

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : FT MEADE TIPTON AIRFIELD PARCEL RI - PO 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : P4672

ATTENTION : David Sembrot



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4672

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number

P4672-01
P4672-02
P4672-03
P4672-04
P4672-05

Client Sample Number

TAPLPR-SED06-103024-00-T2
TAPLPR-SED07-103024-00-T2
TAPLPR-SED03-103124-00-T2
TAPLPR-SED04-103124-00-T2
TAPLPR-SED05-103124-00-T2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 11/12/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions

Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Project # N/A

Chemtech Project # P4672

Test Name: pH,TOC

A. Number of Samples and Date of Receipt:

5 Solid samples were received on 11/01/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: pH and TOC. This data package contains results for pH,TOC.

C. Analytical Techniques:

The analysis of pH was based on method 9045D and The analysis of TOC was based on method Lloyd Kahn.

D. QA/ QC Samples:

The Holding Times were met for all samples except for TAPLPR-SED03-103124-00-T2 of pH, for TAPLPR-SED04-103124-00-T2 of pH.for TAPLPR-SED05-103124-00-T2 of pH.for TAPLPR-SED06-103024-00-T2 of pH.for TAPLPR-SED07-103024-00-T2 of pH as samples were receive out of holding time.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P4672

MATRIX: Solid

METHOD: 9045D,Lloyd Kahn

	NA	NO	YES
1. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2. Matrix Spike Duplicate Recoveries Met Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples.			
3. Sample Duplicate Analysis Met QC Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
4. Digestion Holding Time Met		✓	
If not met, list number of days exceeded for each sample:			
The Holding Times were met for all samples except for TAPLPR-SED03-103124-00-T2 of pH, for TAPLPR-SED04-103124-00-T2 of pH.for TAPLPR-SED05-103124-00-T2 of pH.for TAPLPR-SED06-103024-00-T2 of pH.for TAPLPR-SED07-103024-00-T2 of pH as samples were receive out of holding time.			

ADDITIONAL COMMENTS:

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4672

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/12/2024

LAB CHRONICLE

OrderID:	P4672	OrderDate:	11/1/2024 11:09:00 AM
Client:	Weston Solutions	Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	David Sembrot	Location:	K41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4672-01	TAPLPR-SED06-10302 4-00-T2	SOIL	pH	9045D	10/30/24 15:30		11/03/24 10:10	11/01/24
			TOC	Lloyd Kahn			11/01/24 15:15	
P4672-02	TAPLPR-SED07-10302 4-00-T2	SOIL	pH	9045D	10/30/24 16:55		11/03/24 10:15	11/01/24
			TOC	Lloyd Kahn			11/01/24 15:29	
P4672-03	TAPLPR-SED03-10312 4-00-T2	SOIL	pH	9045D	10/31/24 10:05		11/03/24 10:22	11/01/24
			TOC	Lloyd Kahn			11/01/24 15:55	
P4672-04	TAPLPR-SED04-10312 4-00-T2	SOIL	pH	9045D	10/31/24 11:10		11/03/24 10:30	11/01/24
			TOC	Lloyd Kahn			11/01/24 16:27	
P4672-05	TAPLPR-SED05-10312 4-00-T2	SOIL	pH	9045D	10/31/24 12:25		11/03/24 10:37	11/01/24

LAB CHRONICLE

TOC

Lloyd Kahn

11/01/24
16:42



SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions	Date Collected:	10/30/24 15:30
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/01/24
Client Sample ID:	TAPLPR-SED06-103024-00-T2	SDG No.:	P4672
Lab Sample ID:	P4672-01	Matrix:	SOIL
		% Solid:	75.4

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.08	H	1	0	0	0	pH		11/03/24 10:10	9045D
TOC	4030		1	8.00	50.0	250	mg/Kg		11/01/24 15:15	Lloyd Kahn

Comments: pH result reported at temperature 24.7 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/30/24 16:55
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/01/24
Client Sample ID:	TAPLPR-SED07-103024-00-T2	SDG No.:	P4672
Lab Sample ID:	P4672-02	Matrix:	SOIL
		% Solid:	86.1

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.60	H	1	0	0	0	pH		11/03/24 10:15	9045D
TOC	826		1	8.00	50.0	250	mg/Kg		11/01/24 15:29	Lloyd Kahn

Comments: pH result reported at temperature 24.6 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/31/24 10:05
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/01/24
Client Sample ID:	TAPLPR-SED03-103124-00-T2	SDG No.:	P4672
Lab Sample ID:	P4672-03	Matrix:	SOIL
		% Solid:	82

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.79	H	1	0	0	0	pH		11/03/24 10:22	9045D
TOC	1430		1	8.00	50.0	250	mg/Kg		11/01/24 15:55	Lloyd Kahn

Comments: pH result reported at temperature 24.6 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/31/24 11:10
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/01/24
Client Sample ID:	TAPLPR-SED04-103124-00-T2	SDG No.:	P4672
Lab Sample ID:	P4672-04	Matrix:	SOIL
		% Solid:	86.4

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.73	H	1	0	0	0	pH		11/03/24 10:30	9045D
TOC	1810		1	8.00	50.0	250	mg/Kg		11/01/24 16:27	Lloyd Kahn

Comments: pH result reported at temperature 24.2 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions	Date Collected:	10/31/24 12:25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/01/24
Client Sample ID:	TAPLPR-SED05-103124-00-T2	SDG No.:	P4672
Lab Sample ID:	P4672-05	Matrix:	SOIL
		% Solid:	83.9

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.53	H	1	0	0	0	pH		11/03/24 10:37	9045D
TOC	1820		1	8.00	50.0	250	mg/Kg		11/01/24 16:42	Lloyd Kahn

Comments: pH result reported at temperature 24.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4672

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133245

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	1010	1000	101	90-110	08/07/2024
Sample ID: CCV1 TOC	mg/L	1030	1000	103	90-110	11/01/2024
Sample ID: CCV2 TOC	mg/L	978	1000	98	90-110	11/01/2024
Sample ID: CCV3 TOC	mg/L	1020	1000	102	90-110	11/01/2024

Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4672

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133262

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	7.01	7	100	90-110	11/03/2024
Sample ID: CCV1 pH	pH	2.01	2.00	101	90-110	11/03/2024
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	11/03/2024

Initial and Continuing Calibration Blank Summary

Client:	Weston Solutions	SDG No.:	P4672
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	RunNo.:	LB133245

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	08/07/2024
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	11/01/2024
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	11/01/2024
Sample ID: CCB3 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	11/01/2024

Preparation Blank Summary

Client: Weston Solutions

SDG No.: P4672

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB133245BLS						
TOC	mg/Kg	< 125.0000	125.0000	U	8	250	11/01/2024

Matrix Spike Summary

Client:

Weston Solutions

SDG No.:

P4672

Project:

Ft Meade Tipton Airfield Parcel RI - PO 0111169

Sample ID:

P4653-02

Client ID:

TAPLPR-SED09-103024-00-T2MS

Percent Solids for Spike Sample:

81.2

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	2470		1320		1000	1	115		11/01/2024

Matrix Spike Summary

Client:

Weston Solutions

SDG No.:

P4672

Project:

Ft Meade Tipton Airfield Parcel RI - PO 0111169

Sample ID:

P4653-02

Client ID:

TAPLPR-SED09-103024-00-T2MSD

Percent Solids for Spike Sample:

81.2

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	2510		1320		1000	1	119		11/01/2024

Duplicate Sample Summary

Client:	Weston Solutions	SDG No.:	P4672
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4653-02
Client ID:	TAPLPR-SED09-103024-00-T2MSD	Percent Solids for Spike Sample:	81.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	2470		2510		1	2		11/01/2024

Duplicate Sample Summary

Client:	Weston Solutions	SDG No.:	P4672
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4672-05
Client ID:	TAPLPR-SED05-103124-00-T2DUP	Percent Solids for Spike Sample:	83.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
pH	pH	+/-20	6.53		6.54		1	0.15		11/03/2024

Laboratory Control Sample Summary

Client:	Weston Solutions	SDG No.:	P4672
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Run No.:	LB133245

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133245BSS							
TOC	mg/Kg	1000	1020		102	1	90-110	11/01/2024



RAW DATA

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Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1000.5814			TOC	
CCV1	1022.4851			TOC	
CCV1	1014.0759			TOC	
CCV1.....	1065.9371...	..	...	TOC	..
CCB1	7.5503			TOC	
CCB1	10.3289			TOC	
CCB1.....	9.2631...	..	...	TOC	..
CCB1	9.3786			TOC	
LB133245BLS	5.1028			TOC	
LB133245BLS.....	5.0525...	..	...	TOC	..
LB133245BLS	12.8831			TOC	
LB133245BLS	3.9068			TOC	
LB133245BSS.....	852.7500...	..	...	TOC	..
LB133245BSS	1198.1001			TOC	
LB133245BSS	1142.8400			TOC	
LB133245BSS.....	894.4775...	..	...	TOC	..
P4653-01	1194.4316			TOC	
P4653-01	1333.0258			TOC	
P4653-01.....	1406.7253...	..	...	TOC	..
P4653-01	1415.3241			TOC	
P4653-02	1573.8051			TOC	
P4653-02.....	1205.8990...	..	...	TOC	..
P4653-02	1108.9017			TOC	
P4653-02	1373.7708			TOC	
P4653-03MS.....	1971.6993...	..	...	TOC	..
P4653-03MS	2521.5281			TOC	
P4653-03MS	2380.2893			TOC	
P4653-03MS.....	3001.2937...	..	...	TOC	..
P4653-04MSD	2659.8206			TOC	
P4653-04MSD	2364.1824			TOC	
P4653-04MSD.....	2543.4131...	..	...	TOC	..
P4653-04MSD	2474.9663			TOC	
P4653-05	1235.9694			TOC	
P4653-05.....	1103.0145...	..	...	TOC	..
P4653-05	912.7955			TOC	
P4653-05	994.2072			TOC	
CCV2.....	989.1235...	..	...	TOC	..
CCV2	980.9036			TOC	
CCV2	971.2018			TOC	
CCV2.....	972.2630...	..	...	TOC	..
CCB2	1.3730			TOC	
CCB2	5.0936			TOC	
CCB2.....	3.4158...	..	...	TOC	..
CCB2	5.7765			TOC	
P4672-01	4382.4614			TOC	
P4672-01.....	3612.3147...	..	...	TOC	..
P4672-01	4740.0342			TOC	
P4672-01	3388.4246			TOC	
P4672-02.....	899.2145...	..	...	TOC	..
P4672-02	751.1140			TOC	
P4672-02	881.2198			TOC	
P4672-02.....	773.4373...	..	...	TOC	..
P4672-03	1427.2465			TOC	
P4672-03	1482.7461			TOC	
P4672-03.....	1357.6583...	..	...	TOC	..
P4672-03	1453.1569			TOC	
P4672-04	2057.3369			TOC	
P4672-04.....	1973.5280...	..	...	TOC	..
P4672-04	1512.5612			TOC	
P4672-04	1698.4623			TOC	
P4672-05.....	1813.1614...	..	...	TOC	..
P4672-05	1716.5354			TOC	
P4672-05	1976.4563			TOC	
P4672-05.....	1759.8573...	..	...	TOC	..

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CCV3	943.6350			TOC	
CCV3	1094.1825			TOC	
CCV3.....	965.3035...	..	...	TOC	..
CCV3	1086.6331			TOC	
CCB3	8.2500			TOC	
CCB3.....	7.5281...	..	...	TOC	..
CCB3	7.3567			TOC	
CCB3	10.9177			TOC	

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Method ID		Sample Type	Vial Timestamp		Message		
Boat	Sampler	Sample	2024/11/01	09:25			
Boat	Sampler	Sample	2024/11/01	09:38			
Boat	Sampler	Sample	2024/11/01	09:40			
Boat	Sampler	...Sample	..	..2024/11/01	09:43	..	1
Boat	Sampler	Sample	2024/11/01	09:47	Low Sample Detected		
Boat	Sampler	Sample	2024/11/01	09:51	Low Sample Detected		
Boat	Sampler	...Sample	..	..2024/11/01	09:54	..Low Sample Detected	2
Boat	Sampler	Sample	2024/11/01	09:57	Low Sample Detected		
Boat	Sampler	Sample	2024/11/01	10:01	Low Sample Detected		
Boat	Sampler	...Sample	..	..2024/11/01	10:05	..Low Sample Detected	3
Boat	Sampler	Sample	2024/11/01	10:09	Low Sample Detected		
Boat	Sampler	Sample	2024/11/01	10:13			
Boat	Sampler	...Sample	..	..2024/11/01	10:17	..	4
Boat	Sampler	Sample	2024/11/01	10:24			
Boat	Sampler	Sample	2024/11/01	10:31			
Boat	Sampler	...Sample	..	..2024/11/01	10:34	..	5
Boat	Sampler	Sample	2024/11/01	11:27			
Boat	Sampler	Sample	2024/11/01	11:41			
Boat	Sampler	...Sample	..	..2024/11/01	11:46	..	6
Boat	Sampler	Sample	2024/11/01	11:51			
Boat	Sampler	Sample	2024/11/01	12:03			
Boat	Sampler	...Sample	..	..2024/11/01	12:08	..	7
Boat	Sampler	Sample	2024/11/01	12:15			
Boat	Sampler	Sample	2024/11/01	12:18			
Boat	Sampler	...Sample	..	..2024/11/01	12:32	..	8
Boat	Sampler	Sample	2024/11/01	12:43			
Boat	Sampler	Sample	2024/11/01	12:51			
Boat	Sampler	...Sample	..	..2024/11/01	12:58	..	9
Boat	Sampler	Sample	2024/11/01	13:01			
Boat	Sampler	Sample	2024/11/01	13:09			
Boat	Sampler	...Sample	..	..2024/11/01	13:14	..	10
Boat	Sampler	Sample	2024/11/01	13:22			
Boat	Sampler	Sample	2024/11/01	13:49			
Boat	Sampler	...Sample	..	..2024/11/01	13:53	..	11
Boat	Sampler	Sample	2024/11/01	14:07			
Boat	Sampler	Sample	2024/11/01	14:10			
Boat	Sampler	...Sample	..	..2024/11/01	14:30	..	12
Boat	Sampler	Sample	2024/11/01	14:33			
Boat	Sampler	Sample	2024/11/01	14:38			
Boat	Sampler	...Sample	..	..2024/11/01	14:40	..	13
Boat	Sampler	Sample	2024/11/01	14:44	Low Sample Detected		
Boat	Sampler	Sample	2024/11/01	14:47	Low Sample Detected		
Boat	Sampler	...Sample	..	..2024/11/01	14:51	..Low Sample Detected	14
Boat	Sampler	Sample	2024/11/01	14:54			
Boat	Sampler	Sample	2024/11/01	15:03			
Boat	Sampler	...Sample	..	..2024/11/01	15:09	..	
Boat	Sampler	Sample	2024/11/01	15:12			
Boat	Sampler	Sample	2024/11/01	15:15			
Boat	Sampler	...Sample	..	..2024/11/01	15:18	..	
Boat	Sampler	Sample	2024/11/01	15:22			
Boat	Sampler	Sample	2024/11/01	15:26			
Boat	Sampler	...Sample	..	..2024/11/01	15:29	..	
Boat	Sampler	Sample	2024/11/01	15:32			
Boat	Sampler	Sample	2024/11/01	15:48			
Boat	Sampler	...Sample	..	..2024/11/01	15:51	..	
Boat	Sampler	Sample	2024/11/01	15:55			
Boat	Sampler	Sample	2024/11/01	16:02			
Boat	Sampler	...Sample	..	..2024/11/01	16:17	..	
Boat	Sampler	Sample	2024/11/01	16:25			
Boat	Sampler	Sample	2024/11/01	16:27			
Boat	Sampler	...Sample	..	..2024/11/01	16:33	..	
Boat	Sampler	Sample	2024/11/01	16:36			
Boat	Sampler	Sample	2024/11/01	16:40			

Boat Sampler	...	Sample	..	..	2024/11/01 16:42	..	Reviewed By:Iwona On:11/6/2024 10:12:25 AM Inst Id :Appolo-9000 LB :LB133245		
Boat Sampler		Sample			2024/11/01 16:53				
Boat Sampler		Sample			2024/11/01 16:57				
Boat Sampler	...	Sample	..	..	2024/11/01 16:59	..			
Boat Sampler		Sample			2024/11/01 17:13				
Boat Sampler		Sample			2024/11/01 17:16		Low Sample Detected		
Boat Sampler	...	Sample	..	..	2024/11/01 17:20	..	Low Sample Detected		
Boat Sampler		Sample			2024/11/01 17:27		Low Sample Detected		
Boat Sampler		Sample			2024/11/01 17:31				

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Last Message: Low Sample Detected

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Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 11010951
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 09:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.2631	0.3705	28992	-2.337	-2.346	120

=====

Last Message: Low Sample Detected

=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 11010955
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 09:57
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3786	0.3751	29353	-2.359	-2.351	120

=====

Last Message: Low Sample Detected

=====

Sample ID: LB133245BLS Mode: TOC
Method: Boat Sampler Filename: 11010959
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 10:01
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.1028	0.2041	15971	-2.351	-2.378	120

=====

Last Message: Low Sample Detected

=====

Sample ID: LB133245BLS Mode: TOC
Method: Boat Sampler Filename: 11011003
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 10:05
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.0525	0.2021	15813	-2.418	-2.428	120

=====

Last Message: Low Sample Detected

=====

Sample ID: LB133245BLS Mode: TOC
Method: Boat Sampler Filename: 11011007
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 10:09
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.8831	0.5153	40321	-2.423	-2.421	120

=====

Last Message: Low Sample Detected

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Sample ID: LB133245BLS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011010
Timestamp: 2024/11/01 10:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.9068	0.1563	12227	-2.458	-2.453	120

Last Message: Low Sample Detected

Sample ID: LB133245BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011014
Timestamp: 2024/11/01 10:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	852.7500	34.1100	2668925	-2.441	-1.442	88

Sample ID: LB133245BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011022
Timestamp: 2024/11/01 10:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1198.1001	47.9240	3749797	-2.484	-1.487	102

Sample ID: LB133245BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011029
Timestamp: 2024/11/01 10:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1142.8400	45.7136	3576845	-2.348	-1.348	98

Sample ID: LB133245BS
S
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011032
Timestamp: 2024/11/01 10:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	894.4775	35.7791	2799523	-2.314	-1.316	86

Sample ID: P4653-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011125
Timestamp: 2024/11/01 11:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1194.4316	6.8083	532710	-2.510	-1.518	63

Sample ID: P4653-01 Mode: TOC
Method: Boat Sampler Filename: 11011140
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 11:41
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1333.0258	8.7980	688394	-2.589	-1.590	63

Sample ID: P4653-01 Mode: TOC
Method: Boat Sampler Filename: 11011145
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 11:46
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1406.7253	9.0030	704440	-2.555	-1.559	64

Sample ID: P4653-01 Mode: TOC
Method: Boat Sampler Filename: 11011150
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 11:51
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1415.3241	8.9165	697672	-2.618	-1.623	68

Sample ID: P4653-02 Mode: TOC
Method: Boat Sampler Filename: 11011202
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 12:03
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1573.8051	9.1281	714223	-2.522	-1.533	63

Sample ID: P4653-02 Mode: TOC
Method: Boat Sampler Filename: 11011207
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 12:08
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1205.8990	7.2354	566131	-2.566	-1.569	71

Sample ID: P4653-02 Mode: TOC
Method: Boat Sampler Filename: 11011213
Cal. Curve: TOC SOIL Timestamp: 2024/11/01 12:15
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1108.9017	7.5405	590006	-2.457	-1.466	63

Sample ID: P4653-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011217
Timestamp: 2024/11/01 12:18
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1373.7708	7.5557	591196	-2.480	-1.489	63

Sample ID: P4653-03MS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011231
Timestamp: 2024/11/01 12:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1971.6993	12.6189	987359	-2.466	-1.467	63

Sample ID: P4653-03MS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011240
Timestamp: 2024/11/01 12:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2521.5281	13.8684	1085128	-2.503	-1.503	69

Sample ID: P4653-03MS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011249
Timestamp: 2024/11/01 12:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2380.2893	15.7099	1229216	-2.520	-1.522	69

Sample ID: P4653-03MS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011254
Timestamp: 2024/11/01 12:58
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3001.2937	17.4075	1362044	-2.484	-1.487	90

Sample ID: P4653-04MSD
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011300
Timestamp: 2024/11/01 13:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2659.8206	16.2249	1269512	-2.479	-1.484	63

Sample ID: P4653-04MSD

Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Filename: 11011307
Timestamp: 2024/11/01 13:09
Sample Type: Sample

Reviewed By:Iwona
On:11/6/2024 10:12:25
AM
Inst Id :Appolo-9000
LB :LB133245

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2364.1824	14.4215	1128406	-2.432	-1.434	68

Sample ID: P4653-04MSD
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011312
Timestamp: 2024/11/01 13:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2543.4131	14.7518	1154249	-2.437	-1.441	60

Sample ID: P4653-04MSD
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011320
Timestamp: 2024/11/01 13:22
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2474.9663	16.8298	1316839	-2.476	-1.478	64

Sample ID: P4653-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011348
Timestamp: 2024/11/01 13:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1235.9694	7.4158	580248	-1.100	-0.113	49

Sample ID: P4653-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011352
Timestamp: 2024/11/01 13:53
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1103.0145	6.8387	535091	-2.588	-1.589	56

Sample ID: P4653-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011406
Timestamp: 2024/11/01 14:07
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	912.7955	5.3855	421386	-2.484	-1.486	56

Sample ID: P4653-05
Method: Boat Sampler

Mode: TOC
Filename: 11011409

Cal. Curve: TOC SOIL
Operator ID: NF IZ

Timestamp: 2024/11/01 14:10
Sample Type: Sample

Reviewed By:Iwona
On:11/6/2024 10:12:25
AM
Inst Id :Appolo-9000
LB :LB133245

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	994.2072	6.1641	482307	-2.185	-1.191	57

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011428
Timestamp: 2024/11/01 14:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	989.1235	39.5649	3095745	-2.463	-1.465	85

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011431
Timestamp: 2024/11/01 14:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	980.9036	39.2361	3070018	-2.224	-1.224	79

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011436
Timestamp: 2024/11/01 14:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	971.2018	38.8481	3039654	-2.376	-1.378	82

Sample ID: CCV2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011438
Timestamp: 2024/11/01 14:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	972.2630	38.8905	3042975	-2.211	-1.212	81

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011441
Timestamp: 2024/11/01 14:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.3730	0.0549	4297	-2.266	-2.448	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler

Mode: TOC
Filename: 11011444

Cal. Curve: TOC SOIL
Operator ID: NF IZ

Timestamp: 2024/11/01 14:47
Sample Type: Sample

Reviewed By:Iwona
On:11/6/2024 10:12:25
AM
Inst Id :Appolo-9000
LB :LB133245

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.0936	0.2037	15942	-2.417	-2.497	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011448
Timestamp: 2024/11/01 14:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4158	0.1366	10691	-2.410	-2.483	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011451
Timestamp: 2024/11/01 14:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.7765	0.2311	18079	-2.476	-2.499	120

Last Message: Low Sample Detected

Sample ID: P4672-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011501
Timestamp: 2024/11/01 15:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4382.4614	27.1713	2126006	-2.273	-1.279	71

Sample ID: P4672-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011507
Timestamp: 2024/11/01 15:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3612.3147	22.0351	1724130	-2.319	-1.325	68

Sample ID: P4672-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011510
Timestamp: 2024/11/01 15:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4740.0342	28.9142	2262382	-2.237	-1.239	69

Sample ID: P4672-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011513
Timestamp: 2024/11/01 15:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3388.4246	23.0413	1802857	-0.188	0.790	57
=====						
=====						

Sample ID: P4672-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011517
Timestamp: 2024/11/01 15:18
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	899.2145	6.1147	478439	-2.241	-1.253	55
=====						

Sample ID: P4672-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011521
Timestamp: 2024/11/01 15:22
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	751.1140	4.5818	358501	-2.416	-1.428	50
=====						

Sample ID: P4672-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011524
Timestamp: 2024/11/01 15:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	881.2198	5.1111	399914	-2.400	-1.402	54
=====						

Sample ID: P4672-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011528
Timestamp: 2024/11/01 15:29
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	773.4373	5.3367	417570	-2.360	-1.361	52
=====						

Sample ID: P4672-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011531
Timestamp: 2024/11/01 15:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1427.2465	8.9917	703549	-2.389	-1.391	60
=====						

Sample ID: P4672-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011546
Timestamp: 2024/11/01 15:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1482.7461	9.3413	730907	-2.313	-1.313	57

Sample ID: P4672-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011550
Timestamp: 2024/11/01 15:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1357.6583	7.8744	616131	-2.419	-1.421	58

Sample ID: P4672-03
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011553
Timestamp: 2024/11/01 15:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1453.1569	9.1549	716321	-2.425	-1.427	65

Sample ID: P4672-04
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011600
Timestamp: 2024/11/01 16:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2057.3369	13.5784	1062439	-2.463	-1.464	69

Sample ID: P4672-04
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011615
Timestamp: 2024/11/01 16:17
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1973.5280	13.4200	1050042	-2.396	-1.397	72

Sample ID: P4672-04
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011623
Timestamp: 2024/11/01 16:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1512.5612	9.2266	721934	-2.430	-1.435	58

Sample ID: P4672-04

Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Filename: 11011626
Timestamp: 2024/11/01 16:27
Sample Type: Sample

Reviewed By:Iwona
On:11/6/2024 10:12:25
AM
Inst Id :Appolo-9000
LB :LB133245

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1698.4623	10.3606	810663	-2.301	-1.306	65

Sample ID: P4672-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011631
Timestamp: 2024/11/01 16:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1813.1614	9.7911	766099	-2.403	-1.403	64

Sample ID: P4672-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011634
Timestamp: 2024/11/01 16:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1716.5354	10.2992	805858	-2.346	-1.351	64

Sample ID: P4672-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011638
Timestamp: 2024/11/01 16:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1976.4563	11.8587	927883	-2.327	-1.329	73

Sample ID: P4672-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011641
Timestamp: 2024/11/01 16:42
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1759.8573	11.4391	895046	-2.319	-1.323	71

Sample ID: CCV3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011651
Timestamp: 2024/11/01 16:53
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	943.6350	37.74				
54	2953376	-2.339	-1.340	83		

Sample ID: CCV3
Method: Boat Sampler

Mode: TOC
Filename: 11011654

Cal. Curve: TOC SOIL
Operator ID: NF IZ

Timestamp: 2024/11/01 16:57
Sample Type: Sample

Reviewed By:Iwona
On:11/6/2024 10:12:25
AM
Inst Id :Appolo-9000
LB :LB133245

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1094.1825	43.7673	3424557	-2.278	-1.282	94

Sample ID: CCV3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011657
Timestamp: 2024/11/01 16:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	965.3035	38.6121	3021193	-2.154	-1.157	86

Sample ID: CCV3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011710
Timestamp: 2024/11/01 17:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1086.6331	43.4653	3400929	-2.350	-1.354	90

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011714
Timestamp: 2024/11/01 17:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.2500	0.3300	25821	-2.163	-2.314	120

Last Message: Low Sample Detected

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011718
Timestamp: 2024/11/01 17:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.5281	0.3011	23561	-2.329	-2.326	120

Last Message: Low Sample Detected

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011724
Timestamp: 2024/11/01 17:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.3567	0.2943	23025	-2.330	-2.334	120

Last Message: Low Sample Detected

Sample ID: CCB3
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 11011728
Timestamp: 2024/11/01 17:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9177	0.4367	34170	-2.367	-2.342	120

Last Message: Low Sample Detected						
=====						

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	39506	10974	27.78	TOC	
250mg/l	940319	21230	2.26	TOC	
500mg/l	1873094	46099	2.46	TOC	
1000mg/l.....	3412571...	51933..	1.52...	TOC	..
2000mg/l	6351508	124411	1.96	TOC	
ICV	993.2583			TOC	
ICV.....	1020.2207...	..	...	TOC	..
ICV	1017.6028			TOC	
ICV	1012.1844			TOC	
ICB.....	8.2074...	..	...	TOC	..
ICB	4.1941			TOC	
ICB	5.7204			TOC	
ICB.....	0.7378...	..	...	TOC	..

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Method ID	Sample Type	Vial Timestamp		Message
Boat Sampler	TOC Standard	2024/08/07	09:22	Low Sample Detected
Boat Sampler	TOC Standard	2024/08/07	09:42	
Boat Sampler	TOC Standard	2024/08/07	09:51	
Boat Sampler	...TOC Standard	..	..2024/08/07 10:11	..
Boat Sampler	TOC Standard	2024/08/07	10:23	
Boat Sampler	Sample	2024/08/07	10:32	
Boat Sampler	...Sample	..	..2024/08/07 10:35	..
Boat Sampler	Sample	2024/08/07	10:37	
Boat Sampler	Sample	2024/08/07	10:40	
Boat Sampler	...Sample	..	..2024/08/07 10:48	..Low Sample Detected
Boat Sampler	Sample	2024/08/07	10:51	Low Sample Detected
Boat Sampler	Sample	2024/08/07	10:55	Low Sample Detected
Boat Sampler	...Sample	..	..2024/08/07 11:00	..Low Sample Detected

Sample ID: BLANK
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08070913
Timestamp: 2024/08/07 09:22
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			32715	-1.821	-0.825	28
2			55473	-1.803	-0.813	36
3			37929	-1.819	-1.938	120
4			31907	-1.923	-1.965	120

Last Message: Low Sample Detected

<<<Statistics>>> Mean: 39506 Std Dev: 10974 RSD: 27.78

Sample ID: 250mg/l
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08070935
Timestamp: 2024/08/07 09:42
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			928435	-2.115	-1.128	54
2			959832	-1.977	-0.980	53
3			916491	-1.980	-0.987	51
4			956518	-1.971	-0.972	58

<<<Statistics>>> Mean: 940319 Std Dev: 21230 RSD: 2.26

Sample ID: 500mg/l
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08070944
Timestamp: 2024/08/07 09:51
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			1823357	-2.186	-1.189	63
2			1859639	-1.995	-1.001	60
3			1934050	-1.963	-0.967	60
4			1875328	-1.941	-0.942	59

<<<Statistics>>> Mean: 1873094 Std Dev: 46099 RSD: 2.46

Sample ID: 1000mg/l
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08071002
Timestamp: 2024/08/07 10:11
Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			3379516	-2.352	-1.353	82
2			3413813	-2.007	-1.009	74
3			3485447	-1.842	-0.842	74
4			3371508	-1.476	-0.479	65

<<<Statistics>>> Mean: 3412571 Std Dev: 51933 RSD: 1.52

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			6448500	-2.157	-1.158	122
2			6169360	-1.872	-0.875	105
3			6383533	-1.862	-0.865	118
4			6404640	-1.723	-0.723	110

<<<Statistics>>> Mean: 6351508 Std Dev: 124411 RSD: 1.96

Sample ID: ICV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08071030
Timestamp: 2024/08/07 10:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	993.2583	39.7303	3108686	-2.505	-1.505	83

Sample ID: ICV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08071033
Timestamp: 2024/08/07 10:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1020.2207	40.8088	3193073	-2.200	-1.202	71

Sample ID: ICV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08071035
Timestamp: 2024/08/07 10:37
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1017.6028	40.7041	3184879	-2.158	-1.158	91

Sample ID: ICV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08071038
Timestamp: 2024/08/07 10:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1012.1844	40.4874	3167920	-2.183	-1.184	76

Sample ID: ICB
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08071045
Timestamp: 2024/08/07 10:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.2074	0.3283	25688	-2.579	-2.601	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 08071049
Cal. Curve: TOC SOIL Timestamp: 2024/08/07 10:51
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.1941	0.1678	13127	-2.548	-2.584	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 08071052
Cal. Curve: TOC SOIL Timestamp: 2024/08/07 10:55
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.7204	0.2288	17904	-2.605	-2.622	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 08071057
Cal. Curve: TOC SOIL Timestamp: 2024/08/07 11:00
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.7378	0.0295				
2309	-2.568	-2.631	120			

Last Message: Low Sample Detected
=====

Cal. Curve ID: TOC SOIL
Created: 2024/08/07 10:25
Calibration Factor (m): 7.824e+04
Y Intercept (b): 176060
r-squared: 0.99776

Standard ID	Y	X Expected	Measured	^{Re} Message	Date & Time
	Raw Data	ug C	ug C		
BLANK	39506	0.000	-1.745	—	2024/08/07 09:22
250mg/l	940319	10.000	9.768	-2.3	2024/08/07 09:42
500mg/l	1873094	20.000	21.689	8.4	2024/08/07 09:51
1000mg/l	3412571	40.000	41.364	3.4	2024/08/07 10:11
2000mg/l	6351508	80.000	78.925	-1.3	2024/08/07 10:23

12
08/07/24

WORKLIST(Hardcopy Internal Chain)

LB133245

WorkList Name : TOC S-10312024			WorkList ID : 185001		Department : Wet-Chemistry		Date : 10-31-2024 16:13:51	
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4653-01	TAPLPR-SED10-103024-00-T2	Solid	TOC	Cool 4 deg C	WEST04	K61	10/30/2024	Lloyd Kahn
P4653-02	TAPLPR-SED09-103024-00-T2	Solid	TOC	Cool 4 deg C	WEST04	K61	10/30/2024	Lloyd Kahn
P4653-03	P4653-02MS	Solid	TOC	Cool 4 deg C	WEST04	K61	10/30/2024	Lloyd Kahn
P4653-04	P4653-02MSD	Solid	TOC	Cool 4 deg C	WEST04	K61	10/30/2024	Lloyd Kahn
P4653-05	TAPLPR-SED08-103024-00-T2	Solid	TOC	Cool 4 deg C	WEST04	K61	10/30/2024	Lloyd Kahn
P4672-01	TAPLPR-SED06-103024-00-T2	Solid	TOC	Cool 4 deg C	WEST04	K41	10/30/2024	Lloyd Kahn
P4672-02	TAPLPR-SED07-103024-00-T2	Solid	TOC	Cool 4 deg C	WEST04	K41	10/30/2024	Lloyd Kahn
P4672-03	TAPLPR-SED03-103024-00-T2	Solid	TOC	Cool 4 deg C	WEST04	K41	10/31/2024	Lloyd Kahn
P4672-04	TAPLPR-SED04-103024-00-T2	Solid	TOC	Cool 4 deg C	WEST04	K41	10/31/2024	Lloyd Kahn
P4672-05	TAPLPR-SED05-103024-00-T2	Solid	TOC	Cool 4 deg C	WEST04	K41	10/30/2024	Lloyd Kahn

Date/Time 11-01-2024, 10:10
Raw Sample Received by: J.C. SM
Raw Sample Relinquished by: J.C. SM

Date/Time 11-01-2024, 12:00
Raw Sample Received by: J.C. SM
Raw Sample Relinquished by: NF/WC

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB133262

Slope : 98.4

BalanceID: WC SC-4

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3107
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3094
buffer solution pH 7 yellow	W3071
Buffer Solution, PH2 (500ml)	W3005
Buffer Solution, PH12 (500ml)	W3072

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	11/03/2024	09:30
2	CAL2	1	Water	NA	NA	20.2	7.00	11/03/2024	09:31
3	CAL3	1	Water	NA	NA	20.2	10.02	11/03/2024	09:32
4	ICV	1	Water	NA	NA	20.2	7.01	11/03/2024	09:35
5	CCV1	1	Water	NA	NA	20.2	2.01	11/03/2024	09:40
6	P4660-02	1	Solid	20.02	20	24.2	11.87	11/03/2024	09:47
7	P4660-06	1	Solid	20.04	20	24.3	10.96	11/03/2024	09:52
8	P4660-10	1	Solid	20.03	20	24.3	8.81	11/03/2024	10:00
9	P4672-01	1	Solid	20.02	20	24.7	6.08	11/03/2024	10:10
10	P4672-02	1	Solid	20.03	20	24.6	6.60	11/03/2024	10:15
11	P4672-03	1	Solid	20.02	20	24.6	6.79	11/03/2024	10:22
12	P4672-04	1	Solid	20.03	20	24.2	6.73	11/03/2024	10:30
13	P4672-05	1	Solid	20.02	20	24.5	6.53	11/03/2024	10:37
14	P4672-05DUP	1	Solid	20.03	20	24.6	6.54	11/03/2024	10:38
15	CCV2	1	Water	NA	NA	20.2	12.02	11/03/2024	10:40

WORKLIST(Hardcopy Internal Chain)

18133262

WorkList Name : ph p4672 WorkList ID : 185049 Department : Wet-Chemistry Date : 11-03-2024 09:17:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4660-02	WC-TA2-01-C	Solid	pH	Cool 4 deg C	ENTA05	K41	10/30/2024	9045D
P4660-06	WC-WOOD-01-C	Solid	pH	Cool 4 deg C	ENTA05	K41	10/31/2024	9045D
P4660-10	WC-CONCRETE-01-C	Solid	pH	Cool 4 deg C	ENTA05	K41	10/31/2024	9045D
P4672-01	TAPLPR-SED06-103024-00-T2	Solid	pH	Cool 4 deg C	WEST04	K41	10/30/2024	9045D
P4672-02	TAPLPR-SED07-103024-00-T2	Solid	pH	Cool 4 deg C	WEST04	K41	10/30/2024	9045D
P4672-03	TAPLPR-SED03-103024-00-T2	Solid	pH	Cool 4 deg C	WEST04	K41	10/30/2024	9045D
P4672-04	TAPLPR-SED04-103024-00-T2	Solid	pH	Cool 4 deg C	WEST04	K41	10/30/2024	9045D
P4672-05	TAPLPR-SED05-103024-00-T2	Solid	pH	Cool 4 deg C	WEST04	K41	10/30/2024	9045D

Date/Time 110324 09:25
Raw Sample Received by: WJ LEC
Raw Sample Relinquished by: RJ LEC (lab)

Date/Time 110324 09:00
Raw Sample Received by: RJ LEC
Raw Sample Relinquished by: WJ LEC

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB133245

Review By	Niha	Review On	11/6/2024 9:29:04 AM
Supervise By	Iwona	Supervise On	11/6/2024 10:12:25 AM
SubDirectory	LB133245	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP109219,WP109220,WP109221,WP109222,WP109223		
ICV Standard	WP109224		
CCV Standard	WP110493		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP110494		
Chk Standard	WP109225,WP110495		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	08/07/24 09:22		NF IZ	OK
2	250mg/l	250mg/l	CAL2	08/07/24 09:42		NF IZ	OK
3	500mg/l	500mg/l	CAL3	08/07/24 09:51		NF IZ	OK
4	1000mg/l	1000mg/l	CAL4	08/07/24 10:11		NF IZ	OK
5	2000mg/l	2000mg/l	CAL5	08/07/24 10:23		NF IZ	OK
6	ICV1	ICV1	ICV	08/07/24 10:40		NF IZ	OK
7	ICB1	ICB1	ICB	08/07/24 11:00		NF IZ	OK
8	CCV1	CCV1	CCV	11/01/24 09:43		NF IZ	OK
9	CCB1	CCB1	CCB	11/01/24 09:57		NF IZ	OK
10	LB133245BLS	LB133245BLS	MB	11/01/24 10:13		NF IZ	OK
11	LB133245BSS	LB133245BSS	LCS	11/01/24 10:34		NF IZ	OK
12	P4653-01	TAPLPR-SED10-1030	SAM	11/01/24 11:51		NF IZ	OK
13	P4653-02	TAPLPR-SED09-1030	SAM	11/01/24 12:18		NF IZ	OK
14	P4653-03	TAPLPR-SED09-1030	MS	11/01/24 12:58	sample + 40ul of WP110493	NF IZ	OK
15	P4653-04	TAPLPR-SED09-1030	MSD	11/01/24 13:22	sample + 40ul of WP110493	NF IZ	OK
16	P4653-05	TAPLPR-SED08-1030	SAM	11/01/24 14:10		NF IZ	OK
17	CCV2	CCV2	CCV	11/01/24 14:40		NF IZ	OK
18	CCB2	CCB2	CCB	11/01/24 14:54		NF IZ	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB133245

Review By	Niha	Review On	11/6/2024 9:29:04 AM
Supervise By	Iwona	Supervise On	11/6/2024 10:12:25 AM
SubDirectory	LB133245	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP109219,WP109220,WP109221,WP109222,WP109223		
ICV Standard	WP109224		
CCV Standard	WP110493		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP110494		
Chk Standard	WP109225,WP110495		

19	P4672-01	TAPLPR-SED06-1030	SAM	11/01/24 15:15		NF IZ	OK
20	P4672-02	TAPLPR-SED07-1030	SAM	11/01/24 15:29		NF IZ	OK
21	P4672-03	TAPLPR-SED03-1031	SAM	11/01/24 15:55		NF IZ	OK
22	P4672-04	TAPLPR-SED04-1031	SAM	11/01/24 16:27		NF IZ	OK
23	P4672-05	TAPLPR-SED05-1031	SAM	11/01/24 16:42		NF IZ	OK
24	CCV3	CCV3	CCV	11/01/24 17:13		NF IZ	OK
25	CCB3	CCB3	CCB	11/01/24 17:31		NF IZ	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133262

Review By	jignesh	Review On	11/8/2024 7:37:53 AM
Supervise By	Iwona	Supervise On	11/11/2024 9:09:14 AM
SubDirectory	LB133262	Test	pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3107,W3093,W3094,W3071,W3005,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/03/24 09:30		Jignesh	OK
2	CAL2	CAL2	CAL	11/03/24 09:31		Jignesh	OK
3	CAL3	CAL3	CAL	11/03/24 09:32		Jignesh	OK
4	ICV	ICV	ICV	11/03/24 09:35		Jignesh	OK
5	CCV1	CCV1	CCV	11/03/24 09:40		Jignesh	OK
6	P4660-02	WC-TA2-01-C	SAM	11/03/24 09:47		Jignesh	OK
7	P4660-06	WC-WOOD-01-C	SAM	11/03/24 09:52		Jignesh	OK
8	P4660-10	WC-CONCRETE-01-C	SAM	11/03/24 10:00		Jignesh	OK
9	P4672-01	TAPLPR-SED06-1030	SAM	11/03/24 10:10		Jignesh	OK
10	P4672-02	TAPLPR-SED07-1030	SAM	11/03/24 10:15		Jignesh	OK
11	P4672-03	TAPLPR-SED03-1031	SAM	11/03/24 10:22		Jignesh	OK
12	P4672-04	TAPLPR-SED04-1031	SAM	11/03/24 10:30		Jignesh	OK
13	P4672-05	TAPLPR-SED05-1031	SAM	11/03/24 10:37		Jignesh	OK
14	P4672-05DUP	TAPLPR-SED05-1031	DUP	11/03/24 10:38		Jignesh	OK
15	CCV2	CCV2	CCV	11/03/24 10:40		Jignesh	OK

Prep Standard - Chemical Standard Summary

Order ID : P4672

Test : Percent Solids,pH,TOC

Prepbatch ID :

Sequence ID/Qc Batch ID: LB133245, LB133262,

Standard ID :

WP109217, WP109218, WP109219, WP109220, WP109221, WP109222, WP109223, WP109224, WP109225, WP 110493, W
P110494, WP110495,

Chemical ID :

W2784, W2860, W3005, W3071, W3072, W3093, W3094, W3107, W3111, W3112,

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Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2050	TOC STOCK STD, 4000PPM	WP109217	08/07/2024	01/18/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC)	WETCHEM_FIPETTE_3 (WC)	Mohan Bera 08/16/2024
FROM 5.00000ml of W2860 + 8.51200gram of W3111 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2051	TOC STOCK STD-SS, 4000PPM	WP109218	08/07/2024	02/07/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC)	WETCHEM_FIPETTE_3 (WC)	Mohan Bera 08/16/2024
FROM 5.00000ml of W2860 + 8.51200gram of W2784 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
304	TOC CAL 0.00ppm	WP109219	08/07/2024	08/14/2024	Iwona Zarych	None	None	Mohan Bera
								08/16/2024

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
712	TOC SOIL cal 250ppm	WP109220	08/07/2024	08/14/2024	Iwona Zarych	None	WETCHEM_FIPETTE_3	Mohan Bera
							(WC)	08/16/2024

FROM 15.00000ml of W3112 + 1.00000ml of WP109217 = Final Quantity: 16.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
710	TOC SOIL cal 500ppm	WP109221	08/07/2024	08/14/2024	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Mohan Bera 08/16/2024
FROM 14.00000ml of W3112 + 2.00000ml of WP109217 = Final Quantity: 16.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3544	TOC SOIL Cal- CCV 1000PPM	WP109222	08/07/2024	08/14/2024	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Mohan Bera 08/16/2024
FROM 15.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 20.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
713	TOC SOIL cal 2000ppm	WP109223	08/07/2024	08/14/2024	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Mohan Bera 08/16/2024
FROM 5.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2819	TOC ICV-LCSS, 1000PPM	WP109224	08/07/2024	08/14/2024	Iwona Zarych	None	WETCHEM_F IPETTE_3 (WC)	Mohan Bera 08/16/2024
FROM 15.00000ml of W3112 + 5.00000ml of WP109218 = Final Quantity: 20.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2435	1:1 PHOSPHORIC ACID FOR TOC SOILS	WP109225	08/07/2024	02/07/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Mohan Bera 08/16/2024
FROM 50.00000ml of W2860 + 50.00000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3544	TOC SOIL Cal- CCV 1000PPM	WP110493	10/30/2024	11/06/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/31/2024
FROM 15.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 20.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2819	TOC ICV-LCSS, 1000PPM	WP110494	10/30/2024	11/06/2024	Niha Farheen Shaik	None	None	Iwona Zarych
								10/31/2024

FROM 15.00000ml of W3112 + 5.00000ml of WP109218 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3545	TOC SOIL MDL-50PPM	WP110495	10/30/2024	11/06/2024	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3	Iwona Zarych
							(WC)	10/31/2024

FROM 39.50000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 40.000 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	4212E45	12/31/2024	01/31/2023 / lwona	01/31/2023 / lwona	W3005

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / lwona	W3071

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14940-1 / Buffer Solution, PH12 (500ml)	2310P21	04/30/2025	01/02/2024 / JIGNESH	12/07/2023 / lwona	W3072

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	4310g83	03/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3094

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	AL14055-3	02/27/2026	09/05/2024 / jignesh	05/13/2024 / jignesh	W3107

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24A1956910	01/18/2025	06/26/2024 / lwona	06/26/2024 / lwona	W3111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Phosphoric Acid
BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)



Material No.: 0260-03
Batch No.: 0000278313
Manufactured Date: 2021/02/01
Retest Date: 2026/01/31
Revision No: 2

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H_3PO_4) (by acidimetry)	85.0 – 87.0 %	85.8
Calcium (Ca)	≤ 0.002 %	< 0.001
Color (APHA)	≤ 10	5
Insoluble Matter	≤ 0.001 %	< 0.001
ACS – Magnesium (Mg)	≤ 0.002 %	< 0.002
Sulfate (SO_4)	≤ 12 ppm	< 4
Volatile Acids (as CH_3COOH)	≤ 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	≤ 3 ppm	< 1
Nitrate (NO_3)	≤ 5 ppm	< 2
Trace Impurities – Antimony (Sb)	≤ 20.000 ppm	0.007
Trace Impurities – Arsenic (As)	≤ 0.500 ppm	< 0.001
Trace Impurities – Iron (Fe)	≤ 10.000 ppm	< 1.000
Heavy Metals (as Pb)	≤ 8 ppm	< 3
Trace Impurities – Manganese (Mn)	≤ 0.500 ppm	0.005
Trace Impurities – Potassium (K)	≤ 40.000 ppm	< 0.001
Trace Impurities – Sodium (Na)	≤ 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use

Exceeds A.C.S. Specifications

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700


W3071
Rec 12/6/23

Certificate of Analysis 12

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023

Expiration Date: JUL 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result
Appearance	Yellow liquid	Passed *Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.002	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (08/09/2023)

Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --
Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



RICCA CHEMICAL COMPANY®

1841 Broad Street
Pocomoke City, MD 21851
<http://www.riccachemical.com>
1-888-GO-RICCA
customerservice@riccachemical.com

W 3072
REC. 12/01/23
12

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C

Lot Number: 2310P21

Product Number: 1615

Manufacture Date: OCT 24, 2023

Expiration Date: APR 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

°C	15	20	25	30	35	40
pH	12.35	12.17	11.99	11.78	11.62	11.46

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.005	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-32	1 L natural poly	18 months
1615-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Sharon Travers

Sharon Travers (10/24/2023)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --
Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Certificate of Analysis

ThermoFisher
SCIENTIFIC

Certificate of Analysis

1 Reagent Lane

Fair Lawn, NJ 07410

201.796.7100 tel

201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089		
Description	POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, A.C.S.		
Country of Origin	Spain	Suggested Retest Date	Jun/2025
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	WHITE CRYSTALS
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03
CHLORINE COMPOUNDS	%	<= 0.003	<0.003
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00
SODIUM (Na)	%	<= 0.005	<0.005
SULFUR COMPOUNDS	%	<= 0.002	<0.002%
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L



Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



W 3005

REC- 1/31/23

12

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 4212E45

Product Number: 1493

Manufacture Date: DEC 20, 2022

Expiration Date: DEC 2024

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	10	15	20	25	30	35	40	45	50
pH	1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	2.000	0.02	185i, 186-I-g, 186-II-g

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-32	1 L natural poly	24 months
1493-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (12/20/2022)

Production Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



Certificate of Analysis

W3093
094121
04/03/2024
16

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4401F99

Product Number: 1551

Manufacture Date: JAN 08, 2024

Expiration Date: DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (01/08/2024)

Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --
Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 4310G83

Product Number: 1601

Manufacture Date: OCT 09, 2023

Expiration Date: MAR 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result
Appearance	Blue liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.003	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
Buffer C	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1601-16	500 mL natural poly	18 months
1601-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (10/09/2023)

Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --
Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



Certificate of Analysis

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 4403F90

Product Number: 1501

Manufacture Date: MAR 09, 2024

Expiration Date: FEB 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	Specification	Result
Appearance	Red liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.000	0.02	185i, 186-I-g, 186-II-g

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1501-2.5	10 L Cubitainer®	24 months
1501-32	1 L natural poly	24 months
1501-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon

Production Manager

This product was tested in an ISO 17025 Accredited Laboratory

78 of 88



POTASSIUM HYDROGEN PHTHALATE

Material: N983
Grade: ACS GRADE
Batch Number: 24A1956910

Chemical Formula: HOCC6H4COOK
Molecular Weight: 204.22
CAS #: 877-24-7
Appearance:

Manufacture Date: 01/19/2022
Reassay Date: 01/18/2025

Storage: Room Temperature

White crystals.

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Assay (dried basis)	99.95 - 100.05 %	99.97 %	PASS
Chlorine Compounds	<= 0.003 %	<0.003 %	PASS
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm	PASS
Insoluble Matter	<= 0.005 %	0.003 %	PASS
Iron	<= 5 ppm	<5 ppm	PASS
pH (0.05M, Water) @25C	4.00 - 4.02	4.00	PASS
Sodium	<= 0.005 %	<0.005 %	PASS
Sulfur Compounds	<= 0.002 %	<0.002 %	PASS

Spec Set: N983ACS

Internal ID #: 710

Signature	Additional Information
We certify that this batch conforms to the specifications listed. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits. Product meets analytical specifications of the grades listed.

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133250

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
P4647-01	01A-01B-01C	1	1.00	1.00	2.00	2.00	100.0	caluk
P4658-01	B-131-1-SB02	2	1.16	8.56	9.72	5.57	51.5	
P4658-02	B-131-2-SB02	3	1.15	8.63	9.78	5.91	55.2	
P4658-03	B-131-3-SB02	4	1.14	8.37	9.51	5.83	56.0	
P4659-02	MH-2-EPH	5	1.14	8.59	9.73	8.7	88.0	
P4659-03	MH-2-VOC	6	1.16	8.70	9.86	8.83	88.2	
P4660-02	WC-TA2-01-C	7	1.13	8.76	9.89	8.92	88.9	
P4660-06	WC-WOOD-01-C	8	1.00	1.00	2.00	2.00	100.0	wood chips
P4660-10	WC-CONCRETE-01-C	9	1.14	8.55	9.69	9.03	92.3	
P4660-12	WC-CONCRETE-01-C	10	1.14	8.54	9.68	9.06	92.7	
P4661-01	102824-A	11	1.00	1.00	2.00	2.00	100.0	wipe sample
P4661-02	102824-B	12	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-01	102524-DRIP-A	13	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-02	102524-B	14	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-03	102524-C	15	1.00	1.00	2.00	2.00	100.0	wipe sample
P4663-01	TENNANT-PAD-2-3-STOCKPILE	16	1.14	8.75	9.89	9.1	91.0	
P4663-02	TENNANT-PAD-2-3-STOCKPILE	17	1.16	8.75	9.91	9.11	90.9	
P4663-03	RES-BUILDING-PAD-NO-11	18	1.16	8.74	9.9	9.19	91.9	
P4663-04	RES-BUILDING-PAD-NO-11	19	1.16	8.67	9.83	9.11	91.7	
P4663-05	RES-BUILDING-PAD-NO-3	20	1.15	8.61	9.76	8.94	90.5	
P4663-06	RES-BUILDING-PAD-NO-3	21	1.16	8.64	9.8	9.04	91.2	
P4663-07	RES-BUILDING-PAD-NO-2	22	1.16	8.46	9.62	8.41	85.7	
P4663-08	RES-BUILDING-PAD-NO-2	23	1.17	8.78	9.95	9.19	91.3	
P4667-01	BP-F-6	24	1.16	8.42	9.58	8.66	89.1	
P4667-02	BP-F-6-EPH	25	1.18	8.51	9.69	8.7	88.4	
P4667-03	BP-F-6-VOC	26	1.19	8.65	9.84	8.88	88.9	
P4667-05	BP-F-5	27	1.16	8.51	9.67	8.76	89.3	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133250

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P4667-06	BP-F-5-EPH	28	1.16	8.52	9.68	8.76	89.2	
P4667-07	BP-F-5-VOC	29	1.17	8.64	9.81	8.79	88.2	
P4667-09	BP-F-10	30	1.17	8.78	9.95	8.98	89.0	
P4667-10	BP-F-10-EPH	31	1.17	8.54	9.71	8.84	89.8	
P4667-11	BP-F-10-VOC	32	1.16	8.81	9.97	9.06	89.7	
P4667-13	BP-F-7	33	1.16	8.71	9.87	8.91	89.0	
P4667-14	BP-F-7-EPH	34	1.17	8.44	9.61	8.57	87.7	
P4667-15	BP-F-7-VOC	35	1.18	8.42	9.6	8.72	89.5	
P4672-01	TAPLPR-SED06-103024-00-T2	36	1.19	8.65	9.84	7.71	75.4	
P4672-02	TAPLPR-SED07-103024-00-T2	37	1.19	8.47	9.66	8.48	86.1	
P4672-03	TAPLPR-SED03-103024-00-T2	38	1.19	8.68	9.87	8.31	82.0	
P4672-04	TAPLPR-SED04-103024-00-T2	39	1.19	8.77	9.96	8.77	86.4	
P4672-05	TAPLPR-SED05-103024-00-T2	40	1.18	8.62	9.8	8.41	83.9	
P4675-01	COMP-1	41	1.18	8.56	9.74	7.85	77.9	
P4675-02	COMP-2	42	1.19	8.48	9.67	8.46	85.7	
P4675-03	COMP-3	43	1.19	8.78	9.97	8.99	88.8	
P4675-04	COMP-4	44	1.18	8.71	9.89	8.4	82.9	
P4675-05	COMP-5	45	1.17	8.54	9.71	8.18	82.1	
P4675-06	COMP-6	46	1.17	8.70	9.87	8.24	81.3	
P4677-01	2410-6346	47	1.00	1.00	2.00	2.00	100.0	PAINT CHIPS
P4679-01	MH-1	48	1.18	8.80	9.98	8.98	88.6	
P4679-02	MH-1-EPH	49	1.19	8.58	9.77	8.65	86.9	
P4679-03	MH-1-VOC	50	1.19	8.62	9.81	8.72	87.4	
P4680-01	BP-F26	51	1.18	8.80	9.98	9.08	89.8	
P4680-02	BP-F26-EPH	52	1.18	8.44	9.62	8.71	89.2	
P4680-03	BP-F26-VOC	53	1.19	8.50	9.69	8.75	88.9	

PERCENT SOLID

Supervisor: jignesh
 Analyst: Iwona
 Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
 Time IN: 15:15
 In Date: 11/01/2024
 Weight Check 1.0g: 1.00
 Weight Check 10g: 10.00
 OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
 Time OUT: 08:00
 Out Date: 11/02/2024
 Weight Check 1.0g: 1.00
 Weight Check 10g: 10.00
 BalanceID: M SC-4
 Thermometer ID: % SOLID- OVEN

QC:LB133250

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
P4680-05	BP-F25	54	1.18	8.69	9.87	8.9	88.8	
P4680-06	BP-F25-EPH	55	1.19	8.79	9.98	8.91	87.8	
P4680-07	BP-F25-VOC	56	1.18	8.60	9.78	8.86	89.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

LB 183250

WorkList Name : %solid-110124 WorkList ID : 185025 Department : Wet-Chemistry Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4647-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	K61	10/31/2024	Chemtech -SO
P4658-01	B-131-1-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-02	B-131-2-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-03	B-131-3-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4659-02	MH-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4659-03	MH-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4660-02	WC-TA2-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-06	WC-WOOD-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-10	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-12	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4661-01	102824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4661-02	102824-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4662-01	102524-DRIP-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-02	102524-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-03	102524-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4663-01	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-03	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-05	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/24 15:30 Date/Time 11/01/24 Date/Time 11/01/24

Raw Sample Received by: SO web Raw Sample Received by: SO web Raw Sample Received by: SO web

Raw Sample Relinquished by: SO web Raw Sample Relinquished by: SO web Raw Sample Relinquished by: SO web

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 WorkList ID : 185025 Department : Wet-Chemistry Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-07	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4667-01	BP-F-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-02	BP-F-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-03	BP-F-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-05	BP-F-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-06	BP-F-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-07	BP-F-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-09	BP-F-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-10	BP-F-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-11	BP-F-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-13	BP-F-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-14	BP-F-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-15	BP-F-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4672-01	TAPLPR-SED06-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-02	TAPLPR-SED07-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-03	TAPLPR-SED03-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-04	TAPLPR-SED04-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-05	TAPLPR-SED05-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4675-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/2024 15:30 Date/Time 11/01/2024 18 Date/Time 11/01/2024 17:30
 Raw Sample Received by: JP WEC Raw Sample Received by: ES Raw Sample Received by: ES
 Raw Sample Relinquished by: ES Raw Sample Relinquished by: ES Raw Sample Relinquished by: ES

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 WorkList ID : 185025 Department : Wet-Chemistry Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4675-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-04	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-05	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-06	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4677-01	2410-6346	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-01	MH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-02	MH-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-03	MH-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4680-01	BP-F26	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-02	BP-F26-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-03	BP-F26-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-05	BP-F25	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-06	BP-F25-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-07	BP-F25-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO

Date/Time 11/01/24 15:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 11/01/24 17:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]



SHIPPING DOCUMENTS

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P4672



Weston COC ID
Weston_20241031_1307

Chain of Custody Record/Lab Work Request

Page 1 of 1

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111145	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	21	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

Analyses Requested:	pH by EPA 9045D TOC by EPA 9060A/Lloyd Kahn																		
		Container Type:	Glass	Glass															
		Container Size:	8 oz	8 oz															
		Preservative:	Ice to 0-6	Ice to 0-6															

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected													Special Instructions/Comments
1	TAPLPR-SED06-103024-00-T2	g	SE	1	no	10/30/2024	15:30	X	X											
2	TAPLPR-SED07-103024-00-T2	g	SE	1	no	10/30/2024	16:55	X	X											
3	TAPLPR-SED03-103124-00-T2	g	SE	1	no	10/31/2024	10:05	X	X											
4	TAPLPR-SED04-103124-00-T2	g	SE	1	no	10/31/2024	11:10	X	X											
5	TAPLPR-SED05-103124-00-T2	g	SE	1	no	10/31/2024	12:25	X	X											
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Shipping Airbill Number: 7796 5717 6944						Cooler Number: 1 of 1	
Relinquished By	Date	Time	Received By	Date	Time	Additional Comments	
Chyn Hyl	10/31/24	1415	CL	11-1-24	940	QSM 6.0 Compliant	
2.)						Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD	
3.)							

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488