



Pall Corporation

Sample Analysis Report

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

May, 2011

Analyst Initials: RL
Date: 6-14-11

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
Residential Wells							
D0							
5005 Jackson Rd-05-17-11-11:45-1	30	1.0					
D2							
2652 Dexter Rd-05-04-11-10:40-1	2	1.0					
305 Pinewood-05-11-11-08:45-1	3	1.0					
3225 Dexter Rd-05-03-11-09:30-1	nd	1.0					
3249 Dexter Rd-05-18-11-10:30-1	nd	1.0					
3365 Jackson Rd-05-13-11-14:00-1	329	1.0					
373 Pinewood Shallow-05-11-11-09:30-1	659	1.0					
453 Dupont-05-03-11-10:55-1	3	1.0					
456 Clarendon-05-12-11-11:15-1	1134	1.0					
465 Dupont-05-18-11-09:30-1	1573	1.0					
E							
373 Pinewood Deep-05-11-11-14:30-1	nd	1.0					
Not Determined							
505 Lakeview Ave-05-20-11-13:15-1	nd	1.0					
Extraction Wells							
C3							
DOLPH-05-02-11-07:54-1	68	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
TW-1-05-02-11-08:00-1	97	1.0					
TW-10-05-02-11-09:42-1	658	1.0					
TW-14-05-02-11-09:48-1	131	1.0					
TW-20-05-02-11-09:36-1	1460	1.0					
TW-3-05-19-11-13:30-1	3	1.0					
D2							
HZ-S-05-02-11-09:54-1	894	1.0					
LB-1-05-02-11-10:30-1	567	1.0					
LB-3-05-02-11-10:27-1	531	1.0					
MW-11d-05-19-11-11:05-1	123	1.0					
TW-5-05-02-11-09:25-1	824	1.0					
TW-9-05-02-11-09:50-1	869	1.0					
E							
MW-64-05-19-11-12:10-1	46	1.0					
TW-11-05-02-11-09:27-1	216	1.0					
TW-12-05-19-11-13:05-1	23	1.0					
TW-17-05-02-11-09:45-1	91	1.0					
TW-18-05-02-11-07:56-1	317	1.0					
Marshy							
PW-1-05-02-11-07:58-1	905	1.0					
Not Applicable							
SW-COMB-05-02-11-07:52-1	466	1.0					
SW							
TW-22-05-02-11-09:20-1	584	1.0					
TW-4-05-19-11-14:30-1	35	1.0					
TW-8-05-02-11-10:10-1	528	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
Monitoring Wells							
C3							
MW-11i-05-17-11-09:00-1	8	1.0					
MW-125-05-13-11-11:20-1	317	1.0					
MW-127s-05-13-11-09:55-1	nd	1.0					
MW-128s-05-11-11-12:00-1	nd	1.0					
MW-18d-05-17-11-10:35-1	154	1.0					
MW-22-05-17-11-11:15-1	838	1.0					
MW-37-05-13-11-12:00-1	190	1.0					
MW-75-05-03-11-14:15-1	135	1.0					
D0							
A2 Cleaning Supply-05-05-11-11:20-1	107	1.0					
D2							
430 Barber West-05-03-11-11:15-1	69	1.0					
593 Allison-05-04-11-09:40-1	419	1.0					
MW-134i-05-12-11-14:20-1	7	1.0					
MW-134s-05-12-11-14:40-1	9	1.0					
MW-38d-05-17-11-09:50-1	80	1.0					
MW-400 Clarendon-05-12-11-10:10-1	nd	1.0					
MW-54d-05-04-11-13:50-1	29	1.0					
MW-54s-05-04-11-14:15-1	nd	1.0					
MW-55-05-03-11-10:15-1	19	1.0					
MW-56s-05-11-11-10:30-1	62	1.0					
MW-77-05-03-11-11:55-1	1297	1.0					
MW-KD-1d-05-04-11-11:40-1	118	1.0					
MW-KD-1s-05-04-11-11:10-2	37	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
MW-KZ-1-05-12-11-09:30-1	nd	1.0					
E							
MW-100-05-02-11-14:25-1	690	1.0					
MW-115-05-16-11-13:50-1	715	1.0					
MW-127d-05-13-11-09:35-1	nd	1.0					
MW-128d-05-11-11-11:35-1	nd	1.0					
MW-134d-05-12-11-13:40-1	5	1.0					
MW-65d-05-16-11-12:15-1	30	1.0					
MW-79s-05-16-11-14:30-1	267	1.0					
MW-85-05-12-11-12:10-1	2476	1.0					
MW-87d-05-18-11-11:50-1	823	1.0					
MW-87s-05-18-11-11:20-1	1106	1.0					
MW-88-05-17-11-13:50-1	403	1.0					
TW-15-05-18-11-14:40-1	343	1.0					
SW							
MW-48-05-13-11-14:35-1	142	1.0					
MW-78-05-13-11-10:25-1	28	1.0					
Surface Water							
Not Applicable							
HC/HR-05-02-11-08:10-1			nd	2.0			
HC/HR-05-03-11-08:05-1			nd	2.0			
HC/HR-05-04-11-07:45-1			nd	2.0			
HC/HR-05-05-11-10:00-1			nd	2.0			
HC/HR-05-06-11-09:00-1			nd	2.0			
HC/HR-05-09-11-09:00-1			nd	2.0			
HC/HR-05-10-11-09:00-1			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
HC/HR-05-11-11-07:45-1			nd	2.0			
HC/HR-05-12-11-08:10-1			nd	2.0			
HC/HR-05-13-11-07:45-1			nd	2.0			
HC/HR-05-16-11-08:25-1			nd	2.0			
HC/HR-05-17-11-07:50-1			nd	2.0			
HC/HR-05-18-11-07:55-1			nd	2.0			
HC/HR-05-19-11-08:25-1			nd	2.0			
HC/HR-05-20-11-08:05-1			nd	2.0			
HC/HR-05-23-11-08:10-1			nd	2.0			
HC/HR-05-24-11-07:45-1			nd	2.0			
HC/HR-05-25-11-08:15-1			nd	2.0			
HC/HR-05-26-11-08:15-1			nd	2.0			
HC/HR-05-27-11-08:10-1			nd	2.0			
HC/HR-05-31-11-08:05-1			nd	2.0			
Treatment System							
OUTFALL-05-01-11-1	4	1.0					
OUTFALL-05-01-11-			nd	5.0			
OUTFALL-05-02-11-1	4	1.0					
OUTFALL-05-02-11-02			nd	5.0			
OUTFALL-05-03-11-1	6	1.0					
OUTFALL-05-03-11-			nd	5.0			
OUTFALL-05-04-11-1	5	1.0					
OUTFALL-05-04-11-			nd	5.0			
OUTFALL-05-05-11-1	5	1.0					
OUTFALL-05-05-11-			nd	5.0			
OUTFALL-05-08-11-1	5	1.0					
OUTFALL-05-08-11-			5.0	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
OUTFALL-05-09-11-1	5	1.0					
OUTFALL-05-09-11-			nd	5.0			
OUTFALL-05-10-11-1	4	1.0					
OUTFALL-05-10-11-			nd	5.0			
OUTFALL-05-11-11-1	5	1.0					
OUTFALL-05-11-11-			nd	5.0			
OUTFALL-05-12-11-1	5	1.0					
OUTFALL-05-12-11-			nd	5.0			
OUTFALL-05-15-11-1	5	1.0					
OUTFALL-05-15-11-			5	5.0			
OUTFALL-05-16-11-1	7	1.0					
OUTFALL-05-16-11-02			5	5.0			
OUTFALL-05-17-11-1	6	1.0					
OUTFALL-05-17-11-			5	5.0			
OUTFALL-05-18-11-1	6	1.0					
OUTFALL-05-18-11-			5	5.0			
OUTFALL-05-19-11-1	5	1.0					
OUTFALL-05-19-11-			5	5.0			
OUTFALL-05-22-11-1	6	1.0					
OUTFALL-05-22-11-			nd	5.0			
OUTFALL-05-23-11-1	7	1.0					
OUTFALL-05-23-11-			nd	5.0			
OUTFALL-05-24-11-1	5	1.0					
OUTFALL-05-24-11-			nd	5.0			
OUTFALL-05-25-11-1	4	1.0					
OUTFALL-05-25-11-			5	5.0			
OUTFALL-05-26-11-1	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
OUTFALL-05-26-11-			5	5.0			
OUTFALL-05-29-11-1	4	1.0					
OUTFALL-05-29-11-			nd	5.0			
OUTFALL-05-30-11-1	6	1.0					
OUTFALL-05-30-11-			nd	5.0			
OUTFALL-05-31-11-1	7	1.0					
OUTFALL-05-31-11-			nd	5.0			
Red Pond-05-02-11-07:50-1	398	1.0					
Red Pond-05-09-11-08:20-1	480	1.0					
Red Pond-05-16-11-08:05-1	570	1.0					
Red Pond-05-23-11-08:15-1	538	1.0					
Red Pond-05-31-11-09:00-1	531	1.0					

1,4-Dioxane Precision and Accuracy Control Charting

<i>Analysis Date</i>	<i>Method Blank</i>	<i>CVS True Value</i>	<i>CVS Result</i>	<i>CVS % Recovery</i>	<i>LFB True Value:</i>	<i>LFB Result:</i>	<i>LFB % Recovery:</i>	<i>Sample Result:</i>	<i>MS/MSD True Value:</i>	<i>MS Result:</i>	<i>MSD Result:</i>	<i>MS % Recovery:</i>	<i>MSD % Recovery:</i>	<i>MS/MSD Mean:</i>	<i>MS/MSD RSD:</i>	<i>MS/MSD RPD:</i>
5/3/2011	0	10.00	8.20	82.0%	10.00	8.90	89.0%	3.00	10.00	12.20	11.80	92.0%	88.0%	12.00	3.33%	
5/10/2011	0	10.00	11.40	114.0%	10.00	11.10	111.0%	4.60	10.00	14.70	16.40	101.0%	118.0%	15.55	10.93%	
	0	10.00	11.10	111.0%	10.00	10.10	101.0%	29.20	10.00	38.10	40.50	89.0%	113.0%	39.30	6.11%	
5/11/2011	0	10.00	11.50	115.0%	10.00	10.80	108.0%	4.30	10.00	14.30	15.70	100.0%	114.0%	15.00	9.33%	
5/12/2011	0	10.00	10.90	109.0%	10.00	10.80	108.0%	5.20	10.00	13.60	14.00	84.0%	88.0%	13.80	2.90%	
5/13/2011	0	10.00	11.00	110.0%	10.00	10.20	102.0%	5.30	10.00	16.40	18.00	111.0%	127.0%	17.20	9.30%	
5/16/2011	0	10.00	11.50	115.0%	10.00	11.20	112.0%	5.40	10.00	16.60	17.90	112.0%	125.0%	17.25	7.54%	
5/18/2011	0	10.00	11.50	115.0%	10.00	10.40	104.0%	6.00	10.00	17.60	17.90	116.0%	119.0%	17.75	1.69%	
5/19/2011	0	10.00	9.80	98.0%	10.00	9.20	92.0%	5.80	10.00	16.60	16.20	108.0%	104.0%	16.40	2.44%	
5/20/2011	0	10.00	11.00	110.0%	10.00	10.10	101.0%	5.30	10.00	9.60	14.50	43.0%	92.0%	12.05	40.66%	
5/23/2011	0	10.00	8.70	87.0%	10.00	11.50	115.0%	5.70	10.00	16.80	17.90	111.0%	122.0%	17.35	6.34%	
5/24/2011	0	10.00	10.80	108.0%	10.00	11.50	115.0%	6.60	10.00	18.10	17.40	115.0%	108.0%	17.75	3.94%	
5/25/2011	0	10.00	11.70	117.0%	10.00	11.40	114.0%	5.10	10.00	15.20	17.60	101.0%	125.0%	16.40	14.63%	
5/26/2011	0	10.00	10.80	108.0%	10.00	10.30	103.0%	4.50	10.00	14.50	15.30	100.0%	108.0%	14.90	5.37%	
5/27/2011	0	10.00	10.80	108.0%	10.00	11.00	110.0%	4.40	10.00	16.00	15.30	116.0%	109.0%	15.65	4.47%	

CVS Mean: 10.71	2 Standard Dev.: 2.06	Upper Warning Limit: 12.78	Upper Control Limit: 13.81
CVS Standard Dev: 1.03	3 Standard Dev.: 3.09	Lower Warning Limit: 8.65	Lower Control Limit: 7.62