug/kg	5	12/05/18 22:54	M-02, M-04
Naphthalene	ND			1300	ug/kg	5	12/05/18 22:54	M-02, M-04
Phenanthrene	ND			1300	ug/kg	5	12/05/18 22:54	M-02, M-04
Pyrene	ND			1300	ug/kg	5	12/05/18 22:54	M-02, M-04
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	50%	Conc: 4360		0.1-109			12/05/18 22:54	M-02, M-04
Nitrobenzene-d5	53%	Conc: 4670		0.1-107			12/05/18 22:54	M-02, M-04
Terphenyl-d14	95%	Conc: 8330		28-128			12/05/18 22:54	M-02, M-04

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B		Batch ID: W8K0412		Initial: 2.636 g		Analyst: cam		
Prep Method: EPA 5000/P&T on 11/07/18 17:58		Instr: GCMS17		Final: 10 ml				
1,1,1,2-Tetrachloroethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,1,1-Trichloroethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,1,2-Trichloroethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,1-Dichloroethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,1-Dichloroethene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,1-Dichloropropene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,2,3-Trichlorobenzene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,2,3-Trichloropropane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,2,4-Trichlorobenzene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,2,4-Trimethylbenzene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,2-Dibromoethane (EDB)	ND			95	ug/kg	5	11/09/18 19:54	M-04, M-02
1,2-Dichloroethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,2-Dichloropropane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
1,3,5-Trimethylbenzene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04



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2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 13:35

Sample Results

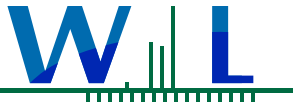
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Sample: A-C24-20180712-0800
8G13045-04 (Solid)

Sampled: 07/12/18 8:00 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.636 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
1,3-Dichloropropane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
2,2-Dichloropropane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
2-Butanone	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
2-Chloroethyl vinyl ether	ND			95	ug/kg	5	11/09/18 19:54	M-04, M-02
2-Chlorotoluene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
2-Hexanone	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
4-Chlorotoluene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
4-Methyl-2-pentanone	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Acetone	420			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Acrolein	420			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Acrylonitrile	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Benzene	ND			95	ug/kg	5	11/09/18 19:54	M-04, M-02
Bromobenzene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Bromochloromethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Bromodichloromethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Bromoform	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Bromomethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Carbon tetrachloride	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Chlorobenzene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Chloroethane	ND			95	ug/kg	5	11/09/18 19:54	M-04, M-02
Chloroform	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Chloromethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
cis-1,2-Dichloroethene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
cis-1,3-Dichloropropene	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Dibromochloromethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Dibromomethane	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			95	ug/kg	5	11/09/18 19:54	M-02, M-04
Ethyl acetate	350			95	ug/kg	5	11/09/18 19:54	M-02, M-04



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Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported: 01/23/2019 13:35

Sample Results

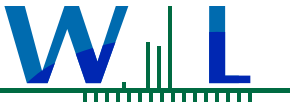
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Sample: A-C24-20180712-0800
8G13045-04 (Solid)

Sampled: 07/12/18 8:00 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Includes 'Volatile Organic Compounds by P&T and GC/MS (Continued)' and 'Surrogate(s)' sections.



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Work Order(s): 8G13045

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Sample Results

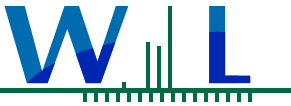
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Sample: B-C22-20180712-0855
8G13045-05 (Solid)

Sampled: 07/12/18 8:55 by April Saceaux

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
1,4-Dioxane Low Level by isotopic dilution GC/MS								
Analysis Method: EPA 8270M		Batch ID: W8J1932		Initial: 0.58 g		Analyst: mld		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:13		Instr: GCMS20		Final: 1 ml				
1,4-Dioxane	1100			860	ug/kg	1	11/06/18 02:55	M-02
Acrylamide by LC/MS/MS								
Analysis Method: EPA 8316M		Batch ID: W8K0139		Initial: 1.06 g		Analyst: kan		
Prep Method: QuEChERS on 11/07/18 08:24		Instr: LCMS02		Final: 10 ml				
Acrylamide	ND			100	ug/kg	1	11/29/18 15:21	
Alcohols by GC/FID								
Analysis Method: EPA 8015B		Batch ID: W8K0439		Initial: 5.01 g		Analyst: ars		
Prep Method: Microextraction on 11/15/18 10:00		Instr: GC09		Final: 10 ml				
Isopropyl alcohol	ND			400	mg/kg	20	11/16/18 01:09	M-02, M-04
Methanol	ND			400	mg/kg	20	11/16/18 01:09	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods								
Analysis Method: EPA 6010B		Batch ID: W8J1837		Initial: 1.006 g		Analyst: JCK		
Prep Method: EPA 3050M-SCL on 10/30/18 10:19		Instr: ICP03		Final: 50 ml				
Lithium, Total	ND			5.0	mg/kg	1	11/01/18 11:18	
Analysis Method: EPA 6020B		Batch ID: W8J1836		Initial: 1.006 g		Analyst: MTT		
Prep Method: EPA 3050M-SCL on 10/30/18 10:17		Instr: ICPMS02		Final: 1000 ml				
Antimony, Total	ND			0.50	mg/kg	1	11/02/18 14:03	
Arsenic, Total	ND			0.50	mg/kg	1	11/02/18 00:52	
Barium, Total	1.9			0.50	mg/kg	1	11/02/18 00:52	
Beryllium, Total	ND			0.30	mg/kg	1	11/02/18 14:03	
Cadmium, Total	ND			0.20	mg/kg	1	11/02/18 00:52	
Chromium, Total	ND			1.0	mg/kg	1	11/02/18 00:52	
Cobalt, Total	ND			0.50	mg/kg	1	11/02/18 00:52	
Copper, Total	0.76			0.50	mg/kg	1	11/02/18 00:52	
Lead, Total	ND			0.50	mg/kg	1	11/02/18 00:52	
Molybdenum, Total	ND			0.50	mg/kg	1	11/02/18 14:03	
Nickel, Total	ND			1.0	mg/kg	1	11/02/18 00:52	
Selenium, Total	ND			0.50	mg/kg	1	11/02/18 00:52	
Silver, Total	ND			0.50	mg/kg	1	11/02/18 00:52	
Strontium, Total	5.1			0.50	mg/kg	1	11/02/18 00:52	
Thallium, Total	ND			0.50	mg/kg	1	11/02/18 00:52	
Vanadium, Total	ND			1.0	mg/kg	1	11/02/18 00:52	
Zinc, Total	ND			5.0	mg/kg	1	11/02/18 00:52	
Semivolatile Organic Compounds by GC/MS								
Analysis Method: EPA 8270C		Batch ID: W8J1933		Initial: 0.58 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15		Instr: GCMS06		Final: 1 ml				



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Work Order(s): 8G13045

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01/23/2019 13:35

Sample Results

(Continued)

Sample: B-C22-20180712-0855
8G13045-05 (Solid)

Sampled: 07/12/18 8:55 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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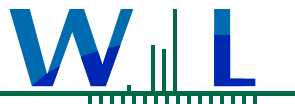
Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)	Batch ID: W8J1933	Initial: 0.58 g	Analyst: rmr			
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15	Instr: GCMS06	Final: 1 ml				
2-Naphthylamine	ND	86	mg/kg	5	12/07/18 04:14	M-02, M-04
Bis(2-chloroethyl)ether	ND	8.6	mg/kg	5	12/07/18 04:14	M-02, M-04
Bis(2-ethylhexyl)phthalate	ND	8.6	mg/kg	5	12/07/18 04:14	M-02, M-04
Carbazole	ND	8.6	mg/kg	5	12/07/18 04:14	M-02, M-04
Phenol	ND	8.6	mg/kg	5	12/07/18 04:14	M-02, M-04
Pyridine	ND	17	mg/kg	5	12/07/18 04:14	M-02, M-04

Surrogate(s)	Result	Conc:	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
2,4,6-Tribromophenol	86%	14.8		32-103				12/07/18 04:14	M-02, M-04
2-Fluorobiphenyl	48%	4.16		36-107				12/07/18 04:14	M-02, M-04
2-Fluorophenol	55%	9.45		33-119				12/07/18 04:14	M-02, M-04
Nitrobenzene-d5	59%	5.11		36-114				12/07/18 04:14	M-02, M-04
Phenol-d5	56%	9.65		40-118				12/07/18 04:14	M-02, M-04
Terphenyl-d14	93%	8.01		40-121				12/07/18 04:14	M-02, M-04

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM	Batch ID: W8J1934	Initial: 0.58 g	Analyst: rmr			
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17	Instr: GCMS06	Final: 1 ml				
1-Methylnaphthalene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
2-Methylnaphthalene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Acenaphthene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Acenaphthylene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Anthracene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Benzo (a) anthracene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Benzo (a) pyrene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Benzo (b) fluoranthene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Benzo (g,h,i) perylene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Benzo (k) fluoranthene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Chrysene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Dibenzo (a,h) anthracene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Fluoranthene	ND	1300	ug/kg	5	12/05/18 23:29	M-02, M-04



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Work Order(s): 8G13045

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Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: B-C22-20180712-0855
8G13045-05 (Solid)

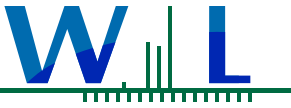
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Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)								
Analysis Method: EPA 8270C SIM (Continued)			Batch ID: W8J1934		Initial: 0.58 g		Analyst: rmr	
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17			Instr: GCMS06		Final: 1 ml			
Fluorene	ND			1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Indeno (1,2,3-cd) pyrene	ND			1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Naphthalene	ND			1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Phenanthrene	ND			1300	ug/kg	5	12/05/18 23:29	M-02, M-04
Pyrene	ND			1300	ug/kg	5	12/05/18 23:29	M-02, M-04
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	52%	Conc: 4520		0.1-109			12/05/18 23:29	M-02, M-04
Nitrobenzene-d5	53%	Conc: 4590		0.1-107			12/05/18 23:29	M-02, M-04
Terphenyl-d14	95%	Conc: 8200		28-128			12/05/18 23:29	M-02, M-04

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Analysis Method: EPA 8260B			Batch ID: W8K0412		Initial: 2.923 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
1,1,1,2-Tetrachloroethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,1,1-Trichloroethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,1,2-Trichloroethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,1-Dichloroethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,1-Dichloroethene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,1-Dichloropropene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,2,3-Trichlorobenzene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,2,3-Trichloropropane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,2,4-Trichlorobenzene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,2,4-Trimethylbenzene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,2-Dibromoethane (EDB)	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,2-Dichloroethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,2-Dichloropropane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,3,5-Trimethylbenzene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
1,3-Dichloropropane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04



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Work Order(s): 8G13045

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01/23/2019 13:35

Sample Results

(Continued)

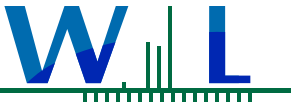
Sample: B-C22-20180712-0855
8G13045-05 (Solid)

Sampled: 07/12/18 8:55 by April Saceaux

(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.923 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
2,2-Dichloropropane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
2-Butanone	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
2-Chloroethyl vinyl ether	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
2-Chlorotoluene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
2-Hexanone	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
4-Chlorotoluene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
4-Methyl-2-pentanone	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Acetone	230			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Acrolein	270			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Acrylonitrile	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Benzene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Bromobenzene	ND			86	ug/kg	5	11/09/18 20:29	M-04, M-02
Bromochloromethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Bromodichloromethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Bromoform	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Bromomethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Carbon tetrachloride	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Chlorobenzene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Chloroethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Chloroform	ND			86	ug/kg	5	11/09/18 20:29	M-04, M-02
Chloromethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
cis-1,2-Dichloroethene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
cis-1,3-Dichloropropene	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Dibromochloromethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Dibromomethane	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Ethyl acetate	390			86	ug/kg	5	11/09/18 20:29	M-02, M-04
Ethylbenzene	ND			86	ug/kg	5	11/09/18 20:29	M-04, M-02



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Work Order(s): 8G13045

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Reported: 01/23/2019 13:35

Sample Results

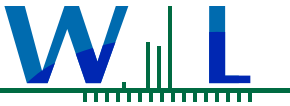
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Sample: B-C22-20180712-0855
8G13045-05 (Solid)

Sampled: 07/12/18 8:55 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Includes sections for Volatile Organic Compounds by P&T and GC/MS, Analysis Method, Prep Method, and Surrogate(s).



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FINAL REPORT

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Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Sample Results

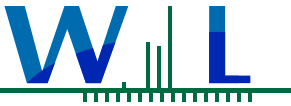
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Sample: B-C31-20180712-0910
8G13045-06 (Solid)

Sampled: 07/12/18 9:10 by April Saceaux

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
1,4-Dioxane Low Level by isotopic dilution GC/MS								
Analysis Method: EPA 8270M		Batch ID: W8J1932		Initial: 0.52 g		Analyst: mld		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:13		Instr: GCMS20		Final: 1 ml				
1,4-Dioxane	ND			960	ug/kg	1	11/06/18 03:09	M-02
Acrylamide by LC/MS/MS								
Analysis Method: EPA 8316M		Batch ID: W8K0139		Initial: 1.05 g		Analyst: kan		
Prep Method: QuEChERS on 11/07/18 08:24		Instr: LCMS02		Final: 10 ml				
Acrylamide	ND			100	ug/kg	1	11/29/18 15:29	
Alcohols by GC/FID								
Analysis Method: EPA 8015B		Batch ID: W8K0439		Initial: 5.1 g		Analyst: ars		
Prep Method: Microextraction on 11/15/18 10:00		Instr: GC09		Final: 10 ml				
Isopropyl alcohol	ND			390	mg/kg	20	11/16/18 01:39	M-02, M-04
Methanol	ND			390	mg/kg	20	11/16/18 01:39	M-02, M-04
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods								
Analysis Method: EPA 6010B		Batch ID: W8J1837		Initial: 1.008 g		Analyst: JCK		
Prep Method: EPA 3050M-SCL on 10/30/18 10:19		Instr: ICP03		Final: 50 ml				
Lithium, Total	ND			5.0	mg/kg	1	11/01/18 11:21	
Analysis Method: EPA 6020B		Batch ID: W8J1836		Initial: 1.008 g		Analyst: MTT		
Prep Method: EPA 3050M-SCL on 10/30/18 10:17		Instr: ICPMS02		Final: 1000 ml				
Antimony, Total	ND			0.50	mg/kg	1	11/02/18 14:06	
Arsenic, Total	ND			0.50	mg/kg	1	11/02/18 00:59	
Barium, Total	2.2			0.50	mg/kg	1	11/02/18 00:59	
Beryllium, Total	ND			0.30	mg/kg	1	11/02/18 14:06	
Cadmium, Total	ND			0.20	mg/kg	1	11/02/18 00:59	
Chromium, Total	ND			1.0	mg/kg	1	11/02/18 00:59	
Cobalt, Total	ND			0.50	mg/kg	1	11/02/18 00:59	
Copper, Total	0.82			0.50	mg/kg	1	11/02/18 00:59	
Lead, Total	ND			0.50	mg/kg	1	11/02/18 00:59	
Molybdenum, Total	ND			0.50	mg/kg	1	11/02/18 14:06	
Nickel, Total	ND			1.0	mg/kg	1	11/02/18 00:59	
Selenium, Total	ND			0.50	mg/kg	1	11/02/18 00:59	
Silver, Total	ND			0.50	mg/kg	1	11/02/18 00:59	
Strontium, Total	4.8			0.50	mg/kg	1	11/02/18 00:59	
Thallium, Total	ND			0.50	mg/kg	1	11/02/18 00:59	
Vanadium, Total	ND			1.0	mg/kg	1	11/02/18 00:59	
Zinc, Total	ND			5.0	mg/kg	1	11/02/18 00:59	
Semivolatile Organic Compounds by GC/MS								
Analysis Method: EPA 8270C		Batch ID: W8J1933		Initial: 0.52 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15		Instr: GCMS06		Final: 1 ml				



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Project Manager: Robert Hartssock
Work Order(s): 8G13045

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: B-C31-20180712-0910
8G13045-06 (Solid)

Sampled: 07/12/18 9:10 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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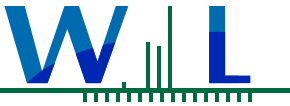
Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)	Batch ID: W8J1933	Initial: 0.52 g	Analyst: rmr
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15	Instr: GCMS06	Final: 1 ml	
2-Naphthylamine	ND	96	M-02, M-04
Bis(2-chloroethyl)ether	ND	9.6	M-02, M-04
Bis(2-ethylhexyl)phthalate	ND	9.6	M-02, M-04
Carbazole	ND	9.6	M-02, M-04
Phenol	ND	9.6	M-02, M-04
Pyridine	ND	19	M-02, M-04

Surrogate(s)	Result	Conc:	LOD	LOQ	Analyzed	Qualifier
2,4,6-Tribromophenol	90%	17.3	32-103		12/07/18 04:44	M-02, M-04
2-Fluorobiphenyl	45%	4.33	36-107		12/07/18 04:44	M-02, M-04
2-Fluorophenol	57%	11.0	33-119		12/07/18 04:44	M-02, M-04
Nitrobenzene-d5	65%	6.27	36-114		12/07/18 04:44	M-02, M-04
Phenol-d5	58%	11.2	40-118		12/07/18 04:44	M-02, M-04
Phenol-d5	58%	11.2	40-118		12/07/18 04:44	M-02, M-04
Terphenyl-d14	100%	9.59	40-121		12/07/18 04:44	M-02, M-04

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM	Batch ID: W8J1934	Initial: 0.52 g	Analyst: rmr
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17	Instr: GCMS06	Final: 1 ml	
1-Methylnaphthalene	ND	1400	M-02, M-04
2-Methylnaphthalene	ND	1400	M-02, M-04
Acenaphthene	ND	1400	M-02, M-04
Acenaphthylene	ND	1400	M-02, M-04
Anthracene	ND	1400	M-02, M-04
Benzo (a) anthracene	ND	1400	M-02, M-04
Benzo (a) pyrene	ND	1400	M-02, M-04
Benzo (b) fluoranthene	ND	1400	M-02, M-04
Benzo (g,h,i) perylene	ND	1400	M-02, M-04
Benzo (k) fluoranthene	ND	1400	M-02, M-04
Chrysene	ND	1400	M-02, M-04
Dibenzo (a,h) anthracene	ND	1400	M-02, M-04



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FINAL REPORT

Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: B-C31-20180712-0910
8G13045-06 (Solid)

Sampled: 07/12/18 9:10 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

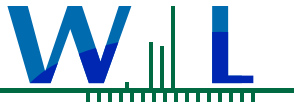
Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analysis Method: EPA 8270C SIM (Continued)		Batch ID: W8J1934		Initial: 0.52 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17		Instr: GCMS06		Final: 1 ml				
Fluoranthene	ND			1400	ug/kg	5	12/06/18 00:04	M-02, M-04
Fluorene	ND			1400	ug/kg	5	12/06/18 00:04	M-02, M-04
Indeno (1,2,3-cd) pyrene	ND			1400	ug/kg	5	12/06/18 00:04	M-02, M-04
Naphthalene	ND			1400	ug/kg	5	12/06/18 00:04	M-02, M-04
Phenanthrene	ND			1400	ug/kg	5	12/06/18 00:04	M-02, M-04
Pyrene	ND			1400	ug/kg	5	12/06/18 00:04	M-02, M-04
<i>Surrogate(s)</i>								
2-Fluorobiphenyl	48%	Conc: 4600		0.1-109			12/06/18 00:04	M-02, M-04
Nitrobenzene-d5	57%	Conc: 5500		0.1-107			12/06/18 00:04	M-02, M-04
Terphenyl-d14	96%	Conc: 9190		28-128			12/06/18 00:04	M-02, M-04

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B		Batch ID: W8K0412		Initial: 2.623 g		Analyst: cam		
Prep Method: EPA 5000/P&T on 11/07/18 17:58		Instr: GCMS17		Final: 10 ml				
1,1,1,2-Tetrachloroethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,1,1-Trichloroethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,1,2-Trichloroethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,1-Dichloroethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,1-Dichloroethene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,1-Dichloropropene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,2,3-Trichlorobenzene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,2,3-Trichloropropane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,2,4-Trichlorobenzene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,2,4-Trimethylbenzene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,2-Dibromoethane (EDB)	ND			95	ug/kg	5	11/09/18 21:03	M-04, M-02
1,2-Dichloroethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,2-Dichloropropane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
1,3,5-Trimethylbenzene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04



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Work Order(s): 8G13045

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01/23/2019 13:35

Sample Results

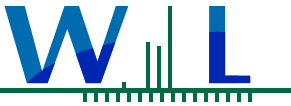
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Sample: B-C31-20180712-0910
8G13045-06 (Solid)

Sampled: 07/12/18 9:10 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.623 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
1,3-Dichloropropane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
2,2-Dichloropropane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
2-Butanone	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
2-Chloroethyl vinyl ether	ND			95	ug/kg	5	11/09/18 21:03	M-04, M-02
2-Chlorotoluene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
2-Hexanone	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
4-Chlorotoluene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
4-Methyl-2-pentanone	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Acetone	5200			95	ug/kg	5	11/09/18 21:03	E-01, M-02, M-04
Acrolein	450			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Acrylonitrile	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Benzene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Bromobenzene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Bromochloromethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Bromodichloromethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Bromoform	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Bromomethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Carbon tetrachloride	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Chlorobenzene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Chloroethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Chloroform	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Chloromethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
cis-1,2-Dichloroethene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
cis-1,3-Dichloropropene	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Dibromochloromethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Dibromomethane	ND			95	ug/kg	5	11/09/18 21:03	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			95	ug/kg	5	11/09/18 21:03	M-04, M-02



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Work Order(s): 8G13045

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Reported: 01/23/2019 13:35

Sample Results

(Continued)

Sample: B-C31-20180712-0910
8G13045-06 (Solid)

Sampled: 07/12/18 9:10 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

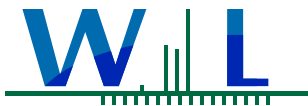
Table header with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analysis Method: EPA 8260B (Continued)
Prep Method: EPA 5000/P&T on 11/07/18 17:58
Batch ID: W8K0412
Instr: GCMS17
Initial: 2.623 g
Final: 10 ml
Analyst: cam

Main data table listing various compounds like Ethyl acetate, Ethylbenzene, Hexachlorobutadiene, etc., with their respective results and qualifiers.

Surrogate(s) table listing 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, and Dibromofluoromethane with their recovery percentages and concentrations.



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Project Manager: Robert Hartsock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: B-C31-20180712-0910
8G13045-06 (Solid)

Sampled: 07/12/18 9:10 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analysis Method: EPA 8260B (Continued)

Batch ID: W8K0412

Initial: 2.623 g

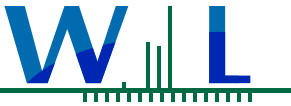
Analyst: cam

Prep Method: EPA 5000/P&T on 11/07/18 17:58

Instr: GCMS17

Final: 10 ml

<i>Toluene-d8</i>	96%		<i>Conc: 183</i>	82-120			11/09/18 21:03	
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Work Order(s): 8G13045

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Sample Results

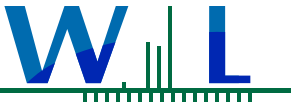
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Sample: A-C21-20180712-1030
8G13045-09 (Solid)

Sampled: 07/12/18 10:30 by April Saceaux

Comments: Homogenized on 10/26/18 at 1750.

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains sections for 1,4-Dioxane, Acrylamide, Alcohols, Metals, and Semivolatile Organic Compounds.



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Reported:
01/23/2019 13:35

Sample Results

(Continued)

Sample: A-C21-20180712-1030
8G13045-09 (Solid)

Sampled: 07/12/18 10:30 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
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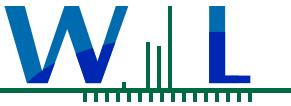
Semivolatile Organic Compounds by GC/MS (Continued)

Analysis Method: EPA 8270C (Continued)	Batch ID: W8J1933	Initial: 0.55 g	Analyst: rmr			
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15	Instr: GCMS06	Final: 1 ml				
2-Naphthylamine	ND	36	mg/kg	2	12/07/18 05:15	M-02, M-04
Bis(2-chloroethyl)ether	ND	3.6	mg/kg	2	12/07/18 05:15	M-02, M-04
Bis(2-ethylhexyl)phthalate	ND	3.6	mg/kg	2	12/07/18 05:15	M-04, M-02
Carbazole	ND	3.6	mg/kg	2	12/07/18 05:15	M-02, M-04
Phenol	ND	3.6	mg/kg	2	12/07/18 05:15	M-02, M-04
Pyridine	ND	7.3	mg/kg	2	12/07/18 05:15	M-02, M-04

Surrogate(s)	Result	Conc:	LOD	LOQ	Units	Dil	Analyzed	Qualifier
2,4,6-Tribromophenol	82%	15.0	32-103				12/07/18 05:15	M-02, M-04
2-Fluorobiphenyl	44%	4.02	36-107				12/07/18 05:15	M-02, M-04
2-Fluorophenol	59%	10.8	33-119				12/07/18 05:15	M-02, M-04
Nitrobenzene-d5	57%	5.18	36-114				12/07/18 05:15	M-02, M-04
Phenol-d5	59%	10.7	40-118				12/07/18 05:15	M-02, M-04
Terphenyl-d14	92%	8.33	40-121				12/07/18 05:15	M-02, M-04

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM	Batch ID: W8J1934	Initial: 0.55 g	Analyst: rmr			
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17	Instr: GCMS06	Final: 1 ml				
1-Methylnaphthalene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
2-Methylnaphthalene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Acenaphthene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Acenaphthylene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Anthracene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Benzo (a) anthracene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Benzo (a) pyrene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Benzo (b) fluoranthene	ND	550	ug/kg	2	12/06/18 00:39	M-04, M-02
Benzo (g,h,i) perylene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Benzo (k) fluoranthene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Chrysene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Dibenzo (a,h) anthracene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04
Fluoranthene	ND	550	ug/kg	2	12/06/18 00:39	M-02, M-04



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Sample Results

(Continued)

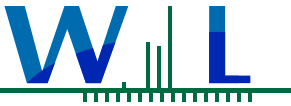
Sample: A-C21-20180712-1030
8G13045-09 (Solid)

Sampled: 07/12/18 10:30 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Section: Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued). Includes analysis and prep methods, batch ID, and initial/final weights. Lists various organic compounds and their results.

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Section: Volatile Organic Compounds by P&T and GC/MS. Includes analysis and prep methods, batch ID, and initial/final weights. Lists various volatile organic compounds and their results.



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Work Order(s): 8G13045

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01/23/2019 13:35

Sample Results

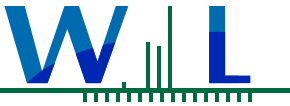
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Sample: A-C21-20180712-1030
8G13045-09 (Solid)

Sampled: 07/12/18 10:30 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.764 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
2,2-Dichloropropane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
2-Butanone	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
2-Chloroethyl vinyl ether	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
2-Chlorotoluene	ND			90	ug/kg	5	11/09/18 21:38	M-04, M-02
2-Hexanone	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
4-Chlorotoluene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
4-Methyl-2-pentanone	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Acetone	520			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Acrolein	190			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Acrylonitrile	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Benzene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Bromobenzene	ND			90	ug/kg	5	11/09/18 21:38	M-04, M-02
Bromochloromethane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Bromodichloromethane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Bromoform	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Bromomethane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Carbon tetrachloride	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Chlorobenzene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Chloroethane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Chloroform	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Chloromethane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
cis-1,2-Dichloroethene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
cis-1,3-Dichloropropene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Dibromochloromethane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Dibromomethane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Ethyl acetate	560			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Ethylbenzene	ND			90	ug/kg	5	11/09/18 21:38	M-04, M-02



WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

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Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

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01/23/2019 13:35

Sample Results

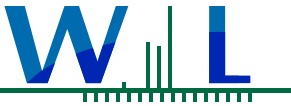
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Sample: A-C21-20180712-1030
8G13045-09 (Solid)

Sampled: 07/12/18 10:30 by April Saceaux
(Continued)

Comments: Homogenized on 10/26/18 at 1750.

Analyte	Result	MDL	LOD	LOQ	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)								
Analysis Method: EPA 8260B (Continued)			Batch ID: W8K0412		Initial: 2.764 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
Hexachlorobutadiene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Isopropylbenzene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
m,p-Xylene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
m-Dichlorobenzene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Methylene chloride	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Naphthalene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
n-Butylbenzene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
n-Propylbenzene	ND			90	ug/kg	5	11/09/18 21:38	M-04, M-02
o-Dichlorobenzene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
o-Xylene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
p-Dichlorobenzene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
p-Isopropyltoluene	90			90	ug/kg	5	11/09/18 21:38	M-02, M-04
sec-Butylbenzene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Styrene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
tert-Butylbenzene	ND			90	ug/kg	5	11/09/18 21:38	M-04, M-02
Tetrachloroethene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Toluene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
trans-1,2-Dichloroethene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
trans-1,3-Dichloropropene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Trichloroethene	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Trichlorofluoromethane	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
Vinyl chloride	ND			90	ug/kg	5	11/09/18 21:38	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	105%		Conc: 189		78-140		11/09/18 21:38	
4-Bromofluorobenzene	95%		Conc: 172		85-116		11/09/18 21:38	
Dibromofluoromethane	101%		Conc: 183		84-120		11/09/18 21:38	
Toluene-d8	99%		Conc: 180		82-120		11/09/18 21:38	



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Quality Control Results

1,4-Dioxane Low Level by isotopic dilution GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8J1932 - EPA 8270M						Initial: 20 g	Final: 1 ml					
Blank (W8J1932-BLK1)						Prepared: 10/31/18 Analyzed: 11/05/18						
1,4-Dioxane	ND			25	ug/kg							
LCS (W8J1932-BS1)						Prepared: 10/31/18 Analyzed: 11/05/18						
1,4-Dioxane	493			25	ug/kg	500		99	76-130			
Matrix Spike (W8J1932-MS1)						Prepared: 10/31/18 Analyzed: 11/06/18						
1,4-Dioxane	17400			880	ug/kg	17500	ND	99	84-128			M-02
Matrix Spike Dup (W8J1932-MSD1)						Prepared: 10/31/18 Analyzed: 11/06/18						
1,4-Dioxane	18900			940	ug/kg	18900	ND	100	84-128	8	30	M-02

Quality Control Results

Acrylamide by LC/MS/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8K0139 - EPA 8316M						Initial: 1 g	Final: 10 ml					
Blank (W8K0139-BLK1)						Prepared: 11/05/18 Analyzed: 11/29/18						
Acrylamide	ND	100		100	ug/kg							
LCS (W8K0139-BS1)						Prepared: 11/05/18 Analyzed: 11/29/18						
Acrylamide	166	0.47		10	ug/kg	100		166	80-120			Q-08
Matrix Spike (W8K0139-MS1)						Prepared: 11/05/18 Analyzed: 11/29/18						
Acrylamide	200	0.47		10	ug/kg	99.0	17.7	184	80-120			Q-08
Matrix Spike Dup (W8K0139-MSD1)						Prepared: 11/05/18 Analyzed: 11/29/18						
Acrylamide	195	0.47		10	ug/kg	97.1	17.7	183	80-120	2	20	Q-08

Quality Control Results

Alcohols by GC/FID

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8K0439 - EPA 8015B						Initial: 5 g	Final: 5 ml					
Blank (W8K0439-BLK1)						Prepared: 11/15/18 Analyzed: 11/16/18						
Isopropyl alcohol	ND	1.7		10	mg/kg							
Methanol	ND	2.7		10	mg/kg							
LCS (W8K0439-BS1)						Prepared: 11/15/18 Analyzed: 11/16/18						
Isopropyl alcohol	7.44	1.7		10	mg/kg	10.0		74	43-144			
Methanol	6.06	2.7		10	mg/kg	10.0		61	54-139			
Matrix Spike (W8K0439-MS1)						Prepared & Analyzed: 11/15/18						
Isopropyl alcohol	84.3	0.0		810	mg/kg	40.3	ND	209	4-156			M-02, M-04,
Methanol	105	0.0		810	mg/kg	40.3	124	NR	16-166			M-02, M-04,
Matrix Spike Dup (W8K0439-MSD1)						Prepared & Analyzed: 11/15/18						
Isopropyl alcohol	78.7	0.0		800	mg/kg	39.8	ND	198	4-156	200	25	MS-05, M-02,
Methanol	187	0.0		800	mg/kg	39.8	124	158	16-166	200	25	M-02, M-04,



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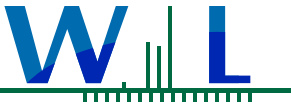
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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8J1836 - EPA 6020B						Initial: 1 g		Final: 1000 ml			
Blank (W8J1836-BLK1)						Prepared: 10/30/18 Analyzed: 11/02/18					
Antimony, Total	ND	0.20		0.50	mg/kg						
Arsenic, Total	ND	0.20		0.50	mg/kg						
Barium, Total	ND	0.10		0.50	mg/kg						
Beryllium, Total	ND	0.20		0.30	mg/kg						
Cadmium, Total	ND	0.060		0.20	mg/kg						
Chromium, Total	ND	0.23		1.0	mg/kg						
Cobalt, Total	ND	0.31		0.50	mg/kg						
Copper, Total	ND	0.29		0.50	mg/kg						
Lead, Total	ND	0.21		0.50	mg/kg						
Molybdenum, Total	ND	0.30		0.50	mg/kg						
Nickel, Total	ND	0.45		1.0	mg/kg						
Selenium, Total	ND	0.46		0.50	mg/kg						
Silver, Total	ND	0.30		0.50	mg/kg						
Strontium, Total	ND	0.25		0.50	mg/kg						
Thallium, Total	ND	0.18		0.50	mg/kg						
Vanadium, Total	ND	0.73		1.0	mg/kg						
Zinc, Total	ND	2.3		5.0	mg/kg						
LCS (W8J1836-BS1)						Prepared: 10/30/18 Analyzed: 11/02/18					
Antimony, Total	49.6	0.20		0.50	mg/kg	50.0		99	80-120		
Arsenic, Total	49.8	0.20		0.50	mg/kg	50.0		100	80-120		
Barium, Total	47.1	0.10		0.50	mg/kg	50.0		94	80-120		
Beryllium, Total	51.1	0.20		0.30	mg/kg	50.0		102	80-120		
Cadmium, Total	49.0	0.060		0.20	mg/kg	50.0		98	80-120		
Chromium, Total	48.2	0.23		1.0	mg/kg	50.0		96	80-120		
Cobalt, Total	47.9	0.31		0.50	mg/kg	50.0		96	80-120		
Copper, Total	51.0	0.29		0.50	mg/kg	50.0		102	80-120		
Lead, Total	49.1	0.21		0.50	mg/kg	50.0		98	80-120		
Molybdenum, Total	47.7	0.30		0.50	mg/kg	50.0		95	80-120		
Nickel, Total	49.4	0.45		1.0	mg/kg	50.0		99	80-120		
Selenium, Total	54.3	0.46		0.50	mg/kg	50.0		109	80-120		
Silver, Total	49.4	0.30		0.50	mg/kg	50.0		99	80-120		
Strontium, Total	96.8	0.25		0.50	mg/kg	100		97	80-120		
Thallium, Total	46.7	0.18		0.50	mg/kg	50.0		93	80-120		
Vanadium, Total	46.2	0.73		1.0	mg/kg	50.0		92	80-120		
Zinc, Total	53.6	2.3		5.0	mg/kg	50.0		107	80-120		
Duplicate (W8J1836-DUP1)						Source: 8G06099-01 Prepared: 10/30/18 Analyzed: 11/02/18					
Antimony, Total	ND	0.20		0.50	mg/kg		ND			20	
Arsenic, Total	ND	0.20		0.50	mg/kg		ND			20	
Barium, Total	ND	0.10		0.50	mg/kg		ND			20	
Beryllium, Total	ND	0.20		0.30	mg/kg		ND			20	



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Certificate of Analysis

FINAL REPORT

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Work Order(s): 8G13045

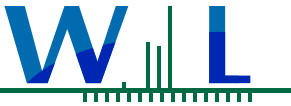
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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8J1836 - EPA 6020B (Continued)						Initial: 1.01 g		Final: 1000 ml			
Duplicate (W8J1836-DUP1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/01/18				
Cadmium, Total	ND	0.060		0.20	mg/kg		ND			20	
Chromium, Total	ND	0.23		1.0	mg/kg		ND			20	
Cobalt, Total	ND	0.31		0.50	mg/kg		ND			20	
Copper, Total	1.01	0.29		0.50	mg/kg		0.970		4	20	
Lead, Total	ND	0.21		0.50	mg/kg		ND			20	
Molybdenum, Total	ND	0.30		0.50	mg/kg		ND			20	
Nickel, Total	ND	0.45		1.0	mg/kg		ND			20	
Selenium, Total	ND	0.46		0.50	mg/kg		ND			20	
Silver, Total	ND	0.30		0.50	mg/kg		ND			20	
Strontium, Total	0.713	0.25		0.50	mg/kg		0.752		5	20	
Thallium, Total	ND	0.18		0.50	mg/kg		ND			20	
Vanadium, Total	ND	0.73		1.0	mg/kg		ND			20	
Zinc, Total	3.68	2.3		5.0	mg/kg		3.71		0.8	20	
Matrix Spike (W8J1836-MS1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/02/18				
Antimony, Total	47.6	0.20		0.50	mg/kg	50.0	ND	95	75-125		
Arsenic, Total	49.2	0.20		0.50	mg/kg	50.0	ND	98	75-125		
Barium, Total	45.5	0.10		0.50	mg/kg	50.0	ND	91	75-125		
Beryllium, Total	48.6	0.20		0.30	mg/kg	50.0	ND	97	75-125		
Cadmium, Total	47.6	0.060		0.20	mg/kg	50.0	ND	95	75-125		
Chromium, Total	46.3	0.23		1.0	mg/kg	50.0	ND	93	75-125		
Cobalt, Total	45.9	0.31		0.50	mg/kg	50.0	ND	92	75-125		
Copper, Total	50.5	0.29		0.50	mg/kg	50.0	0.970	99	75-125		
Lead, Total	46.6	0.21		0.50	mg/kg	50.0	ND	93	75-125		
Molybdenum, Total	45.2	0.30		0.50	mg/kg	50.0	ND	90	75-125		
Nickel, Total	47.8	0.45		1.0	mg/kg	50.0	ND	95	75-125		
Selenium, Total	53.3	0.46		0.50	mg/kg	50.0	ND	107	75-125		
Silver, Total	47.3	0.30		0.50	mg/kg	50.0	ND	95	75-125		
Strontium, Total	93.6	0.25		0.50	mg/kg	100	0.752	93	75-125		
Thallium, Total	44.7	0.18		0.50	mg/kg	50.0	ND	89	75-125		
Vanadium, Total	45.0	0.73		1.0	mg/kg	50.0	ND	90	75-125		
Zinc, Total	56.9	2.3		5.0	mg/kg	50.0	3.71	106	75-125		
Matrix Spike Dup (W8J1836-MSD1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/02/18				
Antimony, Total	48.0	0.20		0.50	mg/kg	49.5	ND	97	75-125	0.9	20
Arsenic, Total	50.1	0.20		0.50	mg/kg	49.5	ND	101	75-125	2	20
Barium, Total	47.1	0.10		0.50	mg/kg	49.5	ND	95	75-125	4	20
Beryllium, Total	49.0	0.20		0.30	mg/kg	49.5	ND	99	75-125	0.9	20
Cadmium, Total	49.0	0.060		0.20	mg/kg	49.5	ND	99	75-125	3	20
Chromium, Total	47.2	0.23		1.0	mg/kg	49.5	ND	95	75-125	2	20
Cobalt, Total	47.0	0.31		0.50	mg/kg	49.5	ND	95	75-125	2	20
Copper, Total	51.4	0.29		0.50	mg/kg	49.5	0.970	102	75-125	2	20



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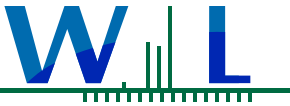
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Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8J1836 - EPA 6020B (Continued)						Initial: 1.009 g	Final: 1000 ml					
Matrix Spike Dup (W8J1836-MSD1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/01/18					
Lead, Total	48.6	0.21		0.50	mg/kg	49.5	ND	98	75-125	4	20	
Molybdenum, Total	45.7	0.30		0.50	mg/kg	49.5	ND	92	75-125	1	20	
Nickel, Total	48.8	0.45		1.0	mg/kg	49.5	ND	98	75-125	2	20	
Selenium, Total	54.2	0.46		0.50	mg/kg	49.5	ND	109	75-125	2	20	
Silver, Total	48.7	0.30		0.50	mg/kg	49.5	ND	98	75-125	3	20	
Strontium, Total	96.1	0.25		0.50	mg/kg	99.2	0.752	96	75-125	3	20	
Thallium, Total	46.8	0.18		0.50	mg/kg	49.5	ND	94	75-125	5	20	
Vanadium, Total	45.9	0.73		1.0	mg/kg	49.5	ND	93	75-125	2	20	
Zinc, Total	57.6	2.3		5.0	mg/kg	49.5	3.71	109	75-125	1	20	
Batch: W8J1837 - EPA 6010B						Initial: 1 g	Final: 50 ml					
Blank (W8J1837-BLK1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/01/18					
Lithium, Total	ND	0.23		5.0	mg/kg							
LCS (W8J1837-BS1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/01/18					
Lithium, Total	47.8	0.23		5.0	mg/kg	50.0		96	80-120			
Duplicate (W8J1837-DUP1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/01/18					
Lithium, Total	ND	0.23		5.0	mg/kg		ND				20	
Matrix Spike (W8J1837-MS1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/01/18					
Lithium, Total	55.1	0.23		5.0	mg/kg	49.6	ND	111	75-125			
Matrix Spike Dup (W8J1837-MSD1)		Source: 8G06099-01			Prepared: 10/30/18		Analyzed: 11/01/18					
Lithium, Total	56.0	0.23		5.0	mg/kg	50.5	ND	111	75-125	2	20	



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Project Manager: Robert Hartssock
Work Order(s): 8G13045

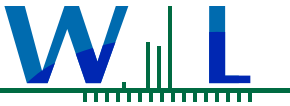
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Quality Control Results

(Continued)

Semivolatle Organic Compounds by GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8J1933 - EPA 8270C						Initial: 20 g			Final: 1 ml		
Blank (W8J1933-BLK1)						Prepared: 10/31/18 Analyzed: 12/06/18					
2-Naphthylamine	ND	0.50		0.50	mg/kg						
Bis(2-chloroethyl)ether	ND	0.011		0.050	mg/kg						
Bis(2-ethylhexyl)phthalate	ND	0.012		0.050	mg/kg						
Carbazole	ND	0.0090		0.050	mg/kg						
Phenol	ND	0.015		0.050	mg/kg						
Pyridine	ND	0.0050		0.10	mg/kg						
<i>Surrogate(s)</i>											
2,4,6-Tribromophenol	0.301				mg/kg	0.500		60		32-103	
2,4,6-Tribromophenol	0.301				mg/kg	0.500		60		32-103	
2-Fluorobiphenyl	0.139				mg/kg	0.250		56		36-107	
2-Fluorobiphenyl	0.139				mg/kg	0.250		56		36-107	
2-Fluorophenol	0.244				mg/kg	0.500		49		33-119	
2-Fluorophenol	0.244				mg/kg	0.500		49		33-119	
Nitrobenzene-d5	0.128				mg/kg	0.250		51		36-114	
Nitrobenzene-d5	0.128				mg/kg	0.250		51		36-114	
Phenol-d5	0.256				mg/kg	0.500		51		40-118	
Phenol-d5	0.256				mg/kg	0.500		51		40-118	
Terphenyl-d14	0.231				mg/kg	0.250		92		40-121	
Terphenyl-d14	0.231				mg/kg	0.250		92		40-121	
LCS (W8J1933-BS1)						Prepared: 10/31/18 Analyzed: 12/06/18					
Phenol	0.690	0.015		0.050	mg/kg	1.25		55		33-106	
<i>Surrogate(s)</i>											
2,4,6-Tribromophenol	1.96				mg/kg	2.50		78		32-103	
2,4,6-Tribromophenol	1.96				mg/kg	2.50		78		32-103	
2-Fluorobiphenyl	0.775				mg/kg	1.25		62		36-107	
2-Fluorobiphenyl	0.775				mg/kg	1.25		62		36-107	
2-Fluorophenol	1.49				mg/kg	2.50		59		33-119	
2-Fluorophenol	1.49				mg/kg	2.50		59		33-119	
Nitrobenzene-d5	0.706				mg/kg	1.25		56		36-114	
Nitrobenzene-d5	0.706				mg/kg	1.25		56		36-114	
Phenol-d5	1.54				mg/kg	2.50		62		40-118	
Phenol-d5	1.54				mg/kg	2.50		62		40-118	
Terphenyl-d14	1.43				mg/kg	1.25		115		40-121	
Terphenyl-d14	1.43				mg/kg	1.25		115		40-121	
Matrix Spike (W8J1933-MS1)						Source: 8G06099-01 Prepared: 10/31/18 Analyzed: 12/06/18					
Phenol	25.0	0.60		2.0	mg/kg	50.0	ND	50		31-102	M-02
<i>Surrogate(s)</i>											
2,4,6-Tribromophenol	76.0				mg/kg	100		76		32-103	M-02
2,4,6-Tribromophenol	76.0				mg/kg	100		76		32-103	M-02
2-Fluorobiphenyl	28.4				mg/kg	50.0		57		36-107	M-02
2-Fluorobiphenyl	28.4				mg/kg	50.0		57		36-107	M-02



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FINAL REPORT

Law Offices of McMurtrey, Hartssock & Worth
2001 22nd Street, Suite 100
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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

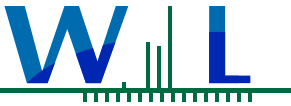
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Quality Control Results

(Continued)

Semivolatle Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	Limit	RPD	RPD Limit	Qualifier
Batch: W8J1933 - EPA 8270C (Continued)			Initial: 0.5 g				Final: 1 ml					
Matrix Spike (W8J1933-MS1)		Source: 8G06099-01			Prepared: 10/31/18 Analyzed: 12/06/18							
<i>Surrogate(s)</i>												
2-Fluorophenol	49.2				mg/kg	100		49	33-119			M-02
2-Fluorophenol	49.2				mg/kg	100		49	33-119			M-02
Nitrobenzene-d5	24.7				mg/kg	50.0		49	36-114			M-02
Nitrobenzene-d5	24.7				mg/kg	50.0		49	36-114			M-02
Phenol-d5	53.3				mg/kg	100		53	40-118			M-02
Phenol-d5	53.3				mg/kg	100		53	40-118			M-02
Terphenyl-d14	53.0				mg/kg	50.0		106	40-121			M-02
Terphenyl-d14	53.0				mg/kg	50.0		106	40-121			M-02
Matrix Spike Dup (W8J1933-MSD1)		Source: 8G06099-01			Prepared: 10/31/18 Analyzed: 12/06/18							
Phenol	25.2	0.58		1.9	mg/kg	48.1	ND	52	31-102	0.7	30	M-02
<i>Surrogate(s)</i>												
2,4,6-Tribromophenol	77.4				mg/kg	96.2		81	32-103			M-02
2,4,6-Tribromophenol	77.4				mg/kg	96.2		81	32-103			M-02
2-Fluorobiphenyl	27.0				mg/kg	48.1		56	36-107			M-02
2-Fluorobiphenyl	27.0				mg/kg	48.1		56	36-107			M-02
2-Fluorophenol	52.0				mg/kg	96.2		54	33-119			M-02
2-Fluorophenol	52.0				mg/kg	96.2		54	33-119			M-02
Nitrobenzene-d5	24.7				mg/kg	48.1		51	36-114			M-02
Nitrobenzene-d5	24.7				mg/kg	48.1		51	36-114			M-02
Phenol-d5	53.9				mg/kg	96.2		56	40-118			M-02
Phenol-d5	53.9				mg/kg	96.2		56	40-118			M-02
Terphenyl-d14	52.3				mg/kg	48.1		109	40-121			M-02
Terphenyl-d14	52.3				mg/kg	48.1		109	40-121			M-02



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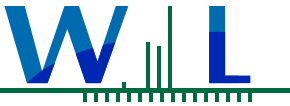
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Quality Control Results

(Continued)

Semivolatiles Organics - Low Level by GC/MS SIM Mode

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8J1934 - EPA 8270C SIM						Initial: 30 g		Final: 1 ml			
Blank (W8J1934-BLK1)						Prepared: 10/31/18 Analyzed: 12/05/18					
1-Methylnaphthalene	ND	1.0		5.0	ug/kg						
2-Methylnaphthalene	ND	1.0		5.0	ug/kg						
Acenaphthene	ND	1.0		5.0	ug/kg						
Acenaphthylene	ND	1.0		5.0	ug/kg						
Anthracene	ND	1.0		5.0	ug/kg						
Benzo (a) anthracene	ND	1.0		5.0	ug/kg						
Benzo (a) pyrene	ND	1.0		5.0	ug/kg						
Benzo (b) fluoranthene	ND	1.0		5.0	ug/kg						
Benzo (g,h,i) perylene	ND	1.0		5.0	ug/kg						
Benzo (k) fluoranthene	ND	1.0		5.0	ug/kg						
Chrysene	ND	1.0		5.0	ug/kg						
Dibenzo (a,h) anthracene	ND	1.0		5.0	ug/kg						
Fluoranthene	ND	1.0		5.0	ug/kg						
Fluorene	ND	1.0		5.0	ug/kg						
Indeno (1,2,3-cd) pyrene	ND	1.0		5.0	ug/kg						
Naphthalene	ND	1.0		5.0	ug/kg						
Phenanthrene	ND	1.0		5.0	ug/kg						
Pyrene	ND	1.0		5.0	ug/kg						
<i>Surrogate(s)</i>											
2-Fluorobiphenyl	110				ug/kg	167		66	0.1-109		
Nitrobenzene-d5	88.5				ug/kg	167		53	0.1-107		
Terphenyl-d14	159				ug/kg	167		95	28-128		
LCS (W8J1934-BS1)						Prepared: 10/31/18 Analyzed: 12/05/18					
Acenaphthene	254	1.0		5.0	ug/kg	333		76	27-103		
Acenaphthylene	259	1.0		5.0	ug/kg	333		78	29-112		
Anthracene	284	1.0		5.0	ug/kg	333		85	31-119		
Benzo (a) anthracene	413	1.0		5.0	ug/kg	333		124	26-132		
Benzo (a) pyrene	500	1.0		5.0	ug/kg	333		150	19-146		Q-08
Benzo (b) fluoranthene	451	1.0		5.0	ug/kg	333		135	40-120		Q-08
Benzo (g,h,i) perylene	436	1.0		5.0	ug/kg	333		131	18-135		
Benzo (k) fluoranthene	442	1.0		5.0	ug/kg	333		133	40-120		Q-08
Chrysene	366	1.0		5.0	ug/kg	333		110	40-120		
Dibenzo (a,h) anthracene	452	1.0		5.0	ug/kg	333		136	20-137		
Fluoranthene	334	1.0		5.0	ug/kg	333		100	33-123		
Fluorene	281	1.0		5.0	ug/kg	333		84	33-106		
Indeno (1,2,3-cd) pyrene	458	1.0		5.0	ug/kg	333		137	16-136		Q-08
Naphthalene	220	1.0		5.0	ug/kg	333		66	22-98		
Phenanthrene	281	1.0		5.0	ug/kg	333		84	32-110		
Pyrene	345	1.0		5.0	ug/kg	333		103	34-122		
<i>Surrogate(s)</i>											
2-Fluorobiphenyl	116				ug/kg	167		70	0.1-109		



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FINAL REPORT

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Project Manager: Robert Hartssock
Work Order(s): 8G13045

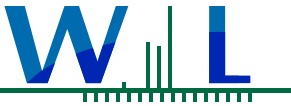
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Quality Control Results

(Continued)

Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8J1934 - EPA 8270C SIM (Continued)					Initial: 30 g			Final: 1 ml				
LCS (W8J1934-BS1)					Prepared: 10/31/18 Analyzed: 12/05/18							
<i>Surrogate(s)</i>												
Nitrobenzene-d5	90.8				ug/kg	167		55	0.1-107			
Terphenyl-d14	180				ug/kg	167		108	28-128			
Matrix Spike (W8J1934-MS1)					Source: 8G06099-01 Prepared: 10/31/18 Analyzed: 12/05/18							
Acenaphthene	15100	58		290	ug/kg	19200	ND	79	5-115		30	M-02
Acenaphthylene	15700	58		290	ug/kg	19200	ND	81	8-111		30	M-02
Anthracene	15800	58		290	ug/kg	19200	ND	82	3-132		30	M-02
Benzo (a) anthracene	21900	58		290	ug/kg	19200	ND	114	14-125		30	M-02
Benzo (a) pyrene	26800	58		290	ug/kg	19200	65.1	139	2-138		30	M-02, Q-08
Benzo (b) fluoranthene	24100	58		290	ug/kg	19200	65.4	125	20-150		30	M-02
Benzo (g,h,i) perylene	24000	58		290	ug/kg	19200	58.1	125	9-129		30	M-02
Benzo (k) fluoranthene	23700	58		290	ug/kg	19200	ND	123	20-150		30	M-02
Chrysene	19700	58		290	ug/kg	19200	ND	102	20-150		30	M-02
Dibenzo (a,h) anthracene	24600	58		290	ug/kg	19200	ND	128	10-144		30	M-02
Fluoranthene	18300	58		290	ug/kg	19200	ND	95	11-127		30	M-02
Fluorene	16600	58		290	ug/kg	19200	ND	86	4-125		30	M-02
Indeno (1,2,3-cd) pyrene	24700	58		290	ug/kg	19200	95.1	128	3-137		30	M-02
Naphthalene	12800	58		290	ug/kg	19200	ND	67	0.1-117		30	M-02
Phenanthrene	15800	58		290	ug/kg	19200	ND	82	10-122		30	M-02
Pyrene	19000	58		290	ug/kg	19200	ND	99	10-128		30	M-02
<i>Surrogate(s)</i>												
2-Fluorobiphenyl	6990				ug/kg	9620		73	0.1-109		30	M-02
Nitrobenzene-d5	5620				ug/kg	9620		58	0.1-107		30	M-02
Terphenyl-d14	10100				ug/kg	9620		105	28-128		30	M-02
Matrix Spike Dup (W8J1934-MSD1)					Source: 8G06099-01 Prepared: 10/31/18 Analyzed: 12/05/18							
Acenaphthene	15300	57		280	ug/kg	18900	ND	81	5-115	1	30	M-02
Acenaphthylene	15600	57		280	ug/kg	18900	ND	83	8-111	0.4	30	M-02
Anthracene	16500	57		280	ug/kg	18900	ND	88	3-132	4	30	M-02
Benzo (a) anthracene	23400	57		280	ug/kg	18900	ND	124	14-125	7	30	M-02
Benzo (a) pyrene	27800	57		280	ug/kg	18900	65.1	147	2-138	4	30	M-02, Q-08
Benzo (b) fluoranthene	25400	57		280	ug/kg	18900	65.4	134	20-150	5	30	M-02
Benzo (g,h,i) perylene	24800	57		280	ug/kg	18900	58.1	131	9-129	3	30	M-02, Q-08
Benzo (k) fluoranthene	24400	57		280	ug/kg	18900	ND	129	20-150	3	30	M-02
Chrysene	20500	57		280	ug/kg	18900	ND	109	20-150	4	30	M-02
Dibenzo (a,h) anthracene	25700	57		280	ug/kg	18900	ND	136	10-144	4	30	M-02
Fluoranthene	19400	57		280	ug/kg	18900	ND	103	11-127	6	30	M-02
Fluorene	16900	57		280	ug/kg	18900	ND	89	4-125	2	30	M-02
Indeno (1,2,3-cd) pyrene	25500	57		280	ug/kg	18900	95.1	135	3-137	3	30	M-02
Naphthalene	12100	57		280	ug/kg	18900	ND	64	0.1-117	6	30	M-02



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FINAL REPORT

Project: McMurtrey, Hartsock & Worth
Project Manager: Robert Hartsock
Work Order(s): 8G13045

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01/23/2019 13:35

Quality Control Results

(Continued)

Semivolatile Organics - Low Level by GC/MS SIM Mode (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8J1934 - EPA 8270C SIM (Continued)				Initial: 0.53 g			Final: 1 ml					
Matrix Spike Dup (W8J1934-MSD1)		Source: 8G06099-01			Prepared: 10/31/18		Analyzed: 12/05/18					
Phenanthrene	16500	57		280	ug/kg	18900	ND	87	10-122	4	30	M-02
Pyrene	20000	57		280	ug/kg	18900	ND	106	10-128	5	30	M-02
<i>Surrogate(s)</i>												
2-Fluorobiphenyl	7130				ug/kg	9430		76	0.1-109			M-02
Nitrobenzene-d5	5400				ug/kg	9430		57	0.1-107			M-02
Terphenyl-d14	10600				ug/kg	9430		112	28-128			M-02



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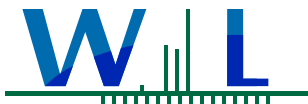
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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8K0412 - EPA 8260B						Initial: 5 g		Final: 5 ml			
Blank (W8K0412-BLK1)						Prepared: 11/07/18 Analyzed: 11/09/18					
1,1,1,2-Tetrachloroethane	ND	0.60		5.0	ug/kg						
1,1,1-Trichloroethane	ND	1.4		5.0	ug/kg						
1,1,2,2-Tetrachloroethane	ND	0.92		5.0	ug/kg						
1,1,2-Trichloroethane	ND	1.4		5.0	ug/kg						
1,1-Dichloroethane	ND	0.86		5.0	ug/kg						
1,1-Dichloroethene	ND	1.0		5.0	ug/kg						
1,1-Dichloropropene	ND	1.9		5.0	ug/kg						
1,2,3-Trichlorobenzene	ND	1.0		5.0	ug/kg						
1,2,3-Trichloropropane	ND	1.1		5.0	ug/kg						
1,2,4-Trichlorobenzene	ND	0.94		5.0	ug/kg						
1,2,4-Trimethylbenzene	ND	0.48		5.0	ug/kg						
1,2-Dibromo-3-chloropropane	ND	1.5		5.0	ug/kg						
1,2-Dibromoethane (EDB)	ND	1.6		5.0	ug/kg						
1,2-Dichloroethane	ND	1.2		5.0	ug/kg						
1,2-Dichloropropane	ND	0.94		5.0	ug/kg						
1,3,5-Trimethylbenzene	ND	0.50		5.0	ug/kg						
1,3-Dichloropropane	ND	0.78		5.0	ug/kg						
2,2-Dichloropropane	ND	0.91		5.0	ug/kg						
2-Butanone	ND	1.5		5.0	ug/kg						
2-Chloroethyl vinyl ether	ND	1.0		5.0	ug/kg						
2-Chlorotoluene	ND	0.73		5.0	ug/kg						
2-Hexanone	ND	1.2		5.0	ug/kg						
4-Chlorotoluene	ND	0.70		5.0	ug/kg						
4-Methyl-2-pentanone	ND	1.4		5.0	ug/kg						
Acetone	ND	2.5		5.0	ug/kg						
Acrolein	ND	1.8		5.0	ug/kg						
Acrylonitrile	ND	1.7		5.0	ug/kg						
Benzene	ND	1.4		5.0	ug/kg						
Bromobenzene	ND	0.79		5.0	ug/kg						
Bromochloromethane	ND	0.49		5.0	ug/kg						
Bromodichloromethane	ND	0.72		5.0	ug/kg						
Bromoform	ND	0.81		5.0	ug/kg						
Bromomethane	ND	1.2		5.0	ug/kg						
Carbon tetrachloride	ND	1.6		5.0	ug/kg						
Chlorobenzene	ND	0.59		5.0	ug/kg						
Chloroethane	ND	1.9		5.0	ug/kg						
Chloroform	ND	0.90		5.0	ug/kg						
Chloromethane	ND	0.56		5.0	ug/kg						
cis-1,2-Dichloroethene	ND	1.0		5.0	ug/kg						
cis-1,3-Dichloropropene	ND	0.84		5.0	ug/kg						



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FINAL REPORT

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8K0412 - EPA 8260B (Continued)					Initial: 5 g			Final: 5 ml				
Blank (W8K0412-BLK1)					Prepared: 11/07/18 Analyzed: 11/09/18							
Dibromochloromethane	ND	1.6		5.0	ug/kg							
Dibromomethane	ND	1.1		5.0	ug/kg							
Dichlorodifluoromethane (Freon 12)	ND	0.82		5.0	ug/kg							
Ethyl acetate	ND	2.9		5.0	ug/kg							
Ethylbenzene	ND	0.36		5.0	ug/kg							
Hexachlorobutadiene	ND	1.1		5.0	ug/kg							
Isopropylbenzene	ND	0.57		5.0	ug/kg							
m,p-Xylene	ND	1.4		5.0	ug/kg							
m-Dichlorobenzene	ND	0.70		5.0	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	1.0		5.0	ug/kg							
Methylene chloride	ND	0.68		5.0	ug/kg							
Naphthalene	ND	1.3		5.0	ug/kg							
n-Butylbenzene	ND	0.64		5.0	ug/kg							
n-Propylbenzene	ND	0.51		5.0	ug/kg							
o-Dichlorobenzene	ND	0.60		5.0	ug/kg							
o-Xylene	ND	0.52		5.0	ug/kg							
p-Dichlorobenzene	ND	0.70		5.0	ug/kg							
p-Isopropyltoluene	ND	0.55		5.0	ug/kg							
sec-Butylbenzene	ND	0.46		5.0	ug/kg							
Styrene	ND	0.78		5.0	ug/kg							
tert-Butylbenzene	ND	0.61		5.0	ug/kg							
Tetrachloroethene	ND	1.5		5.0	ug/kg							
Toluene	ND	1.1		5.0	ug/kg							
trans-1,2-Dichloroethene	ND	1.2		5.0	ug/kg							
trans-1,3-Dichloropropene	ND	1.3		5.0	ug/kg							
Trichloroethene	ND	1.0		5.0	ug/kg							
Trichlorofluoromethane	ND	2.6		5.0	ug/kg							
Vinyl chloride	ND	0.95		5.0	ug/kg							
<i>Surrogate(s)</i>												
1,2-Dichloroethane-d4	50.8				ug/kg	50.0		102	78-140			
4-Bromofluorobenzene	47.8				ug/kg	50.0		96	85-116			
Dibromofluoromethane	51.4				ug/kg	50.0		103	84-120			
Toluene-d8	49.4				ug/kg	50.0		99	82-120			
LCS (W8K0412-BS1)					Prepared: 11/07/18 Analyzed: 11/10/18							
1,1,1,2-Tetrachloroethane	48.7	0.60		5.0	ug/kg	50.0		97	81-120			
1,1,1-Trichloroethane	45.8	1.4		5.0	ug/kg	50.0		92	78-125			
1,1,2,2-Tetrachloroethane	47.7	0.92		5.0	ug/kg	50.0		95	67-115			
1,1,2-Trichloroethane	48.3	1.4		5.0	ug/kg	50.0		97	85-121			
1,1-Dichloroethane	49.6	0.86		5.0	ug/kg	50.0		99	84-118			
1,1-Dichloroethene	46.6	1.0		5.0	ug/kg	50.0		93	80-123			



WECK LABORATORIES, INC.

Law Offices of McMurtrey, Hartsock & Worth
 2001 22nd Street, Suite 100
 Bakersfield, CA 93301

Certificate of Analysis

FINAL REPORT

Project: McMurtrey, Hartsock & Worth
Project Manager: Robert Hartsock
Work Order(s): 8G13045

Reported:
 01/23/2019 13:35

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8K0412 - EPA 8260B (Continued)			Initial: 5 g			Final: 5 ml					
LCS (W8K0412-BS1)			Prepared: 11/07/18			Analyzed: 11/10/18					
1,1-Dichloropropene	45.3	1.9		5.0	ug/kg	50.0		91		79-128	
1,2,3-Trichlorobenzene	47.0	1.0		5.0	ug/kg	50.0		94		36-201	
1,2,3-Trichloropropane	48.7	1.1		5.0	ug/kg	50.0		97		65-115	
1,2,4-Trichlorobenzene	49.4	0.94		5.0	ug/kg	50.0		99		69-143	
1,2,4-Trimethylbenzene	47.0	0.48		5.0	ug/kg	50.0		94		70-119	
1,2-Dibromo-3-chloropropane	45.6	1.5		5.0	ug/kg	50.0		91		62-140	
1,2-Dibromoethane (EDB)	48.2	1.6		5.0	ug/kg	50.0		96		86-125	
1,2-Dichloroethane	48.9	1.2		5.0	ug/kg	50.0		98		74-123	
1,2-Dichloropropene	48.0	0.94		5.0	ug/kg	50.0		96		83-122	
1,3,5-Trimethylbenzene	46.2	0.50		5.0	ug/kg	50.0		92		66-122	
1,3-Dichloropropene	48.9	0.78		5.0	ug/kg	50.0		98		85-122	
2,2-Dichloropropene	56.5	0.91		5.0	ug/kg	50.0		113		78-124	
2-Butanone	47.5	1.5		5.0	ug/kg	50.0		95		65-139	
2-Chloroethyl vinyl ether	103	1.0		5.0	ug/kg	50.0		207		62-134	Q-08
2-Chlorotoluene	46.5	0.73		5.0	ug/kg	50.0		93		65-118	
2-Hexanone	46.5	1.2		5.0	ug/kg	50.0		93		72-138	
4-Chlorotoluene	47.4	0.70		5.0	ug/kg	50.0		95		71-116	
4-Methyl-2-pentanone	46.9	1.4		5.0	ug/kg	50.0		94		70-133	
Acetone	51.0	2.5		5.0	ug/kg	50.0		102		57-138	
Acrolein	50.3	1.8		5.0	ug/kg	50.0		101		57-139	
Acrylonitrile	49.1	1.7		5.0	ug/kg	50.0		98		78-124	
Benzene	47.2	1.4		5.0	ug/kg	50.0		94		83-121	
Bromobenzene	47.7	0.79		5.0	ug/kg	50.0		95		67-115	
Bromochloromethane	48.7	0.49		5.0	ug/kg	50.0		97		82-117	
Bromodichloromethane	47.9	0.72		5.0	ug/kg	50.0		96		78-122	
Bromoform	48.0	0.81		5.0	ug/kg	50.0		96		83-125	
Bromomethane	57.9	1.2		5.0	ug/kg	50.0		116		58-133	
Carbon tetrachloride	44.9	1.6		5.0	ug/kg	50.0		90		79-126	
Chlorobenzene	47.6	0.59		5.0	ug/kg	50.0		95		84-118	
Chloroethane	51.1	1.9		5.0	ug/kg	50.0		102		58-135	
Chloroform	47.1	0.90		5.0	ug/kg	50.0		94		80-123	
Chloromethane	49.0	0.56		5.0	ug/kg	50.0		98		58-128	
cis-1,2-Dichloroethene	50.3	1.0		5.0	ug/kg	50.0		101		83-120	
cis-1,3-Dichloropropene	49.7	0.84		5.0	ug/kg	50.0		99		88-123	
Dibromochloromethane	48.3	1.6		5.0	ug/kg	50.0		97		83-124	
Dibromomethane	50.4	1.1		5.0	ug/kg	50.0		101		84-123	
Dichlorodifluoromethane (Freon 12)	46.1	0.82		5.0	ug/kg	50.0		92		67-126	
Ethylbenzene	46.6	0.36		5.0	ug/kg	50.0		93		80-120	
Hexachlorobutadiene	44.9	1.1		5.0	ug/kg	50.0		90		70-130	
Isopropylbenzene	45.1	0.57		5.0	ug/kg	50.0		90		66-122	



WECK LABORATORIES, INC.

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Certificate of Analysis

FINAL REPORT

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Project Manager: Robert Hartssock
Work Order(s): 8G13045

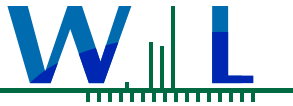
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 01/23/2019 13:35

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8K0412 - EPA 8260B (Continued)						Initial: 5 g	Final: 5 ml				
LCS (W8K0412-BS1)						Prepared: 11/07/18 Analyzed: 11/10/18					
m,p-Xylene	51.1	1.4		5.0	ug/kg	50.0		102	78-120		
m-Dichlorobenzene	48.1	0.70		5.0	ug/kg	50.0		96	75-119		
Methyl tert-butyl ether (MTBE)	51.1	1.0		5.0	ug/kg	50.0		102	83-122		
Methylene chloride	47.8	0.68		5.0	ug/kg	50.0		96	76-118		
Naphthalene	40.9	1.3		5.0	ug/kg	50.0		82	42-190		
n-Butylbenzene	46.9	0.64		5.0	ug/kg	50.0		94	68-119		
n-Propylbenzene	45.4	0.51		5.0	ug/kg	50.0		91	64-120		
o-Dichlorobenzene	48.0	0.60		5.0	ug/kg	50.0		96	77-117		
o-Xylene	47.6	0.52		5.0	ug/kg	50.0		95	77-126		
p-Dichlorobenzene	48.5	0.70		5.0	ug/kg	50.0		97	76-119		
p-Isopropyltoluene	45.8	0.55		5.0	ug/kg	50.0		92	70-123		
sec-Butylbenzene	44.6	0.46		5.0	ug/kg	50.0		89	67-120		
Styrene	48.4	0.78		5.0	ug/kg	50.0		97	84-125		
tert-Butylbenzene	44.6	0.61		5.0	ug/kg	50.0		89	70-119		
Tetrachloroethene	45.8	1.5		5.0	ug/kg	50.0		92	80-129		
Toluene	46.6	1.1		5.0	ug/kg	50.0		93	81-126		
trans-1,2-Dichloroethene	46.9	1.2		5.0	ug/kg	50.0		94	82-123		
trans-1,3-Dichloropropene	53.9	1.3		5.0	ug/kg	50.0		108	81-131		
Trichloroethene	47.8	1.0		5.0	ug/kg	50.0		96	82-118		
Trichlorofluoromethane	46.9	2.6		5.0	ug/kg	50.0		94	72-129		
Vinyl chloride	49.0	0.95		5.0	ug/kg	50.0		98	63-130		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	49.6				ug/kg	50.0		99	78-140		
4-Bromofluorobenzene	51.3				ug/kg	50.0		103	85-116		
Dibromofluoromethane	49.4				ug/kg	50.0		99	84-120		
Toluene-d8	50.0				ug/kg	50.0		100	82-120		
LCS (W8K0412-BS2)						Prepared: 11/07/18 Analyzed: 11/09/18					
Ethyl acetate	60.9	2.9		5.0	ug/kg	50.0		122	57-160		30
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	50.7				ug/kg	50.0		101	78-140		
4-Bromofluorobenzene	50.3				ug/kg	50.0		101	85-116		
Dibromofluoromethane	50.3				ug/kg	50.0		101	84-120		
Toluene-d8	50.7				ug/kg	50.0		101	82-120		
LCS Dup (W8K0412-BSD1)						Prepared: 11/07/18 Analyzed: 11/10/18					
1,1,1,2-Tetrachloroethane	47.4	0.60		5.0	ug/kg	50.0		95	81-120	3	25
1,1,1-Trichloroethane	43.5	1.4		5.0	ug/kg	50.0		87	78-125	5	25
1,1,2,2-Tetrachloroethane	49.6	0.92		5.0	ug/kg	50.0		99	67-115	4	25
1,1,2-Trichloroethane	49.9	1.4		5.0	ug/kg	50.0		100	85-121	3	25
1,1-Dichloroethane	47.7	0.86		5.0	ug/kg	50.0		95	84-118	4	25
1,1-Dichloroethene	44.8	1.0		5.0	ug/kg	50.0		90	80-123	4	25
1,1-Dichloropropene	43.4	1.9		5.0	ug/kg	50.0		87	79-128	4	25



WECK LABORATORIES, INC.

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Work Order(s): 8G13045

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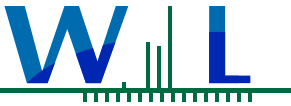
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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8K0412 - EPA 8260B (Continued)				Initial: 5 g			Final: 5 ml					
LCS Dup (W8K0412-BSD1)				Prepared: 11/07/18			Analyzed: 11/10/18					
1,2,3-Trichlorobenzene	47.3	1.0		5.0	ug/kg	50.0		95	36-201	0.5	25	
1,2,3-Trichloropropane	50.3	1.1		5.0	ug/kg	50.0		101	65-115	3	25	
1,2,4-Trichlorobenzene	48.5	0.94		5.0	ug/kg	50.0		97	69-143	2	25	
1,2,4-Trimethylbenzene	45.1	0.48		5.0	ug/kg	50.0		90	70-119	4	25	
1,2-Dibromo-3-chloropropane	49.3	1.5		5.0	ug/kg	50.0		99	62-140	8	25	
1,2-Dibromoethane (EDB)	50.1	1.6		5.0	ug/kg	50.0		100	86-125	4	25	
1,2-Dichloroethane	49.1	1.2		5.0	ug/kg	50.0		98	74-123	0.3	25	
1,2-Dichloropropane	47.4	0.94		5.0	ug/kg	50.0		95	83-122	1	25	
1,3,5-Trimethylbenzene	44.3	0.50		5.0	ug/kg	50.0		89	66-122	4	25	
1,3-Dichloropropane	49.9	0.78		5.0	ug/kg	50.0		100	85-122	2	25	
2,2-Dichloropropane	53.2	0.91		5.0	ug/kg	50.0		106	78-124	6	25	
2-Butanone	49.0	1.5		5.0	ug/kg	50.0		98	65-139	3	25	
2-Chloroethyl vinyl ether	110	1.0		5.0	ug/kg	50.0		220	62-134	6	25	Q-08
2-Chlorotoluene	44.5	0.73		5.0	ug/kg	50.0		89	65-118	4	25	
2-Hexanone	50.8	1.2		5.0	ug/kg	50.0		102	72-138	9	25	
4-Chlorotoluene	45.6	0.70		5.0	ug/kg	50.0		91	71-116	4	25	
4-Methyl-2-pentanone	51.0	1.4		5.0	ug/kg	50.0		102	70-133	8	25	
Acetone	49.7	2.5		5.0	ug/kg	50.0		99	57-138	3	25	
Acrolein	55.5	1.8		5.0	ug/kg	50.0		111	57-139	10	25	
Acrylonitrile	53.4	1.7		5.0	ug/kg	50.0		107	78-124	8	25	
Benzene	45.2	1.4		5.0	ug/kg	50.0		90	83-121	4	25	
Bromobenzene	46.5	0.79		5.0	ug/kg	50.0		93	67-115	2	25	
Bromochloromethane	48.9	0.49		5.0	ug/kg	50.0		98	82-117	0.4	25	
Bromodichloromethane	47.9	0.72		5.0	ug/kg	50.0		96	78-122	0.006	25	
Bromoform	49.9	0.81		5.0	ug/kg	50.0		100	83-125	4	25	
Bromomethane	54.6	1.2		5.0	ug/kg	50.0		109	58-133	6	25	
Carbon tetrachloride	42.7	1.6		5.0	ug/kg	50.0		85	79-126	5	25	
Chlorobenzene	45.7	0.59		5.0	ug/kg	50.0		91	84-118	4	25	
Chloroethane	48.8	1.9		5.0	ug/kg	50.0		98	58-135	5	25	
Chloroform	45.9	0.90		5.0	ug/kg	50.0		92	80-123	2	25	
Chloromethane	47.5	0.56		5.0	ug/kg	50.0		95	58-128	3	25	
cis-1,2-Dichloroethene	48.5	1.0		5.0	ug/kg	50.0		97	83-120	4	25	
cis-1,3-Dichloropropene	50.1	0.84		5.0	ug/kg	50.0		100	88-123	0.8	25	
Dibromochloromethane	49.1	1.6		5.0	ug/kg	50.0		98	83-124	2	25	
Dibromomethane	51.8	1.1		5.0	ug/kg	50.0		104	84-123	3	25	
Dichlorodifluoromethane (Freon 12)	43.3	0.82		5.0	ug/kg	50.0		87	67-126	6	25	
Ethylbenzene	44.1	0.36		5.0	ug/kg	50.0		88	80-120	6	25	
Hexachlorobutadiene	43.2	1.1		5.0	ug/kg	50.0		86	70-130	4	25	
Isopropylbenzene	42.5	0.57		5.0	ug/kg	50.0		85	66-122	6	25	
m,p-Xylene	48.4	1.4		5.0	ug/kg	50.0		97	78-120	5	25	



WECK LABORATORIES, INC.

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FINAL REPORT

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W8K0412 - EPA 8260B (Continued)						Initial: 5 g		Final: 5 ml			
LCS Dup (W8K0412-BSD1)						Prepared: 11/07/18	Analyzed: 11/10/18				
m-Dichlorobenzene	46.9	0.70		5.0	ug/kg	50.0	94	75-119	2	25	
Methyl tert-butyl ether (MTBE)	53.0	1.0		5.0	ug/kg	50.0	106	83-122	4	25	
Methylene chloride	46.8	0.68		5.0	ug/kg	50.0	94	76-118	2	25	
Naphthalene	43.5	1.3		5.0	ug/kg	50.0	87	42-190	6	25	
n-Butylbenzene	44.2	0.64		5.0	ug/kg	50.0	88	68-119	6	25	
n-Propylbenzene	42.8	0.51		5.0	ug/kg	50.0	86	64-120	6	25	
o-Dichlorobenzene	47.1	0.60		5.0	ug/kg	50.0	94	77-117	2	25	
o-Xylene	45.4	0.52		5.0	ug/kg	50.0	91	77-126	5	25	
p-Dichlorobenzene	47.3	0.70		5.0	ug/kg	50.0	95	76-119	3	25	
p-Isopropyltoluene	43.8	0.55		5.0	ug/kg	50.0	88	70-123	4	25	
sec-Butylbenzene	42.4	0.46		5.0	ug/kg	50.0	85	67-120	5	25	
Styrene	46.7	0.78		5.0	ug/kg	50.0	93	84-125	4	25	
tert-Butylbenzene	42.7	0.61		5.0	ug/kg	50.0	85	70-119	4	25	
Tetrachloroethene	43.7	1.5		5.0	ug/kg	50.0	87	80-129	5	25	
Toluene	44.7	1.1		5.0	ug/kg	50.0	89	81-126	4	25	
trans-1,2-Dichloroethene	44.6	1.2		5.0	ug/kg	50.0	89	82-123	5	25	
trans-1,3-Dichloropropene	54.8	1.3		5.0	ug/kg	50.0	110	81-131	2	25	
Trichloroethene	45.9	1.0		5.0	ug/kg	50.0	92	82-118	4	25	
Trichlorofluoromethane	44.6	2.6		5.0	ug/kg	50.0	89	72-129	5	25	
Vinyl chloride	46.7	0.95		5.0	ug/kg	50.0	93	63-130	5	25	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	50.0				ug/kg	50.0	100	78-140			
4-Bromofluorobenzene	51.2				ug/kg	50.0	102	85-116			
Dibromofluoromethane	50.2				ug/kg	50.0	100	84-120			
Toluene-d8	50.4				ug/kg	50.0	101	82-120			
LCS Dup (W8K0412-BSD2)						Prepared: 11/07/18	Analyzed: 11/09/18				
Ethyl acetate	58.7	2.9		5.0	ug/kg	50.0	117	57-160	4	30	
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	50.1				ug/kg	50.0	100	78-140			
4-Bromofluorobenzene	50.4				ug/kg	50.0	101	85-116			
Dibromofluoromethane	50.0				ug/kg	50.0	100	84-120			
Toluene-d8	50.1				ug/kg	50.0	100	82-120			



WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

Analyte	CAS Number	TIC	Surrogate
1,1,1,2-Tetrachloroethane	630-20-6		
1,1,1,2-Tetrachloroethane	630-20-6		
1,1,1-Trichloroethane	71-55-6		
1,1,1-Trichloroethane	71-55-6		
1,1,2,2-Tetrachloroethane	79-34-5		
1,1,2,2-Tetrachloroethane	79-34-5		
1,1,2-Trichloroethane	79-00-5		
1,1,2-Trichloroethane	79-00-5		
1,1-Dichloroethane	75-34-3		
1,1-Dichloroethane	75-34-3		
1,1-Dichloroethane	75-35-4		
1,1-Dichloroethane	75-35-4		
1,1-Dichloropropene	563-58-6		
1,1-Dichloropropene	563-58-6		
1,2,3-Trichlorobenzene	87-61-6		
1,2,3-Trichlorobenzene	87-61-6		
1,2,3-Trichloropropane	96-18-4		
1,2,3-Trichloropropane	96-18-4		
1,2,4,5-Tetrachlorobenzene	95-94-3		
1,2,4,5-Tetrachlorobenzene	95-94-3		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trichlorobenzene	120-82-1		
1,2,4-Trimethylbenzene	95-63-6		
1,2,4-Trimethylbenzene	95-63-6		
1,2-Dibromo-3-chloropropane	96-12-8		
1,2-Dibromo-3-chloropropane	96-12-8		
1,2-Dibromoethane (EDB)	106-93-4		
1,2-Dibromoethane (EDB)	106-93-4		
1,2-Dichlorobenzene	95-50-1		
1,2-Dichlorobenzene	95-50-1		
1,2-Dichlorobenzene	95-50-1		
1,2-Dichlorobenzene	95-50-1		
1,2-Dichloroethane	107-06-2		
1,2-Dichloroethane	107-06-2		
1,2-Dichloroethane-d4	17060-07-0		
1,2-Dichloroethane-d4	17060-07-0		
1,2-Dichloropropane	78-87-5		
1,2-Dichloropropane	78-87-5		
1,2-Diphenylhydrazine/Azobenzene	122-66-7		
1,2-Diphenylhydrazine/Azobenzene	122-66-7		
1,3,5-Trimethylbenzene	108-67-8		
1,3,5-Trimethylbenzene	108-67-8		
1,3,5-Trinitrobenzene	99-35-4		





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Law Offices of McMurtrey, Hartssock & Worth
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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
1,3,5-Trinitrobenzene	99-35-4		
1,3-Dichlorobenzene	541-73-1		
1,3-Dichlorobenzene	541-73-1		
1,3-Dichlorobenzene	541-73-1		
1,3-Dichlorobenzene	541-73-1		
1,3-Dichloropropane	142-28-9		
1,3-Dichloropropane	142-28-9		
1,3-Dichloropropene, Total	542-75-6		
1,3-Dichloropropene, Total	542-75-6		
1,3-Dinitrobenzene	99-65-0		
1,3-Dinitrobenzene	99-65-0		
1,4-Dichlorobenzene	106-46-7		
1,4-Dichlorobenzene	106-46-7		
1,4-Dichlorobenzene	106-46-7		
1,4-Dichlorobenzene	106-46-7		
1,4-Dioxane	123-91-1		
1,4-Dioxane	123-91-1		
1,4-Naphthoquinone	130-15-4		
1,4-Naphthoquinone	130-15-4		
1,4-Phenylenediamine	106-50-3		
1,4-Phenylenediamine	106-50-3		
1-Methylnaphthalene	90-12-0		
1-Methylnaphthalene	90-12-0		
1-Methylnaphthalene	90-12-0		
1-Methylnaphthalene	90-12-0		
1-Methylphenanthrene	832-69-9		
1-Methylphenanthrene	832-69-9		
1-Naphthylamine	134-32-7		
1-Naphthylamine	134-32-7		
2,2-Dichloropropane	594-20-7		
2,2-Dichloropropane	594-20-7		
2,3,4,6-Tetrachlorophenol	58-90-2		
2,3,4,6-Tetrachlorophenol	58-90-2		
2,4,5-Trichlorophenol	95-95-4		
2,4,5-Trichlorophenol	95-95-4		
2,4,5-Trichlorophenol	95-95-4		
2,4,5-Trichlorophenol	95-95-4		
2,4,6-Tribromophenol	118-79-6		
2,4,6-Tribromophenol	118-79-6		
2,4,6-Tribromophenol	118-79-6		
2,4,6-Tribromophenol	118-79-6		
2,4,6-Trichlorophenol	88-06-2		
2,4,6-Trichlorophenol	88-06-2		
2,4,6-Trichlorophenol	88-06-2		
2,4,6-Trichlorophenol	88-06-2		
2,4-Dichlorophenol	120-83-2		
2,4-Dichlorophenol	120-83-2		





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Certificate of Analysis

FINAL REPORT

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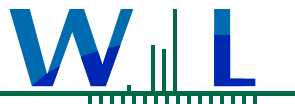
Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
2,4-Dichlorophenol	120-83-2		
2,4-Dichlorophenol	120-83-2		
2,4-Dimethylphenol	105-67-9		
2,4-Dimethylphenol	105-67-9		
2,4-Dimethylphenol	105-67-9		
2,4-Dimethylphenol	105-67-9		
2,4-Dinitrophenol	51-28-5		
2,4-Dinitrophenol	51-28-5		
2,4-Dinitrophenol	51-28-5		
2,4-Dinitrophenol	51-28-5		
2,4-Dinitrotoluene	121-14-2		
2,4-Dinitrotoluene	121-14-2		
2,4-Dinitrotoluene	121-14-2		
2,4-Dinitrotoluene	121-14-2		
2,4-Dinitrotoluene	121-14-2		
2,6-Dichlorophenol	87-65-0		
2,6-Dichlorophenol	87-65-0		
2,6-Dimethylnaphthalene	581-42-0		
2,6-Dimethylnaphthalene	581-42-0		
2,6-Dinitrotoluene	606-20-2		
2,6-Dinitrotoluene	606-20-2		
2,6-Dinitrotoluene	606-20-2		
2,6-Dinitrotoluene	606-20-2		
2,6-Dinitrotoluene	606-20-2		
2-Acetylaminofluorene	53-96-3		
2-Acetylaminofluorene	53-96-3		
2-Butanone	78-93-3		
2-Butanone	78-93-3		
2-Chloroethyl vinyl ether	110-75-8		
2-Chloroethyl vinyl ether	110-75-8		
2-Chloronaphthalene	91-58-7		
2-Chloronaphthalene	91-58-7		
2-Chloronaphthalene	91-58-7		
2-Chloronaphthalene	91-58-7		
2-Chlorophenol	95-57-8		
2-Chlorophenol	95-57-8		
2-Chlorophenol	95-57-8		
2-Chlorophenol	95-57-8		
2-Chlorotoluene	95-49-8		
2-Chlorotoluene	95-49-8		
2-Fluorobiphenyl	321-60-8		✓
2-Fluorobiphenyl	321-60-8		✓
2-Fluorobiphenyl	321-60-8		✓
2-Fluorobiphenyl	321-60-8		✓
2-Fluorobiphenyl	321-60-8		✓
2-Fluorobiphenyl	321-60-8		✓
2-Fluorobiphenyl	321-60-8		✓
2-Fluorophenol	367-12-4		✓
2-Fluorophenol	367-12-4		✓
2-Fluorophenol	367-12-4		✓



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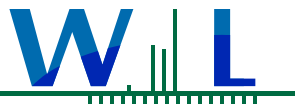
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Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
2-Fluorophenol	367-12-4		✓
2-Hexanone	591-78-6		
2-Hexanone	591-78-6		
2-Methylnaphthalene	91-57-6		
2-Methylnaphthalene	91-57-6		
2-Methylnaphthalene	91-57-6		
2-Methylnaphthalene	91-57-6		
2-Methylnaphthalene	91-57-6		
2-Methylnaphthalene	91-57-6		
2-Methylphenol	95-48-7		
2-Methylphenol	95-48-7		
2-Methylphenol	95-48-7		
2-Methylphenol	95-48-7		
2-Methylphenol	95-48-7		
2-Naphthylamine	91-59-8		
2-Naphthylamine	91-59-8		
2-Nitroaniline	88-74-4		
2-Nitroaniline	88-74-4		
2-Nitroaniline	88-74-4		
2-Nitroaniline	88-74-4		
2-Nitrophenol	88-75-5		
2-Nitrophenol	88-75-5		
2-Nitrophenol	88-75-5		
2-Nitrophenol	88-75-5		
2-Picoline	109-06-8		
2-Picoline	109-06-8		
3 & 4-Methylphenol	NA		
3 & 4-Methylphenol	NA		
3 & 4-Methylphenol	NA		
3 & 4-Methylphenol	NA		
3,3'- Dimethylbenzidine	119-93-7		
3,3'- Dimethylbenzidine	119-93-7		
3,3'-Dichlorobenzidine	91-94-1		
3,3'-Dichlorobenzidine	91-94-1		
3,3'-Dichlorobenzidine	91-94-1		
3,3'-Dichlorobenzidine	91-94-1		
3-Methylcholanthrene	56-49-5		
3-Methylcholanthrene	56-49-5		
3-Nitroaniline	99-09-2		
3-Nitroaniline	99-09-2		
3-Nitroaniline	99-09-2		
3-Nitroaniline	99-09-2		
4,4'-DDD	72-54-8		
4,4'-DDD	72-54-8		
4,4'-DDE	72-55-9		
4,4'-DDE	72-55-9		
4,4'-DDT	50-29-3		
4,4'-DDT	50-29-3		



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2001 22nd Street, Suite 100
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FINAL REPORT

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
4,6-Dinitro-2-methylphenol	534-52-1		
4,6-Dinitro-2-methylphenol	534-52-1		
4,6-Dinitro-2-methylphenol	534-52-1		
4,6-Dinitro-2-methylphenol	534-52-1		
4-Aminobiphenyl	92-67-1		
4-Aminobiphenyl	92-67-1		
4-Bromofluorobenzene	460-00-4		✓
4-Bromofluorobenzene	460-00-4		✓
4-Bromophenyl phenyl ether	101-55-3		
4-Bromophenyl phenyl ether	101-55-3		
4-Bromophenyl phenyl ether	101-55-3		
4-Bromophenyl phenyl ether	101-55-3		
4-Chloro-3-methylphenol	59-50-7		
4-Chloro-3-methylphenol	59-50-7		
4-Chloro-3-methylphenol	59-50-7		
4-Chloro-3-methylphenol	59-50-7		
4-Chloroaniline	106-47-8		
4-Chloroaniline	106-47-8		
4-Chloroaniline	106-47-8		
4-Chloroaniline	106-47-8		
4-Chlorophenyl phenyl ether	7005-72-3		
4-Chlorophenyl phenyl ether	7005-72-3		
4-Chlorophenyl phenyl ether	7005-72-3		
4-Chlorophenyl phenyl ether	7005-72-3		
4-Chlorotoluene	106-43-4		
4-Chlorotoluene	106-43-4		
4-Methyl-2-pentanone	108-10-1		
4-Methyl-2-pentanone	108-10-1		
4-Nitroaniline	100-01-6		
4-Nitroaniline	100-01-6		
4-Nitroaniline	100-01-6		
4-Nitroaniline	100-01-6		
4-Nitrophenol	100-02-7		
4-Nitrophenol	100-02-7		
4-Nitrophenol	100-02-7		
4-Nitrophenol	100-02-7		
4-Nitroquinoline-n-oxide	56-57-5		
4-Nitroquinoline-n-oxide	56-57-5		
5-Nitro-o-toluidine	99-55-8		
5-Nitro-o-toluidine	99-55-8		
7,12-Dimethylbenz (a) anthracene	57-97-6		
7,12-Dimethylbenz (a) anthracene	57-97-6		
a,a-Dimethylphenethylamine	122-09-8		
a,a-Dimethylphenethylamine	122-09-8		
Acenaphthene	83-32-9		
Acenaphthene	83-32-9		
Acenaphthene	83-32-9		



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Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Acenaphthene	83-32-9		
Acenaphthene	83-32-9		
Acenaphthene	83-32-9		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acetone	67-64-1		
Acetone	67-64-1		
Acetophenone	98-86-2		
Acetophenone	98-86-2		
Acrolein	107-02-8		
Acrolein	107-02-8		
Acrylamide	79-06-1		
Acrylonitrile	107-13-1		
Acrylonitrile	107-13-1		
Aldrin	309-00-2		
Aldrin	309-00-2		
alpha-BHC	319-84-6		
alpha-BHC	319-84-6		
Aniline	62-53-3		
Aniline	62-53-3		
Aniline	62-53-3		
Aniline	62-53-3		
Anthracene	120-12-7		
Anthracene	120-12-7		
Anthracene	120-12-7		
Anthracene	120-12-7		
Anthracene	120-12-7		
Antimony, Total	7440-36-0		
Aramite	140-57-8		
Aramite	140-57-8		
Arsenic, Total	7440-38-2		
Azobenzene/1,2-Diphenylhydrazine	103-33-3		
Azobenzene/1,2-Diphenylhydrazine	103-33-3		
Azobenzene/1,2-Diphenylhydrazine	103-33-3		
Azobenzene/1,2-Diphenylhydrazine	103-33-3		
Barium, Total	7440-39-3		
Benzene	71-43-2		
Benzene	71-43-2		
Benzidine	92-87-5		
Benzidine	92-87-5		
Benzidine	92-87-5		
Benzidine	92-87-5		



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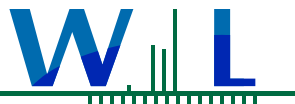
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Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Benzo (a) anthracene	56-55-3		
Benzo (a) anthracene	56-55-3		
Benzo (a) anthracene	56-55-3		
Benzo (a) anthracene	56-55-3		
Benzo (a) anthracene	56-55-3		
Benzo (a) anthracene	56-55-3		
Benzo (a) pyrene	50-32-8		
Benzo (a) pyrene	50-32-8		
Benzo (a) pyrene	50-32-8		
Benzo (a) pyrene	50-32-8		
Benzo (a) pyrene	50-32-8		
Benzo (a) pyrene	50-32-8		
Benzo (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
Benzo (e) pyrene	192-97-2		
Benzo (e) pyrene	192-97-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (g,h,i) perylene	191-24-2		
Benzo (k) fluoranthene	207-08-9		
Benzo (k) fluoranthene	207-08-9		
Benzo (k) fluoranthene	207-08-9		
Benzo (k) fluoranthene	207-08-9		
Benzo (k) fluoranthene	207-08-9		
Benzoic acid	65-85-0		
Benzoic acid	65-85-0		
Benzoic acid	65-85-0		
Benzoic acid	65-85-0		
Benzyl alcohol	100-51-6		
Benzyl alcohol	100-51-6		
Benzyl alcohol	100-51-6		
Benzyl alcohol	100-51-6		
Beryllium, Total	7440-41-7		
beta-BHC	319-85-7		
beta-BHC	319-85-7		
Biphenyl	92-52-4		
Biphenyl	92-52-4		
Bis(2-chloroethoxy)methane	111-91-1		
Bis(2-chloroethoxy)methane	111-91-1		



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FINAL REPORT

Law Offices of McMurtrey, Hartssock & Worth
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Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Bis(2-chloroethoxy)methane	111-91-1		
Bis(2-chloroethoxy)methane	111-91-1		
Bis(2-chloroethyl)ether	111-44-4		
Bis(2-chloroethyl)ether	111-44-4		
Bis(2-chloroethyl)ether	111-44-4		
Bis(2-chloroethyl)ether	111-44-4		
Bis(2-chloroisopropyl)ether	108-60-1		
Bis(2-chloroisopropyl)ether	108-60-1		
Bis(2-chloroisopropyl)ether	108-60-1		
Bis(2-chloroisopropyl)ether	108-60-1		
Bis(2-ethylhexyl)phthalate	117-81-7		
Bis(2-ethylhexyl)phthalate	117-81-7		
Bis(2-ethylhexyl)phthalate	117-81-7		
Bis(2-ethylhexyl)phthalate	117-81-7		
Bromobenzene	108-86-1		
Bromobenzene	108-86-1		
Bromochloromethane	74-97-5		
Bromochloromethane	74-97-5		
Bromodichloromethane	75-27-4		
Bromodichloromethane	75-27-4		
Bromoform	75-25-2		
Bromoform	75-25-2		
Bromomethane	74-83-9		
Bromomethane	74-83-9		
Butyl benzyl phthalate	85-68-7		
Butyl benzyl phthalate	85-68-7		
Butyl benzyl phthalate	85-68-7		
Butyl benzyl phthalate	85-68-7		
Cadmium, Total	7440-43-9		
Carbazole	86-74-8		
Carbazole	86-74-8		
Carbon tetrachloride	56-23-5		
Carbon tetrachloride	56-23-5		
Chlorobenzene	108-90-7		
Chlorobenzene	108-90-7		
Chlorobenzilate	510-15-6		
Chlorobenzilate	510-15-6		
Chloroethane	75-00-3		
Chloroethane	75-00-3		
Chloroform	67-66-3		
Chloroform	67-66-3		
Chloromethane	74-87-3		
Chloromethane	74-87-3		
Chromium, Total	7440-47-3		
Chrysene	218-01-9		
Chrysene	218-01-9		
Chrysene	218-01-9		



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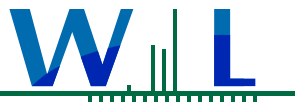
Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Chrysene	218-01-9		
Chrysene	218-01-9		
Chrysene	218-01-9		
cis-1,2-Dichloroethene	156-59-2		
cis-1,2-Dichloroethene	156-59-2		
cis-1,3-Dichloropropene	10061-01-5		
cis-1,3-Dichloropropene	10061-01-5		
Cobalt, Total	7440-48-4		
Copper, Total	7440-50-8		
delta-BHC	319-86-8		
delta-BHC	319-86-8		
Diallate (cis or trans)	2303-16-4		
Diallate (cis or trans)	2303-16-4		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzo (a,h) anthracene	53-70-3		
Dibenzofuran	132-64-9		
Dibenzofuran	132-64-9		
Dibenzofuran	132-64-9		
Dibenzofuran	132-64-9		
Dibromochloromethane	124-48-1		
Dibromochloromethane	124-48-1		
Dibromofluoromethane	1868-53-7		✓
Dibromofluoromethane	1868-53-7		✓
Dibromomethane	74-95-3		
Dibromomethane	74-95-3		
Dichlorodifluoromethane (Freon 12)	75-71-8		
Dichlorodifluoromethane (Freon 12)	75-71-8		
Dieldrin	60-57-1		
Dieldrin	60-57-1		
Diethyl phthalate	84-66-2		
Diethyl phthalate	84-66-2		
Diethyl phthalate	84-66-2		
Diethyl phthalate	84-66-2		
Dimethoate	60-51-5		
Dimethoate	60-51-5		
Dimethyl phthalate	131-11-3		
Dimethyl phthalate	131-11-3		
Dimethyl phthalate	131-11-3		
Dimethyl phthalate	131-11-3		
Dimethylaminoazobenzene	60-11-7		
Dimethylaminoazobenzene	60-11-7		
Di-n-butyl phthalate	84-74-2		
Di-n-butyl phthalate	84-74-2		



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Certificate of Analysis

FINAL REPORT

Law Offices of McMurtrey, Hartssock & Worth
2001 22nd Street, Suite 100
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Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Di-n-butyl phthalate	84-74-2		
Di-n-butyl phthalate	84-74-2		
Di-n-octyl phthalate	117-84-0		
Di-n-octyl phthalate	117-84-0		
Di-n-octyl phthalate	117-84-0		
Di-n-octyl phthalate	117-84-0		
Diphenylamine	122-39-4		
Diphenylamine	122-39-4		
Diphenylamine/N-Nitrosodiphenylamine	122-39-4		
Diphenylamine/N-Nitrosodiphenylamine	122-39-4		
Disulfoton	298-04-4		
Disulfoton	298-04-4		
Endosulfan I	959-98-8		
Endosulfan I	959-98-8		
Endosulfan II	33213-65-9		
Endosulfan II	33213-65-9		
Endosulfan sulfate	1031-07-8		
Endosulfan sulfate	1031-07-8		
Endrin	72-20-8		
Endrin	72-20-8		
Endrin aldehyde	7421-93-4		
Endrin aldehyde	7421-93-4		
Ethanol	64-17-5		
Ethanol	64-17-5		
Ethyl acetate	141-78-6		
Ethyl methanesulfonate	62-50-0		
Ethyl methanesulfonate	62-50-0		
Ethylbenzene	100-41-4		
Ethylbenzene	100-41-4		
Famphur	52-85-7		
Famphur	52-85-7		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		
Fluorene	86-73-7		
Fluorene	86-73-7		
Fluorene	86-73-7		
Fluorene	86-73-7		
Fluorene	86-73-7		
Fluorene	86-73-7		
Fluorene	86-73-7		
Fluorene	86-73-7		
gamma-BHC (Lindane)	58-89-9		
gamma-BHC (Lindane)	58-89-9		
Heptachlor	76-44-8		
Heptachlor	76-44-8		



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Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Heptachlor epoxide	1024-57-3		
Heptachlor epoxide	1024-57-3		
Hexachlorobenzene	118-74-1		
Hexachlorobenzene	118-74-1		
Hexachlorobenzene	118-74-1		
Hexachlorobenzene	118-74-1		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorocyclopentadiene	77-47-4		
Hexachlorocyclopentadiene	77-47-4		
Hexachlorocyclopentadiene	77-47-4		
Hexachlorocyclopentadiene	77-47-4		
Hexachloroethane	67-72-1		
Hexachloroethane	67-72-1		
Hexachloroethane	67-72-1		
Hexachloroethane	67-72-1		
Hexachlorophene	70-30-4		
Hexachlorophene	70-30-4		
Hexachloropropene	1888-71-7		
Hexachloropropene	1888-71-7		
Indeno (1,2,3-cd) pyrene	193-39-5		
Indeno (1,2,3-cd) pyrene	193-39-5		
Indeno (1,2,3-cd) pyrene	193-39-5		
Indeno (1,2,3-cd) pyrene	193-39-5		
Indeno (1,2,3-cd) pyrene	193-39-5		
Indeno (1,2,3-cd) pyrene	193-39-5		
Isodrin	465-73-6		
Isodrin	465-73-6		
Isophorone	78-59-1		
Isophorone	78-59-1		
Isophorone	78-59-1		
Isophorone	78-59-1		
Isopropyl alcohol	67-63-0		
Isopropyl alcohol	67-63-0		
Isopropylbenzene	98-82-8		
Isopropylbenzene	98-82-8		
Isosafrole	120-58-1		
Isosafrole	120-58-1		
Kepone	143-50-0		
Kepone	143-50-0		
Lead, Total	7439-92-1		
Lithium, Total	7439-93-2		
m,p-Xylene	179601-23-1		



Certificate of Analysis

FINAL REPORT

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Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
m,p-Xylene	179601-23-1		
m-Dichlorobenzene	541-73-1		
m-Dichlorobenzene	541-73-1		
Methanol	67-56-1		
Methanol	67-56-1		
Methapyrilene	91-80-5		
Methapyrilene	91-80-5		
Methoxychlor	72-43-5		
Methoxychlor	72-43-5		
Methyl methanesulfonate	66-27-3		
Methyl methanesulfonate	66-27-3		
Methyl parathion	298-00-0		
Methyl parathion	298-00-0		
Methyl tert-butyl ether (MTBE)	1634-04-4		
Methyl tert-butyl ether (MTBE)	1634-04-4		
Methylene chloride	75-09-2		
Methylene chloride	75-09-2		
Molybdenum, Total	7439-98-7		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
Naphthalene	91-20-3		
n-Butylbenzene	104-51-8		
n-Butylbenzene	104-51-8		
Nickel, Total	7440-02-0		
Nitrobenzene	98-95-3		
Nitrobenzene	98-95-3		
Nitrobenzene	98-95-3		
Nitrobenzene	98-95-3		
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
N-Nitrosodiethylamine	55-18-5		
N-Nitrosodiethylamine	55-18-5		
N-Nitrosodimethylamine	62-75-9		
N-Nitrosodimethylamine	62-75-9		
N-Nitrosodimethylamine	62-75-9		
N-Nitrosodimethylamine	62-75-9		
N-Nitrosodi-n-butylamine	924-16-3		
N-Nitrosodi-n-butylamine	924-16-3		





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Certificate of Analysis

FINAL REPORT

Project: McMurtrey, Hartssock & Worth
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Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
N-Nitrosodi-n-propylamine	621-64-7		
N-Nitrosodi-n-propylamine	621-64-7		
N-Nitrosodi-n-propylamine	621-64-7		
N-Nitrosodi-n-propylamine	621-64-7		
N-Nitrosodiphenylamine	86-30-6		
N-Nitrosodiphenylamine	86-30-6		
N-Nitrosomethylethylamine	10595-95-6		
N-Nitrosomethylethylamine	10595-95-6		
N-Nitrosomorpholine	59-89-2		
N-Nitrosomorpholine	59-89-2		
N-Nitrosopiperidine	100-75-4		
N-Nitrosopiperidine	100-75-4		
N-Nitrosopyrrolidine	930-55-2		
N-Nitrosopyrrolidine	930-55-2		
n-Propylbenzene	103-65-1		
n-Propylbenzene	103-65-1		
o,o,o-Triethyl phosphorothioate	126-68-1		
o,o,o-Triethyl phosphorothioate	126-68-1		
o,o-Diethyl o-2-pyrazinylphosphorothioate	297-97-2		
o,o-Diethyl o-2-pyrazinylphosphorothioate	297-97-2		
o-Dichlorobenzene	95-50-1		
o-Dichlorobenzene	95-50-1		
o-Toluidine	95-53-4		
o-Toluidine	95-53-4		
o-Xylene	95-47-6		
o-Xylene	95-47-6		
Parathion	56-38-2		
Parathion	56-38-2		
p-Dichlorobenzene	106-46-7		
p-Dichlorobenzene	106-46-7		
Pentachlorobenzene	608-93-5		
Pentachlorobenzene	608-93-5		
Pentachloroethane	76-01-7		
Pentachloroethane	76-01-7		
Pentachloronitrobenzene (PCNB)	82-68-8		
Pentachloronitrobenzene (PCNB)	82-68-8		
Pentachlorophenol	87-86-5		
Pentachlorophenol	87-86-5		
Pentachlorophenol	87-86-5		
Pentachlorophenol	87-86-5		
Perylene	198-55-0		
Perylene	198-55-0		
Phenacetin	62-44-2		
Phenacetin	62-44-2		
Phenanthrene	85-01-8		
Phenanthrene	85-01-8		
Phenanthrene	85-01-8		



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Certificate of Analysis

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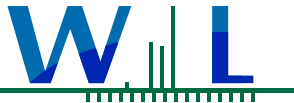
Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Phenanthrene	85-01-8		
Phenanthrene	85-01-8		
Phenanthrene	85-01-8		
Phenol	108-95-2		
Phenol	108-95-2		
Phenol	108-95-2		
Phenol	108-95-2		
Phenol-d5	4165-62-2		✓
Phenol-d5	4165-62-2		✓
Phenol-d5	4165-62-2		✓
Phenol-d5	4165-62-2		✓
Phorate	298-02-2		
Phorate	298-02-2		
p-Isopropyltoluene	99-87-6		
p-Isopropyltoluene	99-87-6		
Pronamide	23950-58-5		
Pronamide	23950-58-5		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyridine	110-86-1		
Pyridine	110-86-1		
Pyridine	110-86-1		
Pyridine	110-86-1		
Safrole	94-59-7		
Safrole	94-59-7		
sec-Butylbenzene	135-98-8		
sec-Butylbenzene	135-98-8		
Selenium, Total	7782-49-2		
Silver, Total	7440-22-4		
Strontium, Total	7440-24-6		
Styrene	100-42-5		
Styrene	100-42-5		
Sulfotep	3689-24-5		
Sulfotep	3689-24-5		
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
tert-Butylbenzene	98-06-6		
tert-Butylbenzene	98-06-6		
Tetrachloroethene	127-18-4		



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Certificate of Analysis

FINAL REPORT

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G13045

Reported:
01/23/2019 13:35

Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Tetrachloroethene	127-18-4		
Thallium, Total	7440-28-0		
Toluene	108-88-3		
Toluene	108-88-3		
Toluene-d8	2037-26-5		✓
Toluene-d8	2037-26-5		✓
trans-1,2-Dichloroethene	156-60-5		
trans-1,2-Dichloroethene	156-60-5		
trans-1,3-Dichloropropene	10061-02-6		
trans-1,3-Dichloropropene	10061-02-6		
Trichloroethene	79-01-6		
Trichloroethene	79-01-6		
Trichlorofluoromethane	75-69-4		
Trichlorofluoromethane	75-69-4		
Vanadium, Total	7440-62-2		
Vinyl chloride	75-01-4		
Vinyl chloride	75-01-4		
Zinc, Total	7440-66-6		



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Reported:
01/23/2019 13:35

Notes and Definitions

Item	Definition
E-01	The concentration indicated for this analyte is an estimated value above the calibration range.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
Q-08	High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect. The data was accepted based on valid recovery of the remaining surrogate.
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	By ANAB
EPA 8316M in Solid Acrylamide	79-06-1	✓	