



▶ **FINAL REPORT**

Work Order(s): 8G06099

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

Received: 7/6/2018

TAT: Normal

Reported: 1/23/2019 12:09

PO Number:

Billing Code:

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.



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2001 22nd Street, Suite 100
Bakersfield, CA 93301

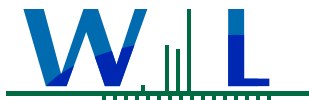
Certificate of Analysis

FINAL REPORT

Project: McMurtrey, Hartsock & Worth
Project Manager: Robert Hartsock
Work Order(s): 8G06099

Reported:
01/23/2019 12:09

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01/23/2019 12:09

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2001 22nd Street, Suite 100
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Project: McMurtrey, Hartsock & Worth
Project Manager: Robert Hartsock
Work Order(s): 8G06099

Reported:
01/23/2019 12:09

Dear Robert Hartsock,

Enclosed are the results of analyses for samples received 7/06/18 with the Chain-of-Custody document. The samples were received in good condition, at 4.0 °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

Potato 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 potato 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.

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 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. Analytes of detections outside of calibration range were flagged as estimate detections based on calibration curves.

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 to obtain a sample extract that can be used for analysis. 1,4-Dioxane was analyzed using EPA 8270M and requested SVOC's were analyzed using EPA 8270C. Sample extracts did not require further dilution prior to 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. Samples were prepared and analyzed at standard sample volumes specified for EPA 6010B and EPA 6020B.

Targetted 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. Samples were further diluted to to obtain a sample extract that can be sued for 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.

**Report revised on 1/23/19 to remove MDL values as MDL study has no been conducted for this matrix type. -CSS 1/23/19

***Report revised on 1/23/19 with corrected document number for sample homogenization SAP per GSI Environmental. -CSS 1/23/19

**** Report revised on 1/23/19 to include a description of what crops are referenced for the report. -CSS 1/23/19

Sample Container Summary

Sample Name	Container ID	Container Type	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
			pH Pass	pH Checked On	pH Check By	Cl Pass	Cl Checked On
							Cl Check By



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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
BPH-1			Client	8G06099-01	Solid	07/05/18 13:00	
8G06099-01 A	1-L Clear Glass Wide Mouth						
BPH-2			Client	8G06099-02	Solid	07/05/18 13:00	
8G06099-02 A	1-L Clear Glass Wide Mouth						
BPH-3			Client	8G06099-03	Solid	07/05/18 13:00	
8G06099-03 A	1-L Clear Glass Wide Mouth						
S+F-1			Client	8G06099-04	Solid	07/05/18 13:25	
8G06099-04 A	1-L Clear Glass Wide Mouth						
S+F-2			Client	8G06099-05	Solid	07/05/18 13:25	
8G06099-05 A	1-L Clear Glass Wide Mouth						
S+F-3			Client	8G06099-06	Solid	07/05/18 13:25	
8G06099-06 A	1-L Clear Glass Wide Mouth						



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Sample Results

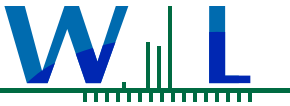
Sample: BPH-1

Sampled: 07/05/18 13:00 by Client

8G06099-01 (Solid)

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: 0.59 g		Analyst: mld	
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:13			Instr: GCMS20		Final: 1 ml			
1,4-Dioxane	ND			850	ug/kg	1	11/06/18 00:36	M-02
Acrylamide by LC/MS/MS								
Analysis Method: EPA 8316M			Batch ID: W8K0139		Initial: 1.09 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 13:42	
Alcohols by GC/FID								
Analysis Method: EPA 8015B			Batch ID: W8K0439		Initial: 5.22 g		Analyst: ars	
Prep Method: Microextraction on 11/15/18 10:00			Instr: GC09		Final: 20 ml			
Isopropyl alcohol	ND			770	mg/kg	20	11/15/18 20:14	M-02, M-04
Methanol	ND			770	mg/kg	20	11/15/18 20:14	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 10:42	
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 13:05	
Arsenic, Total	ND			0.50	mg/kg	1	11/01/18 23:03	
Barium, Total	ND			0.50	mg/kg	1	11/01/18 23:03	
Beryllium, Total	ND			0.30	mg/kg	1	11/02/18 13:05	
Cadmium, Total	ND			0.20	mg/kg	1	11/01/18 23:03	
Chromium, Total	ND			1.0	mg/kg	1	11/01/18 23:03	
Cobalt, Total	ND			0.50	mg/kg	1	11/01/18 23:03	
Copper, Total	0.97			0.50	mg/kg	1	11/01/18 23:03	
Lead, Total	ND			0.50	mg/kg	1	11/01/18 23:03	
Molybdenum, Total	ND			0.50	mg/kg	1	11/02/18 13:05	
Nickel, Total	ND			1.0	mg/kg	1	11/01/18 23:03	
Selenium, Total	ND			0.50	mg/kg	1	11/01/18 23:03	
Silver, Total	ND			0.50	mg/kg	1	11/01/18 23:03	
Strontium, Total	0.75			0.50	mg/kg	1	11/01/18 23:03	
Thallium, Total	ND			0.50	mg/kg	1	11/01/18 23:03	
Vanadium, Total	ND			1.0	mg/kg	1	11/01/18 23:03	
Zinc, Total	ND			5.0	mg/kg	1	11/01/18 23:03	
Semivolatile Organic Compounds by GC/MS								
Analysis Method: EPA 8270C			Batch ID: W8J1933		Initial: 0.59 g		Analyst: rmr	
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15			Instr: GCMS06		Final: 1 ml			



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Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-1

Sampled: 07/05/18 13:00 by Client

8G06099-01 (Solid)

(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: 0.59 g

Analyst: rmr

Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15

Instr: GCMS06

Final: 1 ml

2-Naphthylamine	ND			17	mg/kg	1	12/06/18 23:09	M-02
Bis(2-chloroethyl)ether	ND			1.7	mg/kg	1	12/06/18 23:09	M-02
Bis(2-ethylhexyl)phthalate	ND			1.7	mg/kg	1	12/06/18 23:09	M-02
Carbazole	ND			1.7	mg/kg	1	12/06/18 23:09	M-02
Phenol	ND			1.7	mg/kg	1	12/06/18 23:09	M-02
Pyridine	ND			3.4	mg/kg	1	12/06/18 23:09	M-02

Surrogate(s)

2,4,6-Tribromophenol	84%	Conc: 14.3		32-103			12/06/18 23:09	M-02
2-Fluorobiphenyl	51%	Conc: 4.34		36-107			12/06/18 23:09	M-02
2-Fluorophenol	57%	Conc: 9.63		33-119			12/06/18 23:09	M-02
Nitrobenzene-d5	53%	Conc: 4.52		36-114			12/06/18 23:09	M-02
Phenol-d5	60%	Conc: 10.2		40-118			12/06/18 23:09	M-02
Terphenyl-d14	99%	Conc: 8.38		40-121			12/06/18 23:09	M-02

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM

Batch ID: W8J1934

Initial: 0.59 g

Analyst: rmr

Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17

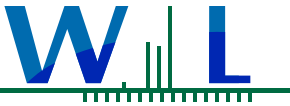
Instr: GCMS06

Final: 1 ml

1-Methylnaphthalene	ND			250	ug/kg	1	12/05/18 17:37	M-02
2-Methylnaphthalene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Acenaphthene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Acenaphthylene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Anthracene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Benzo (a) anthracene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Benzo (a) pyrene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Benzo (b) fluoranthene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Benzo (g,h,i) perylene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Benzo (k) fluoranthene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Chrysene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Dibenzo (a,h) anthracene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Fluoranthene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Fluorene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Indeno (1,2,3-cd) pyrene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Naphthalene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Phenanthrene	ND			250	ug/kg	1	12/05/18 17:37	M-02
Pyrene	ND			250	ug/kg	1	12/05/18 17:37	M-02

Surrogate(s)

2-Fluorobiphenyl	62%	Conc: 5220		0.1-109			12/05/18 17:37	M-02
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Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-1

Sampled: 07/05/18 13:00 by Client

8G06099-01 (Solid)

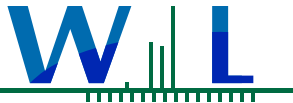
(Continued)

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: 0.59 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17		Instr: GCMS06		Final: 1 ml				
Nitrobenzene-d5	54%	Conc: 4590		0.1-107			12/05/18 17:37	M-02
Terphenyl-d14	101%	Conc: 8530		28-128			12/05/18 17:37	M-02

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B		Batch ID: W8K0412		Initial: 2.815 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			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,1,1-Trichloroethane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,1,2-Trichloroethane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,1-Dichloroethane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,1-Dichloroethene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,1-Dichloropropene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,2,3-Trichlorobenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,2,3-Trichloropropane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,2,4-Trichlorobenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,2,4-Trimethylbenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,2-Dibromoethane (EDB)	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,2-Dichloroethane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,2-Dichloropropane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,3,5-Trimethylbenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
1,3-Dichloropropane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
2,2-Dichloropropane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
2-Butanone	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
2-Chloroethyl vinyl ether	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
2-Chlorotoluene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
2-Hexanone	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
4-Chlorotoluene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
4-Methyl-2-pentanone	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04



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Sample Results

(Continued)

Sample: BPH-1

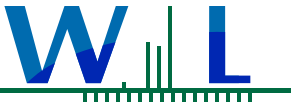
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8G06099-01 (Solid)

(Continued)

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

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains list of Volatile Organic Compounds by P&T and GC/MS (Continued) with various chemical names and their corresponding results.



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Sample: BPH-1

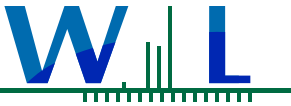
Sampled: 07/05/18 13:00 by Client

8G06099-01 (Solid)

(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: 2.815 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
n-Butylbenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
n-Propylbenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
o-Dichlorobenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
o-Xylene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
p-Dichlorobenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
p-Isopropyltoluene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
sec-Butylbenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
Styrene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
tert-Butylbenzene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
Tetrachloroethene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
Toluene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
trans-1,2-Dichloroethene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
trans-1,3-Dichloropropene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
Trichloroethene	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
Trichlorofluoromethane	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
Vinyl chloride	ND			89	ug/kg	5	11/09/18 14:07	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	103%		Conc: 183	78-140			11/09/18 14:07	
4-Bromofluorobenzene	95%		Conc: 169	85-116			11/09/18 14:07	
Dibromofluoromethane	102%		Conc: 181	84-120			11/09/18 14:07	
Toluene-d8	97%		Conc: 173	82-120			11/09/18 14:07	



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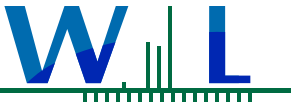
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Sample: BPH-2 Sampled: 07/05/18 13:00 by Client

8G06099-02 (Solid)

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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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): 8G06099

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-2

Sampled: 07/05/18 13:00 by Client

8G06099-02 (Solid)

(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: 0.54 g

Analyst: rmr

Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:15

Instr: GCMS06

Final: 1 ml

2-Naphthylamine	ND			19	mg/kg	1	12/06/18 23:39	M-02
Bis(2-chloroethyl)ether	ND			1.9	mg/kg	1	12/06/18 23:39	M-02
Bis(2-ethylhexyl)phthalate	ND			1.9	mg/kg	1	12/06/18 23:39	M-02
Carbazole	ND			1.9	mg/kg	1	12/06/18 23:39	M-02
Phenol	ND			1.9	mg/kg	1	12/06/18 23:39	M-02
Pyridine	ND			3.7	mg/kg	1	12/06/18 23:39	M-02

Surrogate(s)

2,4,6-Tribromophenol	77%	Conc: 14.2		32-103			12/06/18 23:39	M-02
2-Fluorobiphenyl	46%	Conc: 4.30		36-107			12/06/18 23:39	M-02
2-Fluorophenol	50%	Conc: 9.22		33-119			12/06/18 23:39	M-02
Nitrobenzene-d5	47%	Conc: 4.38		36-114			12/06/18 23:39	M-02
Phenol-d5	52%	Conc: 9.55		40-118			12/06/18 23:39	M-02
Terphenyl-d14	99%	Conc: 9.20		40-121			12/06/18 23:39	M-02

Semivolatile Organics - Low Level by GC/MS SIM Mode

Analysis Method: EPA 8270C SIM

Batch ID: W8J1934

Initial: 0.54 g

Analyst: rmr

Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17

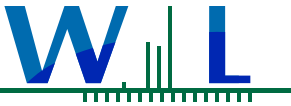
Instr: GCMS06

Final: 1 ml

1-Methylnaphthalene	ND			280	ug/kg	1	12/05/18 18:11	M-02
2-Methylnaphthalene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Acenaphthene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Acenaphthylene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Anthracene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Benzo (a) anthracene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Benzo (a) pyrene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Benzo (b) fluoranthene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Benzo (g,h,i) perylene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Benzo (k) fluoranthene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Chrysene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Dibenzo (a,h) anthracene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Fluoranthene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Fluorene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Indeno (1,2,3-cd) pyrene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Naphthalene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Phenanthrene	ND			280	ug/kg	1	12/05/18 18:11	M-02
Pyrene	ND			280	ug/kg	1	12/05/18 18:11	M-02

Surrogate(s)

2-Fluorobiphenyl	58%	Conc: 5330		0.1-109			12/05/18 18:11	M-02
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FINAL REPORT

Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-2

Sampled: 07/05/18 13:00 by Client

8G06099-02 (Solid)

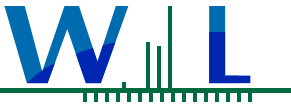
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Comments: Homogenized on 10/26/18 at 1750.

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: 0.54 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17		Instr: GCMS06		Final: 1 ml				
Nitrobenzene-d5	49%	Conc: 4540		0.1-107			12/05/18 18:11	M-02
Terphenyl-d14	103%	Conc: 9550		28-128			12/05/18 18:11	M-02

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B		Batch ID: W8K0412		Initial: 2.469 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			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,1,1-Trichloroethane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,1,2-Trichloroethane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,1-Dichloroethane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,1-Dichloroethene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,1-Dichloropropene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,2,3-Trichlorobenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,2,3-Trichloropropane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,2,4-Trichlorobenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,2,4-Trimethylbenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,2-Dibromoethane (EDB)	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,2-Dichloroethane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,2-Dichloropropane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,3,5-Trimethylbenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
1,3-Dichloropropane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
2,2-Dichloropropane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
2-Butanone	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
2-Chloroethyl vinyl ether	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
2-Chlorotoluene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
2-Hexanone	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
4-Chlorotoluene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
4-Methyl-2-pentanone	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04



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Work Order(s): 8G06099

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Reported: 01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-2

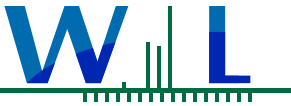
Sampled: 07/05/18 13:00 by Client

8G06099-02 (Solid)

(Continued)

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

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains list of Volatile Organic Compounds by P&T and GC/MS with results like ND, 160, 5100.



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FINAL REPORT

Reported:

01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-2

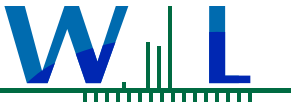
Sampled: 07/05/18 13:00 by Client

8G06099-02 (Solid)

(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: 2.469 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
n-Butylbenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
n-Propylbenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
o-Dichlorobenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
o-Xylene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
p-Dichlorobenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
p-Isopropyltoluene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
sec-Butylbenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
Styrene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
tert-Butylbenzene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
Tetrachloroethene	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
Toluene	ND			100	ug/kg	5	11/09/18 15:17	M-04, M-02
trans-1,2-Dichloroethene	ND			100	ug/kg	5	11/09/18 15:17	M-04, M-02
trans-1,3-Dichloropropene	ND			100	ug/kg	5	11/09/18 15:17	M-04, M-02
Trichloroethene	ND			100	ug/kg	5	11/09/18 15:17	M-04, M-02
Trichlorofluoromethane	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
Vinyl chloride	ND			100	ug/kg	5	11/09/18 15:17	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	104%		Conc: 210	78-140			11/09/18 15:17	
4-Bromofluorobenzene	93%		Conc: 189	85-116			11/09/18 15:17	
Dibromofluoromethane	103%		Conc: 209	84-120			11/09/18 15:17	
Toluene-d8	98%		Conc: 198	82-120			11/09/18 15:17	



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Work Order(s): 8G06099

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FINAL REPORT

Reported:
01/23/2019 12:09

Sample Results

(Continued)

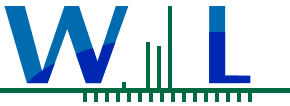
Sample: BPH-3

Sampled: 07/05/18 13:00 by Client

8G06099-03 (Solid)

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: 0.55 g		Analyst: mld		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:13		Instr: GCMS20		Final: 1 ml				
1,4-Dioxane	ND			910	ug/kg	1	11/06/18 01:04	M-02
Acrylamide by LC/MS/MS								
Analysis Method: EPA 8316M		Batch ID: W8K0139		Initial: 1 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 14:00	
Alcohols by GC/FID								
Analysis Method: EPA 8015B		Batch ID: W8K0439		Initial: 5.15 g		Analyst: ars		
Prep Method: Microextraction on 11/15/18 10:00		Instr: GC09		Final: 20 ml				
Isopropyl alcohol	ND			780	mg/kg	20	11/15/18 21:13	M-02, M-04
Methanol	ND			780	mg/kg	20	11/15/18 21:13	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 10:48	
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 13:16	
Arsenic, Total	ND			0.50	mg/kg	1	11/01/18 23:24	
Barium, Total	ND			0.50	mg/kg	1	11/01/18 23:24	
Beryllium, Total	ND			0.30	mg/kg	1	11/02/18 13:16	
Cadmium, Total	ND			0.20	mg/kg	1	11/01/18 23:24	
Chromium, Total	ND			1.0	mg/kg	1	11/01/18 23:24	
Cobalt, Total	ND			0.50	mg/kg	1	11/01/18 23:24	
Copper, Total	1.0			0.50	mg/kg	1	11/01/18 23:24	
Lead, Total	ND			0.50	mg/kg	1	11/01/18 23:24	
Molybdenum, Total	ND			0.50	mg/kg	1	11/02/18 13:16	
Nickel, Total	ND			1.0	mg/kg	1	11/01/18 23:24	
Selenium, Total	ND			0.50	mg/kg	1	11/01/18 23:24	
Silver, Total	ND			0.50	mg/kg	1	11/01/18 23:24	
Strontium, Total	0.65			0.50	mg/kg	1	11/01/18 23:24	
Thallium, Total	ND			0.50	mg/kg	1	11/01/18 23:24	
Vanadium, Total	ND			1.0	mg/kg	1	11/01/18 23:24	
Zinc, Total	ND			5.0	mg/kg	1	11/01/18 23:24	
Semivolatile Organic Compounds by GC/MS								
Analysis Method: EPA 8270C		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				



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Work Order(s): 8G06099

Certificate of Analysis

FINAL REPORT

Reported: 01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-3

Sampled: 07/05/18 13:00 by Client

8G06099-03 (Solid)

(Continued)

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

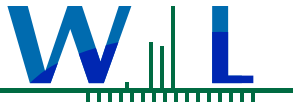
Table header with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier

Semivolatile Organic Compounds by GC/MS (Continued)

Table containing analysis method, prep method, batch ID, initial/final amounts, and results for various compounds like 2-Naphthylamine, Bis(2-chloroethyl)ether, etc.

Semivolatile Organics - Low Level by GC/MS SIM Mode

Table containing analysis method, prep method, batch ID, initial/final amounts, and results for various organics like 1-Methylnaphthalene, Acenaphthene, Anthracene, etc.



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Work Order(s): 8G06099

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-3

Sampled: 07/05/18 13:00 by Client

8G06099-03 (Solid)

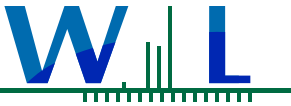
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Comments: Homogenized on 10/26/18 at 1750.

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: 0.55 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17		Instr: GCMS06		Final: 1 ml				
Nitrobenzene-d5	56%	Conc: 5130		0.1-107			12/05/18 18:47	M-02
Terphenyl-d14	105%	Conc: 9520		28-128			12/05/18 18:47	M-02

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B		Batch ID: W8K0412		Initial: 2.645 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 15:52	M-02, M-04
1,1,1-Trichloroethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,1,2-Trichloroethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,1-Dichloroethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,1-Dichloroethene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,1-Dichloropropene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,2,3-Trichlorobenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,2,3-Trichloropropane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,2,4-Trichlorobenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,2,4-Trimethylbenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,2-Dibromoethane (EDB)	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,2-Dichloroethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,2-Dichloropropane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,3,5-Trimethylbenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
1,3-Dichloropropane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
2,2-Dichloropropane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
2-Butanone	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
2-Chloroethyl vinyl ether	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
2-Chlorotoluene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
2-Hexanone	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
4-Chlorotoluene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
4-Methyl-2-pentanone	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04



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Work Order(s): 8G06099

Certificate of Analysis

FINAL REPORT

Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-3

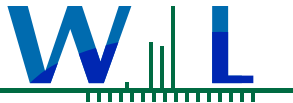
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8G06099-03 (Solid)

(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: 2.645 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
Acetone	220			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Acrolein	170			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Acrylonitrile	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Benzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Bromobenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Bromochloromethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Bromodichloromethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Bromoform	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Bromomethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Carbon tetrachloride	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Chlorobenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Chloroethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Chloroform	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Chloromethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
cis-1,2-Dichloroethene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
cis-1,3-Dichloropropene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Dibromochloromethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Dibromomethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Ethyl acetate	2600			95	ug/kg	5	11/09/18 15:52	M-04, M-02
Ethylbenzene	ND			95	ug/kg	5	11/09/18 15:52	M-04, M-02
Hexachlorobutadiene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Isopropylbenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
m,p-Xylene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
m-Dichlorobenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Methylene chloride	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Naphthalene	ND			95	ug/kg	5	11/09/18 15:52	M-04, M-02



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Work Order(s): 8G06099

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01/23/2019 12:09

Sample Results

(Continued)

Sample: BPH-3

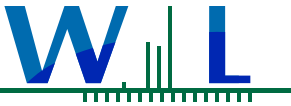
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8G06099-03 (Solid)

(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: 2.645 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
n-Butylbenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
n-Propylbenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
o-Dichlorobenzene	ND			95	ug/kg	5	11/09/18 15:52	M-04, M-02
o-Xylene	ND			95	ug/kg	5	11/09/18 15:52	M-04, M-02
p-Dichlorobenzene	ND			95	ug/kg	5	11/09/18 15:52	M-04, M-02
p-Isopropyltoluene	ND			95	ug/kg	5	11/09/18 15:52	M-04, M-02
sec-Butylbenzene	ND			95	ug/kg	5	11/09/18 15:52	M-04, M-02
Styrene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
tert-Butylbenzene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Tetrachloroethene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Toluene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
trans-1,2-Dichloroethene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
trans-1,3-Dichloropropene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Trichloroethene	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Trichlorofluoromethane	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
Vinyl chloride	ND			95	ug/kg	5	11/09/18 15:52	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	104%		Conc: 197		78-140		11/09/18 15:52	
4-Bromofluorobenzene	95%		Conc: 179		85-116		11/09/18 15:52	
Dibromofluoromethane	103%		Conc: 195		84-120		11/09/18 15:52	
Toluene-d8	99%		Conc: 187		82-120		11/09/18 15:52	



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Reported: 01/23/2019 12:09

Sample Results

(Continued)

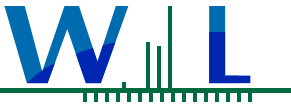
Sample: S+F-1

Sampled: 07/05/18 13:25 by Client

8G06099-04 (Solid)

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 12:09

Sample Results

(Continued)

Sample: S+F-1

Sampled: 07/05/18 13:25 by Client

8G06099-04 (Solid)

(Continued)

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

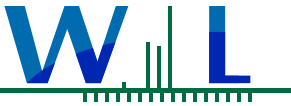
Table header with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier

Semivolatile Organic Compounds by GC/MS (Continued)

Table containing analysis method (EPA 8270C), prep method (EPA 3545/ASE-PFE), batch ID (W8J1933), initial (0.57 g), final (1 ml), and analyst (rmr). Lists compounds like 2-Naphthylamine, Bis(2-chloroethyl)ether, etc., with results (ND) and qualifiers (M-02).

Semivolatile Organics - Low Level by GC/MS SIM Mode

Table containing analysis method (EPA 8270C SIM), prep method (EPA 3545/ASE-PFE), batch ID (W8J1934), initial (0.57 g), final (1 ml), and analyst (rmr). Lists compounds like 1-Methylnaphthalene, 2-Methylnaphthalene, etc., with results (ND) and qualifiers (M-02).



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Sample Results

(Continued)

Sample: S+F-1

Sampled: 07/05/18 13:25 by Client

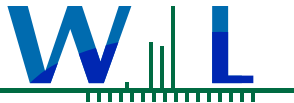
8G06099-04 (Solid)

(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 amounts.

Table with 9 columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Section: Volatile Organic Compounds by P&T and GC/MS. Lists various compounds and their detection results.



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01/23/2019 12:09

Sample Results

(Continued)

Sample: S+F-1

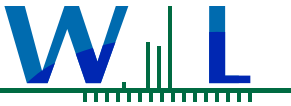
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8G06099-04 (Solid)

(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: 2.659 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
Acetone	300			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Acrolein	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Acrylonitrile	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Benzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Bromobenzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Bromochloromethane	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Bromodichloromethane	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Bromoform	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Bromomethane	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Carbon tetrachloride	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Chlorobenzene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Chloroethane	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Chloroform	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Chloromethane	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
cis-1,2-Dichloroethene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
cis-1,3-Dichloropropene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Dibromochloromethane	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Dibromomethane	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Ethyl acetate	7200			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Ethylbenzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Hexachlorobutadiene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Isopropylbenzene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
m,p-Xylene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
m-Dichlorobenzene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Methyl tert-butyl ether (MTBE)	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Methylene chloride	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Naphthalene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04



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Sample Results

(Continued)

Sample: S+F-1

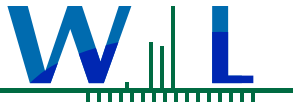
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8G06099-04 (Solid)

(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: 2.659 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
n-Butylbenzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
n-Propylbenzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
o-Dichlorobenzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
o-Xylene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
p-Dichlorobenzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
p-Isopropyltoluene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
sec-Butylbenzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Styrene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
tert-Butylbenzene	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
Tetrachloroethene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Toluene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
trans-1,2-Dichloroethene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
trans-1,3-Dichloropropene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Trichloroethene	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Trichlorofluoromethane	ND			94	ug/kg	5	11/09/18 16:27	M-04, M-02
Vinyl chloride	ND			94	ug/kg	5	11/09/18 16:27	M-02, M-04
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	102%		Conc: 192		78-140		11/09/18 16:27	
4-Bromofluorobenzene	92%		Conc: 173		85-116		11/09/18 16:27	
Dibromofluoromethane	104%		Conc: 195		84-120		11/09/18 16:27	
Toluene-d8	97%		Conc: 183		82-120		11/09/18 16:27	



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Reported: 01/23/2019 12:09

Sample Results

(Continued)

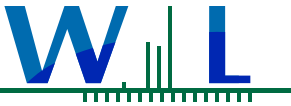
Sample: S+F-2

Sampled: 07/05/18 13:25 by Client

8G06099-05 (Solid)

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 12:09

Sample Results

(Continued)

Sample: S+F-2

Sampled: 07/05/18 13:25 by Client

8G06099-05 (Solid)

(Continued)

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

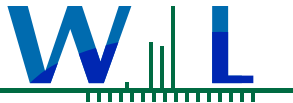
Table header with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier

Semivolatile Organic Compounds by GC/MS (Continued)

Table containing analysis method, prep method, batch ID, initial/final amounts, and results for various compounds like 2-Naphthylamine, Bis(2-chloroethyl)ether, etc.

Semivolatile Organics - Low Level by GC/MS SIM Mode

Table containing analysis method, prep method, batch ID, initial/final amounts, and results for various organics like 1-Methylnaphthalene, 2-Methylnaphthalene, etc.



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Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: S+F-2

Sampled: 07/05/18 13:25 by Client

8G06099-05 (Solid)

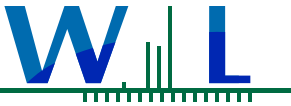
(Continued)

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: 0.58 g		Analyst: rmr		
Prep Method: EPA 3545/ASE-PFE on 10/31/18 11:17		Instr: GCMS06		Final: 1 ml				
Nitrobenzene-d5	57%	Conc: 4880		0.1-107			12/05/18 19:57	M-02
Terphenyl-d14	105%	Conc: 9050		28-128			12/05/18 19:57	M-02

Volatile Organic Compounds by P&T and GC/MS

Analysis Method: EPA 8260B		Batch ID: W8K0412		Initial: 2.581 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 17:01	M-02, M-04
1,1,1-Trichloroethane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,1,2,2-Tetrachloroethane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,1,2-Trichloroethane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,1-Dichloroethane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,1-Dichloroethene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,1-Dichloropropene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,2,3-Trichlorobenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,2,3-Trichloropropane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,2,4-Trichlorobenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,2,4-Trimethylbenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,2-Dibromo-3-chloropropane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,2-Dibromoethane (EDB)	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,2-Dichloroethane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,2-Dichloropropane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,3,5-Trimethylbenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
1,3-Dichloropropane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
2,2-Dichloropropane	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
2-Butanone	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
2-Chloroethyl vinyl ether	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
2-Chlorotoluene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
2-Hexanone	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
4-Chlorotoluene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
4-Methyl-2-pentanone	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04



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Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G06099

Certificate of Analysis

FINAL REPORT

Reported: 01/23/2019 12:09

Sample Results

(Continued)

Sample: S+F-2

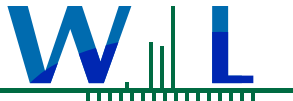
Sampled: 07/05/18 13:25 by Client

8G06099-05 (Solid)

(Continued)

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

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Dil, Analyzed, Qualifier. Contains list of Volatile Organic Compounds by P&T and GC/MS (Continued) with various chemical names and their corresponding results.



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Work Order(s): 8G06099

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FINAL REPORT

Reported:

01/23/2019 12:09

Sample Results

(Continued)

Sample: S+F-2

Sampled: 07/05/18 13:25 by Client

8G06099-05 (Solid)

(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: 2.581 g

Analyst: cam

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

Instr: GCMS17

Final: 10 ml

n-Butylbenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
n-Propylbenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
o-Dichlorobenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
o-Xylene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
p-Dichlorobenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
p-Isopropyltoluene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
sec-Butylbenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
Styrene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
tert-Butylbenzene	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04
Tetrachloroethene	ND			97	ug/kg	5	11/09/18 17:01	M-04, M-02
Toluene	ND			97	ug/kg	5	11/09/18 17:01	M-04, M-02
trans-1,2-Dichloroethene	ND			97	ug/kg	5	11/09/18 17:01	M-04, M-02
trans-1,3-Dichloropropene	ND			97	ug/kg	5	11/09/18 17:01	M-04, M-02
Trichloroethene	ND			97	ug/kg	5	11/09/18 17:01	M-04, M-02
Trichlorofluoromethane	ND			97	ug/kg	5	11/09/18 17:01	M-04, M-02
Vinyl chloride	ND			97	ug/kg	5	11/09/18 17:01	M-02, M-04

Surrogate(s)

1,2-Dichloroethane-d4	102%	Conc: 197	78-140	11/09/18 17:01
4-Bromofluorobenzene	92%	Conc: 179	85-116	11/09/18 17:01
Dibromofluoromethane	102%	Conc: 198	84-120	11/09/18 17:01
Toluene-d8	96%	Conc: 187	82-120	11/09/18 17:01



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Work Order(s): 8G06099

Reported:
01/23/2019 12:09

Sample Results

(Continued)

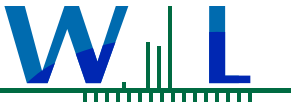
Sample: S+F-3

Sampled: 07/05/18 13:25 by Client

8G06099-06 (Solid)

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 01:46	M-02
Acrylamide by LC/MS/MS								
Analysis Method: EPA 8316M		Batch ID: W8K0139		Initial: 1 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 14:27	
Alcohols by GC/FID								
Analysis Method: EPA 8015B		Batch ID: W8K0439		Initial: 5.23 g		Analyst: ars		
Prep Method: Microextraction on 11/15/18 10:00		Instr: GC09		Final: 20 ml				
Isopropyl alcohol	ND			760	mg/kg	20	11/15/18 22:42	M-04, M-02
Methanol	ND			760	mg/kg	20	11/15/18 22:42	M-04, M-02
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods								
Analysis Method: EPA 6010B		Batch ID: W8J1837		Initial: 1.003 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 10:57	
Analysis Method: EPA 6020B		Batch ID: W8J1836		Initial: 1.003 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 13:28	
Arsenic, Total	ND			0.50	mg/kg	1	11/01/18 23:46	
Barium, Total	ND			0.50	mg/kg	1	11/01/18 23:46	
Beryllium, Total	ND			0.30	mg/kg	1	11/02/18 13:28	
Cadmium, Total	ND			0.20	mg/kg	1	11/01/18 23:46	
Chromium, Total	ND			1.0	mg/kg	1	11/01/18 23:46	
Cobalt, Total	ND			0.50	mg/kg	1	11/01/18 23:46	
Copper, Total	0.90			0.50	mg/kg	1	11/01/18 23:46	
Lead, Total	ND			0.50	mg/kg	1	11/01/18 23:46	
Molybdenum, Total	ND			0.50	mg/kg	1	11/02/18 13:28	
Nickel, Total	ND			1.0	mg/kg	1	11/01/18 23:46	
Selenium, Total	ND			0.50	mg/kg	1	11/01/18 23:46	
Silver, Total	ND			0.50	mg/kg	1	11/01/18 23:46	
Strontium, Total	ND			0.50	mg/kg	1	11/01/18 23:46	
Thallium, Total	ND			0.50	mg/kg	1	11/01/18 23:46	
Vanadium, Total	ND			1.0	mg/kg	1	11/01/18 23:46	
Zinc, Total	ND			5.0	mg/kg	1	11/01/18 23:46	
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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Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: S+F-3

Sampled: 07/05/18 13:25 by Client

8G06099-06 (Solid)

(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			19	mg/kg	1	12/07/18 01:42	M-02
Bis(2-chloroethyl)ether	ND			1.9	mg/kg	1	12/07/18 01:42	M-02
Bis(2-ethylhexyl)phthalate	ND			1.9	mg/kg	1	12/07/18 01:42	M-02
Carbazole	ND			1.9	mg/kg	1	12/07/18 01:42	M-02
Phenol	ND			1.9	mg/kg	1	12/07/18 01:42	M-02
Pyridine	ND			3.8	mg/kg	1	12/07/18 01:42	M-02

Surrogate(s)

2,4,6-Tribromophenol	91%	Conc: 17.5		32-103			12/07/18 01:42	M-02
2-Fluorobiphenyl	47%	Conc: 4.48		36-107			12/07/18 01:42	M-02
2-Fluorophenol	51%	Conc: 9.84		33-119			12/07/18 01:42	M-02
Nitrobenzene-d5	53%	Conc: 5.06		36-114			12/07/18 01:42	M-02
Phenol-d5	57%	Conc: 10.9		40-118			12/07/18 01:42	M-02
Terphenyl-d14	101%	Conc: 9.73		40-121			12/07/18 01:42	M-02

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

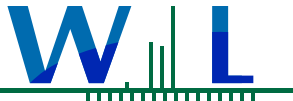
Instr: GCMS06

Final: 1 ml

1-Methylnaphthalene	ND			290	ug/kg	1	12/05/18 20:32	M-02
2-Methylnaphthalene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Acenaphthene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Acenaphthylene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Anthracene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Benzo (a) anthracene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Benzo (a) pyrene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Benzo (b) fluoranthene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Benzo (g,h,i) perylene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Benzo (k) fluoranthene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Chrysene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Dibenzo (a,h) anthracene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Fluoranthene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Fluorene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Indeno (1,2,3-cd) pyrene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Naphthalene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Phenanthrene	ND			290	ug/kg	1	12/05/18 20:32	M-02
Pyrene	ND			290	ug/kg	1	12/05/18 20:32	M-02

Surrogate(s)

2-Fluorobiphenyl	56%	Conc: 5350		0.1-109			12/05/18 20:32	M-02
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Reported: 01/23/2019 12:09

Sample Results

(Continued)

Sample: S+F-3

Sampled: 07/05/18 13:25 by Client

8G06099-06 (Solid)

(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 results for Nitrobenzene-d5 and Terphenyl-d14.

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 results for various chlorinated and brominated hydrocarbons.



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Reported:
01/23/2019 12:09

Sample Results

(Continued)

Sample: S+F-3

Sampled: 07/05/18 13:25 by Client

8G06099-06 (Solid)

(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: 2.645 g

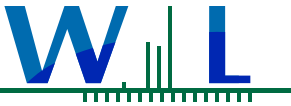
Analyst: cam

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

Instr: GCMS17

Final: 10 ml

Acetone	6700			95	ug/kg	5	11/09/18 17:36	E-01, M-02, M-04
Acrolein	140			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Acrylonitrile	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Benzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Bromobenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Bromochloromethane	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Bromodichloromethane	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Bromoform	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Bromomethane	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Carbon tetrachloride	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Chlorobenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Chloroethane	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Chloroform	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Chloromethane	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
cis-1,2-Dichloroethene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
cis-1,3-Dichloropropene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Dibromochloromethane	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Dibromomethane	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Dichlorodifluoromethane (Freon 12)	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Ethyl acetate	6300			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Ethylbenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Hexachlorobutadiene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Isopropylbenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
m,p-Xylene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
m-Dichlorobenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Methyl tert-butyl ether (MTBE)	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Methylene chloride	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04



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Sample Results

(Continued)

Sample: S+F-3

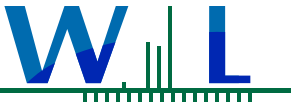
Sampled: 07/05/18 13:25 by Client

8G06099-06 (Solid)

(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: 2.645 g		Analyst: cam	
Prep Method: EPA 5000/P&T on 11/07/18 17:58			Instr: GCMS17		Final: 10 ml			
Naphthalene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
n-Butylbenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
n-Propylbenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
o-Dichlorobenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
o-Xylene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
p-Dichlorobenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
p-Isopropyltoluene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
sec-Butylbenzene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
Styrene	ND			95	ug/kg	5	11/09/18 17:36	M-02, M-04
tert-Butylbenzene	ND			95	ug/kg	5	11/09/18 17:36	M-04, M-02
Tetrachloroethene	ND			95	ug/kg	5	11/09/18 17:36	M-04, M-02
Toluene	ND			95	ug/kg	5	11/09/18 17:36	M-04, M-02
trans-1,2-Dichloroethene	ND			95	ug/kg	5	11/09/18 17:36	M-04, M-02
trans-1,3-Dichloropropene	ND			95	ug/kg	5	11/09/18 17:36	M-04, M-02
Trichloroethene	ND			95	ug/kg	5	11/09/18 17:36	M-04, M-02
Trichlorofluoromethane	ND			95	ug/kg	5	11/09/18 17:36	M-04, M-02
Vinyl chloride	ND			95	ug/kg	5	11/09/18 17:36	M-04, M-02
<i>Surrogate(s)</i>								
1,2-Dichloroethane-d4	105%	Conc: 198		78-140			11/09/18 17:36	
4-Bromofluorobenzene	92%	Conc: 174		85-116			11/09/18 17:36	
Dibromofluoromethane	102%	Conc: 194		84-120			11/09/18 17:36	
Toluene-d8	94%	Conc: 177		82-120			11/09/18 17:36	



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Reported:
01/23/2019 12:09

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)						Source: 8G06099-01 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)						Source: 8G06099-01 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)						Source: 8G06099-01 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)						Source: 8G06099-01 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)						Source: 8G06099-01 Prepared & Analyzed: 11/15/18						
Isopropyl alcohol	84.3	0.0		810	mg/kg	40.3	ND	209	4-156			M-02, M-04, M-02, M-04,
Methanol	105	0.0		810	mg/kg	40.3	124	NR	16-166			
Matrix Spike Dup (W8K0439-MSD1)						Source: 8G06099-01 Prepared & Analyzed: 11/15/18						
Isopropyl alcohol	78.7	0.0		800	mg/kg	39.8	ND	198	4-156	200	25	M-02, M-04, MS-05, M-02,
Methanol	187	0.0		800	mg/kg	39.8	124	158	16-166	200	25	



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Work Order(s): 8G06099

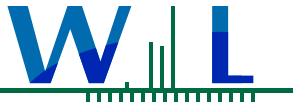
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Quality Control Results

(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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Work Order(s): 8G06099

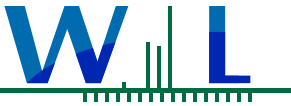
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Quality Control Results

(Continued)

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

Table with columns: Analyte, Result, MDL, LOD, LOQ, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Qualifier. Includes sections for Duplicate (W8J1836-DUP1), Matrix Spike (W8J1836-MS1), and Matrix Spike Dup (W8J1836-MSD1).



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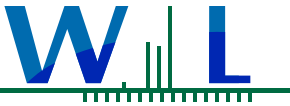
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Quality Control Results

(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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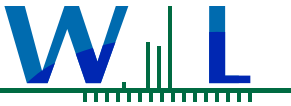
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Quality Control Results

(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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Quality Control Results

(Continued)

Semivolatle Organic Compounds by GC/MS (Continued)

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	Limits	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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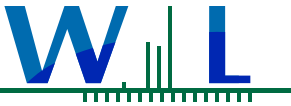
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Quality Control Results

(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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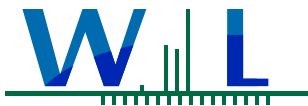
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Quality Control Results

(Continued)

Semivolatiles 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			M-02
Acenaphthylene	15700	58		290	ug/kg	19200	ND	81	8-111			M-02
Anthracene	15800	58		290	ug/kg	19200	ND	82	3-132			M-02
Benzo (a) anthracene	21900	58		290	ug/kg	19200	ND	114	14-125			M-02
Benzo (a) pyrene	26800	58		290	ug/kg	19200	65.1	139	2-138			M-02, Q-08
Benzo (b) fluoranthene	24100	58		290	ug/kg	19200	65.4	125	20-150			M-02
Benzo (g,h,i) perylene	24000	58		290	ug/kg	19200	58.1	125	9-129			M-02
Benzo (k) fluoranthene	23700	58		290	ug/kg	19200	ND	123	20-150			M-02
Chrysene	19700	58		290	ug/kg	19200	ND	102	20-150			M-02
Dibenzo (a,h) anthracene	24600	58		290	ug/kg	19200	ND	128	10-144			M-02
Fluoranthene	18300	58		290	ug/kg	19200	ND	95	11-127			M-02
Fluorene	16600	58		290	ug/kg	19200	ND	86	4-125			M-02
Indeno (1,2,3-cd) pyrene	24700	58		290	ug/kg	19200	95.1	128	3-137			M-02
Naphthalene	12800	58		290	ug/kg	19200	ND	67	0.1-117			M-02
Phenanthrene	15800	58		290	ug/kg	19200	ND	82	10-122			M-02
Pyrene	19000	58		290	ug/kg	19200	ND	99	10-128			M-02
<i>Surrogate(s)</i>												
2-Fluorobiphenyl	6990				ug/kg	9620		73	0.1-109			M-02
Nitrobenzene-d5	5620				ug/kg	9620		58	0.1-107			M-02
Terphenyl-d14	10100				ug/kg	9620		105	28-128			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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Project Manager: Robert Hartsock
Work Order(s): 8G06099

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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: 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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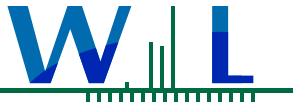
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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC	%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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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			



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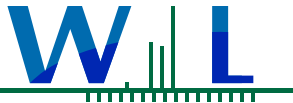
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Quality Control Results

(Continued)

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

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC 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-Dichloropropane	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-Dichloropropane	48.9	0.78		5.0	ug/kg	50.0		98		85-122	
2,2-Dichloropropane	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	



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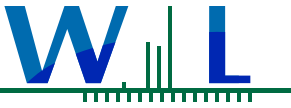
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Quality Control Results

(Continued)

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

Analyte	Result	MDL	LOD	LOQ	Units	Spike Level	Source Result	%REC 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



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Work Order(s): 8G06099

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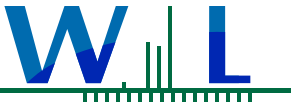
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Quality Control Results

(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	



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Project Manager: Robert Hartssock
Work Order(s): 8G06099

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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 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			



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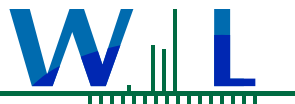
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2001 22nd Street, Suite 100
Bakersfield, CA 93301

Project: McMurtrey, Hartssock & Worth
Project Manager: Robert Hartssock
Work Order(s): 8G06099

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Analyte List

Analyte	CAS Number	TIC	Surrogate
1,1,1,2-Tetrachloroethane	630-20-6		
1,1,1-Trichloroethane	71-55-6		
1,1,2,2-Tetrachloroethane	79-34-5		
1,1,2-Trichloroethane	79-00-5		
1,1-Dichloroethane	75-34-3		
1,1-Dichloroethene	75-35-4		
1,1-Dichloropropene	563-58-6		
1,2,3-Trichlorobenzene	87-61-6		
1,2,3-Trichloropropane	96-18-4		
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-Trimethylbenzene	95-63-6		
1,2-Dibromo-3-chloropropane	96-12-8		
1,2-Dibromoethane (EDB)	106-93-4		
1,2-Dichlorobenzene	95-50-1		
1,2-Dichlorobenzene	95-50-1		
1,2-Dichloroethane	107-06-2		
1,2-Dichloroethane-d4	17060-07-0		✓
1,2-Dichloropropane	78-87-5		
1,2-Diphenylhydrazine/Azobenzene	122-66-7		
1,3,5-Trimethylbenzene	108-67-8		
1,3,5-Trinitrobenzene	99-35-4		
1,3-Dichlorobenzene	541-73-1		
1,3-Dichlorobenzene	541-73-1		
1,3-Dichloropropane	142-28-9		
1,3-Dichloropropene, Total	542-75-6		
1,3-Dinitrobenzene	99-65-0		
1,4-Dichlorobenzene	106-46-7		
1,4-Dichlorobenzene	106-46-7		
1,4-Dioxane	123-91-1		
1,4-Naphthoquinone	130-15-4		
1,4-Phenylenediamine	106-50-3		
1-Methylnaphthalene	90-12-0		
1-Methylnaphthalene	90-12-0		
1-Methylphenanthrene	832-69-9		
1-Naphthylamine	134-32-7		
2,2-Dichloropropane	594-20-7		
2,3,4,6-Tetrachlorophenol	58-90-2		
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-Trichlorophenol	88-06-2		
2,4,6-Trichlorophenol	88-06-2		
2,4-Dichlorophenol	120-83-2		



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Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
2,4-Dichlorophenol	120-83-2		
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-Dinitrotoluene	121-14-2		
2,4-Dinitrotoluene	121-14-2		
2,6-Dichlorophenol	87-65-0		
2,6-Dimethylnaphthalene	581-42-0		
2,6-Dinitrotoluene	606-20-2		
2,6-Dinitrotoluene	606-20-2		
2-Acetylaminofluorene	53-96-3		
2-Butanone	78-93-3		
2-Chloroethyl vinyl ether	110-75-8		
2-Chloronaphthalene	91-58-7		
2-Chloronaphthalene	91-58-7		
2-Chlorophenol	95-57-8		
2-Chlorophenol	95-57-8		
2-Chlorotoluene	95-49-8		
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-Hexanone	591-78-6		
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-Naphthylamine	91-59-8		
2-Nitroaniline	88-74-4		
2-Nitroaniline	88-74-4		
2-Nitrophenol	88-75-5		
2-Nitrophenol	88-75-5		
2-Picoline	109-06-8		
3 & 4-Methylphenol	NA		
3 & 4-Methylphenol	NA		
3,3'- Dimethylbenzidine	119-93-7		
3,3'-Dichlorobenzidine	91-94-1		
3,3'-Dichlorobenzidine	91-94-1		
3-Methylcholanthrene	56-49-5		
3-Nitroaniline	99-09-2		
3-Nitroaniline	99-09-2		
4,4'-DDD	72-54-8		
4,4'-DDE	72-55-9		
4,4'-DDT	50-29-3		



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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-Aminobiphenyl	92-67-1		
4-Bromofluorobenzene	460-00-4		✓
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-Chloroaniline	106-47-8		
4-Chloroaniline	106-47-8		
4-Chlorophenyl phenyl ether	7005-72-3		
4-Chlorophenyl phenyl ether	7005-72-3		
4-Chlorotoluene	106-43-4		
4-Methyl-2-pentanone	108-10-1		
4-Nitroaniline	100-01-6		
4-Nitroaniline	100-01-6		
4-Nitrophenol	100-02-7		
4-Nitrophenol	100-02-7		
4-Nitroquinoline-n-oxide	56-57-5		
5-Nitro-o-toluidine	99-55-8		
7,12-Dimethylbenz (a) anthracene	57-97-6		
a,a-Dimethylphenethylamine	122-09-8		
Acenaphthene	83-32-9		
Acenaphthene	83-32-9		
Acenaphthene	83-32-9		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acenaphthylene	208-96-8		
Acetone	67-64-1		
Acetophenone	98-86-2		
Acrolein	107-02-8		
Acrylamide	79-06-1		
Acrylonitrile	107-13-1		
Aldrin	309-00-2		
alpha-BHC	319-84-6		
Aniline	62-53-3		
Aniline	62-53-3		
Anthracene	120-12-7		
Anthracene	120-12-7		
Anthracene	120-12-7		
Antimony, Total	7440-36-0		
Aramite	140-57-8		
Arsenic, Total	7440-38-2		
Azobenzene/1,2-Diphenylhydrazine	103-33-3		
Azobenzene/1,2-Diphenylhydrazine	103-33-3		
Barium, Total	7440-39-3		
Benzene	71-43-2		



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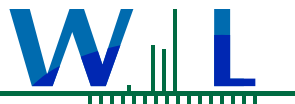
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Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Benzidine	92-87-5		
Benzidine	92-87-5		
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 (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
Benzo (b) fluoranthene	205-99-2		
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 (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		
Benzyl alcohol	100-51-6		
Benzyl alcohol	100-51-6		
Beryllium, Total	7440-41-7		
beta-BHC	319-85-7		
Biphenyl	92-52-4		
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-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		
Bromobenzene	108-86-1		
Bromochloromethane	74-97-5		
Bromodichloromethane	75-27-4		
Bromoform	75-25-2		
Bromomethane	74-83-9		
Butyl benzyl phthalate	85-68-7		
Butyl benzyl phthalate	85-68-7		
Cadmium, Total	7440-43-9		
Carbazole	86-74-8		
Carbon tetrachloride	56-23-5		
Chlorobenzene	108-90-7		
Chlorobenzilate	510-15-6		
Chloroethane	75-00-3		
Chloroform	67-66-3		



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Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Chloromethane	74-87-3		
Chromium, Total	7440-47-3		
Chrysene	218-01-9		
Chrysene	218-01-9		
Chrysene	218-01-9		
cis-1,2-Dichloroethene	156-59-2		
cis-1,3-Dichloropropene	10061-01-5		
Cobalt, Total	7440-48-4		
Copper, Total	7440-50-8		
delta-BHC	319-86-8		
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		
Dibenzofuran	132-64-9		
Dibenzofuran	132-64-9		
Dibromochloromethane	124-48-1		
Dibromofluoromethane	1868-53-7		✓
Dibromomethane	74-95-3		
Dichlorodifluoromethane (Freon 12)	75-71-8		
Dieldrin	60-57-1		
Diethyl phthalate	84-66-2		
Diethyl phthalate	84-66-2		
Dimethoate	60-51-5		
Dimethyl phthalate	131-11-3		
Dimethyl phthalate	131-11-3		
Dimethylaminoazobenzene	60-11-7		
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		
Diphenylamine	122-39-4		
Diphenylamine/N-Nitrosodiphenylamine	122-39-4		
Disulfoton	298-04-4		
Endosulfan I	959-98-8		
Endosulfan II	33213-65-9		
Endosulfan sulfate	1031-07-8		
Endrin	72-20-8		
Endrin aldehyde	7421-93-4		
Ethanol	64-17-5		
Ethyl acetate	141-78-6		
Ethyl methanesulfonate	62-50-0		
Ethylbenzene	100-41-4		
Famphur	52-85-7		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		
Fluoranthene	206-44-0		



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Analyte List

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Analyte	CAS Number	TIC	Surrogate
Fluorene	86-73-7		
Fluorene	86-73-7		
Fluorene	86-73-7		
gamma-BHC (Lindane)	58-89-9		
Heptachlor	76-44-8		
Heptachlor epoxide	1024-57-3		
Hexachlorobenzene	118-74-1		
Hexachlorobenzene	118-74-1		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorobutadiene	87-68-3		
Hexachlorocyclopentadiene	77-47-4		
Hexachlorocyclopentadiene	77-47-4		
Hexachloroethane	67-72-1		
Hexachloroethane	67-72-1		
Hexachlorophene	70-30-4		
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		
Isodrin	465-73-6		
Isophorone	78-59-1		
Isophorone	78-59-1		
Isopropyl alcohol	67-63-0		
Isopropylbenzene	98-82-8		
Isosafrole	120-58-1		
Kepone	143-50-0		
Lead, Total	7439-92-1		
Lithium, Total	7439-93-2		
m,p-Xylene	179601-23-1		
m-Dichlorobenzene	541-73-1		
Methanol	67-56-1		
Methapyrilene	91-80-5		
Methoxychlor	72-43-5		
Methyl methanesulfonate	66-27-3		
Methyl parathion	298-00-0		
Methyl tert-butyl ether (MTBE)	1634-04-4		
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		
n-Butylbenzene	104-51-8		
Nickel, Total	7440-02-0		
Nitrobenzene	98-95-3		
Nitrobenzene	98-95-3		



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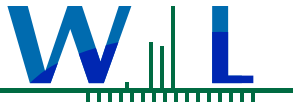
Project: McMurtrey, Hartsock & Worth
Project Manager: Robert Hartsock
Work Order(s): 8G06099

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Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
Nitrobenzene-d5	4165-60-0		✓
N-Nitrosodiethylamine	55-18-5		
N-Nitrosodimethylamine	62-75-9		
N-Nitrosodimethylamine	62-75-9		
N-Nitrosodi-n-butylamine	924-16-3		
N-Nitrosodi-n-propylamine	621-64-7		
N-Nitrosodi-n-propylamine	621-64-7		
N-Nitrosodiphenylamine	86-30-6		
N-Nitrosomethylethylamine	10595-95-6		
N-Nitrosomorpholine	59-89-2		
N-Nitrosopiperidine	100-75-4		
N-Nitrosopyrrolidine	930-55-2		
n-Propylbenzene	103-65-1		
o,o,o-Triethyl phosphorothioate	126-68-1		
o,o-Diethyl o-2-pyrazinylphosphorothioate	297-97-2		
o-Dichlorobenzene	95-50-1		
o-Toluidine	95-53-4		
o-Xylene	95-47-6		
Parathion	56-38-2		
p-Dichlorobenzene	106-46-7		
Pentachlorobenzene	608-93-5		
Pentachloroethane	76-01-7		
Pentachloronitrobenzene (PCNB)	82-68-8		
Pentachlorophenol	87-86-5		
Pentachlorophenol	87-86-5		
Perylene	198-55-0		
Phenacetin	62-44-2		
Phenanthrene	85-01-8		
Phenanthrene	85-01-8		
Phenanthrene	85-01-8		
Phenol	108-95-2		
Phenol	108-95-2		
Phenol-d5	4165-62-2		✓
Phenol-d5	4165-62-2		✓
Phorate	298-02-2		
p-Isopropyltoluene	99-87-6		
Pronamide	23950-58-5		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyrene	129-00-0		
Pyridine	110-86-1		
Pyridine	110-86-1		
Safrole	94-59-7		
sec-Butylbenzene	135-98-8		
Selenium, Total	7782-49-2		



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Analyte List

(Continued)

Analyte	CAS Number	TIC	Surrogate
Silver, Total	7440-22-4		
Strontium, Total	7440-24-6		
Styrene	100-42-5		
Sulfotep	3689-24-5		
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
Terphenyl-d14	1718-51-0		✓
tert-Butylbenzene	98-06-6		
Tetrachloroethene	127-18-4		
Thallium, Total	7440-28-0		
Toluene	108-88-3		
Toluene-d8	2037-26-5		✓
trans-1,2-Dichloroethene	156-60-5		
trans-1,3-Dichloropropene	10061-02-6		
Trichloroethene	79-01-6		
Trichlorofluoromethane	75-69-4		
Vanadium, Total	7440-62-2		
Vinyl chloride	75-01-4		
Zinc, Total	7440-66-6		



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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.
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	✓	