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Sample Analysis Report

November, 2013

Analyst Initials: SEOP
Date: 12-16-13

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments	Qualifier(s)
Residential Wells								
D2								
3161 Dexter Rd-11-13-13-11:55-1	nd	1.0					Brighton	O
Extraction Wells								
C3								
DOLPH-11-21-13-11:37-1	78	5.0						D
TW-1-11-27-13-10:40-1	150	1.0						
TW-10-11-27-13-10:55-1	260	10.0						D
TW-14-11-27-13-11:05-1	19	1.0						
TW-20-11-21-13-11:50-1	890	50.0						D
TW-3-11-27-13-04:41-1	nd	1.0						
TW-6-11-12-13-10:30-1	57	10.0						D
D2								
LB-1-11-21-13-09:31-3	330	50.0					Brighton	O, D
LB-1-11-21-13-09:31-1	510	10.0						D
TW-21-11-04-13-10:17-1	130	5.0						D
TW-5-11-04-13-10:22-1	730	50.0						D
TW-9-11-21-13-12:00-1	770	50.0						D
E								
TW-11-11-04-13-10:23-1	210	10.0						D

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments	Qualifier(s)
TW-12-11-27-13-10:25-1	27	1.0						
TW-17-11-27-13-11:08-1	740	10.0						D
TW-18-11-04-13-10:32-1	300	10.0						D
TW-19-11-21-13-08:33-1	840	25.0						D
Marshy								
PW-1-11-21-13-10:03-3	630	100.0					Brighton	O, D
PW-1-11-21-13-10:03-1	1000	10.0						D
SW								
TW-22-11-21-13-11:43-1	570	50.0						D
TW-8-11-21-13-13:10-1	700	25.0						D
Monitoring Wells								
C3								
MW-1 Replacement-11-22-13-12:03-1	1900	100.0						D
MW-105s-11-25-13-10:40-1	630	10.0						D
MW-125-11-20-13-13:40-1	170	20.0					Brighton	O, D
MW-125-11-20-13-13:40-2	230	10.0						D
MW-127s-11-20-13-12:55-1	nd	1.0					Brighton	O
MW-128s-11-20-13-11:35-1	nd	1.0						
MW-128s-11-20-13-11:28-3	nd	1.0					Brighton	O
MW-2d-11-12-13-10:55-1	15	1.0					Brighton	O
MW-2s-11-12-13-11:05-1	2	1.0					Brighton	O
MW-37-11-20-13-13:01-1	140	50.0					Brighton	O, D
MW-37-11-20-13-15:01-2	310	10.0						D
D0								
A2 Cleaning Supply-11-06-13-11:50-1	75	1.0						
MW-93-11-11-13-09:27-1	3	1.0					Brighton	O

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments	Qualifier(s)
D2								
175 Jackson Plaza-11-22-13-10:50-1	1100	100.0						D
373 Pinewood Shallow-11-19-13-10:20-1	230	50.0					Brighton	O, D
373 Pinewood Shallow-11-19-13-10:20-2	420	10.0						D
456 Clarendon-11-25-13-13:10-1	840	50.0						D
465 Dupont-11-13-13-14:00-1	1300	50.0						D
593 Allison-11-14-13-14:40-1	170	50.0					Brighton	O, D
593 Allison-11-14-13-14:40-2	340	10.0						D
HZ-S-11-27-13-12:00-1	1000	10.0						D
MW-107-11-15-13-14:00-1	450	50.0					Brighton	O, D
MW-113-11-18-13-13:35-1	33	5.0					Brighton	O, D
MW-117-11-08-13-12:00-1	nd	1.0						
MW-118-11-19-13-09:35-1	64	5.0						D
MW-118-11-19-13-09:35-3	43	5.0					Brighton	O, D
MW-124s-11-07-13-13:10-1	nd	1.0						
MW-129i-11-21-13-10:30-1	nd	1.0						
MW-129i-11-21-13-10:30-3	nd	1.0					Brighton	O
MW-129s-11-07-13-09:31-1	nd	1.0						
MW-47d-11-08-13-12:45-1	nd	1.0						
MW-47s-11-08-13-12:25-1	nd	1.0						
MW-4d-11-22-13-11:15-1	2100	100.0						D
MW-54d-11-13-13-10:45-1	45	5.0					Brighton	O, D
MW-54s-11-13-13-11:00-1	nd	1.0					Brighton	O
MW-55-11-13-13-12:30-1	4	1.0					Brighton	O
MW-77-11-13-13-14:45-1	1700	50.0						D
MW-BE-1d-11-18-13-14:10-1	280	10.0					Brighton	O, D
MW-BE-1s-11-18-13-14:30-1	540	100.0					Brighton	O, D

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments	Qualifier(s)
MW-KD-1d-11-14-13-13:45-1	100	10.0					Brighton	O, D
MW-KD-1s-11-14-13-13:15-1	29	5.0					Brighton	O, D
E								
MW-101-11-19-13-12:10-1	140	20.0					Brighton	O, D
MW-103d-11-08-13-14:00-1	7	1.0						
MW-103s-11-08-13-14:15-1	67	1.0						
MW-104-11-15-13-10:40-1	4	1.0						
MW-104-11-15-13-10:40-3	2	1.0					Brighton	O
MW-105d-11-25-13-10:25-1	340	10.0						D
MW-106s-11-19-13-11:20-1	110	50.0					Brighton	O, D
MW-106s-11-19-13-1	300	5.0						D
MW-108d-11-26-13-11:00-1	1100	50.0						D
MW-108s-11-26-13-10:05-1	720	10.0						D
MW-110-11-15-13-11:10-1	23	5.0					Brighton	O, D
MW-112d-11-08-13-10:50-1	nd	1.0						
MW-112i-11-08-13-11:30-1	7	1.0						
MW-119-11-15-13-11:55-1	45	5.0					Brighton	O, D
MW-124d-11-07-13-13:57-1	nd	1.0						
MW-127d-11-20-13-12:40-1	nd	1.0						
MW-127d-11-20-13-12:40-3	nd	1.0					Brighton	O
MW-128d-11-20-13-11:15-1	nd	1.0						
MW-128d-11-20-13-11:15-3	nd	1.0					Brighton	O
MW-129d-11-07-13-10:20-1	nd	1.0						
MW-135-11-21-13-11:42-1	nd	1.0						
MW-135-11-21-13-11:42-3	nd	1.0					Brighton	O
MW-65s-11-11-13-10:20-1	13	1.0						
MW-68-11-18-13-10:20-1	nd	1.0					Brighton	O

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments	Qualifier(s)
MW-71-11-26-13-12:00-1	2100	100.0						D
MW-76s-11-12-13-13:30-1	280	5.0						D
MW-76s-11-12-13-13:30-3	150	20.0					Brighton	O, D
MW-79d-11-15-13-09:40-1	23	5.0					Brighton	O, D
MW-79s-11-15-13-10:05-1	280	50.0					Brighton	O, D
MW-79s-11-15-13-10:05-2	460	10.0						D
MW-81-11-25-13-14:30-1	410	10.0						D
MW-84s-11-12-13-14:10-1	420	10.0						D
MW-84s-11-12-13-14:10-3	230	20.0					Brighton	O, D
MW-85-11-25-13-09:15-1	1100	50.0						D
MW-88-11-25-13-13:50-1	220	10.0						D
MW-90-11-12-13-11:35-1	5	1.0					Brighton	O
MW-91-11-18-13-12:10-1	110	10.0					Brighton	O, D
MW-98d-11-18-13-11:25-1	7	1.0					Brighton	O
Saginaw Forest Cabin #1-11-20-13-10:00-1	19	1.0						
Saginaw Forest Cabin #1-11-20-13-10:00-3	9	1.0					Brighton	O
Saginaw Forest Cabin #2-11-20-13-08:05-1	2	1.0						
Saginaw Forest Cabin #2-11-20-13-08:05-3	nd	1.0					Brighton	O
Marshy								
NMW-1s-11-19-13-13:20-1	1200	100.0					Brighton	O, D
NMW-2s-11-19-13-13:30-1	1600	200.0					Brighton	O, D
NMW-2s-11-19-13-13:30-2	2700	25						D
SH								
MW-5d-11-26-13-14:02-1	19000	500.0						D
SW								
MW-46-11-11-13-11:58-1	190	5.0						D

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments	Qualifier(s)
MW-52s-11-11-13-13:40-1	580	50.0					Brighton	O, D
MW-57-11-11-13-10:45-1	3	1.0					Brighton	O
MW-58d-11-20-13-14:35-1	18	1.0						
MW-58d-11-20-13-14:35-3	10	1.0					Brighton	O
MW-58s-11-11-13-12:25-1	97	10.0					Brighton	O, D
MW-58s-11-20-13-14:15-1	110	20.0					Brighton	O, D
MW-58s-11-20-13-14:15-2	180	1.0						
MW-78-11-20-13-13:20-1	12	1.0					Brighton	O
TW-4-11-11-13-11:35-1	78	1.0						
Surface Water								
Not Applicable								
HC/HR-11-01-13-08:55-1			nd	2.0				
HC/HR-11-04-13-07:30-1			nd	2.0				
HC/HR-11-05-13-07:40-1			nd	2.0				
HC/HR-11-06-13-07:40-1			nd	2.0				
HC/HR-11-07-13-07:45-1			nd	2.0				
HC/HR-11-08-13-07:50-1			nd	2.0				
HC/HR-11-11-13-07:55-1			nd	2.0				
HC/HR-11-12-13-07:55-1			nd	2.0				
HC/HR-11-13-13-07:55-1			nd	2.0				
HC/HR-11-14-13-07:20-1			nd	2.0				
HC/HR-11-15-13-08:05-1			nd	2.0				
HC/HR-11-18-13-08:00-1			nd	2.0				
HC/HR-11-19-13-08:05-1			nd	2.0				
HC/HR-11-20-13-07:30-1			nd	2.0				
HC/HR-11-21-13-08:05-1			nd	2.0				
HC/HR-11-22-13-08:10-1			nd	2.0				

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments	Qualifier(s)
HC/HR-11-25-13-07:55-1			nd	2.0				
HC/HR-11-26-13-08:20-1			nd	2.0				
HC/HR-11-27-13-08:15-1			nd	2.0				
Treatment System								
OUTFALL-11-03-13-3	3	1.0					Brighton	O
OUTFALL-11-03-13-2			8	5.0				
OUTFALL-11-04-13-2			9	5.0				
OUTFALL-11-04-13-3	3	1.0					Brighton	O
OUTFALL-11-05-13-2			7	5.0				
OUTFALL-11-05-13-3	3	1.0					Brighton	O
OUTFALL-11-06-13-2			6	5.0				
OUTFALL-11-06-13-3	3	1.0					Brighton	O
OUTFALL-11-07-13-3	nd	1.0					Brighton	O
OUTFALL-11-07-13-2			8	5.0				
OUTFALL-11-10-13-2			9	5.0				
OUTFALL-11-10-13-1	5	1.0						
OUTFALL-11-11-13-1	4	1.0						
OUTFALL-11-11-13-2			8	5.0				
OUTFALL-11-12-13-1	4	1.0						
OUTFALL-11-12-13-2			7	5.0				
OUTFALL-11-13-13-2			8	5.0				
OUTFALL-11-13-13-1	5	1.0						
OUTFALL-11-14-13-3	3	1.0					Brighton	O
OUTFALL-11-14-13-2			8	5.0				
OUTFALL-11-14-13-1	5	1.0						
OUTFALL-11-17-13-2			7	5.0				
OUTFALL-11-17-13-3	4	1.0					Brighton	O

Sample Name - Date/Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments	Qualifier(s)
OUTFALL-11-18-13-2			6	5.0				
OUTFALL-11-18-13-3	3	1.0					Brighton	O
OUTFALL-11-19-13-3	3	1.0					Brighton	O
OUTFALL-11-19-13-2			7	5.0				
OUTFALL-11-20-13-1	6	1.0						
OUTFALL-11-20-13-2			6	5.0				
OUTFALL-11-21-13-2			8	5.0				
OUTFALL-11-21-13-1	6	1.0						
OUTFALL-11-24-13-1	6	1.0						
OUTFALL-11-24-13-2			nd	5.0				
OUTFALL-11-25-13-1	7	1.0						
OUTFALL-11-25-13-2			6	5.0				
OUTFALL-11-26-13-1	6	1.0						
OUTFALL-11-26-13-2			8	5.0				
OUTFALL-11-27-13-1	6	1.0						
OUTFALL-11-27-13-2			6	5.0				
OUTFALL-11-28-13-1	7	1.0						
OUTFALL-11-28-13-2			8	5.0				
Red Pond-11-04-13-07:46-1	300	20.0					Brighton	D, O
Red Pond-11-11-13-08:44-1	500	10.0						D
Red Pond-11-18-13-08:45-1	480	10.0						D
Red Pond-11-25-13-08:55-1	550	10.0						D

Qualifier Code: **Qualifier Description**

D	Analyte value quantified from a dilution, reporting limit is raised to reflect dilution
O	Samples sent to outside laboratory, Brighton Laboratories

Note:

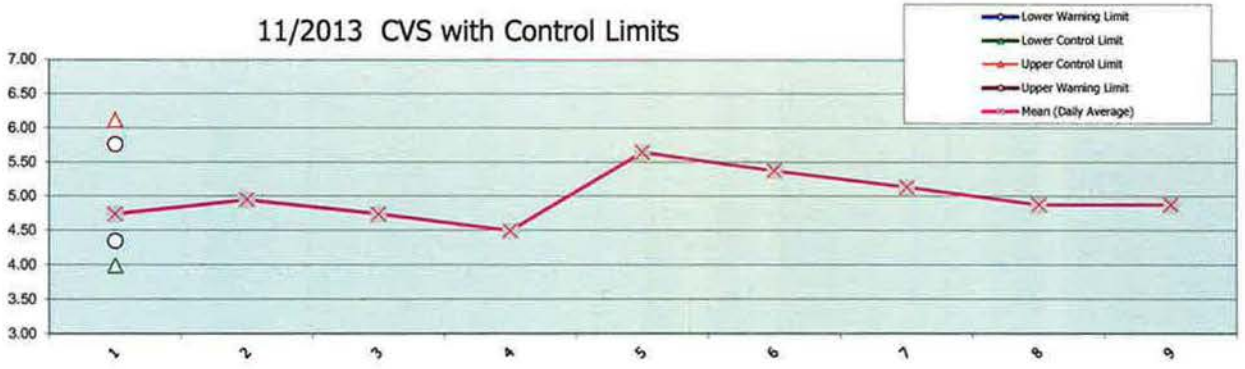
In November, groundwater samples were sent to an outside laboratory, Brighton Analytical for analysis. In addition, some groundwater samples were analyzed concurrently at Pall's in-house laboratory.
Differences in results were observed between the two laboratories. Upon contacting the outside laboratory, it was theorized that the additional dilutions they performed could have caused these differences. Regardless, Pall has the obligations to report all results.

Control Chart for 11/2013 CVS

Analyst: SEOP 12-11-13

GC/MS Data: #2
Report Date: 12/9/2013
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 11/1/2013
End date: 11/30/2013
Desired level: 100%

Date	CVS Values				Mean (Daily Average)	Sample Mean (All Individual Data)	Daily Standard Deviation	Daily Average Sample Standard Deviation	Lower Control Limit	Upper Control Limit	Lower Warning Limit	Upper Warning Limit
	CVS 1	CVS 2	CVS 3	CVS 4								
11/11/2013	4.54	4.92			4.73	5.06	0.27	0.35	4.00	6.12	4.35	5.76
11/12/2013	5.02	4.86			4.94	5.06	0.11					
11/13/2013	4.73				4.73	5.06	na					
11/14/2013	4.34	4.64			4.49	5.06	0.21					
11/23/2013	5.55	5.73			5.64	5.06	0.13					
11/25/2013	5.14	5.51	5.38	5.45	5.37	5.06	0.16					
11/27/2013	4.53	5.50	4.89	5.60	5.13	5.06	0.51					
11/27/2013	4.87				4.87	5.06	na					
11/27/2013	4.87				4.87	5.06	na					

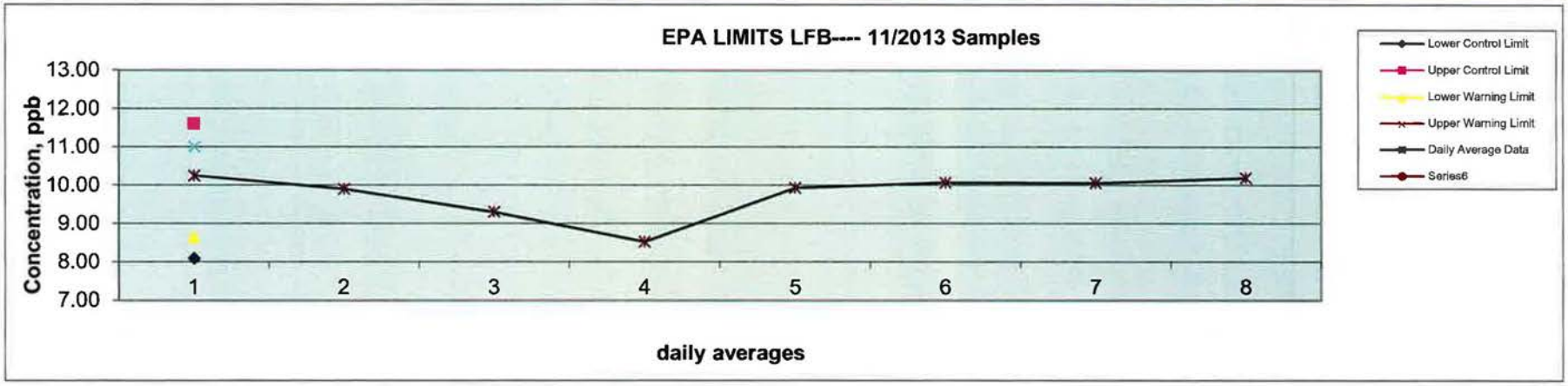


Control Chart for 11/2013 LFB

Analyst: SEOP 12-11-13

GC/MS Data: #2
Report Date: 12/9/2013
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 11/1/2013
End date: 11/30/2013
Desired level: 100%

Date	LFB Values						Mean (Daily Average)	Sample Mean (All Individual Data)	Daily Standard Deviation	Daily Average Sample Standard Deviation	Lower Control Limit	Upper Control Limit	Lower Warning Limit	Upper Warning Limit
	LFB 1	LFB 2	LFB 3	LFB 4	LFB 5	LFB 6								
11/11/2013	10.10	10.40					10.25	9.85	0.21	0.59	8.09	11.60	8.68	11.02
11/12/2013	9.45	9.25	11.00				9.90	9.85	0.96					
11/13/2013	9.64	8.96					9.30	9.85	0.48					
11/14/2013	8.29	8.12	9.16				8.52	9.85	0.56					
11/23/2013	11.00	8.50	10.30	9.65	10.20		9.93	9.85	0.93					
11/25/2013	10.02	10.20	10.20	10.2	9.7		10.07	9.85	0.21					
11/27/2013	11.04	9.8	10.7	9.8	9.84	9.19	10.06	9.85	0.67					
11/27/2013	10.33	10.30	10.21	9.92			10.19	9.85	0.19					

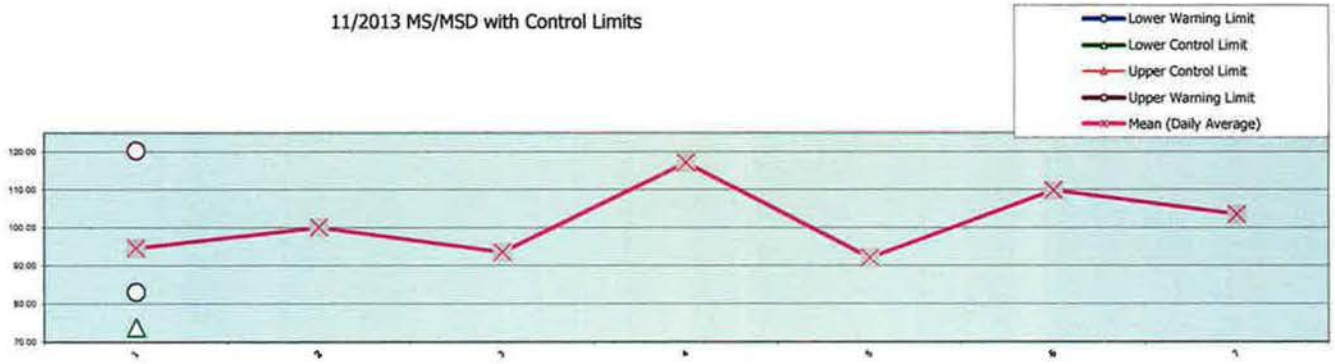


Control Chart for 11/2013 MS/MSD %Recoveries

Analyst: SEUP 12-11-13

GC/MS Data: #2
Report Date: 12/9/2013
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 11/1/2013
End date: 11/30/2013
Desired level: 100%

Date	Matrix Spike % Recovery Values							Mean (Daily Average)	Sample Mean (All Individual Data)	Daily Standard Deviation	Daily Average Sample Standard Deviation	Lower Control Limit	Upper Control Limit	Lower Warning Limit	Upper Warning Limit	Mean RPD (Individual Data)
	MS 1	MSD 1	MS 2	MSD 2	Replicate Ave.	Std. Dev.	# data pts									
11/11/2013	93	96	na	na	na	na	na	94.53	101.74	10.05	9.30	73.85	129.63	83.15	120.33	101.74
11/12/2013	100	na	na	na	4.23	0.01	2	100.00								
11/13/2013	94	93	na	na	4.08	0.15	2	93.48								
11/14/2013	117	na	na	na	5.37	0.16	2	117.00								
11/23/2013	98	86	na	na	6.56	0.62	2	91.95								
11/25/2013	103	115	101	120	5.76	0.43	4	109.75								
11/27/2013	109	108	93	na	5.77	0.44	2	103.40								

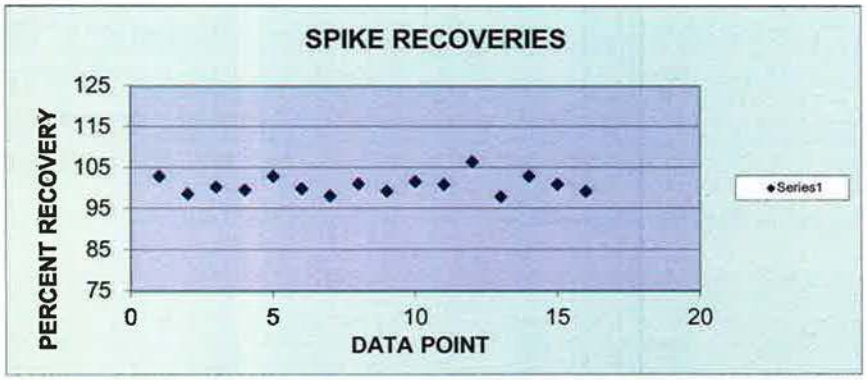


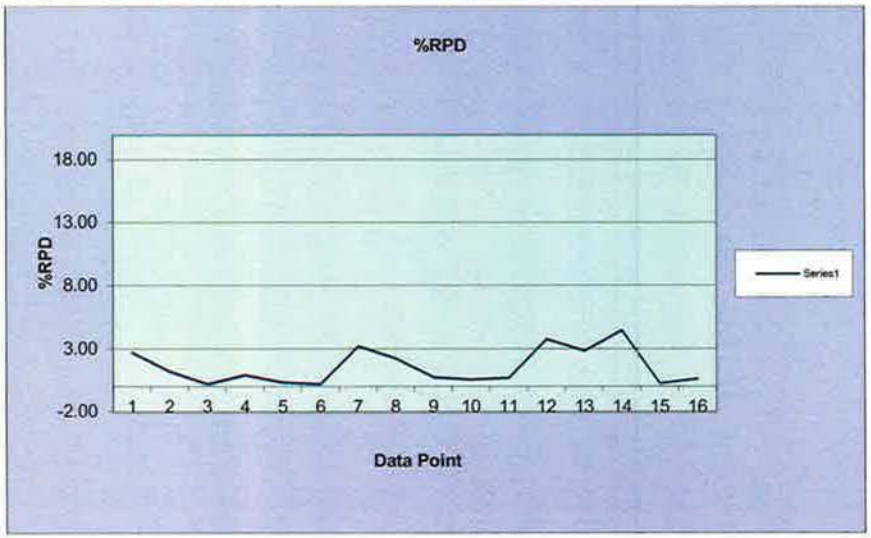
Control Chart for 11/2013 MS/MSD & Repeat %Recoveries

Analyst: SEOP 12-11-13

IC: Metrohm
Report Date: 12/9/2013
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: Bromate
Start date: 11/1/2013
End date: 10/30/2013
Desired level: 100%

	MS Recoveries and Replicate Recoveries							
Analysis Date	**Spike 1 ---- % Rec**	**Spike 2 ----- % Rec**	**Ave. Spike Recovery (75-125%)**	**%RPD Spike Recovery (0-20%**	**Std. Dev. Spikes**	**Ave. Sample Replicates**	**Std. Dev. Sample Replicates**	**n=**
11/1/2013	101	105	103	2.75	2.53	na	na	n
11/4/2013	98	99	99	1.22	0.99	1.56	0.03	2
11/5/2013	101	100	100	0.20	0.21	1.84	0.05	2
11/7/2013	99	100	100	0.92	0.74	1.44	0.08	2
11/9/2013	102	103	103	0.34	0.57	na	na	na
11/11/2013	100	100	100	0.22	0.21	1.75	0.03	2
11/12/2013	96	100	98	3.26	2.83	1.57	0.01	2
11/18/2013	100	103	101	2.26	1.84	1.40	0.00	2
11/18/2013	100	99	99	0.74	0.60	na	na	na
11/19/2013	101	102	102	0.57	0.71	1.22	0.09	2
11/20/2013	102	101	101	0.70	0.71	1.33	0.05	2
11/21/2013	109	104	107	3.80	3.18	1.20	0.01	2
11/22/2013	96	100	98	2.86	2.33	1.59	0.01	2
11/25/2013	101	106	103	4.50	3.61	0.95	0.15	2
11/26/2013	101	101	101	0.27	0.02	1.12	0.06	2
11/27/2013	100	99	99	0.62	0.57	1.57	0.28	2



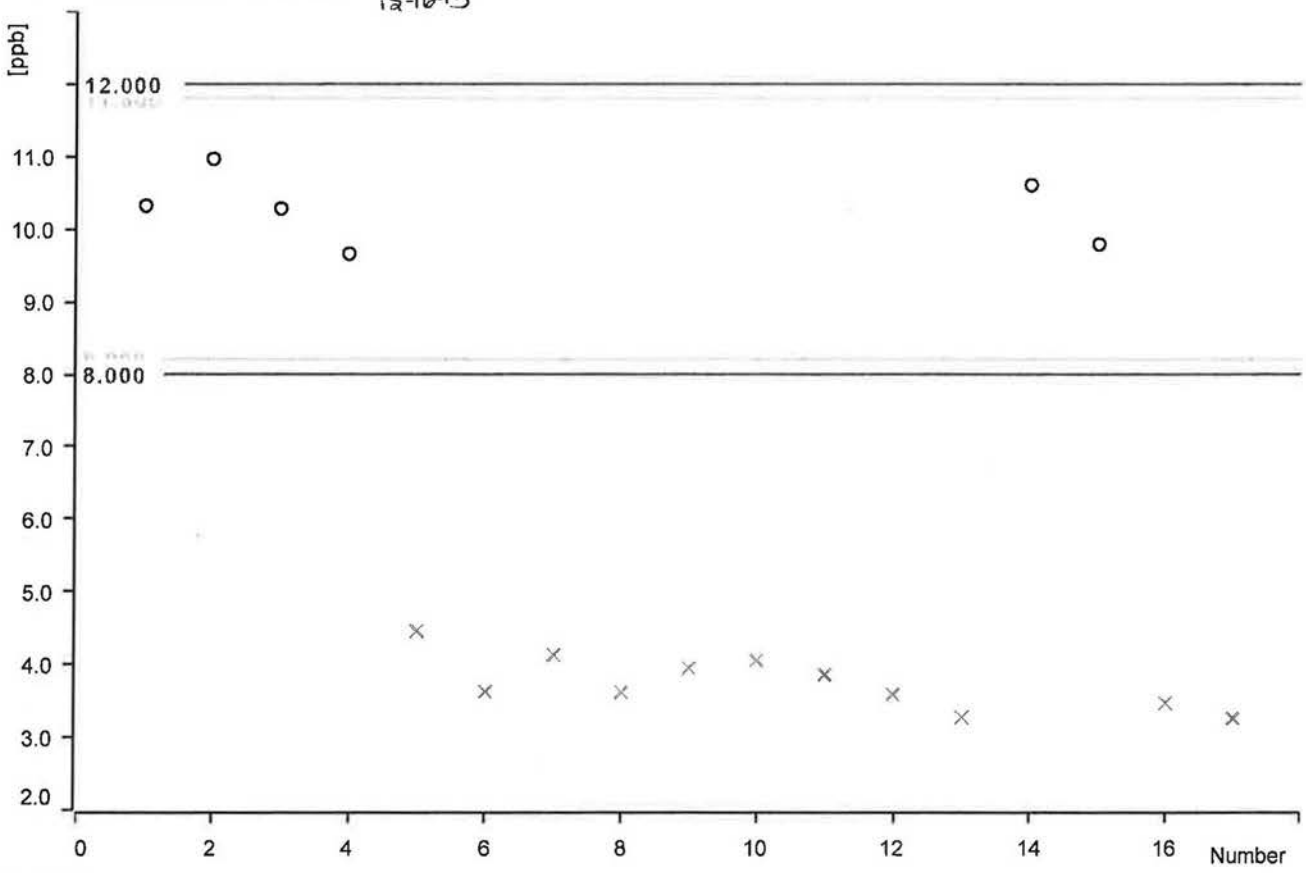


Control chart

SEOP 12-16-13

Comment

10PPB BROMATE ~~qcs~~ ECCS/CCCS SEOP 12-16-13



Statistics

Mean value:	10.271 ppb	Absolute standard deviation:	0.491 ppb
Minimum:	9.658 ppb	Relative standard deviation:	4.785 %
Maximum:	10.967 ppb	Number of determinations:	6

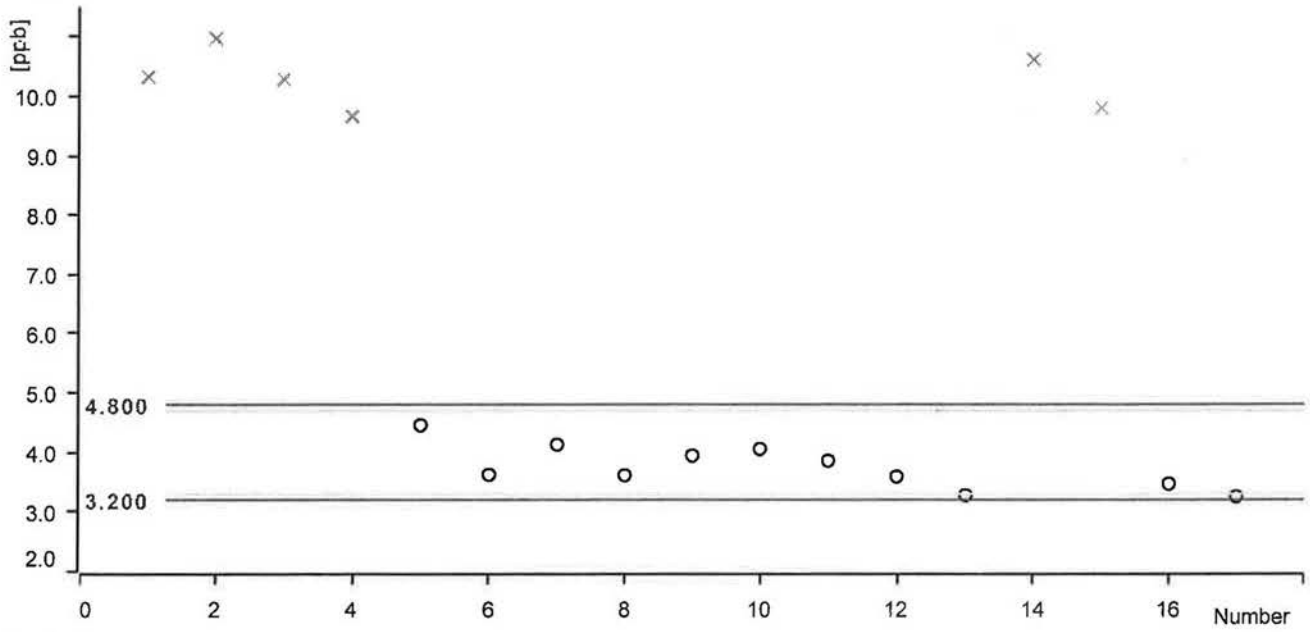
	Date	Number	Ident	Sample type	Method	10PPB BROMATE qcs	Statistics
1	2013-11-01 16:59:39 UTC-4	1	ECCS/CCCS	Sample	10252013 300.1	10.322 ppb	on
2	2013-11-04 19:27:18 UTC-5	2	ECCS/CCCS	Sample	10252013 300.1	10.967 ppb	on
3	2013-11-05 17:44:48 UTC-5	3	ECCS/CCCS	Sample	10252013 300.1	10.282 ppb	on
4	2013-11-07 18:57:29 UTC-5	4	ECCS/CCCS	Sample	10252013 300.1	9.658 ppb	on
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	2013-11-25 17:22:59 UTC-5	14	ECCS/CCCS	Sample	11082013 300.1	10.607 ppb	on
15	2013-11-26 16:07:58 UTC-5	15	ECCS/CCCS	Sample	11082013 300.1	9.790 ppb	on
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Control chart

SEQP 12-16-13

Comment

Bromate 4 PPB concentration ECCS/CCCS



Statistics

Mean value:	3.751 ppb	Absolute standard deviation:	0.373 ppb
Minimum:	3.257 ppb	Relative standard deviation:	9.942 %
Maximum:	4.455 ppb	Number of determinations:	11

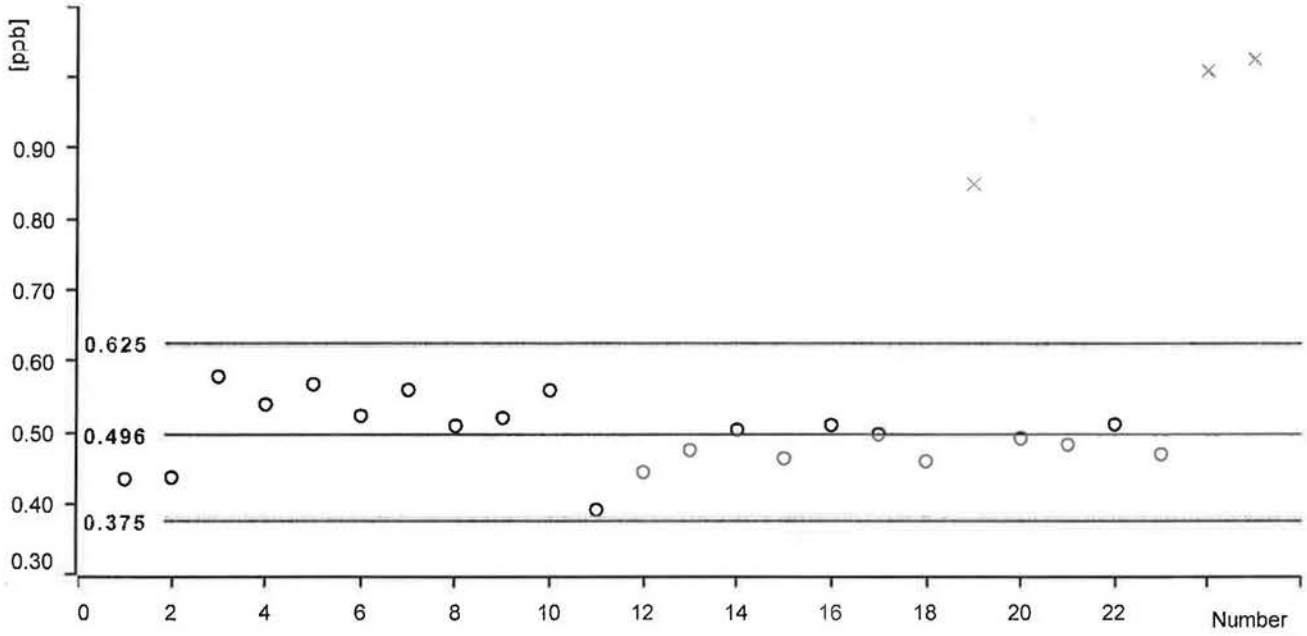
	Date	Number	Ident	Sample type	Method	Bromate 4 PPB concentration	Statistics
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	2013-11-09 23:19:53 UTC-5	5	ECCS/CCCS	Sample	11082013 300.1	4.455 ppb	on
6	2013-11-11 16:38:28 UTC-5	6	ECCS/CCCS	Sample	11082013 300.1	3.622 ppb	on
7	2013-11-12 22:14:55 UTC-5	7	ECCS/CCCS	Sample	11082013 300.1	4.129 ppb	on
8	2013-11-15 15:36:30 UTC-5	8	ECCS/CCCS	Sample	11082013 300.1	3.614 ppb	on
9	2013-11-19 03:38:32 UTC-5	9	ECCS/CCCS	Sample	11082013 300.1	3.945 ppb	on
10	2013-11-19 16:25:16 UTC-5	10	ECCS/CCCS	Sample	11082013 300.1	4.054 ppb	on
11	2013-11-20 14:39:35 UTC-5	11	ECCS/CCCS	Sample	11082013 300.1	3.856 ppb	on
12	2013-11-21 20:55:24 UTC-5	12	ECCS/CCCS	Sample	11082013 300.1	3.589 ppb	on
13	2013-11-22 14:48:12 UTC-5	13	ECCS/CCCS	Sample	11082013 300.1	3.224 ppb	on
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	2013-11-26 18:47:37 UTC-5	16	ECCS/CCCS	Sample	11082013 300.1	3.471 ppb	on
17	2013-11-27 21:23:56 UTC-5	17	ECCS/CCCS	Sample	11082013 300.1	3.257 ppb	on

Control chart

BEOP 12-16-13

Comment

ppb Bromate Concentration ICCS



Statistics

Mean value:	0.496 ppb	Absolute standard deviation:	0.048 ppb
Minimum:	0.391 ppb	Relative standard deviation:	9.686 %
Maximum:	0.578 ppb	Number of determinations:	22

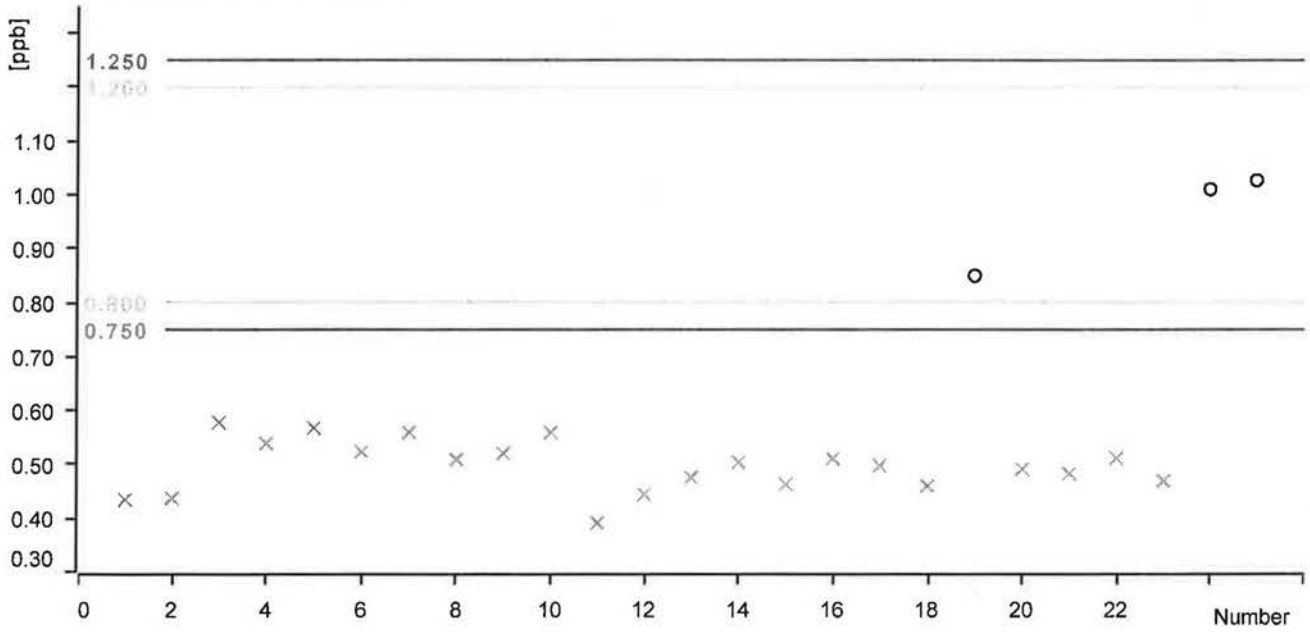
	Date	Number	Ident	Sample type	Method	ppb Bromate Concentration ICCS	Statistics
1	2013-11-01 11:06:57 UTC-4	1	ICCS/LFB	Sample	10252013 300.1	0.434 ppb	on
2	2013-11-04 10:31:51 UTC-5	2	ICCS/LFB	Sample	10252013 300.1	0.436 ppb	on
3	2013-11-04 13:01:11 UTC-5	3	ICCS/LFB	Sample	10252013 300.1	0.578 ppb	on
4	2013-11-05 09:47:55 UTC-5	4	ICCS/LFB	Sample	10252013 300.1	0.539 ppb	on
5	2013-11-05 10:27:39 UTC-5	5	ICCS/LFB	Sample	10252013 300.1	0.567 ppb	on
6	2013-11-06 09:34:06 UTC-5	6	ICCS/LFB	Sample	10252013 300.1	0.523 ppb	on
7	2013-11-07 07:41:42 UTC-5	7	ICCS/LFB	Sample	10252013 300.1	0.559 ppb	on
8	2013-11-07 09:01:13 UTC-5	8	ICCS/LFB	Sample	10252013 300.1	0.509 ppb	on
9	2013-11-08 08:50:47 UTC-5	9	ICCS/LFB	Sample	10252013 300.1	0.520 ppb	on
10	2013-11-11 07:56:44 UTC-5	10	ICCS/LFB	Sample	11082013 300.1	0.559 ppb	on
11	2013-11-12 09:00:09 UTC-5	11	ICCS/LFB	Sample	11082013 300.1	0.391 ppb	on
12	2013-11-12 09:39:53 UTC-5	12	ICCS/LFB	Sample	11082013 300.1	0.444 ppb	on
13	2013-11-13 08:48:20 UTC-5	13	ICCS/LFB	Sample	11082013 300.1	0.475 ppb	on
14	2013-11-15 14:17:01 UTC-5	14	ICCS/LFB	Sample	11082013 300.1	0.503 ppb	on
15	2013-11-18 11:54:19 UTC-5	15	ICCS/LFB	Sample	11082013 300.1	0.463 ppb	on
16	2013-11-19 09:45:56 UTC-5	16	ICCS/LFB	Sample	11082013 300.1	0.510 ppb	on
17	2013-11-19 10:28:04 UTC-5	17	ICCS/LFB	Sample	11082013 300.1	0.497 ppb	on
18	2013-11-20 08:04:06 UTC-5	18	ICCS/LFB	Sample	11082013 300.1	0.459 ppb	on
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	2013-11-21 14:39:56 UTC-5	20	ICCS/LFB	Sample	11082013 300.1	0.491 ppb	on
21	2013-11-22 09:26:17 UTC-5	21	ICCS/LFB	Sample	11082013 300.1	0.482 ppb	on
22	2013-11-25 10:22:51 UTC-5	22	ICCS/LFB	Sample	11082013 300.1	0.511 ppb	on
23	2013-11-26 08:39:03 UTC-5	23	ICCS/LFB	Sample	11082013 300.1	0.469 ppb	on
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Control chart

3EOP 12-16-13

Comment

ppb Bromate Concentration ICCS



Statistics

Mean value:	0.962 ppb	Absolute standard deviation:	0.098 ppb
Minimum:	0.850 ppb	Relative standard deviation:	10.144 %
Maximum:	1.026 ppb	Number of determinations:	3

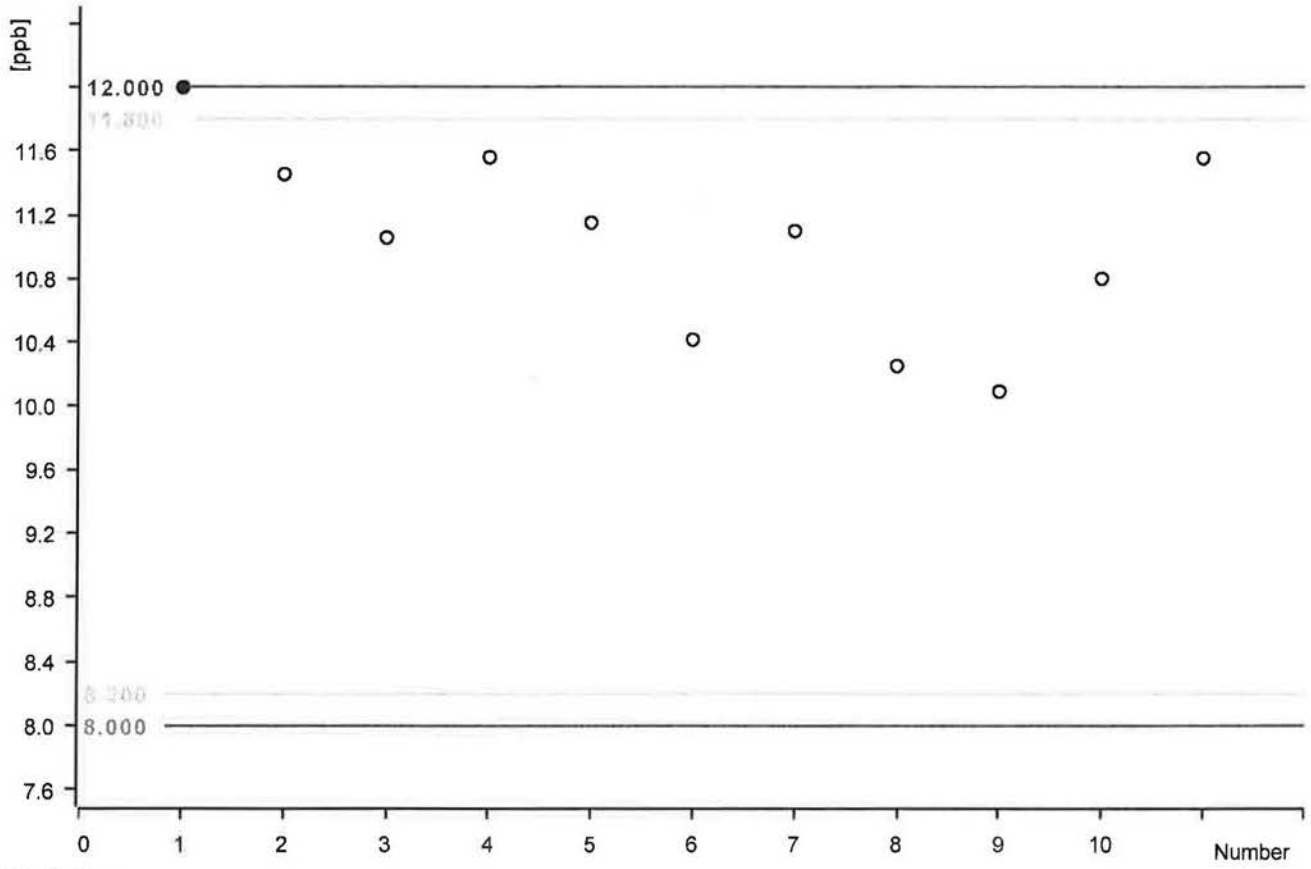
	Date	Number	Ident	Sample type	Method	ppb Bromate Concentration ICCS	Statistics
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	2013-11-21 11:44:24 UTC-5	19	ICCS/LFB	Sample	11082013 300.1	0.850 ppb	on
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	2013-11-27 13:20:14 UTC-5	24	ICCS/LFB	Sample	11082013 300.1	1.010 ppb	on
25	2013-11-27 14:44:11 UTC-5	25	ICCS/LFB	Sample	11082013 300.1	1.026 ppb	on

Control chart

SEOP 12-16-13

Comment

10PPB BROMATE qcs



Statistics

Mean value:	11.038 ppb	Absolute standard deviation:	0.601 ppb
Minimum:	10.089 ppb	Relative standard deviation:	5.445 %
Maximum:	11.996 ppb	Number of determinations:	11

	Date	Number	Ident	Sample type	Method	10PPB BROMATE qcs	Statistics
1	2013-11-04 20:46:45 UTC-5	1	QCS	Sample	10252013 300.1	11.996 ppb	on
2	2013-11-05 19:04:15 UTC-5	2	QCS	Sample	10252013 300.1	11.453 ppb	on
3	2013-11-07 20:16:58 UTC-5	3	QCS	Sample	10252013 300.1	11.055 ppb	on
4	2013-11-12 23:34:22 UTC-5	4	QCS	Sample	11082013 300.1	11.559 ppb	on
5	2013-11-13 19:40:17 UTC-5	5	QCS	Sample	11082013 300.1	11.148 ppb	on
6	2013-11-19 04:58:21 UTC-5	6	QCS	Sample	11082013 300.1	10.415 ppb	on
7	2013-11-19 17:45:06 UTC-5	7	QCS	Sample	11082013 300.1	11.096 ppb	on
8	2013-11-20 15:59:23 UTC-5	8	QCS	Sample	11082013 300.1	10.248 ppb	on
9	2013-11-21 22:15:19 UTC-5	9	QCS	Sample	11082013 300.1	10.089 ppb	on
10	2013-11-22 17:27:57 UTC-5	10	QCS	Sample	11082013 300.1	10.799 ppb	on
11	2013-11-26 17:27:49 UTC-5	11	QCS	Sample	11082013 300.1	11.554 ppb	on

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

Sample Date: 11/3/2013
Submit Date: 11/4/2013
Report Date: 11/4/2013

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

BA Report Number: **27062**
BA Sample ID: **BZ02783**

Project Name: **November Samples**
Project Number: **PO#4501154970**
Sample ID: **Outfall**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**3**	ug/L	1	EPA 1624(SIM)	CW	11/4/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/4/13

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

Sample Date: 11/4/2013
Submit Date: 11/4/2013
Report Date: 11/8/2013

BA Report Number: **27062**
BA Sample ID: **BZ02782**

Project Name: **November Samples**
Project Number: **PO#4501154970**
Sample ID: **Red Pond**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**300**	ug/L	20	EPA 1624(SIM)	CW	11/4/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/8/13

Elevated dl due to sample matrix.

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

Sample Date: 11/04/13 ~~11/5/2013~~ SEOP
Submit Date: 11/5/2013
Report Date: 11/5/2013

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

BA Report Number: **27086**
BA Sample ID: **BZ02913**

Project Name: **November Samples**
Project Number: **PO#4501154970**
Sample ID: **Outfall**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**3** ✓ Emeied	ug/L	1	EPA 1624(SIM)	CW	11/5/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: Colleen Kpolski
Date: 11/5/13

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

Sample Date: 11/5/2013
Submit Date: 11/6/2013
Report Date: 11/6/2013

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

BA Report Number: **27106**
BA Sample ID: **BZ02986**

Project Name: **November Samples**
Project Number: **PO#4501154970**
Sample ID: **Outfall**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**3** Entered	ug/L	1	EPA 1624(SIM)	CW	11/6/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/6/13

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

Sample Date: 11/6/2013
Submit Date: 11/7/2013
Report Date: 11/7/2013

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

BA Report Number: **27125**
BA Sample ID: **BZ03023**

Project Name: **November Samples**
Project Number: **PO#4501154970**
Sample ID: **Outfall**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	3 ~ entered	ug/L	1	EPA 1624(SIM)	CW	11/7/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11-7-13

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

Sample Date: 11/7/2013
Submit Date: 11/8/2013
Report Date: 11/8/2013

BA Report Number: **27148**
BA Sample ID: **BZ03126**

Project Name: **November Data**
Project Number: **PO#4501154970**
Sample ID: **Outfall**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	RG	11/8/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/8/13

Brighton Analytical L.L.C.™

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

Sample Date: 11/7/2013
Submit Date: 11/8/2013
Report Date: 11/8/2013

BA Report Number: 27148
BA Sample ID: BZ03126

Project Name: November Data
Project Number: PO#4501154970
Sample ID: Outfall

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	RG	11/8/2013

Entered

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/8/13

Brighton Analytical L.L.C.™

Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
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To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

Sample Date: 11/15/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

BA Report Number: **27324**
BA Sample ID: **BZ03738**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-110**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	23 ✓	ug/L	5 ✓	EPA 1624(SIM)	CW	11/25/2013

OK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/26/13

Elevated volatile dl due to sample matrix.

Brighton Analytical L.L.C.™

Brighton Analytical, L.L.C.
2105 Pless Drive
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e-mail: bai-brighton@sbcglobal.net

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

Sample Date: 11/15/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

BA Report Number: **27324**
BA Sample ID: **BZ03737**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-119**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**45** ✓	ug/L	5 ✓	EPA 1624(SIM)	CW	11/25/2013

62-156

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

Sample Date: 11/15/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

BA Report Number: **27324**
BA Sample ID: **BZ03736**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-107**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**450** ✓ OK	ug/L	50 ✓	EPA 1624(SIM)	CW	11/25/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature] 11/26/13
Date:

Elevated volatile dl due to sample matrix.

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e-mail: bai-brighton@sbcglobal.net

Sample Date: 11/14/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03735**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-KD-1s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**29**	ug/L	5	EPA 1624(SIM)	CW	11/25/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Elevated volatile dl due to sample matrix.

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Sample Date: 11/14/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03734**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-KD-1d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**100** ✓	ug/L	10	EPA 1624(SIM)	CW	11/25/2013

CK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Elevated volatile dl due to sample matrix.

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Ann Arbor, MI 48103

Sample Date: 11/14/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

BA Report Number: **27324**
BA Sample ID: **BZ03733**

Project Name: **November Samples**
Project Number:
Sample ID: **593 Allison**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**170**	ug/L	50	EPA 1624(SIM)	CW	11/25/2013

+2=270
low 262-453

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/13/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03730**

Project Name: **November Samples**
Project Number:
Sample ID: **3161 Dexter Rd.**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

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Sample Date: 11/13/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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Ann Arbor, MI 48103

BA Report Number: **27324**
BA Sample ID: **BZ03729**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-55**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	4	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

Low Rec 18-30

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Sample Date: 11/11/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03726**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-93**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	3	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

ok

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

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Sample Date: 11/11/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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Ann Arbor, MI 48103

BA Report Number: **27324**
BA Sample ID: **BZ03725**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-57**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	3 ✓	ug/L	1 ✓	EPA 1624(SIM)	CW	11/22/2013

ok

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/26/13

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Sample Date: 11/11/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

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BA Report Number: **27324**
BA Sample ID: **BZ03724**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-58s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	97 J	ug/L	10 J	EPA 1624(SIM)	CW	11/22/2013

130-210

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

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Sample Date: 11/11/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03723**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-52s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**580**	ug/L	50	EPA 1624(SIM)	CW	11/22/2013

527-840

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Sample Date:	11/12/2013
Submit Date:	11/21/2013
Report Date:	11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03722**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-2d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**15**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

17-33

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

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Sample Date: 11/12/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

BA Report Number: **27324**
BA Sample ID: **BZ03721**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-2s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	2 ✓	ug/L	1 ✓	EPA 1624(SIM)	CW	11/22/2013

2-40K

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

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Sample Date: 11/12/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

BA Report Number: **27324**
BA Sample ID: **BZ03720**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-90**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	5 J	ug/L	1 J	EPA 1624(SIM)	CW	11/22/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

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Sample Date: 11/12/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03719**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-76s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**150** ✓	ug/L	20 ✓	EPA 1624(SIM)	CW	11/22/2013

+2=190
230 250

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

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Sample Date: 11/12/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03718**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-84s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**230**	ug/L	20	EPA 1624(SIM)	CW	11/22/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: Cliff Wood
Date: 11/26/13

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Sample Date: 11/19/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

BA Report Number: **27324**
BA Sample ID: **BZ03716**

Project Name: **November Samples**
Project Number:
Sample ID: **Outfall (1-10ppb)**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	3	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

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Sample Date: 11/18/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03715**

Project Name: **November Samples**
Project Number:
Sample ID: **Outfall (1-10ppb)**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	3	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/26/13

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Sample Date: 11/13/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03732**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-54d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**45**	ug/L	5	EPA 1624(SIM)	CW	11/25/2013

CK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/17/2013 ~~Outfile~~ + Not added
Submit Date: 11/21/2013
Report Date: 11/25/2013

BA Report Number: **27324**
BA Sample ID: **BZ03714**

Project Name: **November Samples**
Project Number:
Sample ID: **Outfall (1-10ppb)**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	4	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

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Sample Date: 11/13/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03731**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-54s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

OK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/26/13

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Sample Date: 11/14/2013 New Bottle + Note added
Submit Date: 11/21/2013
Report Date: 11/25/2013

BA Report Number: **27324**
BA Sample ID: **BZ03713**

Project Name: **November Samples**
Project Number:
Sample ID: **Outfall (1-10ppb)**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	3	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03739**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-104**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	2	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

OK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: W Wood
Date: 11/26/13

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Sample Date: 11/15/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

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BA Report Number: **27324**
BA Sample ID: **BZ03740**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-79s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**280** ✓	ug/L	50 ✓	EPA 1624(SIM)	CW	11/25/2013

Low 524-510-805

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/15/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

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BA Report Number: **27324**
BA Sample ID: **BZ03741**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-79d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**23** ✓ OK	ug/L	5 ✓	EPA 1624(SIM)	CW	11/25/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/18/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

BA Report Number: **27324**
BA Sample ID: **BZ03742**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-BE-1s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**540** ✓ OK	ug/L	100 ✓	EPA 1624(SIM)	CW	11/25/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/18/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03743**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-BE-1d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**280**	ug/L	10	EPA 1624(SIM)	CW	11/25/2013

ok

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

Brighton Analytical, L.L.C.
2105 Pless Drive
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Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

To: Pall Corp.
600 S. Wagner
Bldg. 4
Ann Arbor, MI 48103

Sample Date: 11/18/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

BA Report Number: **27324**
BA Sample ID: **BZ03744**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-113**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**33** ✓ OK	ug/L	5 ✓	EPA 1624(SIM)	CW	11/25/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date:	11/18/2013
Submit Date:	11/21/2013
Report Date:	11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03745**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-91**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**110**	ug/L	10	EPA 1624(SIM)	CW	11/25/2013

OK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date:	11/18/2013
Submit Date:	11/21/2013
Report Date:	11/25/2013

To: Pall Corp.
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Ann Arbor, MI 48103

BA Report Number: **27324**
BA Sample ID: **BZ03746**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-98d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	4	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

LOW 10-12

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/26/13

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Sample Date: 11/18/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

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BA Report Number: **27324**
BA Sample ID: **BZ03747**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-68**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

ok

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

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Sample Date: 11/19/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03748**

Project Name: **November Samples**
Project Number:
Sample ID: **NMW-2s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**1600** ✓	ug/L	200 ✓	EPA 1624(SIM)	CW	11/25/2013

Low 1974 - 2921

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: MTosol
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/19/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

BA Report Number: **27324**
BA Sample ID: **BZ03749**

Project Name: **November Samples**
Project Number:
Sample ID: **NMW-1s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**1200** ✓	ug/L	100 ✓	EPA 1624(SIM)	CW	11/25/2013

possible

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/19/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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Ann Arbor, MI 48103

BA Report Number: **27324**
BA Sample ID: **BZ03750**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-101**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**140**	ug/L	20	EPA 1624(SIM)	CW	11/25/2013

possible 120 - 288

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Phone: (810) 229-7575 FAX: (810) 229-8650
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Sample Date: 11/19/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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Ann Arbor, MI 48103

BA Report Number: **27324**
BA Sample ID: **BZ03751**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-118**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**43**	ug/L	5	EPA 1624(SIM)	CW	11/25/2013

Low but positive 25-92

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/19/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

BA Report Number: **27324**
BA Sample ID: **BZ03752**

Project Name: **November Samples**
Project Number:
Sample ID: **373 Pinewood Shallows**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**230**	ug/L	50	EPA 1624(SIM)	CW	11/25/2013

Low 368-560

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/19/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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Ann Arbor, MI 48103

BA Report Number: **27324**
BA Sample ID: **BZ03753**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-106s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**110**	ug/L	50	EPA 1624(SIM)	CW	11/25/2013

Low 242-355

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/21/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03754**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-135**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

OK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: Wtopol
Date: 11/26/13

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03755**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-127s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03756**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-128d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

OK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

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Sample Date: 11/21/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03757**

Project Name: **November Samples**
Project Number:
Sample ID: **LB-1**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**330** ✓	ug/L	50 ✓	EPA 1624(SIM)	CW	11/25/2013

Low 490 - 772

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 12/13/2013

BA Report Number: **27324**
BA Sample ID: **BZ03758**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-37**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	✓ **140**	✓ ug/L	✓ 50	EPA 1624(SIM)	CW	11/25/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 12-13-13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03759**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-125**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)	✓		✓			
1,4-Dioxane (SIM)	**170**	ug/L	20	EPA 1624(SIM)	CW	11/25/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03766**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-58s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**110** ✓	ug/L	20 ✓	EPA 1624(SIM)	GW	11/26/2013

Below 130 - 210

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [signature]
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03767**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-78**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	12	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

Low - 26-31

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: WTopol
Date: 11/26/13

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Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03768**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-128s**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

ok

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Submit Date: 11/21/2013
Report Date: 11/25/2013

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BA Report Number: **27324**
BA Sample ID: **BZ03769**

Project Name: **November Samples**
Project Number:
Sample ID: **Saginaw Forest Cabin #1**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	9	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

Low Already Analyzed I got 19

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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Date: 11/26/13

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Sample Date: 11/21/2013
Submit Date: 11/21/2013
Report Date: 11/26/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03770**

Project Name: **November Samples**
Project Number:
Sample ID: **PW-1**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**630**	ug/L	100	EPA 1624(SIM)	CW	11/25/2013

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

Elevated volatile dl due to sample matrix.

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Sample Date: 11/21/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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BA Report Number: **27324**
BA Sample ID: **BZ03771**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-129i**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

OK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:
Date: 11/26/13

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

BA Report Number: **27324**
BA Sample ID: **BZ03772**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-58d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	10	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

ok Loo but I got 18

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/26/13

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

To: Pall Corp.
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Ann Arbor, MI 48103

BA Report Number: **27324**
BA Sample ID: **BZ03773**

Project Name: **November Samples**
Project Number:
Sample ID: **MW-127d**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

OK

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/26/13

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Sample Date: 11/20/2013
Submit Date: 11/21/2013
Report Date: 11/25/2013

BA Report Number: **27324**
BA Sample ID: **BZ03774**

Project Name: **November Samples**
Project Number:
Sample ID: **Saginaw Forest Cabin #2**

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
1,4-Dioxane(SIM)						
1,4-Dioxane (SIM)	**Not detected**	ug/L	1	EPA 1624(SIM)	CW	11/22/2013

J qo+2 ppb (consisted @ past

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by:

Date: 11/26/13

Brighton Analytical L.L.C.

BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY CONTROL

GC/MS
VOLATILE METHOD 8260 SIM
REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 4, 2013 Spike Std. ID: 2185sec Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ02782 Matrix: Water Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	19.2	19.7	2.6	10	40	47	70-130	15	<1	89%

ug/L is equivalent to ppb

Comments: Low percent recovery due high background in sample.

GC/MS

VOLATILE METHOD 8260 SIM

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 5, 2013 Spike Std. ID: 2185sec Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ02913 Matrix: Water Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	7.1	8.6	19.1	10	71	86	70-130	<1	<1	87%

ug/L is equivalent to ppb

Comments: _____

11-6-13

GC/MS
VOLATILE METHOD 8260 SIM
REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 6, 2013 | Spike Std. ID: 2185sec | Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ02986 | Matrix: Water | Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	14.6	16.3	11.0	10	73	82	70-130	<1	<1	81%

ug/L is equivalent to ppb

Comments: _____

GC/MS
VOLATILE METHOD 8260 SIM
REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 7, 2013 Spike Std. ID: 2185sec Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ03023 Matrix: Water Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	9.5	9.5	0.1	10	95	95	70-130	<1	<1	110%

ug/L is equivalent to ppb

Comments:

GC/MS

VOLATILE METHOD 8260 SIM

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 8, 2013 Spike Std. ID: 2165sec Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ03126 Matrix: Water Analyst: RG

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	4.1	4.7	15.1	5	82	94	70-130	<1	<1	100%

ug/L is equivalent to ppb

Comments: _____

GC/MS
VOLATILE METHOD 8260 SIM
REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: September 19, 2013 Spike Std. ID: 2188 Inst./Detec: Vol 5 GC/MS

Laboratory ID: BY00222 Matrix: Water Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	10.1	8.3	19.2	10	81	63	70-130	2	<1	104%

ug/L is equivalent to ppb

Comments:

GC/MS
VOLATILE METHOD 8260 SIM
REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 22, 2013 Spike Std. ID: 2185sec Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ03719 Matrix: Water Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	13.2	13.6	2.8	5	117	122	70-130	7.5	<1	102%

ug/L is equivalent to ppb

Comments:

GC/MS
VOLATILE METHOD 8260 SIM
REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 22, 2013 Spike Std. ID: 2185sec Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ03774 Matrix: Water Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	6.1	5.8	4.4	5	122	116	70-130	<1	<1	102%

ug/L is equivalent to ppb

Comments:

GC/MS
VOLATILE METHOD 8260 SIM
REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 25, 2013 Spike Std. ID: 2185sec Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ03748 Matrix: Water Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	17.9	17.8	0.6	10	97	96	70-130	8.2	<1	99%

ug/L is equivalent to ppb

Comments:

GC/MS
VOLATILE METHOD 8260 SIM
REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 25, 2013 | Spike Std. ID: 2185sec | Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ03745 | Matrix: Water | Analyst: CW

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	16.4	17.0	3.8	10	108	114	70-130	5.6	<1	99%

ug/L is equivalent to ppb

Comments: _____

GC/MS

VOLATILE METHOD 8260 SIM

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: November 8, 2013 Spike Std. ID: 2185sec Inst./Detec: Vol 6 GC/MS

Laboratory ID: BZ03126 Matrix: Water Analyst: RG

	Matrix Spike - Precision				Matrix spike - Accuracy					
	Spike 1	Spike 2	Relative Percent Difference	Spk Conc ug/L	% Recovery	% Recovery	Range (%)	Sample background	Method Blank	LCS
1,4 Dioxane	4.1	4.7	15.1	5	82	94	70-130	<1	<1	100%

ug/L is equivalent to ppb

Comments: