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Pall Life Sciences
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CASE NARRATIVE
Monthly Data Pall Life Sciences
Project: 1,4-Dioxane Remediation
Date: July 2020

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Gelman Sciences, Inc. d/b/a Pall Life Sciences (PLS) attests to the validity of the laboratory data generated by PLS's Ann Arbor, Michigan Environmental Laboratory facilities reported herein. All analyses performed by PLS's Environmental Laboratory facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. PLS's Environmental group has reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Some samples were analyzed at Ann Arbor Technical Services (ATS) for 1,4-dioxane due to delayed service from manufacturer. In the sample analysis report these samples are designate as "O" in the comment section. The balance of the 1,4-dioxane samples and all bromate samples were analyzed at Pall Corporation's Environmental Laboratory. All test results in this report meet all NELAP requirements for parameters for which accreditation are required or available. Any exceptions to NELAP requirements are noted in this report. All exceptions are noted per laboratory standard operating procedure based on EPA Method 1624c. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

The delay is sample analysis was due to a catastrophic autosampler failure that took considerable time to isolate and fix. The manufacturer's representative made major repairs only to find out that these repairs did not entirely fix the problems. Samples were sent out to ATS for analysis after the service engineer was unable to eliminate all problems during his service call.

Calculations are performed before rounding to avoid round-off errors in calculated results. The odd even rule is used for rounding. Holding times were met for all samples analyzed. Proper preservation was observed on all samples unless otherwise detailed in the individual sections below.

RECEIPT/ STORAGE

The samples were received on the days noted in the report for the Month; the samples arrived in good condition, properly preserved and on ice when necessary. Samples that require 1,4-dioxane analysis are collected in hydrochloric HCl acid-preserved vials to a pH of ≤2, with the exception of the Pall ozone treatment samples. These samples have chemicals that, when mixed with the HCl acid, cause interferences and trap damage. Every attempt is made to analyze these samples within 24 hours of receipt.

Samples that require Bromate analysis are collected and preserved in the laboratory with ethylene di-amine and refrigerated.

Samples that are delivered to the laboratory the same day as they are collected are likely not to have reached a fully chilled temperature. This is acceptable as long as there is evidence that chilling has begun. All samples are iced or refrigerated at 4°C (±2°C) from the time of collection until sample preparation or analysis.

1,4-Dioxane (GC-MS)

All ground water and treated water samples were analyzed for 1,4-Dioxane (GC-MS) in accordance with EPA 1624C, which has been modified to enhance detection limits. Samples that were diluted to bring them within the calibrated range of the instrument are noted with a "D" under the Qualifier Code section of the data report. Reporting limits were adjusted based on each dilution.

Reporting limit for undiluted samples is 1.0ppb (part per billion, micrograms per liter, µg/L). All quality control parameters were within the acceptance limits. All data is reported with two significant figures.

Bromate (Ion Chromatography)

All surface water and treated samples were analyzed for Bromate (Ion Chromatography) in accordance with EPA 300.1. Surrogates are added to all samples. All quality control parameters were within the acceptance limits with the balance of sample analyzed.

The reporting limit for treated samples is 5.0ppb and for surface samples is 2.0ppb. All data is reported with 2 significant figures.

Qualifiers

1,4-Dioxane Qualifier Codes:

Qualifier Code	*Description*
nd:	The compound was analyzed for, but was not detected at or above the detection limit indicated.
D:	Analyte value quantified from a dilution, reporting limit is raised to reflect dilution.
E:	The compound result is greater than the upper quantitation limit in the associated calibration curve, reported as estimate.
B:	The sample vials contained air bubbles larger than 5mm, which may affect compound results.
J:	The compound was positively identified; the associated numerical value is the approximate concentration.
M:	Matrix effects, sample required dilution.
R:	The reported value is unusable and rejected due to variance from quality control criteria.
V:	The reported value is considered estimated due to variance from quality control criteria.
H:	Sample was analyzed past 14 day hold time, but within 45 days.
O:	Samples analyzed in outside laboratory.
S:	Samples split with DEQ.

Bromate Qualifier Codes:

Qualifier Code	*Description*
nd:	The compound was analyzed for, but was not detected at or above the detection limit indicated.
E:	The compound result is greater than the upper quantitation limit in the associated calibration curve.
J:	The compound was positively identified; the associated numerical value is the approximate concentration.
R:	The reported value is unusable and rejected due to variance from quality control criteria.
V:	The reported value is considered estimated due to variance from quality control criteria.
H:	Sample was analyzed past 28 day hold time

Analyst: *Susan E.O. Peters* Susan E.O. Peters Date: 8/10/20

Report Checked by: *Raymond Woods* Date: 8/10/20

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Sample Analysis Report

July, 2020

Analyst Initials: _____
Date: _____

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)
Extraction Wells								
C3								
DOLPH-07-13-20-10:20-1	140	10.0						D, O
TW-20-07-13-20-10:25-1	860	10.0						D, O
D2								
LB-4-07-13-20-09:45-1	470	10.0						D, O
TW-21-07-13-20-10:10-1	270	10.0						D, O
E								
TW-18-07-13-20-10:15-1	230	10.0						D, O
TW-19-07-13-20-09:40-1	580	10.0						O,D
TW-23-07-13-20-09:55-1	560	10.0						D, O
Marshy								
PW-1-07-13-20-10:18-1	460	10.0						D, O
SW								
TW-22-07-13-20-10:28-1	470	10.0						D, O
TW-28-07-13-20-10:30-1	430	10.0						D, O
Monitoring Wells								
C3								
MW-23-07-24-20-11:15-1	200	10.0						O, D
MW-25d-07-24-20-09:59-1	60	10.0						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)
D0								
110 Parkland Plaza-07-10-20-09:55-1	1	1.0						O
4141 Jackson Rd-07-10-20-11:22-1	2	1.0						O
A2 Cleaning Supply-07-08-20-11:25-1	57	5.0						D
MW-53d-07-08-20-09:59-01	nd	1.0						
MW-53i-07-08-20-11:09-1	25	1.0						
MW-53s-07-08-20-09:48-01	nd	1.0						
D2								
2819 Dexter Rd-07-27-20-11:50-1	150	10.0						O, D
MW-107-07-15-20-14:52-1	740	10.0						D, O
MW-113-07-15-20-13:33-1	100	10.0						D, O
MW-118-07-23-20-11:16-1	60	10.0						O, D
MW-120s-07-15-20-12:14-1	nd	1.0						O
MW-121s-07-15-20-08:34-1	nd	1.0						O
MW-122s-07-22-20-12:59-1	210	10.0						O, D
MW-123s-07-16-20-10:28-1	nd	1.0						O
MW-124s-07-22-20-10:17-1	nd	1.0						O
MW-129i-07-20-20-10:26-1	nd	1.0						O
MW-129s-07-20-20-09:16-1	nd	1.0						O
MW-134i-07-28-20-11:51-1	7	1.0						O
MW-134s-07-28-20-13:01-1	9	1.0						O
MW-54d-07-16-20-12:58-1	39	1.0						O
MW-54s-07-16-20-11:49-1	nd	1.0						O
MW-92-07-21-20-10:56-1	60	10.0						O, D
MW-94s-07-28-20-14:23-1	650	10.0						O, D
MW-BE-1d-07-21-20-12:29-1	480	10.0						O, D
MW-BE-1s-07-21-20-13:40-1	640	10.0						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-07-27-20-14:20-1	370	10.0						O, D
MW-KD-1s-07-27-20-13:09-1	130	10.0						O, D
E								
MW-100-07-22-20-14:20-1	2000	40.0						O, D
MW-101-07-14-20-11:36-1	80	10.0						D, O
MW-103d-07-09-20-12:31-1	6	1.0						O
MW-103s-07-09-20-12:04-1	70	10.0						O, D
MW-104-07-14-20-09:02-1	19	1.0						O
MW-106d-07-23-20-08:39-1	nd	1.0						O
MW-106s-07-23-20-09:54-1	240	10.0						O, D
MW-108d-07-23-20-13:58-1	690	10.0						O, D
MW-108s-07-23-20-12:46-1	230	10.0						O, D
MW-110-07-14-20-10:19-1	100	10.0						D, O
MW-112d-07-09-20-09:59-1	1	1.0						O
MW-112i-07-09-20-11:10-1	9	1.0						O
MW-112s-07-09-20-09:47-1	nd	1.0						O
MW-115-07-27-20-10:27-1	470	10.0						O, D
MW-116-07-27-20-09:08-1	460	10.0						O, D
MW-119-07-17-20-11:15-1	26	1.0						O
MW-120d-07-15-20-11:03-1	nd	1.0						O
MW-121d-07-15-20-09:43-1	2	1.0						O
MW-122d-07-22-20-11:46-1	nd	1.0						O
MW-123d-07-16-20-09:05-1	nd	1.0						O
MW-124d-07-22-20-09:06-1	nd	1.0						O
MW-129d-07-20-20-11:39-1	2	1.0						O
MW-134d-07-28-20-10:39-1	6	1.0						O
MW-135-07-21-20-09:26-1	nd	1.0						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-69-07-28-20-09:12-1	nd	1.0						O
MW-76i-07-08-20-13:01-1	84	5.0						D
MW-76s-07-08-20-14:12-1	250	5.0						D
MW-79d-07-14-20-12:58-1	nd	1.0						O
MW-79s-07-14-20-14:08-1	280	10.0						D, O
MW-81-07-17-20-13:55-1	150	10.0						D, O
MW-84s-07-09-20-13:57-1	330	10.0						O, D
MW-85-07-16-20-14:23-1	560	10.0						D, O
MW-88-07-17-20-12:34-1	130	10.0						D, O
MW-89-07-17-20-08:33-1	1	1.0						O
MW-90-07-17-20-09:54-1	5	1.0						O
MW-97d-07-20-20-13:05-1	nd	1.0						O
MW-97s-07-20-20-14:16-1	nd	1.0						O
Marshy								
AMW-2-07-24-20-10:45-1	180	10.0						O, D
MOW-1-07-24-20-11:30-1	560	10.0						O, D
PMW-4-07-24-20-11:48-1	580	20.0						O, D
SH								
MW-25s-07-24-20-10:10-1	380	20.0						O, D
Surface Water								
Not Applicable								
HC/HR-07-01-20-07:45-1			nd	2.0				
HC/HR-07-02-20-08:00-1			nd	2.0				
HC/HR-07-06-20-08:18-1			nd	2.0				
HC/HR-07-07-20-07:54-1			nd	2.0				
HC/HR-07-08-20-07:20-01			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-07-09-20-07:39-1			nd	2.0				
HC/HR-07-10-20-07:33-1			nd	2.0				
HC/HR-07-13-20-08:10-1			nd	2.0				
HC/HR-07-14-20-08:10-1			nd	2.0				
HC/HR-07-15-20-09:35-1			nd	2.0				
HC/HR-07-16-20-08:30-1			nd	2.0				
HC/HR-07-17-20-08:10-1			nd	2.0				
HC/HR-07-20-20-09:20-1			nd	2.0				
HC/HR-07-21-20-08:00-1			nd	2.0				
HC/HR-07-22-20-08:05-1			nd	2.0				
HC/HR-07-23-20-08:15-1			nd	2.0				
HC/HR-07-24-20-10:20-1			nd	2.0				
HC/HR-07-27-20-08:10-1			nd	2.0				
HC/HR-07-28-20-08:15-1			nd	2.0				
HC/HR-07-29-20-09:20-1			nd	2.0				
HC/HR-07-30-20-08:05-1			nd	2.0				
HC/HR-07-31-20-07:50-1			nd	2.0				
Treatment System								
OUTFALL-07-01-20-1	5.2	1.0						
OUTFALL-07-01-20-2			7.0	5.0				
OUTFALL-07-05-20-1	5.4	1.0						
OUTFALL-07-05-20-2			8.1	5.0				
OUTFALL-07-06-20-1	5.4	1.0						
OUTFALL-07-06-20-2			8.1	5.0				
OUTFALL-07-07-20-01	5.3	1.0						
OUTFALL-07-07-20-02			7.5	5.0				
OUTFALL-07-08-20-2			6.0	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	Qualifier(s)
OUTFALL-07-08-20-1	5.2	1.0						
OUTFALL-07-09-20-2			8.4	5.0				
OUTFALL-07-09-20-1	5	1.0						O
OUTFALL-07-12-20-2			7.6	5.0				
OUTFALL-07-12-20-1	5	1.0						O
OUTFALL-07-13-20-2			8.8	5.0				
OUTFALL-07-13-20-1	5	1.0						O
OUTFALL-07-14-20-2			8.8	5.0				
OUTFALL-07-14-20-1	5	1.0						O
OUTFALL-07-15-20-2			9.2	5.0				
OUTFALL-07-15-20-1	4	1.0						O
OUTFALL-07-16-20-2			9.0	5.0				
OUTFALL-07-16-20-1	5	1.0						O
OUTFALL-07-19-20-2			8.3	5.0				
OUTFALL-07-19-20-1	5	1.0						O
OUTFALL-07-20-20-2			8.3	5.0				
OUTFALL-07-20-20-1	5	1.0						O
OUTFALL-07-21-20-2			8.6	5.0				
OUTFALL-07-21-20-1	5	1.0						O
OUTFALL-07-22-20-2			8.6	5.0				
OUTFALL-07-22-20-1	5	1.0						O
OUTFALL-07-23-20-2			8.9	5.0				
OUTFALL-07-23-20-1	5	1.0						O
OUTFALL-07-26-20-2			9.1	5.0				
OUTFALL-07-26-20-1	4	1.0						O
OUTFALL-07-27-20-2			8.2	5.0				
OUTFALL-07-27-20-1	5	1.0						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-07-28-20-2			8.2	5.0				
OUTFALL-07-28-20-1	5	1.0						O
OUTFALL-07-29-20-2			7.6	5.0				
OUTFALL-07-29-20-1	4	1.0						O
OUTFALL-07-30-20-1	5	1.0						O
OUTFALL-07-30-20-2			8.5	5.0				
Red Pond-07-06-20-08:45-1	380	10.0						D
Red Pond-07-13-20-08:30-1	360	10.0						O, D
Red Pond-07-20-20-09:46-1	370	10.0						O, D
Red Pond-07-27-20-08:35-1	340	10.0						O, D

PLS Qualifier Codes:

nd: The compound was analyzed for, but was not detected at or above the detection limit indicated.
D: Analyte value quantified from a dilution, reporting limit is raised to reflect dilution.
H: Sample was analyzed past 45 day hold time, but within 45 days used by ATS for same method with EPA approval.
O: Samples analyzed in outside laboratory, Ann Arbor Technical Services (ATS).

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Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Data Transmittal Cover Page

Project Name: Pall Corporation
ATS Project Number: G001-002
ATS Report Number(s): Org_SRF_0724201

Project Description: This data report contains the results of seventy-one water samples, received by ATS on 7/24/20, to be analyzed for 1,4-Dioxane.

We certify that the sample analyses for this report have been conducted in accordance with guidelines provided in the referenced standard test method, and are consistent with detailed procedures described in a written Standard Operating Procedure specific to the ATS Laboratories, as required by USEPA. Laboratory data sheets, SOPs, and QA/QC information are available for inspection and audit at the laboratory upon request. Unless specifically noted on the data report, all applicable sample preservation and holding time requirements have been met.

Recipient: Ms. Sue Peters **Email:** Sue_Peters@Pall.com
FAX Number:

No. of Pages (including cover pg.): 85

From: Sarah Stubblefield, Senior Chemist / Lab Manager **Email:** Sarah.Stubblefield@AnnArborTechnicalServices.com
FAX Number: 734-995-3731

Additional Message:

Date: 7/30/30 **Signed:**

IF YOU DO NOT RECEIVE ALL PAGES OF THIS TRANSMITTAL, PLEASE CALL 734-995-0995.

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ANN ARBOR TECHNICAL SERVICES, INC.

LABORATORY OPERATIONS
CASE NARRATIVE

ATS Project Number: G001-002
Report Date: 7/30/20
SRF / SDG Numbers: 0724201

Case Narrative Summary

This case narrative applies to the following samples that was received at Ann Arbor Technical Services, Inc. (ATS) on 7/24/20, and associated matrix-specific QA/QC:

Samples

Client Sample Identification	Sample Date	Requested Turn Around Time	Analysis	Matrix
Received 7/24/20				
Outfall 001	7/9/20	Rush	1,4-Dioxane	Treated Water
110 Parkland Plaza	7/10/20	Rush	1,4-Dioxane	Ground Water
4141 Jackson Rd.	7/10/20	Rush	1,4-Dioxane	Ground Water
MW-112s	7/9/20	Rush	1,4-Dioxane	Ground Water
MW-112d	7/9/20	Rush	1,4-Dioxane	Ground Water
MW-112i	7/9/20	Rush	1,4-Dioxane	Ground Water
MW-103s	7/9/20	Rush	1,4-Dioxane	Ground Water
MW-103d	7/9/20	Rush	1,4-Dioxane	Ground Water
MW-84s	7/9/20	Rush	1,4-Dioxane	Ground Water
Red Pond	7/13/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/12/20	Rush	1,4-Dioxane	Treated Water
TW-19	7/13/20	Rush	1,4-Dioxane	Ground Water
LB-4	7/13/20	Rush	1,4-Dioxane	Ground Water
TW-23	7/13/20	Rush	1,4-Dioxane	Ground Water
TW-21	7/13/20	Rush	1,4-Dioxane	Ground Water
TW-18	7/13/20	Rush	1,4-Dioxane	Ground Water
DOLPH	7/13/20	Rush	1,4-Dioxane	Ground Water
PW-1	7/13/20	Rush	1,4-Dioxane	Ground Water
TW-20	7/13/20	Rush	1,4-Dioxane	Ground Water
TW-22	7/13/20	Rush	1,4-Dioxane	Ground Water
TW-28	7/13/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/13/20	Rush	1,4-Dioxane	Treated Water
MW-104	7/14/20	Rush	1,4-Dioxane	Ground Water
MW-110	7/14/20	Rush	1,4-Dioxane	Ground Water

Consultants in Chemistry & Environmental Science
290 South Wagner Road, Ann Arbor, Michigan 48103 Tel 734/995-0995 Fax 734/995-3731

Client Sample Identification	Sample Date	Requested Turn Around Time	Analysis	Matrix
MW-101	7/14/20	Rush	1,4-Dioxane	Ground Water
MW-79d	7/14/20	Rush	1,4-Dioxane	Ground Water
MW-79s	7/14/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/14/20	Rush	1,4-Dioxane	Treated Water
MW-121s	7/15/20	Rush	1,4-Dioxane	Ground Water
MW-121d	7/15/20	Rush	1,4-Dioxane	Ground Water
MW-120d	7/15/20	Rush	1,4-Dioxane	Ground Water
MW-120s	7/15/20	Rush	1,4-Dioxane	Ground Water
MW-113	7/15/20	Rush	1,4-Dioxane	Ground Water
MW-107	7/15/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/15/20	Rush	1,4-Dioxane	Treated Water
MW-123d	7/16/20	Rush	1,4-Dioxane	Ground Water
MW-123S	7/16/20	Rush	1,4-Dioxane	Ground Water
MW-54s	7/16/20	Rush	1,4-Dioxane	Ground Water
MW-54d	7/16/20	Rush	1,4-Dioxane	Ground Water
MW-85	7/16/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/16/20	Rush	1,4-Dioxane	Treated Water
MW-89	7/17/20	Rush	1,4-Dioxane	Ground Water
MW-90	7/17/20	Rush	1,4-Dioxane	Ground Water
MW-119	7/17/20	Rush	1,4-Dioxane	Ground Water
MW-88	7/17/20	Rush	1,4-Dioxane	Ground Water
MW-81	7/17/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/19/20	Rush	1,4-Dioxane	Treated Water
Red Pond	7/20/20	Rush	1,4-Dioxane	Ground Water
MW-129s	7/20/20	Rush	1,4-Dioxane	Ground Water
MW-129I	7/20/20	Rush	1,4-Dioxane	Ground Water
MW-129d	7/20/20	Rush	1,4-Dioxane	Ground Water
MW-97d	7/20/20	Rush	1,4-Dioxane	Ground Water
MW-97s	7/20/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/20/20	Rush	1,4-Dioxane	Treated Water
MW-135	7/21/20	Rush	1,4-Dioxane	Ground Water
MW-92	7/21/20	Rush	1,4-Dioxane	Ground Water
MW-BE-1d	7/21/20	Rush	1,4-Dioxane	Ground Water
MW-BE-1s	7/21/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/21/20	Rush	1,4-Dioxane	Treated Water
MW-124d	7/22/20	Rush	1,4-Dioxane	Ground Water
MW-124s	7/22/20	Rush	1,4-Dioxane	Ground Water
MW-122d	7/22/20	Rush	1,4-Dioxane	Ground Water
MW-122s	7/22/20	Rush	1,4-Dioxane	Ground Water
MW-100	7/22/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/22/20	Rush	1,4-Dioxane	Treated Water
MW-106d	7/23/20	Rush	1,4-Dioxane	Ground Water

Client Sample Identification	Sample Date	Requested Turn Around Time	Analysis	Matrix
MW-106s	7/23/20	Rush	1,4-Dioxane	Ground Water
MW-118	7/23/20	Rush	1,4-Dioxane	Ground Water
MW-108s	7/23/20	Rush	1,4-Dioxane	Ground Water
MW-108d	7/23/20	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/23/20	Rush	1,4-Dioxane	Treated Water

Upon receipt, samples were scheduled for the following analyses:

Analysis	Number of Samples
• 1,4-Dioxane (US EPA 1624) (Standard Turn)	• 71 + 4 Matrix Spike / 4 Matrix Spike Duplicate

Sample Receipt, Chain of Custody Records, and Holding Times

Samples were delivered directly to ATS by Pall Corporation staff. Samples were received with proper chain of custody records included. Sample condition and anomalies, if any, are presented in the "Chain of Custody and Sample Receipt Documentation" section of this report.

Data Review and Approval

All data contained in this report have been generated in accordance with guidelines provided in the referenced standard test method, and are consistent with detailed procedures described in a written standard operating procedures (SOPs) specific to the ATS Laboratory, as required by US EPA. All data are peer and management reviewed to ensure compliance with the above referenced SOP's and project specifications. In addition all data conform to the laboratory's Quality Assurance / Quality Control Manuals.

A single QA/QC batch is defined as no more than 20 samples excluding method blanks (MB, LRB), fortified blanks (BS, LFB, LCS), matrix spikes (MS, SPK), and duplicates whether spiked or native (MSD, SPK DUP, DUP, LR).

Data Deliverables

This data package constitutes a Level II package; other data report packages (Level I, Level IV DVP, EPA R5 EDD) are available upon request. There were no hardcopy data summary sheets generated for this project.

Sample Analysis

1,4-Dioxane Analysis (GC/MS): Samples were analyzed in accordance with US EPA method 1624 (Volatile Organic Compounds by Isotope Dilution Gas Chromatography – Mass Spectrometry). An initial calibration with at least five levels was used to quantitate 1,4-Dioxane. Samples were reported to project specific reporting limits.

Anomalies Noted:

- None

Analytical QA/QC Summary

Calibration Verification

Method calibration was verified through the running of a mid-level initial calibration verification (CV) standard at a frequency of every 24 hours (1,4-Dioxane). All verification standards met the acceptance criteria with the following exceptions:

- None

Instrument Blanks

Instrument blanks were analyzed at a frequency of every 24 hours (1,4-Dioxane). All blanks met the acceptance criteria with the following exceptions:

- None

QA/QC Batch Summary

Laboratory Reagent Blanks

A laboratory reagent blank (LRB) was analyzed with each QA/QC batch. The LRB's met the acceptance criteria with the following exceptions:

- None

Laboratory Fortified Blanks and Matrix Spikes

A laboratory fortified blank (LFB) / laboratory control sample (LCS) was analyzed with each QA/QC batch. The LCS/LFB's met the acceptance criteria with the following exceptions:

- None

A matrix spike (MS) and matrix spike duplicate (MSD) was analyzed with each QA/QC batch. The MS/MSD met the acceptance criteria with the following exceptions:

Sample ID	Constituent	Percent Recovery	Acceptance Limits
MW-110 7/14/20 Matrix Spike Dup	1,4-Dioxane	73.7	80–120%
MW-92 7/21/20 Matrix Spike	1,4-Dioxane	76.1	80–120%
MW-118 7/23/20 Matrix Spike	1,4-Dioxane	76.5	80–120%

Matrix Duplicates

A replicate analysis was analyzed with each QA/QC batch. All replicates met the acceptance criteria with the following exceptions:

- None

Sample Dilutions

Samples containing compounds at concentrations above the initial calibration curve were diluted and reanalyzed for those compounds. The following samples were diluted for 1,4-Dioxane:

- MW-103S 7/9/20
- RED POND 7/13/20
- LB-4 7/13/20
- TW-21 7/13/20
- DOLPH 7/13/20
- TW-20 7/13/20
- TW-28 7/13/20
- MW-101 7/14/20
- MW-113 7/15/20
- MW-85 7/16/20
- MW-81 7/17/20
- MW-92 7/21/20
- MW-BE-1s 7/21/20
- MW-100 7/22/20
- MW-118 7/23/20
- MW-108d 7/23/20
- MW-84S 7/9/20
- TW-19 7/13/20
- TW-23 7/13/20
- TW-18 7/13/20
- PW-1 7/13/20
- TW-22 7/13/20
- MW-110 7/14/20
- MW-79s 7/14/20
- MW-107 7/15/20
- MW-88 7/17/20
- RED POND 7/20/20
- MW-BE-1d 7/21/20
- MW-122s 7/22/20
- MW-106s 7/23/20
- MW- 108s 7/23/20

Mark T. DeLong / July 30, 2020

Mark T. DeLong (Quality Assurance Coordinator)

Philip B. Simon / July 30, 2020

Philip B. Simon (Laboratory Director)

G001-002.20/CN_0724201.doc

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/9/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/24/20	19:27	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: 110 Parkland Plaza

Sample Date: 7/10/20
Sample Time: 9:55 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.001	0.001	7/24/20	20:01	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0955 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: 4141 Jackson Rd.

Sample Date: 7/10/20
Sample Time: 11:22 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.002	0.001	7/24/20	20:55	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0955 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-112s

Sample Date: 7/9/20
Sample Time: 9:47 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/24/20	21:39	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0955 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-112d

Sample Date: 7/9/20
Sample Time: 9:59 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.001	0.001	7/24/20	22:23	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0955 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-112i

Sample Date: 7/9/20
Sample Time: 11:10 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.009	0.001	7/24/20	23:07	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-103s

Sample Date: 7/9/20
Sample Time: 12:04 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.07	0.01	7/24/20	23:51	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-103d

Sample Date: 7/9/20
Sample Time: 12:31 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.006	0.001	7/25/20	2:03	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-84s

Sample Date: 7/9/20
Sample Time: 1:57 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.33	0.01	7/25/20	02:47	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Red Pond

Sample Date: 7/13/20
Sample Time: 8:30 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.36	0.01	7/25/20	3:31	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/12/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/25/20	4:15	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: TW-19

Sample Date: 7/13/20
Sample Time: 9:40 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.58	0.01	7/25/20	04:59	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: LB-4

Sample Date: 7/13/20
Sample Time: 9:45 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.47	0.001	7/25/20	5:43	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: TW-23

Sample Date: 7/13/20
Sample Time: 9:55 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.56	0.01	7/25/20	6:27	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: TW-21

Sample Date: 7/13/20
Sample Time: 10:10 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.27	0.01	7/25/20	7:11	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: TW-18

Sample Date: 7/13/20
Sample Time: 10:15 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.23	0.01	7/25/20	7:55	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: DOLPH

Sample Date: 7/13/20
Sample Time: 10:20 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.14	0.01	7/25/20	8:39	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: PW-1

Sample Date: 7/13/20
Sample Time: 10:18 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.46	0.01	7/25/20	9:23	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: TW-20

Sample Date: 7/13/20
Sample Time: 10:25 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.66	0.01	7/25/20	10:06	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: TW-22

Sample Date: 7/13/20
Sample Time: 10:28 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.47	0.01	7/25/20	10:50	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: TW-28

Sample Date: 7/13/20
Sample Time: 10:30 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.43	0.01	7/25/20	16:58	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/13/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/25/20	17:42	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-104

Sample Date: 7/14/20
Sample Time: 9:02 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.019	0.001	7/25/20	18:26	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-110

Sample Date: 7/14/20
Sample Time: 10:19 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.10	0.01	7/25/20	19:09	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-101

Sample Date: 7/14/20
Sample Time: 11:36 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.08	0.01	7/25/20	21:22	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-79d

Sample Date: 7/14/20
Sample Time: 12:58 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/25/20	22:06	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-79s

Sample Date: 7/14/20
Sample Time: 2:08 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.28	0.01	7/25/20	22:50	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/14/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/25/20	23:34	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-121s

Sample Date: 7/15/20
Sample Time: 8:34 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/26/20	0:18	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-121d

Sample Date: 7/15/20
Sample Time: 9:43 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.002	0.001	7/26/20	1:02	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-120d

Sample Date: 7/15/20
Sample Time: 11:03 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/26/20	1:45	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-120s

Sample Date: 7/15/20
Sample Time: 12:14 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/26/20	02:29	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-113

Sample Date: 7/15/20
Sample Time: 1:33 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.10	0.01	7/26/20	3:14	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-107

Sample Date: 7/15/20
Sample Time: 2:52 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.74	0.01	7/26/20	3:57	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/15/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.004	0.001	7/26/20	4:41	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-123d

Sample Date: 7/16/20
Sample Time: 9:05 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/26/20	5:25	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-123S

Sample Date: 7/16/20
Sample Time: 10:28 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/26/20	6:09	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-54s

Sample Date: 7/16/20
Sample Time: 11:49 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/26/20	6:53	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-54d

Sample Date: 7/16/20
Sample Time: 12:58 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.039	0.001	7/26/20	7:37	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-85

Sample Date: 7/16/20
Sample Time: 2:23 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.56	0.01	7/28/20	8:21	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/16/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/27/20	16:54	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-89

Sample Date: 7/17/20
Sample Time: 8:33 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.001	0.001	7/27/20	17:38	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-90

Sample Date: 7/17/20
Sample Time: 9:54 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/27/20	18:22	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-119

Sample Date: 7/17/20
Sample Time: 11:15 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.026	0.001	7/27/20	19:06	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-88

Sample Date: 7/17/20
Sample Time: 12:34 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.13	0.01	7/27/20	19:49	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-81

Sample Date: 7/17/20
Sample Time: 1:55 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.15	0.01	7/27/20	20:33	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/19/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/27/20	21:17	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Red Pond

Sample Date: 7/20/20
Sample Time: 9:46 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.37	0.01	7/27/20	22:01	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-129s

Sample Date: 7/20/20
Sample Time: 9:16 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/27/20	22:45	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-129I

Sample Date: 7/20/20
Sample Time: 10:26 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/27/20	23:30	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-129d

Sample Date: 7/20/20
Sample Time: 11:39 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.002	0.001	7/28/20	0:14	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-97d

Sample Date: 7/20/20
Sample Time: 1:05 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/28/20	0:58	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-97s

Sample Date: 7/20/20
Sample Time: 2:16 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/28/20	1:42	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/20/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/28/20	2:26	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-135

Sample Date: 7/21/20
Sample Time: 9:26 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/28/20	3:10	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-92

Sample Date: 7/21/20
Sample Time: 10:56 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.06	0.01	7/28/20	3:53	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-BE-1d

Sample Date: 7/21/20
Sample Time: 12:29 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.48	0.01	7/28/20	6:05	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-BE-1s

Sample Date: 7/21/20
Sample Time: 1:40 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.64	0.01	7/28/20	6:49	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date:	7/21/20
Sample Time:	na
Sampled By:	Client
Laboratory Receipt Date:	7/24/20
Sample Matrix:	Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/28/20	7:33	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-124d

Sample Date:	7/22/20
Sample Time:	9:06 AM
Sampled By:	Client
Laboratory Receipt Date:	7/24/20
Sample Matrix:	Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/28/20	8:17	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-124s

Sample Date:	7/22/20
Sample Time:	10:17 AM
Sampled By:	Client
Laboratory Receipt Date:	7/24/20
Sample Matrix:	Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/28/20	21:06	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-122d

Sample Date:	7/22/20
Sample Time:	11:46 AM
Sampled By:	Client
Laboratory Receipt Date:	7/24/20
Sample Matrix:	Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/28/20	21:50	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-122s

Sample Date: 7/22/20
Sample Time: 12:59 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.21	0.01	7/28/20	22:34	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-100

Sample Date: 7/22/20
Sample Time: 2:20 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	2.0	0.04	7/28/20	23:18	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/22/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/29/20	0:02	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-106d

Sample Date: 7/23/20
Sample Time: 8:39 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	7/29/20	0:46	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-106s

Sample Date: 7/23/20
Sample Time: 9:54 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.24	0.01	7/29/20	1:30	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-118

Sample Date: 7/23/20
Sample Time: 11:16 AM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.06	0.01	7/29/20	02:14	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-108s

Sample Date: 7/23/20
Sample Time: 12:46 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.23	0.01	7/29/20	4:26	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: MW-108d

Sample Date: 7/23/20
Sample Time: 1:58 PM
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.69	0.01	7/29/20	05:10	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20
ATS SRF: 0724201

Sample Identification: Outfall 001

Sample Date: 7/23/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/24/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	7/29/20	5:54	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Quality Assurance / Quality Control Data Summary

QC Batch Number: QCORG0724201
Parameter: 1,4-Dioxane (EPA 1624)

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20

Results of QA Samples run concurrently with project samples

REPLICATE ANALYSIS

Sample	Replicate #1	Replicate #2	Mean	Relative Range (percent)
#G001-002				
MW-103s 7/9/20 Matrix Spike	0.26 mg/L	0.26 mg/L	0.26 mg/L	0.9

SPIKES and/or QC CHECK SAMPLES

Sample/Analyte	Known Concentration	Spike Concentration	Analyzed Concentration	Recovery (percent)
#G001-002				
Laboratory Fortified Blank	<0.001 mg/L	0.010 mg/L	0.009 mg/L	87.7
MW-103s 7/9/20 Matrix Spike	0.068 mg/L	0.20 mg/L	0.26 mg/L	96.1
MW-103s 7/9/20 Matrix Spike Duplicate	0.068 mg/L	0.20 mg/L	0.26 mg/L	97.4

BLANK ANALYSIS

Sample	Analyzed Concentration	QC Decision
#G001-002		
Laboratory Reagent Blank	<0.001 mg/L	Acceptable

Comments:
Calculations performed prior to rounding.

Control Limits:
Recoveries
Laboratory Control Sample Recovery (85 - 115%)
Matrix Spike Recovery (80 - 120%)
Relative Range
Replicates (<20%)

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Quality Assurance / Quality Control Data Summary

QC Batch Number: QCORG0725201
Parameter: 1,4-Dioxane (EPA 1624)

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20

Results of QA Samples run concurrently with project samples

REPLICATE ANALYSIS

Sample	Replicate #1	Replicate #2	Mean	Relative Range (percent)
#G001-002				
MW-110 7/14/20 Matrix Spike	0.27 mg/L	0.25 mg/L	0.26 mg/L	7.3

SPIKES and/or QC CHECK SAMPLES

Sample/Analyte	Known Concentration	Spike Concentration	Analyzed Concentration	Recovery (percent)
#G001-002				
Laboratory Fortified Blank	<0.001 mg/L	0.010 mg/L	0.009 mg/L	86.8
MW-110 7/14/20 Matrix Spike	0.10 mg/L	0.20 mg/L	0.27 mg/L	81.2
MW-110 7/14/20 Matrix Spike Duplicate	0.10 mg/L	0.20 mg/L	0.25 mg/L	73.7*

BLANK ANALYSIS

Sample	Analyzed Concentration	QC Decision
#G001-002		
Laboratory Reagent Blank	<0.001 mg/L	Acceptable

Comments:
Calculations performed prior to rounding.
*Outside standard contol limits.

Control Limits:
Recoveries
Laboratory Control Sample Recovery (85 - 115%)
Matrix Spike Recovery (80 - 120%)
Relative Range
Replicates (<20%)

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Quality Assurance / Quality Control Data Summary

QC Batch Number: QCORG0727201
Parameter: 1,4-Dioxane (EPA 1624)

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20

Results of QA Samples run concurrently with project samples

REPLICATE ANALYSIS

Sample	Replicate #1	Replicate #2	Mean	Relative Range (percent)
#G001-002				
MW-92 7/21/20 Matrix Spike	0.21 mg/L	0.23 mg/L	0.22 mg/L	8.6

SPIKES and/or QC CHECK SAMPLES

Sample/Analyte	Known Concentration	Spike Concentration	Analyzed Concentration	Recovery (percent)
#G001-002				
Laboratory Fortified Blank	<0.001 mg/L	0.010 mg/L	0.009 mg/L	94.2
MW-92 7/21/20 Matrix Spike	0.06 mg/L	0.20 mg/L	0.21 mg/L	76.1*
MW-92 7/21/20 Matrix Spike Duplicate	0.06 mg/L	0.20 mg/L	0.23 mg/L	85.5

BLANK ANALYSIS

Sample	Analyzed Concentration	QC Decision
#G001-002		
Laboratory Reagent Blank	<0.001 mg/L	Acceptable

Comments:
Calculations performed prior to rounding.
*Outside standard contol limits.

Control Limits:
Recoveries
Laboratory Control Sample Recovery (85 - 115%)
Matrix Spike Recovery (80 - 120%)
Relative Range
Replicates (<20%)

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0915 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Quality Assurance / Quality Control Data Summary

QC Batch Number: QCORG0728201
Parameter: 1,4-Dioxane (EPA 1624)

ATS Project: Pall Corporation #G001-002
Report Date: 7/30/20

Results of QA Samples run concurrently with project samples

REPLICATE ANALYSIS

Sample	Replicate #1	Replicate #2	Mean	Relative Range (percent)
#G001-002 MW-118 7/23/20 Matrix Spike	0.21 mg/L	0.24 mg/L	0.22 mg/L	15.0

SPIKES and/or QC CHECK SAMPLES

Sample/Analyte	Known Concentration	Spike Concentration	Analyzed Concentration	Recovery (percent)
#G001-002				
Laboratory Fortified Blank	<0.001 mg/L	0.010 mg/L	0.009 mg/L	87.8
MW-118 7/23/20 Matrix Spike	0.06 mg/L	0.20 mg/L	0.21 mg/L	76.5*
MW-118 7/23/20 Matrix Spike Duplicate	0.06 mg/L	0.20 mg/L	0.24 mg/L	93.5

BLANK ANALYSIS

Sample	Analyzed Concentration	QC Decision
#G001-002 Laboratory Reagent Blank	<0.001 mg/L	Acceptable

Comments:
Calculations performed prior to rounding.
*Outside standard contol limits.

Control Limits:
Recoveries
Laboratory Control Sample Recovery (85 - 115%)
Matrix Spike Recovery (80 - 120%)
Relative Range
Replicates (<20%)

X:\G001-002.20\SRF_0724201\ORG_SRF_0724201

rev 7/30/20

1 of 4

CHAIN OF CUSTODY RECORD

Page 1

Pall Corp. ~~Standard~~ Turn Around — Need by End of July

Please send rush data to K. Patterson and L.Beyer; data reports should go to L.Beyer and S.Peters

Susan McPeek 7-24-20 12:55

~~Outfall (1,4 dioxane) samples and HC/IR (bromate) are RUSH SAMPLES~~

LAB NO.	BAR CODE	DATE	TIME	COMP.	GRAB	SAMPLE IDENTIFICATION	NO. OF CONTAINERS	PRIORITY POLLUTANTS	1,4-DIOXANE
1.		7-9-20	——		✓	Outfall001	2		✓
2.		7-10-20	09:55		✓	Wetland Plaza	2		✓
3.		7-10-20	11:22		✓	414 Jackson Rd	2		✓
4.		7-9-20	9:47		✓	MW-112S	2		✓
5.		7-9-20	9:59		✓	MW-112d	2		✓
6.		7-9-20	10:10		✓	MW-112I	2		✓
7.		7-9-20	12:04		✓	MW-103S	1	✓	
8.		7-9-20	12:31		✓	MW-103d	2		✓
9.		7-9-20	13:51		✓	MW-BAS	1		✓
10.		7-13-20	8:20		✓	K Red Pond	1		✓
11.		7-12-20	——		✓	Outfall001	2		✓
12.		7-10-20	09:40		✓	TW-19	1		✓
13.		7-13-20	9:59		✓	LD-4	1		✓
14.		7-13-20	9:09		✓	MW-93	1		✓
15.		7-13-20	10:10		✓	TW-21	1		✓
16.		7-13-20	10:15		✓	TW-18	1		✓
17.		7-13-20	10:30		✓	DOLPH	1		✓
18.		7-13-20	10:10		✓	PW-1	1		✓
19.		7-13-20	10:25		✓	TW-20	1		✓
20.		7-13-20	10:55			TW-22	1		✓

2 of 4

CHAIN OF CUSTODY RECORD

Page 1

Pall Corp. ~~Standard~~ Turn Around — Need by End of July

Please send rush data to K. Patterson and L.Beyer; data reports should go to L.Beyer and S.Peters

Susan McPeek 7-24-20 12:55

~~Outfall (1,4 dioxane) samples and HC/IR (bromate) are RUSH SAMPLES~~

LAB NO.	BAR CODE	DATE	TIME	COMP.	GRAB	SAMPLE IDENTIFICATION	NO. OF CONTAINERS	PRIORITY POLLUTANTS	1,4-DIOXANE
1.		7-13-20	10:30		✓	TW-25	1		✓
2.		7-13-20	——		✓	Outfall001	2		✓
3.		7-14-20	09:03		✓	MW-104	1		✓
4.		7-14-20	10:29 est.		✓	MW-110	1		✓
5.		7-14-20	11:36		✓	MW-101	1		✓
6.		7-14-20	13:15		✓	MW-114d	2		✓
7.		7-14-20	14:08		✓	MW-114S	1		✓
8.		7-14-20	——	✓		Outfall001	2		✓
9.		7-15-20	8:34		✓	MW-121S	2		✓
10.		7-15-20	9:43		✓	MW-121d	2		✓
11.		7-15-20	11:04		✓	MW-130d	2		✓
12.		7-15-20	12:19		✓	MW-130S	2		✓
13.		7-15-20	13:39		✓	MW-113	1		✓
14.		7-15-20	14:53		✓	MW-109	1		✓
15.		7-15-20	——	✓		Outfall001	2		✓
16.		7-16-20	9:05		✓	MW-123d	2		✓
17.		7-16-20	10:26		✓	MW-123S	2		✓
18.		7-16-20	11:49		✓	MW-134S	2		✓
19.		7-16-20	13:58		✓	MW-114d	1		✓
20.		7-16-20	14:33		✓	MW-115	1		✓

3 of 4

CHAIN OF CUSTODY RECORD

Page 1

Pall Corp. ~~Standard~~ Turn Around — Need by End of July

Please send rush data to K. Patterson and L.Beyer; data reports should go to L.Beyer and S.Peters

Susan McPeek 7-24-20 12:55

~~Outfall (1,4 dioxane) samples and HC/IR (bromate) are RUSH SAMPLES~~

LAB NO.	BAR CODE	DATE	TIME	COMP.	GRAB	SAMPLE IDENTIFICATION	NO. OF CONTAINERS	PRIORITY POLLUTANTS	1,4-DIOXANE
1.		7-16-20	——		✓	Outfall001	2		✓
2.		7-16-20	13:04		✓	MW-89	2		✓
3.		7-17-20	9:54		✓	MW-90	2		✓
4.		7-17-20	11:15		✓	MW-119	1		✓
5.		7-17-20	12:24		✓	MW-88	1		✓
6.		7-17-20	13:55		✓	MW-81	1		✓
7.		7-17-20	——	✓		Outfall001	2		✓
8.		7-20-20	9:46		✓	Red Pond	1		✓
9.		7-20-20	9:16		✓	MW-129S	2		✓
10.		7-20-20	10:26		✓	MW-129I	2		✓
11.		7-20-20	11:39		✓	MW-129d	2		✓
12.		7-20-20	13:05		✓	MW-97d	2		✓
13.		7-20-20	14:16		✓	MW-97S	2		✓
14.		7-20-20	——	✓		Outfall001	2		✓
15.		7-21-20	9:26		✓	MW-135	2		✓
16.		7-21-20	10:16		✓	MW-98	1		✓
17.		7-21-20	12:29		✓	MW-BE-1d	1		✓
18.		7-21-20	13:40		✓	MW-BE-1S	1		✓
19.		7-21-20	——	✓		Outfall001	2		✓
20.		7-22-20	9:06		✓	MW-124d	2		✓

CHAIN OF CUSTODY RECORD

Pall Corp. ~~Standard~~ Turn Around

Please send rush data to K. Patterson and L.Bayer; data reports should go to L.Bayer and S.Peters

Susan ED Petrio — 7-24 12:55

~~Outfall (1,4-dioxane) samples and HG/HR (bromate) are RUSH SAMPLES~~

#	Bar code	Date	Time	Comp	Grab	Sample identification	No. of containers		1,4-dioxane
1.		7-22-10	10:19		✓	MW-124S	2		✓
2.		7-22-10	11:46		✓	MW-122d	2		✓
3.		7-22-10	12:59		✓	MW-122S	1		✓
4.		7-22-10	14:20		✓	MW-100	1		✓
5.		7-22-10	—	✓		Outfall 001	2		✓
6.		7-23-10	8:39		✓	MW-106d	2		✓
7.		7-23-10	9:04		✓	MW-106S	1		✓
8.		7-23-10	11:16		✓	MW-118	1		✓
9.		7-23-10	12:46		✓	MW-108S	1		✓
10.		7-23-10	13:50		✓	MW-108d	1		✓
11.		7-23-10		✓		Outfall 001	2		✓
12.									
13.									
14.									
15.									
16.									
17.									
18.									
19.									
20.									

Received: [signature] 7/24/10 12:55

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Data Transmittal Cover Page

Project Name: Pall Corporation
ATS Project Number: G001-002
ATS Report Number(s): Org_SRF_0731201

Project Description: This data report contains the results of twenty-two water samples, received by ATS on 7/31/20, to be analyzed for 1,4-Dioxane.

We certify that the sample analyses for this report have been conducted in accordance with guidelines provided in the referenced standard test method, and are consistent with detailed procedures described in a written Standard Operating Procedure specific to the ATS Laboratories, as required by USEPA. Laboratory data sheets, SOPs, and QA/QC information are available for inspection and audit at the laboratory upon request. Unless specifically noted on the data report, all applicable sample preservation and holding time requirements have been met.

Recipient: Ms. Sue Peters Email: Sue_Peters@Pall.com
FAX Number:

No. of Pages (including cover pg.): 32

From: Sarah Stubblefield, Senior Chemist / Lab Manager Email: Sarah.Stubblefield@AnnArborTechnicalServices.com
FAX Number: 734-995-3731

Additional Message:

Date: 8/6/30 Signed:

IF YOU DO NOT RECEIVE ALL PAGES OF THIS TRANSMITTAL, PLEASE CALL 734-995-0995.

X:\G001-002.20\Data_Transmittal_Cover_Page SLS

LABORATORY OPERATIONS
CASE NARRATIVE

ATS Project Number: G001-002
Report Date: 8/6/20
SRF / SDG Numbers: 0731201

Case Narrative Summary

This case narrative applies to the following samples that was received at Ann Arbor Technical Services, Inc. (ATS) on 7/31/20, and associated matrix-specific QA/QC:

Samples

Client Sample Identification	Sample Date	Requested Turn Around Time	Analysis	Matrix
Received 7/31/20				
MW-25d	7/24/2020	Rush	1,4-Dioxane	Ground Water
MW-25s	7/24/2020	Rush	1,4-Dioxane	Ground Water
AMW-2	7/24/2020	Rush	1,4-Dioxane	Ground Water
MW-23	7/24/2020	Rush	1,4-Dioxane	Ground Water
MOW-1	7/24/2020	Rush	1,4-Dioxane	Ground Water
PMW-4	7/24/2020	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/26/2020	Rush	1,4-Dioxane	Treated Water
Red Pond	7/27/2020	Rush	1,4-Dioxane	Ground Water
MW-116	7/27/2020	Rush	1,4-Dioxane	Ground Water
MW-115	7/27/2020	Rush	1,4-Dioxane	Ground Water
2819 Dexter Road	7/27/2020	Rush	1,4-Dioxane	Ground Water
MW-KD-1s	7/27/2020	Rush	1,4-Dioxane	Ground Water
MW-KD-1d	7/27/2020	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/27/2020	Rush	1,4-Dioxane	Treated Water
MW-69	7/28/2020	Rush	1,4-Dioxane	Ground Water
MW-134d	7/28/2020	Rush	1,4-Dioxane	Ground Water
MW-134s	7/28/2020	Rush	1,4-Dioxane	Ground Water
MW-94s	7/28/2020	Rush	1,4-Dioxane	Ground Water
MW-134I	7/28/2020	Rush	1,4-Dioxane	Ground Water
Outfall 001	7/28/2020	Rush	1,4-Dioxane	Treated Water
Outfall 001	7/29/2020	Rush	1,4-Dioxane	Treated Water
Outfall 001	7/30/2020	Rush	1,4-Dioxane	Treated Water

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Upon receipt, samples were scheduled for the following analyses:

Analysis	Number of Samples
1,4-Dioxane (US EPA 1624) (Standard Turn)	22 + 2 Matrix Spike / 2 Matrix Spike Duplicate

Sample Receipt, Chain of Custody Records, and Holding Times

Samples were delivered directly to ATS by Pall Corporation staff. Samples were received with proper chain of custody records included. All samples were prepared and analyzed within the holding times cited in the corresponding analytical methods. The following exceptions were noted concerning sample condition upon receipt.

- None

Data Review and Approval

All data contained in this report have been generated in accordance with guidelines provided in the referenced standard test method, and are consistent with detailed procedures described in a written standard operating procedures (SOPs) specific to the ATS Laboratory, as required by US EPA. All data are peer and management reviewed to ensure compliance with the above referenced SOP's and project specifications. In addition all data conform to the laboratory's Quality Assurance / Quality Control Manuals.

A single QA/QC batch is defined as no more than 20 samples excluding method blanks (MB, LRB), fortified blanks (BS, LFB, LCS), matrix spikes (MS, SPK), and duplicates whether spiked or native (MSD, SPK DUP, DUP, LR).

Data Deliverables

This data package constitutes a Level II package; other data report packages (Level I, Level IV DVP, EPA R5 EDD) are available upon request. There were no hardcopy data summary sheets generated for this project.

Sample Analysis

1,4-Dioxane Analysis (GC/MS): Samples were analyzed in accordance with US EPA method 1624 (Volatile Organic Compounds by Isotope Dilution Gas Chromatography – Mass Spectrometry). An initial calibration with at least five levels was used to quantitate 1,4-Dioxane. Samples were reported to project specific reporting limits.

Anomalies Noted:

- None

Analytical QA/QC Summary

Calibration Verification

Method calibration was verified through the running of a mid-level initial calibration verification (CV) standard at a frequency of every 24 hours (1,4-Dioxane). All verification standards met the acceptance criteria with the following exceptions:

- None

Instrument Blanks

Instrument blanks were analyzed at a frequency of every 24 hours (1,4-Dioxane). All blanks met the acceptance criteria with the following exceptions:

- None

QA/QC Batch Summary

Laboratory Reagent Blanks

A laboratory reagent blank (LRB) was analyzed with each QA/QC batch. The LRB's met the acceptance criteria with the following exceptions:

- None

Laboratory Fortified Blanks and Matrix Spikes

A laboratory fortified blank (LFB) / laboratory control sample (LCS) was analyzed with each QA/QC batch. The LCS/LFB's met the acceptance criteria with the following exceptions:

- None

A matrix spike (MS) and matrix spike duplicate (MSD) was analyzed with each QA/QC batch. The MS/MSD met the acceptance criteria with the following exceptions:

- None

Matrix Duplicates

A replicate analysis was analyzed with each QA/QC batch. All replicates met the acceptance criteria with the following exceptions:

- None

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Sample Dilutions

Samples containing compounds at concentrations above the initial calibration curve were diluted and reanalyzed for those compounds. The following samples were diluted for 1,4-Dioxane:

- MW-25d 7/24/20
- RED POND 7/27/20
- MW-23 7/24/20
- PMW-4 7/24/20
- MW-11 7/27/20
- MW-KD-1s 7/27/20
- MW-94s 7/28/20
- MW-25s 7/24/20
- AMW-2 7/24/20
- MOW-1 7/24/20
- MW-116 7/27/20
- 2819 Dexter Rd. 7/27/20
- MW-KD-1d 7/27/20

Mark T. DeLong / August 6, 2020

Mark T. DeLong (Quality Assurance Coordinator)

Philip B. Simon / August 6, 2020

Philip B. Simon (Laboratory Director)

G001-002.20/CN_0731201.doc

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-25d

Sample Date: 7/24/20
Sample Time: 9:59 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.06	0.01	8/4/20	14:48	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - indicates not available / applicable.

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rev. 8/6/20

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-25s

Sample Date: 7/24/20
Sample Time: 10:10 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.38	0.02	8/4/20	17:11	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - indicates not available / applicable.

X:\G001-002.20\SRF_0731201\ORG_SRF_0731201

rev. 8/6/20

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: AMW-2

Sample Date: 7/24/20
Sample Time: 10:45 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.18	0.01	8/5/20	16:34	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - indicates not available / applicable.

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rev. 8/6/20

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/5/20
ATS SRF: 731201

Sample Identification: MW-23

Sample Date: 7/24/20
Sample Time: 11:15 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.20	0.01	8/4/20	18:39	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MOW-1

Sample Date: 7/24/20
Sample Time: 11:30 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.56	0.01	8/4/20	19:23	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: PMW-4

Sample Date: 7/24/20
Sample Time: 11:48 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.58	0.02	8/5/20	17:18	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: Outfall 001

Sample Date: 7/26/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.004	0.001	8/5/20	18:02	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.
Sample analyzed at native pH.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: Red Pond

Sample Date: 7/27/20
Sample Time: 8:35 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.34	0.01	8/5/20	19:46	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-116

Sample Date: 7/27/20
Sample Time: 9:08 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.46	0.01	8/5/20	19:30	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-115

Sample Date: 7/27/20
Sample Time: 10:27 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.47	0.01	8/5/20	20:14	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: 2819 Dexter Road

Sample Date: 7/27/20
Sample Time: 11:50 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.15	0.01	8/6/20	11:30	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-KD-1s

Sample Date:	7/27/20
Sample Time:	1:09 PM
Sampled By:	Client
Laboratory Receipt Date:	7/31/20
Sample Matrix:	Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.13	0.01	8/5/20	21:42	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-KD-1d

Sample Date:	7/27/20
Sample Time:	2:20 PM
Sampled By:	Client
Laboratory Receipt Date:	7/31/20
Sample Matrix:	Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.37	0.01	8/5/20	22:26	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: Outfall 001

Sample Date:	7/27/20
Sample Time:	na
Sampled By:	Client
Laboratory Receipt Date:	7/31/20
Sample Matrix:	Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	8/5/20	23:10	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.
Sample analyzed at native pH.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-69

Sample Date:	7/28/20
Sample Time:	9:12 AM
Sampled By:	Client
Laboratory Receipt Date:	7/31/20
Sample Matrix:	Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	<0.001	0.001	8/5/20	23:54	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-134d

Sample Date: 7/28/20
Sample Time: 10:39 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.006	0.001	8/6/20	0:37	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-134s

Sample Date: 7/28/20
Sample Time: 1:01 PM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.009	0.001	8/6/20	1:21	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-94s

Sample Date: 7/28/20
Sample Time: 2:23 PM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.65	0.01	8/6/20	2:05	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: MW-134I

Sample Date: 7/28/20
Sample Time: 11:51 AM
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.007	0.001	8/6/20	2:05	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - Indicates not available / applicable.

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Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: Outfall 001

Sample Date: 7/28/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	8/5/20	15:06	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - indicates not available / applicable.
Sample analyzed at native pH.

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Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: Outfall 001

Sample Date: 7/29/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.004	0.001	8/5/20	15:50	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - indicates not available / applicable.
Sample analyzed at native pH.

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Michigan Laboratory ID: 9004
Wisconsin Laboratory ID: 998321720

Organic Analysis
Data Summary Sheet

For: Ms. Sue Peters
Pall Corporation
642 South Wagner Road
Ann Arbor, MI 48103

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20
ATS SRF: 731201

Sample Identification: Outfall 001

Sample Date: 7/30/20
Sample Time: na
Sampled By: Client
Laboratory Receipt Date: 7/31/20
Sample Matrix: Water

Parameter	Method	Units	Result	Reporting Limit	Analysis Date	Analysis Time	Analyzed By
Organic Analysis							
1,4-Dioxane	EPA 1624	mg/L	0.005	0.001	8/5/20	12:41	JEB

Comments
All methods reference USEPA methods unless otherwise noted.
na - indicates not available / applicable.
Sample analyzed at native pH.

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Quality Assurance / Quality Control
Data Summary

QC Batch Number: QCORG0804201
Parameter: 1,4-Dioxane (EPA 1624)

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20

Results of QA Samples run concurrently with project samples

REPLICATE ANALYSIS

Sample	Replicate #1	Replicate #2	Mean	Relative Range (percent)
#G001-002 MW-25d 7/24/20 Matrix Spike	0.25 mg/L	0.27 mg/L	0.26 mg/L	7.0

SPIKES and/or QC CHECK SAMPLES

Sample/Analyte	Known Concentration	Spike Concentration	Analyzed Concentration	Recovery (percent)
#G001-002				
Laboratory Fortified Blank	<0.001 mg/L	0.010 mg/L	0.008 mg/L	84.3
MW-25d 7/24/20 Matrix Spike	0.06 mg/L	0.20 mg/L	0.25 mg/L	93.8
MW-25d 7/24/20 Matrix Spike Duplicate	0.06 mg/L	0.20 mg/L	0.27 mg/L	103.3

BLANK ANALYSIS

Sample	Analyzed Concentration	QC Decision
#G001-002 Laboratory Reagent Blank	<0.001 mg/L	Acceptable

Comments:
Calculations performed prior to rounding.

Control Limits:
Recoveries
Laboratory Control Sample Recovery (85 - 115%)
Matrix Spike Recovery (80 - 120%)
Relative Range
Replicates (<20%)

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Quality Assurance / Quality Control Data Summary

QC Batch Number: QCORG0805201
Parameter: 1,4-Dioxane (EPA 1624)

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20

Results of QA Samples run concurrently with project samples

REPLICATE ANALYSIS

Sample	Replicate #1	Replicate #2	Mean	Relative Range (percent)
#G001-002				
Outfall 001 7/30/20 Matrix Spike	0.023 mg/L	0.022 mg/L	0.023 mg/L	7.6

SPIKES and/or QC CHECK SAMPLES

Sample/Analyte	Known Concentration	Spike Concentration	Analyzed Concentration	Recovery (percent)
#G001-002				
Laboratory Fortified Blank	<0.001 mg/L	0.010 mg/L	0.009 mg/L	92.0
Outfall 001 7/30/20 Matrix Spike	0.005 mg/L	0.020 mg/L	0.023 mg/L	94.0
Outfall 001 7/30/20 Matrix Spike Duplicate	0.005 mg/L	0.020 mg/L	0.022 mg/L	85.4

BLANK ANALYSIS

Sample	Analyzed Concentration	QC Decision
#G001-002		
Laboratory Reagent Blank	<0.001 mg/L	Acceptable

Comments:
Calculations performed prior to rounding.

Control Limits:
Recoveries
- Laboratory Control Sample Recovery (85 - 115%)
- Matrix Spike Recovery (60 - 120%)

Relative Range
- Replicates (<20%)

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Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Quality Assurance / Quality Control Data Summary

QC Batch Number: QCORG0806201
Parameter: 1,4-Dioxane (EPA 1624)

ATS Project: Pall Corporation #G001-002
Report Date: 8/6/20

Results of QA Samples run concurrently with project samples

REPLICATE ANALYSIS

Sample	Replicate #1	Replicate #2	Mean	Relative Range (percent)
#G001-002				
2819 Dexter Rd. 7/27/20 Matrix Spike	0.40 mg/L	0.37 mg/L	0.39 mg/L	6.6

SPIKES and/or QC CHECK SAMPLES

Sample/Analyte	Known Concentration	Spike Concentration	Analyzed Concentration	Recovery (percent)
#G001-002				
Laboratory Fortified Blank	<0.001 mg/L	0.010 mg/L	0.009 mg/L	92.4
2819 Dexter Rd. 7/27/20 Matrix Spike	0.15 mg/L	0.25 mg/L	0.40 mg/L	98.3
2819 Dexter Rd. 7/27/20 Matrix Spike Duplicate	0.15 mg/L	0.25 mg/L	0.37 mg/L	88.1

BLANK ANALYSIS

Sample	Analyzed Concentration	QC Decision
#G001-002		
Laboratory Reagent Blank	<0.001 mg/L	Acceptable

Comments:
Calculations performed prior to rounding.

Control Limits:
Recoveries
- Laboratory Control Sample Recovery (85 - 115%)
- Matrix Spike Recovery (60 - 120%)

Relative Range
- Replicates (<20%)

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Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

CHAIN OF CUSTODY RECORD

Page 1

*Wastewater to have to get Results by Friday August 8th in the MORNING

Pall Corp. Standard Turn Around

Please send each data to K. Patterson and L.Bayer, data reports should go to L.Bayer and S.Peters

RELINQUISHED BY: Brian Borland 07-31-20

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	NO. OF CONTAINERS	1,4-DIOXANE
1.	MW-29d	07-31-20	09:57		✓	1	✓
2.	MW-20S	07-31-20	10:10		✓	1	✓
3.	Area-2 AM(2)-2	07-31-20	10:15		✓	1	✓
4.	MW-23	7-31-20	11:15		✓	1	✓
5.	MW-1	7-31-20	8:30		✓	1	✓
6.	PMW-4	7-31-20	11:48		✓	1	✓
7.	Outfall001	7-31-20	—	✓		2	✓
8.	Redford	7-27-20	8:35		✓	1	✓
9.	MW-11W	7-29-20	9:08		✓	1	✓
10.	MW-11S	7-27-20	10:27		✓	1	✓
11.	2819 Dexter Road	7-27-20	11:50		✓	1	✓
12.	MW-KD-1B	7-27-20	13:09		✓	1	✓
13.	MW-KD-1d	7-27-20	14:20		✓	1	✓
14.	Outfall001	07-27-20	—	✓		2	✓
15.	MW-6S	7-28-20	9:12		✓	1	✓
16.	MW-18d	7-28-20	10:39		✓	2	✓
17.	MW-18d	7-28-20	13:01		✓	2	✓
18.	MW-99S	7-27-20	14:23		✓	1	✓
19.	MW-18i	7-28-20	11:51		✓	2	✓
20.	Outfall001	7-31-20	—	✓		2	✓

COMMENTS: Outfall (1,4-dioxane) samples and HCl/HR (bromate) are RUSH SAMPLES

CHAIN OF CUSTODY RECORD

Page 1

*Wastewater to have to get Results by Friday MORNING 8-7-20

Pall Corp. Standard Turn Around

Please send each data to K. Patterson and L.Bayer, data reports should go to L.Bayer and S.Peters

RELINQUISHED BY: Brian Borland 07-31-20

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	NO. OF CONTAINERS	1,4-DIOXANE
1.	Outfall001	7-27-20	—	✓		2	✓
2.	Outfall001	7-31-20	—	✓		2	✓
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							

COMMENTS: Outfall (1,4-dioxane) samples and HCl/HR (bromate) are RUSH SAMPLES