Pall Corporation
600 Wagner Road
Ann Arbor, MI 48103-9019 US
Phone: 734.665.0651
Web: www.pall.com

Sample Analysis Report

September, 2013

Analyst Initials: SEOP
Date: 10-15-13

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								
D0								
5005 Jackson Rd-09-16-13-10:30-1	21	1.0						O
Not Determined								
697 South Wagner Rd-09-16-13-10:59-1	nd	1.0						O
Extraction Wells								
C3								
DOLPH-09-03-13-08:37-1	78	5.0						D
TW-20-09-03-13-13:08-1	830	25.0						D
D2								
LB-1-09-03-13-08:34-1	490	10.0						D
TW-21-09-03-13-10:08-1	130	5.0						D
TW-5-09-03-13-10:14-1	950	100.0						D
TW-9-09-03-13-13:15-1	690	50.0						D
E								
TW-11-09-03-13-10:16-1	220	5.0						D
TW-18-09-03-13-08:39-1	370	10.0						D
TW-19-09-03-13-08:35-1	700	10.0						D
Marshy								
PW-1-09-03-13-08:41-1	760	100.0						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)
SW								
TW-22-09-03-13-09:49-1	710	50.0						D
TW-8-09-03-13-09:51-1	570	50.0						D
Monitoring Wells								
D0								
A2 Cleaning Supply-09-05-13-08:15-1	65	1.0						
D2								
MW-BE-1d-09-05-13-11:50-1	180	5.0						D
E								
MW-103s-09-04-13-13:25-1	68	1.0						
MW-110-09-05-13-11:10-1	36	1.0						
MW-112i-09-04-13-11:55-1	9	1.0						
MW-76s-09-04-13-13:50-1	240	10.0						D
MW-84s-09-04-13-10:50-1	420	8.3						D
Surface Water								
Not Applicable								
HC/HR-09-03-13-08:10-1			nd	2.0				
HC/HR-09-04-13-08:35-1			nd	2.0				
HC/HR-09-05-13-08:35-1			nd	2.0				
HC/HR-09-06-13-08:30-1			nd	2.0				
HC/HR-09-09-13-08:25-1			nd	2.0				
HC/HR-09-10-13-09:15-1			nd	2.0				
HC/HR-09-11-13-09:15-1			nd	2.0				
HC/HR-09-12-13-09:25-1			nd	2.0				
HC/HR-09-13-13-09:25-1			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-09-16-13-08:25-1			nd	2.0				
HC/HR-09-17-13-07:30-1			nd	2.0				
HC/HR-09-18-13-07:35-1			nd	2.0				
HC/HR-09-19-13-07:55-1			nd	2.0				
HC/HR-09-20-13-08:15-1			nd	2.0				
HC/HR-09-23-13-09:00-1			nd	2.0				
HC/HR-09-24-13-08:00-1			nd	2.0				
HC/HR-09-25-13-09:35-1			nd	2.0				
HC/HR-09-26-13-09:35-1			nd	2.0				
HC/HR-09-27-13-08:45-1			nd	2.0				
HC/HR-09-30-13-08:05-1			nd	2.0				
Treatment System								
OUTFALL-09-01-13-1	6	1.0						
OUTFALL-09-01-13-2			nd	5.0				
OUTFALL-09-02-13-1	5	1.0						
OUTFALL-09-02-13-2			nd	5.0				
OUTFALL-09-03-13-1	4	1.0						
OUTFALL-09-03-13-2			nd	5.0				
OUTFALL-09-04-13-1	4	1.0						
OUTFALL-09-04-13-2			6	5.0				
OUTFALL-09-05-13-1	5	1.0						
OUTFALL-09-05-13-2			nd	5.0				
OUTFALL-09-08-13-1	5	1.0						
OUTFALL-09-08-13-2			6	5.0				
OUTFALL-09-09-13-1	6	1.0						
OUTFALL-09-09-13-2			5	5.0				
OUTFALL-09-10-13-1	4	1.0						

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)
OUTFALL-09-10-13-2			nd	5.0				
OUTFALL-09-11-13-1	6	1.0						
OUTFALL-09-11-13-2			nd	5.0				
OUTFALL-09-12-13-1	4	1.0						
OUTFALL-09-12-13-2			nd	5.0				
OUTFALL-09-15-13-1	4	1.0						
OUTFALL-09-15-13-2			5	5.0				
OUTFALL-09-16-13-1	7	1.0						
OUTFALL-09-16-13-2			nd	5.0				
OUTFALL-09-17-13-1	4	1.0						
OUTFALL-09-17-13-2			nd	5.0				
OUTFALL-09-18-13-1	5	1.0						
OUTFALL-09-18-13-2			8	5.0				
OUTFALL-09-19-13-1	4	1.0						
OUTFALL-09-19-13-2			9	5.0				
OUTFALL-09-22-13-1	4	1.0						
OUTFALL-09-22-13-2			9	5.0				
OUTFALL-09-23-13-1	4	1.0						
OUTFALL-09-23-13-2			7	5.0				
OUTFALL-09-24-13-1	4	1.0						
OUTFALL-09-24-13-2			9	5.0				
OUTFALL-09-25-13-1	5	1.0						
OUTFALL-09-25-13-2			7	5.0				
OUTFALL-09-26-13-1	5	1.0						
OUTFALL-09-26-13-2			5	5.0				
OUTFALL-09-29-13-1	5	1.0						
OUTFALL-09-29-13-2			7	5.0				

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)
OUTFALL-09-30-13-1	6	1.0						
OUTFALL-09-30-13-2			nd	5.0				
Red Pond-09-03-13-08:35-1	490	25.0						D
Red Pond-09-09-13-07:38-1	480	10.0						D
Red Pond-09-16-13-09:10-1	330	10.0						D
Red Pond-09-23-13-08:10-1	450	10.0						D
Red Pond-09-30-13-07:50-1	450	10.0						D

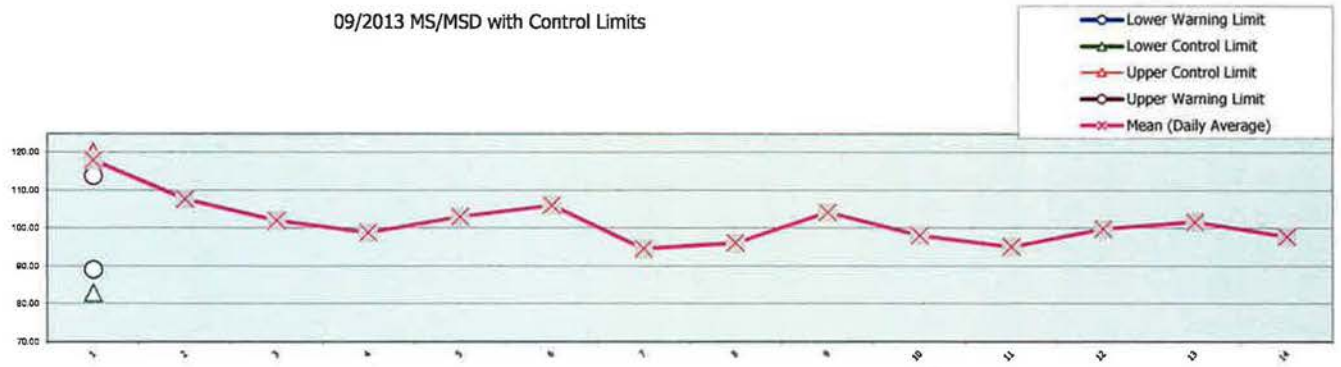
Qualifier Code:	Qualifier Description
D	Analyte value quantified from a dilution, reporting limit is raised to reflect dilution
O	Drinking water site, samples sent to outside laboratory, Brighton Laboratories

Control Chart for 09/2013 MS/MSD %Recoveries

Analyst: Seop

GC/MS Data: #2
Report Date: 10/9/2013
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 9/1/2013
End date: 9/30/2013
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									
9/3/2013	118							118.00	101.52	8.03	6.19	82.94	120.09	89.13	113.90	101.52
9/4/2013	105		99	119	5.12	0.46	2	107.70								
9/6/2013	106	104	97	101	5.04	0.29	2	101.98								
9/12/2013	97	101						98.80								
9/13/2013	107	115	91	99				102.98								
9/16/2013	98		109	111	4.48	0.29	2	106.00								
9/17/2013	88	101			6.68	0.39	2	94.50								
9/18/2013	102	90			3.76	0.12	2	96.00								
9/20/2013	110	98			3.98	0.15	2	104.15								
9/23/2013	106	90			3.54	0.00	2	98.00								
9/24/2013	97	93			4.50	0.78	2	95.00								
9/25/2013	104	96			3.54	0.59	2	99.75								
9/26/2013	97	106			5.22	1.37	2	101.60								
9/27/2013	90	106			4.93	1.13	3	97.75								

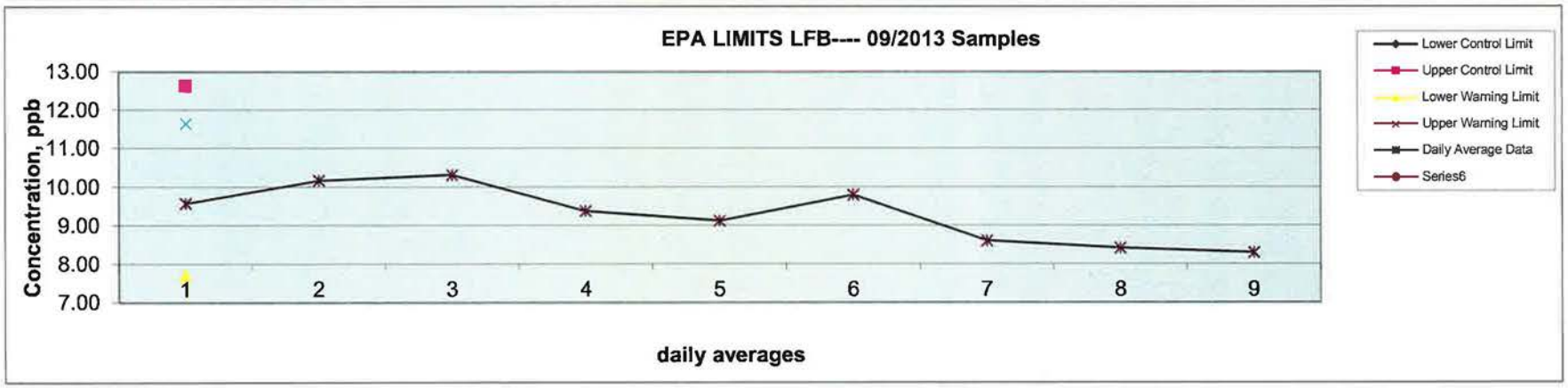


Control Chart for 9/2013 LFB

Analyst: SEOP

GC/MS Data: #2
Report Date: 10/9/2013
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 9/1/2013
End date: 9/30/2013
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								
9/3/2013	9.81	8.81	10.33	8.97	9.78	9.78	9.58	9.69	0.58	0.98	6.75	12.62	7.73	11.65
9/4/2013	9.84	9.60	10.16	9.86	10.38	11.20	10.17	9.69	0.57					
9/6/2013	10.90	10.48	9.74	9.55	10.91		10.32	9.69	0.64					
9/12/2013	9.27	9.49					9.38	9.69	0.16					
9/13/2013	10.17	8.48	8.73				9.13	9.69	0.91					
9/16/2013	10.03	9.07	9.78	10.49	9.62		9.80	9.69	0.52					
9/17/2013	8.00	9.16	8.66				8.61	9.69	0.58					
9/18/2013	8.20	9.0	8.1				8.42	9.69	0.50					
9/20/2013	8.32	8.28					8.30	9.69	0.03					
9/23/2013	10.98	10.16					10.57	9.69	0.58					
9/24/2013	10.27	9.30	9.98				9.85	9.69	0.50					
9/25/2013	10.68						10.68	9.69	na					
9/26/2013	9.46	10.64					10.05	9.69	0.83					
9/27/2013	11.89						11.89	9.69	na					

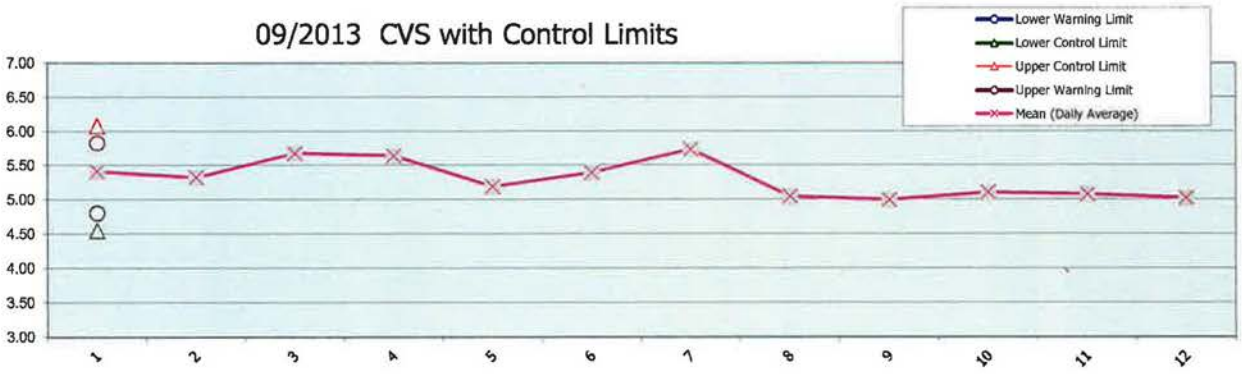


Control Chart for 09/2013 CVS

Analyst: SEOP

GC/MS Data: #2
Report Date: 10/9/2013
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: 1,4-dioxane
Start date: 9/1/2013
End date: 9/30/2013
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								
9/3/2013	5.82	5.58	4.83		5.41	5.32	0.52	0.25	4.56	6.08	4.81	5.83
9/4/2013	4.80	5.84			5.32	5.32	0.74					
9/6/2013	5.74	5.98	5.13	5.85	5.68	5.32	0.38					
9/12/2013	5.61	5.66			5.64	5.32	0.04					
9/13/2013	5.38	5.00			5.19	5.32	0.27					
9/16/2013	5.10	5.22	5.85		5.39	5.32	0.40					
9/17/2013	5.73				5.73	5.32	na					
9/18/2013	4.74	5.35			5.05	5.32	0.43					
9/20/2013	4.99				4.99	5.32	na					
9/23/2013	5.47	4.73			5.10	5.32	0.52					
9/24/2013	5.03	5.12			5.08	5.32	0.07					
9/25/2013	5.66	4.38			5.02	5.32	0.91					
9/26/2013	4.89	5.90			5.39	5.32	0.71					
9/27/2013	5.57	4.66			5.12	5.32	0.64					

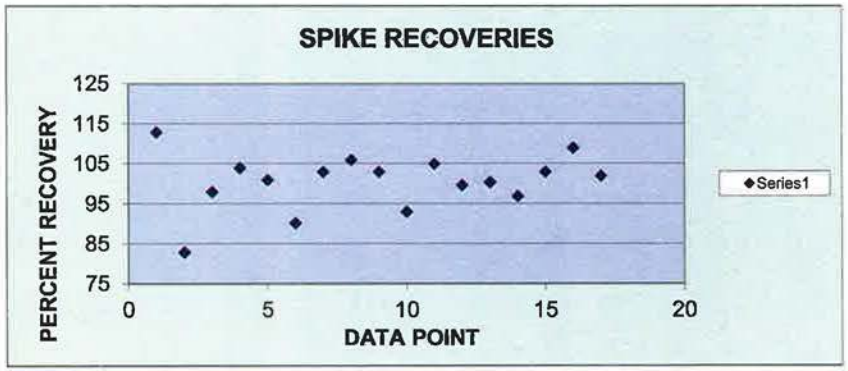


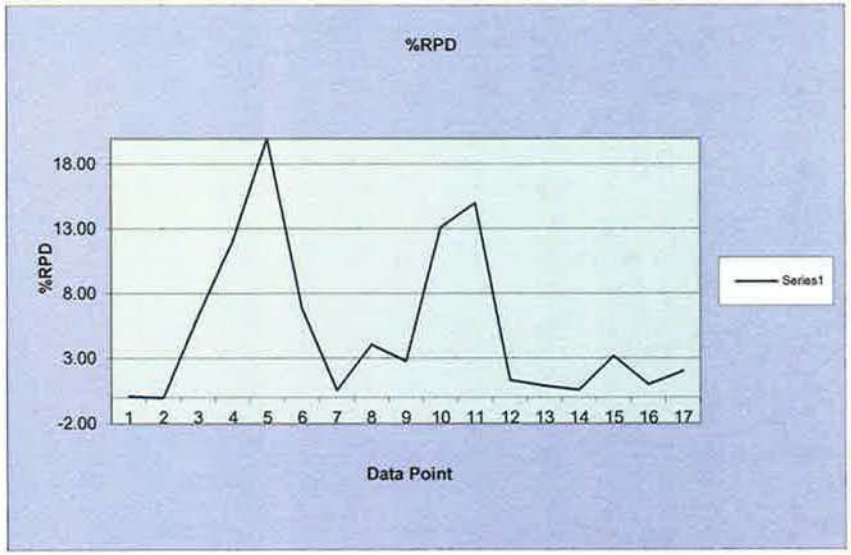
Control Chart for 09/2013 MS/MSD & Repeat %Recoveries

Analyst: SEOP

IC: Metrohm
Report Date: 10/9/2013
Chemist: Susan E.O. Peters
Dept: Environmental
Analyte: Bromate
Start date: 9/1/2013
End date: 9/30/2013
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=**
9/4/2013	114	113	113	0.12	0.71	3.56	0.35	2
9/4/2013	83		83					
9/6/2013	93	103	98	6.30	3.04	5.61	0.54	2
9/9/2013	97	110	104	12.10	8.80			
9/10/2013	89	113	101	20.00	19.00	5.27	0.89	6
9/12/2013	93	87	90	6.90	3.04	3.33	0.30	3
9/13/2013	103	103	103	0.57	0.92	3.78	0.12	2
9/16/2013	103	108	106	4.10	3.10	5.46	0.50	2
9/19/2013	102	105	103	2.80	2.00	2.43	0.10	3
9/19/2013	100	86	93	13.10	9.60			
9/25/2013	96	114	105	15.00	12.70			
9/25/2013	100	99	100	1.36	1.02			
9/25/2013	100	101	100	0.90	0.69			
9/26/2013	97	97	97	0.58	0.45	1.40	0.08	2
9/26/2013	105	101	103	3.20	2.80			
9/27/2013	109	110	109	1.00	0.71	1.01	0.13	2
9/30/2013	103	100	102	2.05	2.12	1.41	0.10	2



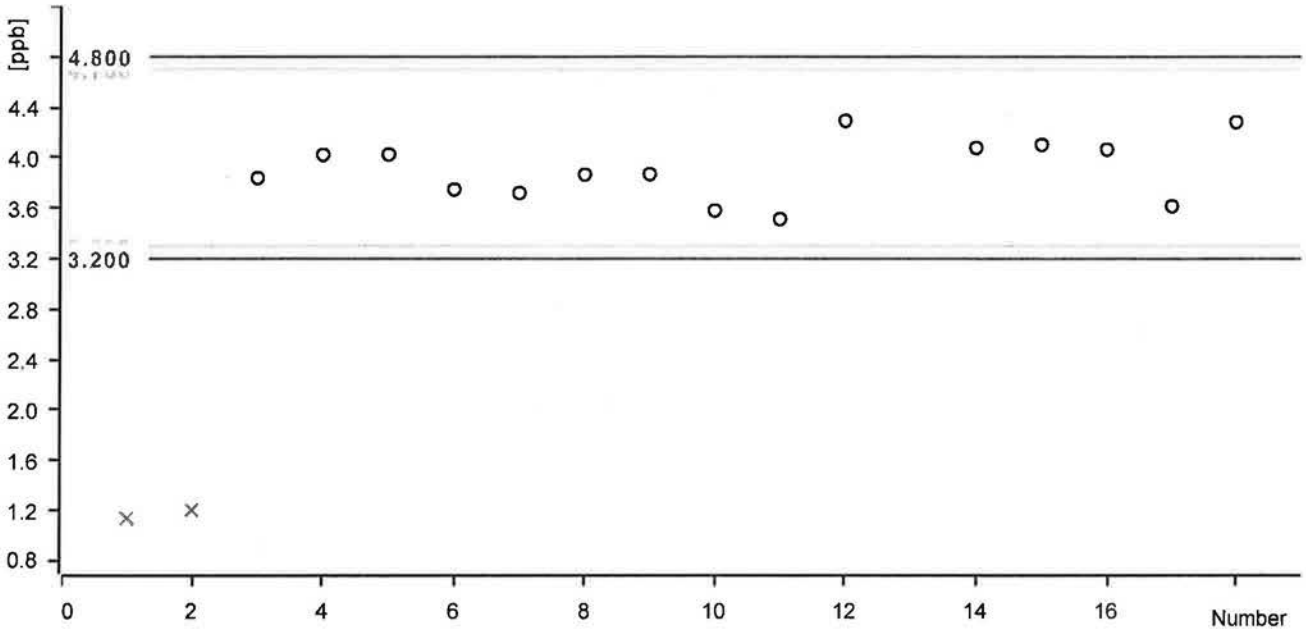


Control chart

SEOP

Comment

Bromate 4 PPB concentration



Statistics

Mean value:	3.909 ppb	Absolute standard deviation:	0.243 ppb
Minimum:	3.514 ppb	Relative standard deviation:	6.215 %
Maximum:	4.294 ppb	Number of determinations:	15

	Date	Number	Ident	Sample type	Method	Bromate 4 PPB concentration	Statistics
1	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	off
2	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	off
3	2013-09-05 00:39:00 UTC-4	3	ECCS/CCCS	Sample	08232013	3.839 ppb	on
4	2013-09-06 20:15:50 UTC-4	4	ECCS/CCCS	Sample	08232013	4.024 ppb	on
5	2013-09-09 22:07:41 UTC-4	5	ECCS/CCCS	Sample	08232013	4.026 ppb	on
6	2013-09-11 01:28:59 UTC-4	6	ECCS/CCCS	Sample	08232013	3.746 ppb	on
7	2013-09-13 06:54:23 UTC-4	7	ECCS/CCCS	Sample	09112013 300.1	3.720 ppb	on
8	2013-09-13 18:28:35 UTC-4	8	ECCS/CCCS	Sample	09112013 300.1	3.867 ppb	on
9	2013-09-16 21:54:06 UTC-4	9	ECCS/CCCS	Sample	09112013 300.1	3.870 ppb	on
10	2013-09-20 08:22:52 UTC-4	10	ECCS/CCCS	Sample	09112013 300.1	3.561 ppb	on
11	2013-09-20 09:02:35 UTC-4	11	ECCS/CCCS	Sample	09112013 300.1	3.514 ppb	on
12	2013-09-20 19:44:45 UTC-4	12	ECCS/CCCS	Sample	09112013 300.1	4.294 ppb	on
13	[illegible]	13	[illegible]	[illegible]	[illegible]	[illegible]	off
14	2013-09-25 09:22:24 UTC-4	14	ECCS/CCCS	Sample	09242013 300.1	4.076 ppb	on
15	2013-09-25 21:17:36 UTC-4	15	ECCS/CCCS	Sample	09242013 300.1	4.104 ppb	on
16	2013-09-26 03:54:50 UTC-4	16	ECCS/CCCS	Sample	09242013 300.1	4.067 ppb	on
17	2013-09-26 20:42:46 UTC-4	17	ECCS/CCCS	Sample	09242013 300.1	3.916 ppb	on
18	2013-09-27 20:39:09 UTC-4	18	ECCS/CCCS	Sample	09242013 300.1	4.283 ppb	on

1ppb std AVG 117% Recovery

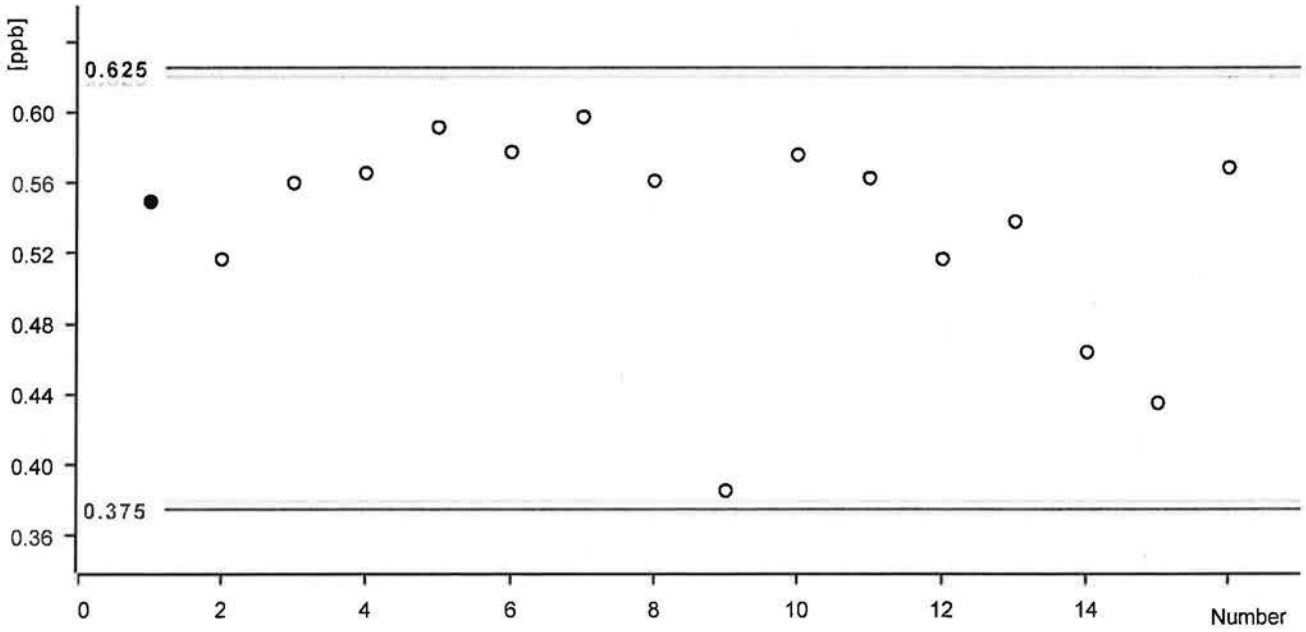
10 ppb std 101 % Rec.

Control chart

SEOP

Comment

ppb Bromate Concentration ICCS



Statistics

Mean value:	0.535 ppb	Absolute standard deviation:	0.059 ppb
Minimum:	0.386 ppb	Relative standard deviation:	11.099 %
Maximum:	0.597 ppb	Number of determinations:	16

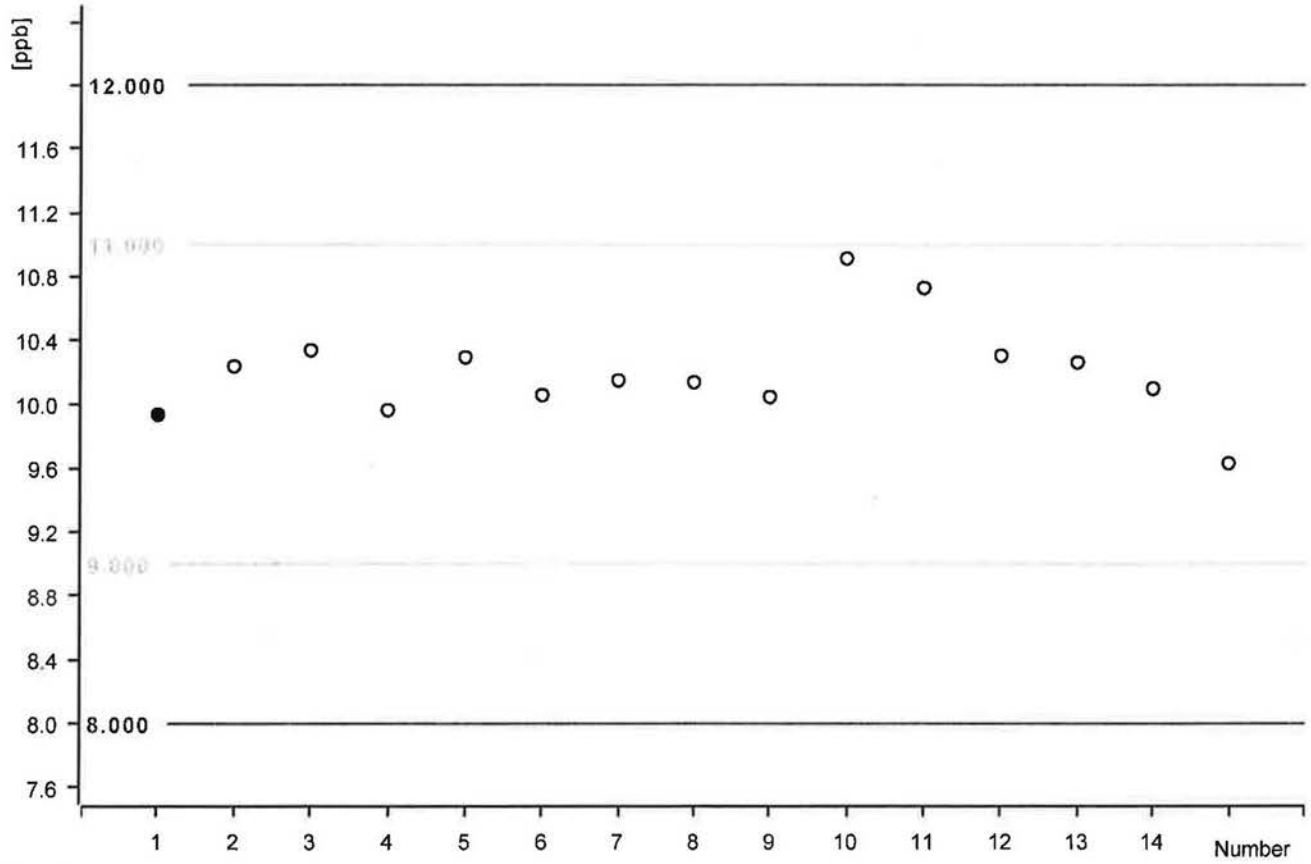
	Date	Number	Ident	Sample type	Method	ppb Bromate Concentration ICCS	Statistics
1	2013-09-04 10:00:32 UTC-4	1	ICCS/LFB	Sample	08232013	0.549 ppb	on
2	2013-09-06 10:10:35 UTC-4	2	ICCS/LFB	Sample	08232013	0.517 ppb	on
3	2013-09-06 10:59:43 UTC-4	3	ICCS/LFB	Sample	08232013	0.560 ppb	on
4	2013-09-09 12:59:45 UTC-4	4	ICCS/LFB	Sample	08232013	0.566 ppb	on
5	2013-09-10 09:02:59 UTC-4	5	ICCS/LFB	Sample	08232013	0.591 ppb	on
6	2013-09-10 12:00:30 UTC-4	6	ICCS/LFB	Sample	08232013	0.577 ppb	on
7	2013-09-10 12:40:17 UTC-4	7	ICCS/LFB	Sample	08232013	0.597 ppb	on
8	2013-09-10 14:13:48 UTC-4	8	ICCS/LFB	Sample	08232013	0.561 ppb	on
9	2013-09-12 17:00:13 UTC-4	9	ICCS/LFB	Sample	09112013 300.1	0.386 ppb	on
10	2013-09-13 10:31:57 UTC-4	10	ICCS/LFB	Sample	09112013 300.1	0.576 ppb	on
11	2013-09-16 13:42:31 UTC-4	11	ICCS/LFB	Sample	09112013 300.1	0.563 ppb	on
12	2013-09-19 08:32:51 UTC-4	12	ICCS/LFB	Sample	09112013 300.1	0.517 ppb	on
13	2013-09-19 09:12:34 UTC-4	13	ICCS/LFB	Sample	09112013 300.1	0.538 ppb	on
14	2013-09-20 12:21:14 UTC-4	14	ICCS/LFB	Sample	09112013 300.1	0.464 ppb	on
15	2013-09-20 13:07:49 UTC-4	15	ICCS/LFB	Sample	09112013 300.1	0.435 ppb	on
16	2013-09-23 09:27:01 UTC-4	16	ICCS/LFB	Sample	09112013 300.1	0.569 ppb	on

Control chart

SEOP

Comment

10PPB BROMATE qcs



Statistics

Mean value:	10.207 ppb	Absolute standard deviation:	0.309 ppb
Minimum:	9.630 ppb	Relative standard deviation:	3.029 %
Maximum:	10.911 ppb	Number of determinations:	15

	Date	Number	Ident	Sample type	Method	10PPB BROMATE qcs	Statistics
1	2013-09-05 01:58:26 UTC-4	1	QCS	Sample	08232013	9,936 ppb	on
2	2013-09-06 21:35:17 UTC-4	2	QCS	Sample	08232013	10,239 ppb	on
3	2013-09-09 23:27:07 UTC-4	3	QCS	Sample	08232013	10,339 ppb	on
4	2013-09-11 02:48:25 UTC-4	4	QCS	Sample	08232013	9,964 ppb	on
5	2013-09-11 17:00:26 UTC-4	5	QCS	Sample	09112013 300.1	10,295 ppb	on
6	2013-09-13 08:13:49 UTC-4	6	QCS	Sample	09112013 300.1	10,058 ppb	on
7	2013-09-13 19:48:00 UTC-4	7	QCS	Sample	09112013 300.1	10,150 ppb	on
8	2013-09-16 23:13:32 UTC-4	8	QCS	Sample	09112013 300.1	10,137 ppb	on
9	2013-09-20 10:22:02 UTC-4	9	QCS	Sample	09112013 300.1	10,047 ppb	on
10	2013-09-20 21:04:12 UTC-4	10	QCS	Sample	09112013 300.1	10,911 ppb	on
11	2013-09-24 00:11:46 UTC-4	11	QCS	Sample	09112013 300.1	10,728 ppb	on
12	2013-09-24 23:26:30 UTC-4	12	QCS	Sample	09242013 300.1	10,303 ppb	on
13	2013-09-26 05:14:16 UTC-4	13	QCS	Sample	09242013 300.1	10,263 ppb	on
14	2013-09-26 22:02:13 UTC-4	14	QCS	Sample	09242013 300.1	10,099 ppb	on
15	2013-09-27 21:58:34 UTC-4	15	QCS	Sample	09242013 300.1	9,630 ppb	on

Brighton Analytical L.L.C.™
2105 Pless Drive · Brighton, Michigan 48114 · Phone (810) 229-7575 · Fax (810) 229-8650 · E-mail bai-brighton@sbcglobal.net

September 20, 2013

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

Subject: Drinking Water Samples

Dear Ms. Peters :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Enclosed are the results for the samples submitted on 09/17/2013 for the above mentioned project. NELAP/TNI Accredited Analysis and MDEQ Drinking Water Certified Analysis will be identified in their respective reporting formats. Duplicate copies can be supplied at your request for a fee of $20.00 per copy.

The invoice for this project will be mailed with a copy of the report. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. Please reference Brighton Analytical, L.L.C. Project ID 25374 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,
Brighton Analytical, L.L.C.

Brighton Analytical, L.L.C.™

2105 Pless Drive
Brighton, MI 48114

Phone: 810-229-7575
Fax: 810-229-8650

BA PROJECT #: 25374

ABBREVIATIONS FOR MATRIX
S = Solid
L = Liquid
DW = Drinking H,0
WW = Wastewater
O = Oil
P = Wipe
A = Air (Tedlar Bag)
F = Filter
T = Tube
M = Methanol

PAGE 1 OF 1

COMPANY NAME: PALL CORPORATION

PROJECT NAME: Drinking Water Samples

PROJECT NUMBER:

P. O. NUMBER:

REQUESTED TURNAROUND: (circle one)
Rush: 1 -3 business days (verify with lab & specify date needed)
Expedited: 5 business days
Standard: 10 business days

If RUSH, approved by: _____

Brighton ID #	Sample Description	Sampling Time	Sampling Date	Container Type & Quantity: VOA'S (PRESERVED)	HDPE UNPRESERVED	HDPE HNO_3	HDPE H_2SO_4	HDPE NAOH	AMBER	GLASS H_2SO_4	GLASS, NO PRESERVATIVE	MEOH Preserved: (Field or (Lab Preserved	Sample Matrix: FOR DISSOLVED METALS (L) LAB TO FILTER (F) FIELD FIL.TERED	Analysis Requested/Method: Analyzed for 1,4-dioxane water - Ground - drinking water 1,4-Dioxane - std turn Around
1) 221	697 S. Wagner	10:29	9-16-13	2									L	✓
2) 222	5005 Jacksonfield	10:30	9-16-13	2									L	✓
3)														
4)														
5)														
6)														
7)														
8)														
9)														
10)														
11)														

REPORT RESULTS TO:

1734-645-5929

Attn: Sue Peters

PHONE: 734-368-3090
FAX: JCNA

Sample received within holding time? yes ☒ no ☐

For TCLP ONLY – Federal Limits ☐ Other ☐

Samples intact: yes ☒ no ☐ (if no, see below)

Note samples if not intact:

Headspace/bubbles in VOA'S? yes ☐ no ☒ n/a ☐

Sample containers and COC match? yes ☒ no ☐

Comments:

Temperature of Samples °C: 4

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
1		9.17.13		3:05pm	3				
2					4				

Brighton Analytical LLC
2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time:	9/16/2013	10:59
Submit Date/Time:	9/17/2013	15:05
Report Date:	9/20/2013	

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

BA Project # **25374**
BA Sample ID **BZ00221**

Project Name: **Drinking Water Samples**
Project Number:
Sample ID: **697 S. Wagner**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
1,4-Dioxane(SIM)							
1,4-Dioxane (SIM)	Not detected	ug/L	1		EPA 1624(SIM)	14:05	09/19/2013

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

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 9/20/13

Brighton Analytical LLC
2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 9/16/2013 10:30
Submit Date/Time: 9/17/2013 15:05
Report Date: 9/20/2013

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

BA Project # **25374**
BA Sample ID **BZ00222**

Project Name: **Drinking Water Samples**
Project Number:
Sample ID: **5005 Jackson Rd.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
1,4-Dioxane(SIM)							
1,4-Dioxane (SIM)	21	ug/L	1		EPA 1624(SIM)	14:25	09/19/2013

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

MCL = Maximum contaminant Levels.
Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by _____
Date 9/20/13

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: 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: _____