



S.S. PAPADOPULOS & ASSOCIATES, INC.
ENVIRONMENTAL & WATER-RESOURCE CONSULTANTS



June 20, 2017

Charles Hendrickson, Sparton Project Coordinator
U.S. Environmental Protection Agency
Region VI – Federal Facility Section (6PD-F)
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dave Cobrain, Sparton Project Coordinator
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

**Subject: Sparton Technology, Inc: Former Coors Road Plant Remedial Program
Results of 1,4-Dioxane Analyses**

Gentlemen:

In your November 29, 2016 “Approval with Conditions” letter concerning the 2015 Annual Report and addressed to Mr. Ernesto Martinez of Sparton Technology, Inc. (Sparton) you requested that “Sparton analyze samples collected from all groundwater monitoring wells scheduled to be sampled and both treatment systems’ influent and effluent for the presence of 1,4-dioxane using EPA method 8270 (SIM) during its next two sampling events.” Sparton, therefore, submitted groundwater samples collected during the First (February) and Second (May) Quarter sampling events of 2017 and influent and effluent samples collected at the beginning of February and May, 2017 for 1,4-dioxane analyses by the method specified above.

On behalf of Sparton, S.S. Papadopoulos & Associates, Inc. is pleased to submit the attached table which summarized the results of these analyses. Also attached please find copies of the laboratory reports for these analyses.

If you have any questions concerning the report, please contact us.

Sincerely,

S.S. PAPADOPULOS & ASSOCIATES, INC.

Stavros S. Papadopoulos, PhD, PE, NAE
Founder & Senior Principal

Alex Spiliotopoulos, PhD
Associate & Senior Hydrogeologist

cc: Mr. John Kieling, Chief, NMED HWB
Ms. Michelle Hunter, Chief, NMED GWQB
Mr. Brian Salem, NMED HWB
Mr. Steven M. Korwin, Senior Vice President, Quality & Engineering, Sparton Corporation
Mr. Ernesto Martinez, EHS Corporate Manager, Sparton Corporation
Mr. Joe Lerczak, Sparton Corporation
Mr. James B. Harris, Thompson & Knight LLP
Mr. Chuck M. Easterling, OCCAM | EC, Project Coordinator for Sparton



**RESULTS OF 1,4-DIOXANE ANALYSES OF SAMPLES COLLECTED DURING
THE FIRST AND SECOND QUARTERS OF 2017**

Sampling Point	Concentration, µg/L	
	First Quarter	Second Quarter
CW-1 Influent	8.61	5.98
CW-1 Effluent	7.42	5.71
CW-2 Influent	8.67	4.96
CW-2 Effluent	5.31	5.19
MW-17	4.91	4.83
MW-52R	1.27	< 1.0
MW-57D	< 1.0	< 1.0
MW-62	< 1.0	< 1.0
MW-65	< 1.0	< 1.0
MW-66	< 1.0	< 1.0
MW-67	NS*	< 1.0
MW-68	< 1.0	< 1.0
MW-69	3.18	3.82
MW-71R	< 1.0	< 1.0
MW-74	6.98	5.38
MW-75	4.30	6.11
MW-76	7.13	6.87
MW-77	1.52	< 1.0
MW-78	5.89	5.84
MW-79	NS	< 1.0
MW-80	4.64	6.22

* NS: Not Sampled (well not scheduled for sampling during the 1st Quarter)

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 170209024
Project Name: 1702342

Analytical Results Report

Sample Number	170209024-001	Sampling Date	2/7/2017	Date/Time Received	2/9/2017 12:05 PM
Client Sample ID	1702342-001D / MW-17	Sampling Time	10:20 AM	Extraction Date	2/13/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	4.91	ug/L	1	2/22/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170209024-001	2,4,6-Tribromophenol	EPA 8270CMOD	98.0	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	94.0	58-127
	2-Fluorophenol	EPA 8270CMOD	87.0	45-119
	Nitrobenzene-d5	EPA 8270CMOD	91.6	58-120
	Phenol-d5	EPA 8270CMOD	89.8	52-115
	Terphenyl-d14	EPA 8270CMOD	87.2	22-133

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 170209024
Project Name: 1702342

Analytical Results Report

Sample Number	170209024-002	Sampling Date	2/7/2017	Date/Time Received	2/9/2017 12:05 PM
Client Sample ID	1702342-002C / MW-62	Sampling Time	11:50 AM	Extraction Date	2/13/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	2/22/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170209024-002	2,4,6-Tribromophenol	EPA 8270CMOD	91.2	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	87.2	58-127
	2-Fluorophenol	EPA 8270CMOD	77.2	45-119
	Nitrobenzene-d5	EPA 8270CMOD	84.8	58-120
	Phenol-d5	EPA 8270CMOD	81.4	52-115
	Terphenyl-d14	EPA 8270CMOD	82.0	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170209024
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702342
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170209024-003 **Sampling Date** 2/6/2017 **Date/Time Received** 2/9/2017 12:05 PM
Client Sample ID 1702342-003C / MW-80 **Sampling Time** 12:20 PM **Extraction Date** 2/13/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	4.64	ug/L	1	2/22/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170209024-003	2,4,6-Tribromophenol	EPA 8270CMOD	90.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	84.0	58-127
	2-Fluorophenol	EPA 8270CMOD	70.8	45-119
	Nitrobenzene-d5	EPA 8270CMOD	79.2	58-120
	Phenol-d5	EPA 8270CMOD	68.4	52-115
	Terphenyl-d14	EPA 8270CMOD	71.2	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170209024
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702342
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	7.79	ug/L	10	77.9	50-130	2/13/2017	2/22/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	6.61	ug/L	10	66.1	16.4	0-25	2/13/2017	2/22/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	2/13/2017	2/22/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA-ID00013; AZ-0701; FL(NELAP):E87893; ID-ID00013; MT-CERT0028; NM: ID00013; NV-ID00013; OR-ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA-WA00169; ID-WA00169; WA:C585; MT-Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170214039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702562
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170214039-001 **Sampling Date** 2/8/2017 **Date/Time Received** 2/14/2017 12:00 PM
Client Sample ID 1702562-001C / MW-57D **Sampling Time** 10:10 AM **Extraction Date** 2/14/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	2/22/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170214039-001	2,4,6-Tribromophenol	EPA 8270CMOD	87.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	81.2	58-127
	2-Fluorophenol	EPA 8270CMOD	71.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	80.4	58-120
	Phenol-d5	EPA 8270CMOD	79.0	52-115
	Terphenyl-d14	EPA 8270CMOD	95.2	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170214039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702562
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170214039-002 **Sampling Date** 2/8/2017 **Date/Time Received** 2/14/2017 12:00 PM
Client Sample ID 1702562-002C / MW-66 **Sampling Time** 9:30 AM **Extraction Date** 2/14/2017
Matrix Water
Comments

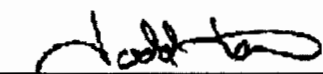
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	2/22/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number 170214039-002

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270CMOD	86.2	43-120
2-Fluorobiphenyl	EPA 8270CMOD	79.6	58-127
2-Fluorophenol	EPA 8270CMOD	72.4	45-119
Nitrobenzene-d5	EPA 8270CMOD	80.8	58-120
Phenol-d5	EPA 8270CMOD	76.6	52-115
Terphenyl-d14	EPA 8270CMOD	90.4	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 170214039
Project Name: 1702562

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	7.79	ug/L	10	77.9	50-130	2/13/2017	2/22/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	6.61	ug/L	10	66.1	16.4	0-25	2/13/2017	2/22/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	2/13/2017	2/22/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221033
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702796
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170221033-001	Sampling Date	2/9/2017	Date/Time Received	2/21/2017 1:00 PM
Client Sample ID	1702796-001C / MW-52R	Sampling Time	3:50 PM	Extraction Date	2/21/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	1.27	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221033-001	2,4,6-Tribromophenol	EPA 8270CMOD	87.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	82.4	58-127
	2-Fluorophenol	EPA 8270CMOD	78.8	45-119
	Nitrobenzene-d5	EPA 8270CMOD	83.2	58-120
	Phenol-d5	EPA 8270CMOD	77.6	52-115
	Terphenyl-d14	EPA 8270CMOD	80.8	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221033
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702796
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170221033-002 **Sampling Date** 2/10/2017 **Date/Time Received** 2/21/2017 1:00 PM
Client Sample ID 1702796-002C / MW-65 **Sampling Time** 1:55 PM **Extraction Date** 2/21/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221033-002	2,4,6-Tribromophenol	EPA 8270CMOD	87.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	82.8	58-127
	2-Fluorophenol	EPA 8270CMOD	79.0	45-119
	Nitrobenzene-d5	EPA 8270CMOD	82.4	58-120
	Phenol-d5	EPA 8270CMOD	73.4	52-115
	Terphenyl-d14	EPA 8270CMOD	78.8	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221033
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702796
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170221033-003	Sampling Date	2/13/2017	Date/Time Received	2/21/2017 1:00 PM
Client Sample ID	1702796-003C / MW-68	Sampling Time	3:22 PM	Extraction Date	2/21/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221033-003	2,4,6-Tribromophenol	EPA 8270CMOD	87.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	86.4	58-127
	2-Fluorophenol	EPA 8270CMOD	69.2	45-119
	Nitrobenzene-d5	EPA 8270CMOD	87.6	58-120
	Phenol-d5	EPA 8270CMOD	63.2	52-115
	Terphenyl-d14	EPA 8270CMOD	88.8	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221033
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702796
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170221033-004	Sampling Date	2/13/2017	Date/Time Received	2/21/2017 1:00 PM
Client Sample ID	1702796-004C / MW-69	Sampling Time	6:30 PM	Extraction Date	2/21/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	3.18	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	170221033-004		
Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270CMOD	83.2	43-120
2-Fluorobiphenyl	EPA 8270CMOD	88.0	58-127
2-Fluorophenol	EPA 8270CMOD	76.2	45-119
Nitrobenzene-d5	EPA 8270CMOD	87.6	58-120
Phenol-d5	EPA 8270CMOD	71.6	52-115
Terphenyl-d14	EPA 8270CMOD	82.4	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221033
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702796
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

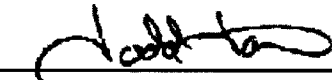
Sample Number	170221033-005	Sampling Date	2/8/2017	Date/Time Received	2/21/2017 1:00 PM
Client Sample ID	1702796-005C / MW-71R	Sampling Time	12:40 PM	Extraction Date	2/21/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221033-005	2,4,6-Tribromophenol	EPA 8270CMOD	84.8	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	85.6	58-127
	2-Fluorophenol	EPA 8270CMOD	79.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	86.8	58-120
	Phenol-d5	EPA 8270CMOD	78.2	52-115
	Terphenyl-d14	EPA 8270CMOD	85.2	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:CERT0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221033
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702796
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	8.42	ug/L	10	84.2	50-130	2/21/2017	2/23/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	8.60	ug/L	10	86.0	2.1	0-25	2/21/2017	2/23/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	2/21/2017	2/23/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221037
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702799
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170221037-001	Sampling Date	2/16/2017	Date/Time Received	2/21/2017 12:25 PM
Client Sample ID	1702799-001C / MW-74	Sampling Time	11:00 AM	Extraction Date	2/21/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	6.98	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	170221037-001		
Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270CMOD	87.6	43-120
2-Fluorobiphenyl	EPA 8270CMOD	88.4	58-127
2-Fluorophenol	EPA 8270CMOD	80.0	45-119
Nitrobenzene-d5	EPA 8270CMOD	89.2	58-120
Phenol-d5	EPA 8270CMOD	82.6	52-115
Terphenyl-d14	EPA 8270CMOD	90.4	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221037
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702799
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170221037-002	Sampling Date	2/16/2017	Date/Time Received	2/21/2017 12:25 PM
Client Sample ID	1702799-002C / MW-75	Sampling Time	2:40 PM	Extraction Date	2/21/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	4.30	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	170221037-002		
Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270CMOD	85.6	43-120
2-Fluorobiphenyl	EPA 8270CMOD	82.8	58-127
2-Fluorophenol	EPA 8270CMOD	75.2	45-119
Nitrobenzene-d5	EPA 8270CMOD	80.0	58-120
Phenol-d5	EPA 8270CMOD	80.6	52-115
Terphenyl-d14	EPA 8270CMOD	86.8	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221037
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702799
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170221037-003 **Sampling Date** 2/16/2017 **Date/Time Received** 2/21/2017 12:25 PM
Client Sample ID 1702799-003C / MW-76 **Sampling Time** 1:50 PM **Extraction Date** 2/21/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	7.13	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221037-003	2,4,6-Tribromophenol	EPA 8270CMOD	91.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	88.0	58-127
	2-Fluorophenol	EPA 8270CMOD	86.8	45-119
	Nitrobenzene-d5	EPA 8270CMOD	90.4	58-120
	Phenol-d5	EPA 8270CMOD	91.0	52-115
	Terphenyl-d14	EPA 8270CMOD	86.0	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221037
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702799
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170221037-004	Sampling Date	2/15/2017	Date/Time Received	2/21/2017 12:25 PM
Client Sample ID	1702799-004C / MW-77	Sampling Time	4:48 PM	Extraction Date	2/21/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	1.52	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221037-004	2,4,6-Tribromophenol	EPA 8270CMOD	74.8	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	80.8	58-127
	2-Fluorophenol	EPA 8270CMOD	62.0	45-119
	Nitrobenzene-d5	EPA 8270CMOD	74.8	58-120
	Phenol-d5	EPA 8270CMOD	64.2	52-115
	Terphenyl-d14	EPA 8270CMOD	89.2	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221037
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702799
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

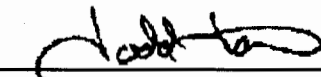
Sample Number	170221037-005	Sampling Date	2/15/2017	Date/Time Received	2/21/2017 12:25 PM
Client Sample ID	1702799-005D / MW-78	Sampling Time	5:30 PM	Extraction Date	2/21/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	5.89	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221037-005	2,4,6-Tribromophenol	EPA 8270CMOD	85.2	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	80.8	58-127
	2-Fluorophenol	EPA 8270CMOD	75.2	45-119
	Nitrobenzene-d5	EPA 8270CMOD	80.8	58-120
	Phenol-d5	EPA 8270CMOD	78.0	52-115
	Terphenyl-d14	EPA 8270CMOD	84.0	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Wednesday, March 01, 2017

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221037
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702799
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	8.42	ug/L	10	84.2	50-130	2/21/2017	2/23/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	8.60	ug/L	10	86.0	2.1	0-25	2/21/2017	2/23/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	2/21/2017	2/23/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT: CERT0028; NM: ID00013; NV: ID00013; OR: ID200001-002; WA: C595
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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221034
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702798
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170221034-001	Sampling Date	2/13/2017	Date/Time Received	2/21/2017 12:20 PM
Client Sample ID	1702798-001A / CW-1 INFLUENT			Extraction Date	2/21/2017
Matrix	Water	Sampling Time	7:20 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	8.61	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221034-001	2,4,6-Tribromophenol	EPA 8270CMOD	87.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	87.2	58-127
	2-Fluorophenol	EPA 8270CMOD	81.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	88.0	58-120
	Phenol-d5	EPA 8270CMOD	82.4	52-115
	Terphenyl-d14	EPA 8270CMOD	88.4	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221034
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702798
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170221034-002 **Sampling Date** 2/13/2017 **Date/Time Received** 2/21/2017 12:20 PM
Client Sample ID 1702798-002A / CW-1 EFFLUENT **Extraction Date** 2/21/2017
Matrix Water **Sampling Time** 7:25 AM
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	7.42	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221034-002	2,4,6-Tribromophenol	EPA 8270CMOD	86.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	83.2	58-127
	2-Fluorophenol	EPA 8270CMOD	79.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	81.6	58-120
	Phenol-d5	EPA 8270CMOD	78.8	52-115
	Terphenyl-d14	EPA 8270CMOD	82.0	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221034
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702798
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170221034-003	Sampling Date	2/13/2017	Date/Time Received	2/21/2017 12:20 PM
Client Sample ID	1702798-003A / CW-2 INFLUENT	Extraction Date	2/21/2017		
Matrix	Water	Sampling Time	11:25 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	8.67	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221034-003	2,4,6-Tribromophenol	EPA 8270CMOD	91.8	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	88.0	58-127
	2-Fluorophenol	EPA 8270CMOD	74.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	82.0	58-120
	Phenol-d5	EPA 8270CMOD	80.6	52-115
	Terphenyl-d14	EPA 8270CMOD	92.8	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221034
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702798
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

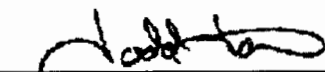
Sample Number	170221034-004	Sampling Date	2/13/2017	Date/Time Received	2/21/2017 12:20 PM
Client Sample ID	1702798-004A / CW-2 EFFLUENT			Extraction Date	2/21/2017
Matrix	Water	Sampling Time	11:25 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	5.31	ug/L	1	2/23/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170221034-004	2,4,6-Tribromophenol	EPA 8270CMOD	78.0	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	79.6	58-127
	2-Fluorophenol	EPA 8270CMOD	67.2	45-119
	Nitrobenzene-d5	EPA 8270CMOD	76.8	58-120
	Phenol-d5	EPA 8270CMOD	68.4	52-115
	Terphenyl-d14	EPA 8270CMOD	86.4	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170221034
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1702798
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	8.42	ug/L	10	84.2	50-130	2/21/2017	2/23/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	8.60	ug/L	10	86.0	2.1	0-25	2/21/2017	2/23/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	2/21/2017	2/23/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:Cert0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170531070
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705D80
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

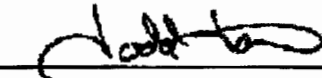
Sample Number 170531070-001 **Sampling Date** 5/26/2017 **Date/Time Received** 5/31/2017 12:30 PM
Client Sample ID 1705D80-001C / MW-62 **Sampling Time** 8:15 AM **Extraction Date** 6/1/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	6/8/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170531070-001	2,4,6-Tribromophenol	EPA 8270CMOD	62.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	89.6	58-127
	2-Fluorophenol	EPA 8270CMOD	62.8	45-119
	Nitrobenzene-d5	EPA 8270CMOD	71.2	58-120
	Phenol-d5	EPA 8270CMOD	60.4	52-115
	Terphenyl-d14	EPA 8270CMOD	99.2	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Tuesday, June 13, 2017

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 170531070
Project Name: 1705D80

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	6.98	ug/L	10	69.8	50-130	6/1/2017	6/8/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	7.53	ug/L	10	75.3	7.6	0-25	6/1/2017	6/8/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	6/1/2017	6/8/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170509039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705354
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170509039-001	Sampling Date	5/5/2017	Date/Time Received	5/9/2017 10:37 AM
Client Sample ID	1705354-001D / MW-78	Sampling Time	1:40 PM	Extraction Date	5/8/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	5.84	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	170509039-001		
Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270CMOD	82.6	43-120
2-Fluorobiphenyl	EPA 8270CMOD	93.2	58-127
2-Fluorophenol	EPA 8270CMOD	86.6	45-119
Nitrobenzene-d5	EPA 8270CMOD	88.0	58-120
Phenol-d5	EPA 8270CMOD	90.4	52-115
Terphenyl-d14	EPA 8270CMOD	90.8	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170509039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705354
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170509039-002	Sampling Date	5/5/2017	Date/Time Received	5/9/2017 10:37 AM
Client Sample ID	1705354-003C / MW-65	Sampling Time	9:40 AM	Extraction Date	5/8/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170509039-002	2,4,6-Tribromophenol	EPA 8270CMOD	74.2	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	85.6	58-127
	2-Fluorophenol	EPA 8270CMOD	74.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	82.4	58-120
	Phenol-d5	EPA 8270CMOD	78.0	52-115
	Terphenyl-d14	EPA 8270CMOD	87.2	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170509039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705354
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170509039-003	Sampling Date	5/4/2017	Date/Time Received	5/9/2017 10:37 AM
Client Sample ID	1705354-004C / MW-52R	Sampling Time	12:40 PM	Extraction Date	5/8/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	170509039-003		
Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270CMOD	76.8	43-120
2-Fluorobiphenyl	EPA 8270CMOD	88.0	58-127
2-Fluorophenol	EPA 8270CMOD	86.2	45-119
Nitrobenzene-d5	EPA 8270CMOD	80.4	58-120
Phenol-d5	EPA 8270CMOD	89.6	52-115
Terphenyl-d14	EPA 8270CMOD	88.0	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170509039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705354
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170509039-004	Sampling Date	5/4/2017	Date/Time Received	5/9/2017 10:37 AM
Client Sample ID	1705354-005C / MW-71R	Sampling Time	3:00 PM	Extraction Date	5/8/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170509039-004	2,4,6-Tribromophenol	EPA 8270CMOD	68.2	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	79.2	58-127
	2-Fluorophenol	EPA 8270CMOD	69.8	45-119
	Nitrobenzene-d5	EPA 8270CMOD	74.8	58-120
	Phenol-d5	EPA 8270CMOD	73.8	52-115
	Terphenyl-d14	EPA 8270CMOD	77.6	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170509039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705354
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170509039-005	Sampling Date	5/3/2017	Date/Time Received	5/9/2017 10:37 AM
Client Sample ID	1705354-006C / MW-68	Sampling Time	9:55 AM	Extraction Date	5/8/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170509039-005	2,4,6-Tribromophenol	EPA 8270CMOD	79.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	92.8	58-127
	2-Fluorophenol	EPA 8270CMOD	86.0	45-119
	Nitrobenzene-d5	EPA 8270CMOD	86.8	58-120
	Phenol-d5	EPA 8270CMOD	89.8	52-115
	Terphenyl-d14	EPA 8270CMOD	93.2	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170509039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705354
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170509039-006 **Sampling Date** 5/3/2017 **Date/Time Received** 5/9/2017 10:37 AM
Client Sample ID 1705354-007C / MW-69 **Sampling Time** 1:10 PM **Extraction Date** 5/8/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	3.82	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170509039-006	2,4,6-Tribromophenol	EPA 8270CMOD	70.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	96.0	58-127
	2-Fluorophenol	EPA 8270CMOD	75.2	45-119
	Nitrobenzene-d5	EPA 8270CMOD	88.8	58-120
	Phenol-d5	EPA 8270CMOD	78.0	52-115
	Terphenyl-d14	EPA 8270CMOD	98.0	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170509039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705354
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

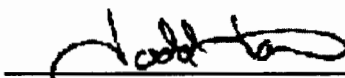
Sample Number	170509039-007	Sampling Date	5/3/2017	Date/Time Received	5/9/2017 10:37 AM
Client Sample ID	1705354-008C / MW-79	Sampling Time	3:08 PM	Extraction Date	5/8/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170509039-007	2,4,6-Tribromophenol	EPA 8270CMOD	89.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	91.6	58-127
	2-Fluorophenol	EPA 8270CMOD	90.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	86.4	58-120
	Phenol-d5	EPA 8270CMOD	95.2	52-115
	Terphenyl-d14	EPA 8270CMOD	92.0	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170509039
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705354
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	6.07	ug/L	10	60.7	50-130	5/8/2017	5/16/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	6.86	ug/L	10	68.6	12.2	0-25	5/8/2017	5/16/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	5/8/2017	5/16/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170512006
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705553
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170512006-001	Sampling Date	5/10/2017	Date/Time Received	5/12/2017 11:05 AM
Client Sample ID	1705553-001C / MW-80	Sampling Time	9:40 AM	Extraction Date	5/15/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	6.22	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170512006-001	2,4,6-Tribromophenol	EPA 8270CMOD	82.8	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	78.8	58-127
	2-Fluorophenol	EPA 8270CMOD	74.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	74.4	58-120
	Phenol-d5	EPA 8270CMOD	83.8	52-115
	Terphenyl-d14	EPA 8270CMOD	78.8	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170512006
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705553
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170512006-002	Sampling Date	5/9/2017	Date/Time Received	5/12/2017 11:05 AM
Client Sample ID	1705553-003C / MW-67	Sampling Time	12:43 PM	Extraction Date	5/15/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170512006-002	2,4,6-Tribromophenol	EPA 8270CMOD	95.2	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	82.4	58-127
	2-Fluorophenol	EPA 8270CMOD	78.0	45-119
	Nitrobenzene-d5	EPA 8270CMOD	79.6	58-120
	Phenol-d5	EPA 8270CMOD	84.6	52-115
	Terphenyl-d14	EPA 8270CMOD	85.6	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170512006
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705553
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170512006-003	Sampling Date	5/9/2017	Date/Time Received	5/12/2017 11:05 AM
Client Sample ID	1705553-004C / MW-77	Sampling Time	1:49 PM	Extraction Date	5/15/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170512006-003	2,4,6-Tribromophenol	EPA 8270CMOD	88.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	88.0	58-127
	2-Fluorophenol	EPA 8270CMOD	79.0	45-119
	Nitrobenzene-d5	EPA 8270CMOD	83.2	58-120
	Phenol-d5	EPA 8270CMOD	89.0	52-115
	Terphenyl-d14	EPA 8270CMOD	94.0	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170512006
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705553
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170512006-004	Sampling Date	5/8/2017	Date/Time Received	5/12/2017 11:05 AM
Client Sample ID	1705553-005C / MW-66	Sampling Time	11:55 AM	Extraction Date	5/15/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170512006-004	2,4,6-Tribromophenol	EPA 8270CMOD	78.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	84.0	58-127
	2-Fluorophenol	EPA 8270CMOD	75.0	45-119
	Nitrobenzene-d5	EPA 8270CMOD	78.4	58-120
	Phenol-d5	EPA 8270CMOD	81.0	52-115
	Terphenyl-d14	EPA 8270CMOD	85.6	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170512006
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705553
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

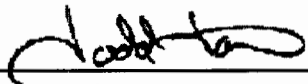
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Client Sample ID 1705553-006C / MW-57D **Sampling Time** 12:46 PM **Extraction Date** 5/15/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	1	5/17/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170512006-005	2,4,6-Tribromophenol	EPA 8270CMOD	82.6	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	83.6	58-127
	2-Fluorophenol	EPA 8270CMOD	73.6	45-119
	Nitrobenzene-d5	EPA 8270CMOD	79.6	58-120
	Phenol-d5	EPA 8270CMOD	82.2	52-115
	Terphenyl-d14	EPA 8270CMOD	91.6	22-133

Authorized Signature


Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170512006
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705553
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	7.86	ug/L	10	78.6	50-130	5/15/2017	5/16/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	7.65	ug/L	10	76.5	2.7	0-25	5/15/2017	5/16/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	5/15/2017	5/16/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170517028
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705782
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170517028-001	Sampling Date	5/15/2017	Date/Time Received	5/17/2017 11:00 AM
Client Sample ID	1705782-001D / MW-17	Sampling Time	2:45 PM	Extraction Date	5/22/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	4.83	ug/L	1	6/8/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170517028-001	2,4,6-Tribromophenol	EPA 8270CMOD	59.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	88.8	58-127
	2-Fluorophenol	EPA 8270CMOD	73.2	45-119
	Nitrobenzene-d5	EPA 8270CMOD	70.0	58-120
	Phenol-d5	EPA 8270CMOD	65.8	52-115
	Terphenyl-d14	EPA 8270CMOD	105.2	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170517028
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705782
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170517028-002 **Sampling Date** 5/15/2017 **Date/Time Received** 5/17/2017 11:00 AM
Client Sample ID 1705782-002C / MW-76 **Sampling Time** 11:05 AM **Extraction Date** 5/22/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	6.87	ug/L	1	6/8/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170517028-002	2,4,6-Tribromophenol	EPA 8270CMOD	59.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	90.4	58-127
	2-Fluorophenol	EPA 8270CMOD	78.8	45-119
	Nitrobenzene-d5	EPA 8270CMOD	72.0	58-120
	Phenol-d5	EPA 8270CMOD	67.8	52-115
	Terphenyl-d14	EPA 8270CMOD	106.0	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170517028
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705782
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170517028-003	Sampling Date	5/15/2017	Date/Time Received	5/17/2017 11:00 AM
Client Sample ID	1705782-003C / MW-75	Sampling Time	9:50 AM	Extraction Date	5/22/2017
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	6.11	ug/L	1	6/8/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170517028-003	2,4,6-Tribromophenol	EPA 8270CMOD	54.2	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	74.0	58-127
	2-Fluorophenol	EPA 8270CMOD	67.0	45-119
	Nitrobenzene-d5	EPA 8270CMOD	61.6	58-120
	Phenol-d5	EPA 8270CMOD	59.4	52-115
	Terphenyl-d14	EPA 8270CMOD	88.4	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 170517028
Project Name: 1705782

Analytical Results Report

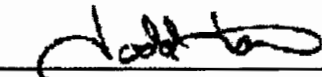
Sample Number 170517028-004 **Sampling Date** 5/15/2017 **Date/Time Received** 5/17/2017 11:00 AM
Client Sample ID 1705782-004C / MW-74 **Sampling Time** 12:25 PM **Extraction Date** 5/22/2017
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	5.38	ug/L	1	6/8/2017	HSW	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170517028-004	2,4,6-Tribromophenol	EPA 8270CMOD	49.8	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	76.4	58-127
	2-Fluorophenol	EPA 8270CMOD	62.2	45-119
	Nitrobenzene-d5	EPA 8270CMOD	58.0	58-120
	Phenol-d5	EPA 8270CMOD	57.6	52-115
	Terphenyl-d14	EPA 8270CMOD	97.2	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C595; MT:Cert0095; FL(NELAP): E871099

Monday, June 12, 2017

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170517028
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705782
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	7.96	ug/L	10	79.6	50-130	5/22/2017	6/8/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	7.67	ug/L	10	76.7	3.7	0-25	5/22/2017	6/8/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	5/22/2017	6/8/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87093; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170505024
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705229
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170505024-001 **Sampling Date** 5/1/2017 **Date/Time Received** 5/5/2017 10:35 AM
Client Sample ID 1705229-001A / CW-1 INFLUENT **Extraction Date** 5/8/2017
Matrix Water **Sampling Time** 9:55 AM
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	5.98	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170505024-001	2,4,6-Tribromophenol	EPA 8270CMOD	77.8	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	84.8	58-127
	2-Fluorophenol	EPA 8270CMOD	68.4	45-119
	Nitrobenzene-d5	EPA 8270CMOD	83.6	58-120
	Phenol-d5	EPA 8270CMOD	70.2	52-115
	Terphenyl-d14	EPA 8270CMOD	78.8	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170505024
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705229
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number	170505024-002	Sampling Date	5/1/2017	Date/Time Received	5/5/2017 10:35 AM
Client Sample ID	1705229-002A / CW-1 EFFLUENT			Extraction Date	5/8/2017
Matrix	Water	Sampling Time	9:57 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	5.71	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170505024-002	2,4,6-Tribromophenol	EPA 8270CMOD	83.4	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	77.2	58-127
	2-Fluorophenol	EPA 8270CMOD	72.8	45-119
	Nitrobenzene-d5	EPA 8270CMOD	74.0	58-120
	Phenol-d5	EPA 8270CMOD	71.4	52-115
	Terphenyl-d14	EPA 8270CMOD	72.0	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170505024
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705229
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 170505024-003 **Sampling Date** 5/1/2017 **Date/Time Received** 5/5/2017 10:35 AM
Client Sample ID 1705229-003A / CW-2 INFLUENT **Extraction Date** 5/8/2017
Matrix Water **Sampling Time** 9:40 AM
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	4.96	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number 170505024-003

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270CMOD	72.2	43-120
2-Fluorobiphenyl	EPA 8270CMOD	69.6	58-127
2-Fluorophenol	EPA 8270CMOD	61.2	45-119
Nitrobenzene-d5	EPA 8270CMOD	66.8	58-120
Phenol-d5	EPA 8270CMOD	61.2	52-115
Terphenyl-d14	EPA 8270CMOD	69.2	22-133

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 170505024
Project Name: 1705229

Analytical Results Report

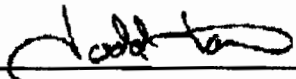
Sample Number	170505024-004	Sampling Date	5/1/2017	Date/Time Received	5/5/2017 10:35 AM
Client Sample ID	1705229-004A / CW-2 EFFLUENT	Extraction Date	5/8/2017		
Matrix	Water	Sampling Time	9:42 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	5.19	ug/L	1	5/16/2017	TGT	EPA 8270CMOD	

Surrogate Data

Sample Number	Surrogate Standard	Method	Percent Recovery	Control Limits
170505024-004	2,4,6-Tribromophenol	EPA 8270CMOD	68.2	43-120
	2-Fluorobiphenyl	EPA 8270CMOD	71.6	58-127
	2-Fluorophenol	EPA 8270CMOD	72.2	45-119
	Nitrobenzene-d5	EPA 8270CMOD	67.6	58-120
	Phenol-d5	EPA 8270CMOD	75.8	52-115
	Terphenyl-d14	EPA 8270CMOD	74.4	22-133

Authorized Signature


Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Thursday, May 18, 2017

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Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 170505024
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1705229
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,4-Dioxane	6.07	ug/L	10	60.7	50-130	5/8/2017	5/16/2017

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
1,4-Dioxane	6.86	ug/L	10	68.6	12.2	0-25	5/8/2017	5/16/2017

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dioxane	ND	ug/L	1	5/8/2017	5/16/2017

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013; NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099