



600 South Wagner Road
Ann Arbor, MI 48103-6019
Phone: 734-913-6130
Fax: 734-913-6103

Sample Analysis Report

January, 2008

Analyst Initials *DP*
Date *02/04/08*

Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
EXTRACTION WELLS							
AE-3-01-07-08-11:19	90	1.0		5.0		10.0	
HZ-S-01-07-08-10:05	1092	1.0		5.0		10.0	
LB-1-01-07-08-11:15	498	1.0		5.0		10.0	
LB-3-01-07-08-11:17	540	1.0		5.0		10.0	
PW-1-01-07-08-09:37	1309	1.0		5.0		10.0	
DOLPH-01-07-08-09:30	87	1.0		5.0		10.0	
TW-5-01-07-08-09:15	1097	1.0		5.0		10.0	
TW-6-01-07-08-09:39	182	1.0		5.0		10.0	
TW-8-01-07-08-09:03	536	1.0		5.0		10.0	
TW-9-01-07-08-10:00	1589	1.0		5.0		10.0	
TW-10-01-07-08-09:48	1386	1.0		5.0		10.0	
TW-11-01-07-08-09:17	283	1.0		5.0		10.0	
TW-13-01-07-08-10:25	502	1.0		5.0		10.0	
TW-14-01-07-08-09:55	151	1.0		5.0		10.0	
TW-17-01-07-08-09:53	142	1.0		5.0		10.0	
TW-18-01-07-08-09:42	567	1.0		5.0		10.0	
TW-19-01-07-08-09:25	840	1.0		5.0		10.0	
TW-19-01-22-08-11:45	804	1.0		5.0		10.0	
TW-19-01-31-08-08:50	821	1.0		5.0		10.0	
TW-20-01-07-08-10:15	3320	1.0		5.0		10.0	
TEMPORARY EXTRACTION WELLS							
MW-50-01-07-08-09:05	637	1.0		5.0		10.0	

Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
TEMPORARY EXTRACTION WELLS							
SW-COMB-01-07-08-09:40	547	1.0		5.0		10.0	
RED POND							
Red Pond-01-07-08-09:35	677	1.0		5.0		10.0	
Red Pond-01-14-08-08:30	635	1.0		5.0		10.0	
Red Pond-01-21-08-08:50	626	1.0		5.0		10.0	
Red Pond-01-28-08-09:00	668	1.0		5.0		10.0	
OUTFALL001							
OUTFALL-01-01-08-	5	1.0	6	5.0		10.0	
OUTFALL-01-02-08-	5	1.0	6	5.0		10.0	
OUTFALL-01-03-08-	4	1.0	5	5.0		10.0	
OUTFALL-01-06-08-	5	1.0	5	5.0		10.0	
OUTFALL-01-07-08-	5	1.0	5	5.0		10.0	
OUTFALL-01-08-08-	4	1.0	6	5.0		10.0	
OUTFALL-01-09-08-	4	1.0	7	5.0		10.0	
OUTFALL-01-10-08-	4	1.0	6	5.0		10.0	
OUTFALL-01-13-08-	4	1.0	5	5.0		10.0	
OUTFALL-01-14-08-	4	1.0	6	5.0		10.0	
OUTFALL-01-15-08-	4	1.0	6	5.0		10.0	
OUTFALL-01-16-08-	4	1.0	6	5.0		10.0	
OUTFALL-01-17-08-	4	1.0	8	5.0		10.0	
OUTFALL-01-20-08-	4	1.0	nd	5.0		10.0	
OUTFALL-01-21-08-	4	1.0	nd	5.0		10.0	
OUTFALL-01-22-08-	4	1.0	6	5.0		10.0	
OUTFALL-01-23-08-	5	1.0	6	5.0		10.0	
OUTFALL-01-24-08-	5	1.0	6	5.0		10.0	
OUTFALL-01-27-08-	5	1.0	7	5.0		10.0	
OUTFALL-01-28-08-	5	1.0	6	5.0		10.0	
OUTFALL-01-29-08-	5	1.0	7	5.0		10.0	

Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
OUTFALL001							
OUTFALL-01-30-08-	4	1.0	8	5.0		10.0	
OUTFALL-01-31-08-	4	1.0	7	5.0		10.0	
D0							
MW-53i-01-24-08-09:25	48	1.0		5.0		10.0	
A2 Cleaning Supply-01-03-08-13:50	101	1.0		5.0		10.0	
D2							
MW-17-01-24-08-10:40	866	1.0		5.0		10.0	
MW-38d-01-31-08-09:00	133	1.0		5.0		10.0	
MW-56s-01-18-08-11:20	126	1.0		5.0		10.0	
MW-92-01-28-08-11:00	22	1.0		5.0		10.0	
MW-113-01-28-08-11:45	19	1.0		5.0		10.0	
MW-KD-1s-01-28-08-12:10	26	1.0		5.0		10.0	
MW-KD-1d-01-28-08-12:35	155	1.0		5.0		10.0	
593 Allison-01-28-08-14:00	441	1.0		5.0		10.0	
E							
MW-30d-01-31-08-13:35	1112	1.0		5.0		10.0	
MW-71-01-31-08-12:10	1119	1.0		5.0		10.0	
MW-72s-01-18-08-09:10	36	1.0		5.0		10.0	
MW-72d-01-18-08-09:50	3124	1.0		5.0		10.0	
MW-79s-01-11-08-10:20	287	1.0		5.0		10.0	
MW-79d-01-11-08-09:45	36	1.0		5.0		10.0	
MW-81-01-08-08-10:15	442	1.0		5.0		10.0	
MW-83s-01-18-08-10:30	399	1.0		5.0		10.0	
MW-84s-01-23-08-12:55	543	1.0		5.0		10.0	
MW-84d-01-23-08-12:20	nd	1.0		5.0		10.0	
MW-85-01-08-08-11:45	1161	1.0		5.0		10.0	
MW-87s-01-11-08-14:00	12	1.0		5.0		10.0	
MW-88-01-11-08-11:05	218	1.0		5.0		10.0	

Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
E							
MW-90-01-11-08-11:50	40	1.0		5.0		10.0	
MW-100-01-14-08-14:30	129	1.0		5.0		10.0	
MW-101-01-24-08-11:40	402	1.0		5.0		10.0	
MW-104-01-14-08-10:05	nd	1.0		5.0		10.0	
MW-105s-01-08-08-14:15	2273	1.0		5.0		10.0	
MW-105d-01-08-08-13:59	755	1.0		5.0		10.0	
MW-106s-01-24-08-14:40	1020	1.0		5.0		10.0	
MW-106d-01-24-08-14:10	1	1.0		5.0		10.0	
MW-107-01-28-08-13:05	27	1.0		5.0		10.0	
MW-110-01-14-08-10:45	26	1.0		5.0		10.0	
MW-115-01-14-08-09:15	1131	1.0		5.0		10.0	No Static due to Maple Inj off.
MW-116-01-18-08-08:25	397	1.0		5.0		10.0	
TW-15-01-07-08-13:50	134	1.0		5.0		10.0	
Maple Injection							
Maple-Inj-01-02-08-08:10	12	1.0	nd	5.0		10.0	
Maple-Inj-01-03-08-08:40	8	1.0	7	5.0		10.0	
Maple-Inj-01-04-08-09:10	12	1.0	nd	5.0		10.0	
Maple-Inj-01-07-08-09:10	12	1.0	6	5.0		10.0	
Maple-Inj-01-08-08-08:05	10	1.0	6	5.0		10.0	
Maple-Inj-01-09-08-07:30	12	1.0	nd	5.0		10.0	
Maple-Inj-01-10-08-08:10	13	1.0	nd	5.0		10.0	
Maple-Inj-01-10-08-12:45	11	1.0	7	5.0		10.0	
Maple-Inj-01-11-08-07:50	13	1.0	nd	5.0		10.0	
Maple-Inj-01-22-08-11:55	10	1.0	6	5.0		10.0	
Maple-Inj-01-23-08-07:40	12	1.0	nd	5.0		10.0	
Maple-Inj-01-31-08-08:45	9	1.0	14	5.0		10.0	
Maple-Inj-01-31-08-12:50	12	1.0	5	5.0		10.0	
None							

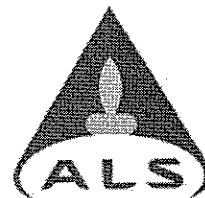
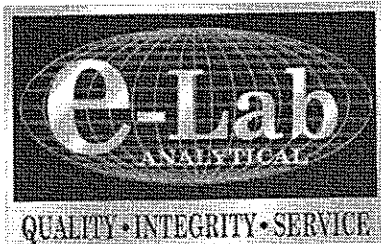
Sample Name - Date Sampled - Time Sampled	1,4-Dioxane Results (ppb)	R.L. (ppb)	Bromate Results (ppb)	R.L. (ppb)	Bromide Results (ppb)	R.L. (ppb)	Comments
None							
HC/HR-01-02-08-09:45		1.0	nd	2.0		10.0	
HC/HR-01-03-08-09:45		1.0	nd	2.0		10.0	
HC/HR-01-04-08-09:45		1.0	nd	2.0		10.0	
HC/HR-01-07-08-07:50		1.0	nd	2.0		10.0	
HC/HR-01-08-08-08:30		1.0	nd	2.0		10.0	
HC/HR-01-09-08-09:30		1.0	nd	2.0		10.0	
HC/HR-01-10-08-07:20		1.0	nd	2.0		10.0	
HC/HR-01-11-08-08:00		1.0	nd	2.0		10.0	
HC/HR-01-14-08-08:10		1.0	nd	2.0		10.0	
HC/HR-01-15-08-08:35		1.0	nd	2.0		10.0	
HC/HR-01-16-08-09:00		1.0	nd	2.0		10.0	
HC/HR-01-17-08-09:30		1.0	nd	2.0		10.0	
HC/HR-01-18-08-07:30		1.0	nd	2.0		10.0	
HC/HR-01-21-08-08:00		1.0	nd	2.0		10.0	
HC/HR-01-22-08-09:00		1.0	nd	2.0		10.0	
HC/HR-01-23-08-07:40		1.0	nd	2.0		10.0	
HC/HR-01-24-08-08:00		1.0	nd	2.0		10.0	
HC/HR-01-25-08-07:45		1.0	nd	2.0		10.0	
HC/HR-01-28-08-08:05		1.0	nd	2.0		10.0	
HC/HR-01-29-08-07:40		1.0	nd	2.0		10.0	
HC/HR-01-30-08-07:50		1.0	nd	2.0		10.0	
HC/HR-01-31-08-07:45		1.0	nd	2.0		10.0	

nd=Not detected at or above the Reporting Limit (R.L.)

1,4-Dioxane Precision and Accuracy Control Charting

Analysis Date	Method Blank	CVS True Value	CVS Result	CVS % Recovery	LFB True Value:	LFB Result:	LFB % Recovery:	Sample Result:	MS/MSD True Value:	MS Result:	MSD Result:	MS % Recovery:	MSD % Recovery:	MS/MSD Mean:	MS/MSD RSD:	MS/MSD RPD:
1/2/2008	0	10.00	10.08	100.8%	10.00	10.51	105.1	4.70	10.00	15.23	15.58	105.3	108.8	15.41	1.61	2.27%
1/4/2008	0	10.00	10.08	100.8%	10.00	9.83	98.3	7.97	10.00	18.90	18.89	109.3	109.2	18.90	0.04	0.05%
1/7/2008	0	10.00	9.83	98.3%	10.00	9.97	99.7	12.57	10.00	22.99	25.46	104.2	128.9	24.23	7.21	10.20%
	0	10.00	9.94	99.4%	10.00	10.13	101.3		10.00							
1/8/2008	0	10.00	10.21	102.1%	10.00	10.01	100.1	10.50	10.00	19.53	20.07	90.3	95.7	19.80	1.93	2.73%
1/9/2008	0	10.00	9.93	99.3%	10.00	10.13	101.3	12.07	10.00	22.89	22.18	108.2	101.1	22.54	2.23	3.15%
1/10/2008	0	10.00	10.19	101.9%	10.00	9.72	97.2	12.84	10.00	22.18	22.03	93.4	91.9	22.11	0.48	0.68%
1/11/2008	0	10.00	9.53	95.3%	10.00	9.60	96	13.33	10.00	23.16	23.49	98.3	101.6	23.33	1.00	1.41%
1/15/2008	0	10.00	9.68	96.8%	10.00	9.66	96.6	4.30	10.00	14.84	14.72	105.4	104.2	14.78	0.57	0.81%
1/16/2008	0	10.00	9.72	97.2%	10.00	9.77	97.7		10.00							
1/17/2008	0	10.00	9.52	95.2%	10.00	9.46	94.6		10.00							
1/18/2008	0	10.00	9.65	96.5%	10.00			9.30	10.00							
	0	10.00			10.00	9.62	96.2		10.00							
1/21/2008	0	10.00	8.12	81.2%	10.00	8.31	83.1		10.00							
1/22/2008	0	10.00	9.48	94.8%	10.00	9.33	93.3	9.72	10.00	20.27	20.31	105.5	105.9	20.29	0.14	0.20%
1/23/2008	0	10.00	9.45	94.5%	10.00	9.42	94.2	12.45	10.00	22.31	21.78	98.6	95.3	22.05	1.70	2.40%
1/24/2008	0	10.00	9.95	99.5%	10.00	9.93	99.3		10.00							
1/25/2008	0	10.00	10.21	102.1%	10.00	9.75	97.5	4.75	10.00	15.74	15.44	109.9	106.9	15.59	1.36	1.92%
1/28/2008	0	10.00	9.91	99.1%	10.00	10.00	100	5.02	10.00	14.86	15.35	98.4	103.3	15.11	2.29	3.24%
1/29/2008	0	10.00	10.07	100.7%	10.00	10.01	100.1	5.04	10.00	14.88	16.67	98.4	116.3	15.78	8.02	11.35%
1/30/2008	0	10.00	9.85	98.5%	10.00	9.20	92	4.76	10.00	14.92	15.43	101.6	106.7	15.18	2.38	3.36%
1/31/2008	0	10.00	9.83	98.3%	10.00	9.60	96	8.68	10.00	18.90	19.08	102.2	104	18.99	0.67	0.95%

CVS Mean: 9.77 CVS Standard Dev.: 0.45 3 Standard Dev.: 1.34 Lower Control Limit: 8.43 Upper Control Limit: 11.12



February 06, 2008

Wendy Schultz
Pall Life Sciences
600 South Wagner Road
Ann Arbor, MI 48103-9019

Tel: (734) 913-6598
Fax: (734) 913-6427

Re: Oxalic Acid Analysis-January 2008

Work Order : **0801499**

Dear Wendy,

e-Lab Analytical, Inc received 1 sample on 1/29/2008 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 6.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: IL100452

e.Lab Analytical, Inc
Part of the **ALS Laboratory Group**
3352 128th Avenue Holland, Michigan 49424-9263
Phone: (616) 399-6070 Fax: (616) 399-6185
www.elabi.com www.alsglobal.com
A Campbell Brothers Limited Company

Client: Pall Life Sciences
Project: Oxalic Acid Analysis-January 2008
Work Order: 0801499

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0801499-01	Outfall 001-01-23-08	Water		1/24/2008	1/29/2008 10:00	<input type="checkbox"/>

e-Lab Analytical, Inc

Date: February 06, 2008

CLIENT: Pall Life Sciences
Project: Oxalic Acid Analysis-January 2008

Work Order: 0801499

Lab ID: 0801499-01A
Client Sample ID: Outfall 001-01-23-08

Collection Date: 1/24/2008
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC ACIDS BY HPLC			HPLC			Analyst: JD
Oxalic acid	ND		150	µg/L	1	2/5/2008

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results RPD > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

CLIENT: Pall Life Sciences

QC BATCH REPORT

Work Order: 0801499

Project: Oxalic Acid Analysis-January 2008

Batch ID: **R56186** Instrument ID **HPLC1** Method: **HPLC**

MBLK	Sample ID: MB-R56186	Units: mg/L						Analysis Date: 02/05/08 0:00		
Client ID:	Run ID: HPLC1_080205A	SeqNo: 924344	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	ND	0.15								

LCS	Sample ID: LCS-R56186	Units: mg/L						Analysis Date: 02/05/08 0:00		
Client ID:	Run ID: HPLC1_080205A	SeqNo: 924345	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	480.2	0.15	500	0	96	80-120	0			

LCSD	Sample ID: LCSD-R56186	Units: mg/L						Analysis Date: 02/05/08 0:00		
Client ID:	Run ID: HPLC1_080205A	SeqNo: 924349	Prep Date:	DF: 1						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	478.6	0.15	500	0	95.7	80-120	480.2	0.33	20	

MS	Sample ID: 0801499-01A MS	Units: mg/L						Analysis Date: 02/05/08 0:00		
Client ID: Outfall 001-01-23-08	Run ID: HPLC1_080205A	SeqNo: 924347	Prep Date:	DF: 2						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	778.2	0.30	1000	0	77.8	45-85	0			

MSD	Sample ID: 0801499-01A MSD	Units: mg/L						Analysis Date: 02/05/08 0:00		
Client ID: Outfall 001-01-23-08	Run ID: HPLC1_080205A	SeqNo: 924348	Prep Date:	DF: 2						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxalic acid	769	0.30	1000	0	76.9	45-85	778.2	1.2	20	

The following samples were analyzed in this batch: 0801499-01A

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- O - Referenced analyte value is > 4 times amount spiked
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- P - Dual Column results percent difference > 40%
- B - Analyte detected in assoc. Method Blank
- U - Analyzed for but not detected
- E - Value above quantitation range

Company Pall Corporation
Name Wendy Schultz
Street 600 S Wagner Rd
City Ann Arbor MI State MI Zip 48103
Phone (734) 913-6598 Fax _____

Required Completion Date: ___/___/___ Fax the Report: Yes / No
Requested Turnaround: Standard * 4 business days * 48 hours
24 hours * 3 business days * ASAP/Same day
Project Name / Number: _____
Print Sampler Name: Robert Ursiny

	Sample Identification or Location (This will appear on the final report)	Sample Date	Sample Time	Water Matrix				Number of Containers	Requested Testing	Preservation					Lab ID
				Drinking	Ground	Surface	Waste			None	4°C	HCl	HNO ₃	H ₂ SO ₄	
1	<u>Outfall 001 - 01-23-08</u>	<u>01/24/08</u>	<u>:</u>		<u>X</u>			<u>1</u>	<u>oxalic acid</u>	<u>X</u>					
2		<u>/ /</u>	<u>:</u>												
3		<u>/ /</u>	<u>:</u>												
4		<u>/ /</u>	<u>:</u>												
5		<u>/ /</u>	<u>:</u>												
6		<u>/ /</u>	<u>:</u>												
7		<u>/ /</u>	<u>:</u>												
8		<u>/ /</u>	<u>:</u>												
9		<u>/ /</u>	<u>:</u>												
10		<u>/ /</u>	<u>:</u>												
11		<u>/ /</u>	<u>:</u>												
12		<u>/ /</u>	<u>:</u>												
13		<u>/ /</u>	<u>:</u>												
14		<u>/ /</u>	<u>:</u>												
15		<u>/ /</u>	<u>:</u>												
Released by: <u>Jessica Reade</u>		Date: <u>1/23/08</u>	Time: <u>12:30</u>	Received by: <u>[Signature]</u>				Date: <u>1/24/08</u>	Time: <u>10:00</u>						
Released by: _____		Date: <u>/ /</u>	Time: <u>:</u>	Received by: _____				Date: <u>/ /</u>	Time: <u>:</u>						

[Signature]

Sample Receipt Checklist


Client Name PALL

Date/Time Received: 1/29/2008 10:00:00 AM

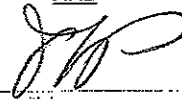
Work Order Number 0801499

Received by: ARB

Checklist completed by

Signature  Date 1/29/08

Reviewed by

Initials  Date 1/30/08

Matrix:

Carrier name: UPS

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

0.6 C

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace?

Yes No No VOA vials submitted

Water - pH acceptable upon receipt?

Yes No N/A

Adjusted? No

Checked by 

Login Notes:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action