

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : P3671

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



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Cover Page

Order ID : P3671

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3671-01
P3671-02
P3671-03
P3671-04
P3671-05
P3671-06
P3671-07
P3671-08
P3671-09
P3671-10
P3671-11
P3671-12
P3671-13
P3671-14
P3671-15

Client Sample Number

S-904-J-SO-0-0.5-081924
S-904-J-SO-0.5-1.0-081924
S-911-K1-SO-0-0.5-081924
S-911-K1-SO-0.5-1-081924
S-911-K1-SO-0-0.5-081924-FD
S-905-KJ-SO-0-0.5-081924
S-905-KJ-SO-0-0.5-081924-FD
S-905-J-SO-0.5-1.0-081924
S-928-K1-SO-0-0.5-081924
S-928-K1-SO-0.5-1-081924
S-903-J-SO-0-0.5-081924
S-903-J-SO-0.5-1.0-081924
S-912-J-SO-0-0.5-081924
S-912-J-SO-0.5-1-081924
TB-01-081924

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 :

N. N. Pandya

APPROVED

Date: 9/2/2024
By Nimisha Pandya QA/QC Supervisor at 10:47 am, Sep 04, 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

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3671

Test Name: Hexavalent Chromium,TOC

A. Number of Samples and Date of Receipt:

14 Solid samples were received on 08/19/2024.

1 Water sample was received on 08/19/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group5, TOC, VOCMS Group 4, VOCMS Group3, VOCMS Group5 and VOCMS Group6. This data package contains results for Hexavalent Chromium,TOC.

C. Analytical Techniques:

The analysis of Hexavalent Chromium was based on method 7196A and The analysis of TOC was based on method Lloyd Kahn.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (S-929-K1-SO-0-0.5-082024MS) analysis met criteria for all samples except for TOC due to sample matrix interference.

The Matrix Spike Duplicate (S-929-K1-SO-0-0.5-082024MSD) analysis met criteria for all samples except for TOC due to sample matrix interference.

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

The Calibration met the requirements.

E. Additional Comments:

Lab has used least representable sample weight for the sample P3671-01, P3671-02, P3671-03, P3671-04, P3671-05, P3671-06, P3671-07, P3671-08,P3671-09, P3671-10,P3671-11, P3671-13 and P3671-14 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.



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_

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:48 am, Sep 04, 2024

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: P3671

MATRIX: Solid

METHOD: 7196A, 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. The Matrix Spike (S-929-K1-SO-0-0.5-082024MS) analysis met criteria for all samples except for TOC due to sample matrix interference. The Matrix Spike Duplicate (S-929-K1-SO-0-0.5-082024MSD) analysis met criteria for all samples except for TOC due to sample matrix interference.			
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:			

ADDITIONAL COMMENTS:

Lab has used least representable sample weight for the sample P3671-01, P3671-02, P3671-03, P3671-04, P3671-05, P3671-06, P3671-07, P3671-08, P3671-09, P3671-10, P3671-11, P3671-13 and P3671-14 for TOC analysis. Therefore Lab has reported the TOC result with "OR" qualifier.

S. M. Jodhani
QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 9:39 am, Sep 04, 2024

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3671

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

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 09/02/2024

2nd Level QA Review Signature:

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:48 am, Sep 04, 2024

LAB CHRONICLE

OrderID:	P3671	OrderDate:	8/20/2024 10:36:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	G11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3671-01	S-904-J-SO-0-0.5-08 1924	SOIL	Hexavalent Chromium	7196A	08/19/24 09:15	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:14 08/29/24 10:51	
P3671-02	S-904-J-SO-0.5-1.0-0 81924	SOIL	Hexavalent Chromium	7196A	08/19/24 09:30	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:15 08/29/24 11:14	
P3671-03	S-911-K1-SO-0-0.5-0 81924	SOIL	Hexavalent Chromium	7196A	08/19/24 09:45	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:16 08/29/24 11:40	
P3671-04	S-911-K1-SO-0.5-1-0 81924	SOIL	Hexavalent Chromium	7196A	08/19/24 10:00	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:17 08/29/24 12:08	
P3671-05	S-911-K1-SO-0-0.5-0 81924-FD	SOIL	Hexavalent Chromium	7196A	08/19/24 10:10	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:18 08/29/24 12:32	

LAB CHRONICLE

P3671-06	S-905-KJ-SO-0-0.5-0 81924	SOIL	Hexavalent Chromium	7196A	08/19/24 10:30	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:19 08/29/24 12:57	
P3671-07	S-905-KJ-SO-0-0.5-0 81924-FD	SOIL	Hexavalent Chromium	7196A	08/19/24 10:35	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:20 08/29/24 13:36	
P3671-08	S-905-J-SO-0.5-1.0-0 81924	SOIL	Hexavalent Chromium	7196A	08/19/24 10:45	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:21 08/29/24 14:01	
P3671-09	S-928-K1-SO-0-0.5-0 81924	SOIL	Hexavalent Chromium	7196A	08/19/24 12:10	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:24 08/29/24 14:53	
P3671-10	S-928-K1-SO-0.5-1-0 81924	SOIL	Hexavalent Chromium	7196A	08/19/24 12:20	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:25 08/29/24 15:30	
P3671-11	S-903-J-SO-0-0.5-08 1924	SOIL	Hexavalent Chromium	7196A	08/19/24 13:10	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:26 08/29/24 15:51	

LAB CHRONICLE

P3671-12	S-903-J-SO-0.5-1.0-0 81924	SOIL	Hexavalent Chromium	7196A	08/19/24 13:20	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:27 08/29/24 16:12	
P3671-13	S-912-J-SO-0-0.5-08 1924	SOIL	Hexavalent Chromium	7196A	08/19/24 13:30	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:28 08/29/24 16:39	
P3671-14	S-912-J-SO-0.5-1-08 1924	SOIL	Hexavalent Chromium	7196A	08/19/24 13:40	08/22/24	08/23/24	08/19/24
			TOC	Lloyd Kahn			12:29 08/29/24 17:02	



SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 09:15
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-904-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-01	Matrix:	SOIL
		% Solid:	71.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.11	U	1	0.11	0.55	mg/Kg	08/22/24 14:00	08/23/24 12:14	7196A
TOC	23200	OR	1	8.00	250	mg/Kg		08/29/24 10:51	Lloyd Kahn

Comments: _____

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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 09:30
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-904-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-02	Matrix:	SOIL
		% Solid:	79.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.099	U	1	0.099	0.50	mg/Kg	08/22/24 14:00	08/23/24 12:15	7196A
TOC	18400	OR	1	8.00	250	mg/Kg		08/29/24 11:14	Lloyd Kahn

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 09:45
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-03	Matrix:	SOIL
		% Solid:	46.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.17	U	1	0.17	0.84	mg/Kg	08/22/24 14:00	08/23/24 12:16	7196A
TOC	43700	OR	1	8.00	250	mg/Kg		08/29/24 11:40	Lloyd Kahn

Comments: _____

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N = Spiked sample recovery not within control limits

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 10:00
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-04	Matrix:	SOIL
		% Solid:	56

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.14	U	1	0.14	0.71	mg/Kg	08/22/24 14:00	08/23/24 12:17	7196A
TOC	55900	OR	1	8.00	250	mg/Kg		08/29/24 12:08	Lloyd Kahn

Comments: _____

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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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 10:10
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-05	Matrix:	SOIL
		% Solid:	35

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.22	U	1	0.22	1.13	mg/Kg	08/22/24 14:00	08/23/24 12:18	7196A
TOC	68800	OR	1	8.00	250	mg/Kg		08/29/24 12:32	Lloyd Kahn

Comments: _____

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 MDL = Method Detection Limit
 LOD = Limit of Detection
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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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 10:30
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-06	Matrix:	SOIL
		% Solid:	78.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.10	U	1	0.10	0.51	mg/Kg	08/22/24 14:00	08/23/24 12:19	7196A
TOC	19100	OR	1	8.00	250	mg/Kg		08/29/24 12:57	Lloyd Kahn

Comments: _____

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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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 10:35
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-07	Matrix:	SOIL
		% Solid:	76.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.10	U	1	0.10	0.52	mg/Kg	08/22/24 14:00	08/23/24 12:20	7196A
TOC	21200	OR	1	8.00	250	mg/Kg		08/29/24 13:36	Lloyd Kahn

Comments: _____

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 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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 10:45
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-08	Matrix:	SOIL
		% Solid:	82

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.095	U	1	0.095	0.48	mg/Kg	08/22/24 14:00	08/23/24 12:21	7196A
TOC	13600	OR	1	8.00	250	mg/Kg		08/29/24 14:01	Lloyd Kahn

Comments: _____

U = Not Detected
LOQ = Limit of Quantitation
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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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 12:10
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-09	Matrix:	SOIL
		% Solid:	48

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.16	U	1	0.16	0.82	mg/Kg	08/22/24 14:00	08/23/24 12:24	7196A
TOC	35000	OR	1	8.00	250	mg/Kg		08/29/24 14:53	Lloyd Kahn

Comments: _____

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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 12:20
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-10	Matrix:	SOIL
		% Solid:	57.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.14	U	1	0.14	0.69	mg/Kg	08/22/24 14:00	08/23/24 12:25	7196A
TOC	30800	OR	1	8.00	250	mg/Kg		08/29/24 15:30	Lloyd Kahn

Comments:

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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 13:10
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-11	Matrix:	SOIL
		% Solid:	83.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.094	U	1	0.094	0.48	mg/Kg	08/22/24 14:00	08/23/24 12:26	7196A
TOC	19500	OR	1	8.00	250	mg/Kg		08/29/24 15:51	Lloyd Kahn

Comments: _____

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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 13:20
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-12	Matrix:	SOIL
		% Solid:	85.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.091	U	1	0.091	0.46	mg/Kg	08/22/24 14:00	08/23/24 12:27	7196A
TOC	13600		1	8.00	250	mg/Kg		08/29/24 16:12	Lloyd Kahn

Comments: _____

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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 13:30
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-13	Matrix:	SOIL
		% Solid:	30.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.25	U	1	0.25	1.28	mg/Kg	08/22/24 14:00	08/23/24 12:28	7196A
TOC	83300	OR	1	8.00	250	mg/Kg		08/29/24 16:39	Lloyd Kahn

Comments: _____

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:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24 13:40
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-14	Matrix:	SOIL
		% Solid:	51.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.15	U	1	0.15	0.76	mg/Kg	08/22/24 14:00	08/23/24 12:29	7196A
TOC	26100	OR	1	8.00	250	mg/Kg		08/29/24 17:02	Lloyd Kahn

Comments: _____

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: JACOBS Engineering Group, Inc.
Project: Former Schlumberger Site Princeton NJ

SDG No.: P3671
RunNo.: LB132146

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.504	0.5	101	90-110	08/23/2024
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	08/23/2024
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	08/23/2024
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	08/23/2024
Sample ID: CCV4 Hexavalent Chromium	mg/L	0.504	0.5	101	90-110	08/23/2024

Initial and Continuing Calibration Verification

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger Site Princeton NJ

SDG No.: P3671
RunNo.: LB132204

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	987	1000	99	90-110	08/29/2024
Sample ID: CCV2 TOC	mg/L	989	1000	99	90-110	08/29/2024
Sample ID: CCV3 TOC	mg/L	1010	1000	101	90-110	08/29/2024
Sample ID: CCV4 TOC	mg/L	986	1000	99	90-110	08/30/2024
Sample ID: CCV5 TOC	mg/L	1020	1000	102	90-110	08/30/2024

Initial and Continuing Calibration Blank Summary

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger Site Princeton NJ

SDG No.: P3671
RunNo.: LB132146

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/23/2024
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/23/2024
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/23/2024
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/23/2024
Sample ID: CCB4 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/23/2024

Initial and Continuing Calibration Blank Summary

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger Site Princeton NJ

SDG No.: P3671
RunNo.: LB132204

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	08/29/2024
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	08/29/2024
Sample ID: CCB3 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	08/29/2024
Sample ID: CCB4 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	08/30/2024
Sample ID: CCB5 TOC	mg/L	< 125.0000	125.0000	U	32.1	250	08/30/2024

Preparation Blank Summary

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Project: Former Schlumberger Site Princeton NJ

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB132204BLS TOC	mg/Kg	< 125.0000	125.0000	U	8	250	08/29/2024
Sample ID: LB132204BLS2 TOC	mg/Kg	< 125.0000	125.0000	U	8	250	08/30/2024
Sample ID: PB162926BL Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	08/23/2024

Matrix Spike Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3671
Project:	Former Schlumberger Site Princeton NJ	Sample ID:	P3704-01
Client ID:	LNG-Soil PileMS	Percent Solids for Spike Sample:	92.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1340		0.084	U	1390	40	96		08/23/2024

Matrix Spike Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3671
Project:	Former Schlumberger Site Princeton NJ	Sample ID:	P3704-01
Client ID:	LNG-Soil PileMS	Percent Solids for Spike Sample:	92.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	41.7		0.084	U	43.2	2	96		08/23/2024

Matrix Spike Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3671
Project:	Former Schlumberger Site Princeton NJ	Sample ID:	P3704-01
Client ID:	LNG-Soil PileMS	Percent Solids for Spike Sample:	92.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	33.8		0.084	U	43.2	2	78		08/23/2024

Matrix Spike Summary

Client:

JACOBS Engineering Group, Inc.

SDG No.:

P3671

Project:

Former Schlumberger Site Princeton NJ

Sample ID:

P3707-01

Client ID:

S-929-K1-SO-0-0.5-082024MS

Percent Solids for Spike Sample:

27.7

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	67400	OR	66100	OR	1000	1	130	*	08/30/2024

Matrix Spike Summary

Client:

JACOBS Engineering Group, Inc.

SDG No.:

P3671

Project:

Former Schlumberger Site Princeton NJ

Sample ID:

P3707-01

Client ID:

S-929-K1-SO-0-0.5-082024MSD

Percent Solids for Spike Sample:

27.7

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	67800	OR	66100	OR	1000	1	170	*	08/30/2024

Duplicate Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3671
Project:	Former Schlumberger Site Princeton NJ	Sample ID:	P3704-01
Client ID:	LNG-Soil PileDUP	Percent Solids for Spike Sample:	92.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.084	U	0.084	U	1	0		08/23/2024

Duplicate Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3671
Project:	Former Schlumberger Site Princeton NJ	Sample ID:	P3707-01
Client ID:	S-929-K1-SO-0-0.5-082024MSD	Percent Solids for Spike Sample:	27.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	67400	OR	67800	OR	1	1		08/30/2024

Laboratory Control Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3671
Project:	Former Schlumberger Site Princeton NJ	Run No.:	LB132204

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB132204BSS							
TOC	mg/Kg	1000	976		98	1	90-110	08/29/2024

Laboratory Control Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3671
Project:	Former Schlumberger Site Princeton NJ	Run No.:	LB132204

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB132204BSS2							
TOC	mg/Kg	1000	977		98	1	90-110	08/30/2024

Laboratory Control Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3671
Project:	Former Schlumberger Site Princeton NJ	Run No.:	LB132146

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB162926BS								
Hexavalent Chromium	mg/Kg	20	20.2		101	1	84-110	08/23/2024



RAW DATA

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Analytical Summary Report

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB132146

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP109373
5N sulfuric acid	WP107791
HNO3 Hex-Chrome, 5M	WP107796
Hexchrome Cleaning Solution	WP108645

Intercept: 0.001

Slope: 0.7645

Regression: 0.999997

Seq	Lab ID	True Value (mg/L)	DF	Initial Vol (mL)	Final Vol (mL)	pH HNO3	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100	7.31	1.78	0.000	0.000	0.000	-0.00		08/23/2024	12:00
2	CAL2	0.01	1	100	100	7.40	1.90	0.000	0.008	0.008	0.009	-10	08/23/2024	12:01
3	CAL3	0.025	1	100	100	7.41	1.74	0.000	0.021	0.021	0.026	4	08/23/2024	12:02
4	CAL4	0.05	1	100	100	7.37	1.88	0.000	0.039	0.039	0.049	-2	08/23/2024	12:03
5	CAL5	0.1	1	100	100	7.36	1.91	0.000	0.078	0.078	0.100	0	08/23/2024	12:04
6	CAL6	0.5	1	100	100	7.40	1.85	0.000	0.384	0.384	0.500	0	08/23/2024	12:05
7	CAL7	1	1	100	100	7.35	1.90	0.000	0.765	0.765	0.999	-0.1	08/23/2024	12:06

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB132146

pH Meter ID:WC pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100	7.44	1.94	0.000	0.386	0.386	0.504	08/23/2024	12:07
2	ICB		1	100	100	7.27	1.79	0.000	0.001	0.001	0.000	08/23/2024	12:08
3	CCV1	0.5	1	100	100	7.42	1.96	0.000	0.383	0.383	0.500	08/23/2024	12:09
4	CCB1		1	100	100	7.29	1.74	0.000	0.000	0.000	-0.001	08/23/2024	12:10
5	RL Check	0.01	1	100	100	7.44	1.92	0.000	0.010	0.010	0.012	08/23/2024	12:11
6	PB162926BL		1	2.50	100	7.24	1.80	0.000	0.001	0.001	0.000	08/23/2024	12:12
7	PB162926BS	20	1	2.50	100	7.43	1.94	0.000	0.386	0.386	0.504	08/23/2024	12:13
8	P3671-01		1	2.54	100	7.56	2.10	0.036	0.036	0.000	-0.001	08/23/2024	12:14
9	P3671-02		1	2.51	100	7.52	2.06	0.038	0.038	0.000	-0.001	08/23/2024	12:15
10	P3671-03		1	2.55	100	7.66	2.18	0.038	0.038	0.000	-0.001	08/23/2024	12:16
11	P3671-04		1	2.52	100	7.60	2.10	0.037	0.038	0.001	0.000	08/23/2024	12:17
12	P3671-05		1	2.52	100	7.64	2.20	0.036	0.038	0.002	0.001	08/23/2024	12:18
13	P3671-06		1	2.51	100	7.52	2.06	0.032	0.032	0.000	-0.001	08/23/2024	12:19
14	P3671-07		1	2.51	100	7.58	2.28	0.026	0.027	0.001	0.000	08/23/2024	12:20
15	P3671-08		1	2.54	100	7.60	2.16	0.028	0.029	0.001	0.000	08/23/2024	12:21
16	CCV2	0.5	1	100	100	7.45	1.93	0.000	0.384	0.384	0.501	08/23/2024	12:22
17	CCB2		1	100	100	7.30	1.77	0.000	0.000	0.000	-0.001	08/23/2024	12:23
18	P3671-09		1	2.54	100	7.62	2.10	0.032	0.033	0.001	0.000	08/23/2024	12:24
19	P3671-10		1	2.52	100	7.68	2.14	0.028	0.028	0.000	-0.001	08/23/2024	12:25
20	P3671-11		1	2.51	100	7.58	2.16	0.024	0.024	0.000	-0.001	08/23/2024	12:26
21	P3671-12		1	2.52	100	7.52	2.10	0.020	0.020	0.000	-0.001	08/23/2024	12:27
22	P3671-13		1	2.56	100	7.64	2.12	0.028	0.029	0.001	0.000	08/23/2024	12:28
23	P3671-14		1	2.54	100	7.60	2.10	0.026	0.026	0.000	-0.001	08/23/2024	12:29
24	P3704-01		1	2.53	100	7.52	2.06	0.001	0.001	0.000	-0.001	08/23/2024	12:30
25	P3704-01DU		1	2.53	100	7.58	2.04	0.001	0.001	0.000	-0.001	08/23/2024	12:31
26	P3704-01MS	40	2	2.52	100	7.52	2.06	0.000	0.302	0.302	0.394	08/23/2024	12:32
27	P3704-01MS	1284	40	2.53	100	7.52	2.06	0.000	0.599	0.599	0.782	08/23/2024	12:33
28	CCV3	0.5	1	100	100	7.44	1.95	0.000	0.384	0.384	0.501	08/23/2024	12:34
29	CCB3		1	100	100	7.28	1.77	0.000	0.001	0.001	0.000	08/23/2024	12:35
30	P3704-01MS	40	2	2.51	100	7.56	2.10	0.000	0.371	0.371	0.484	08/23/2024	12:36
31	CCV4	0.5	1	100	100	7.42	1.97	0.000	0.386	0.386	0.504	08/23/2024	12:37
32	CCB4		1	100	100	7.32	1.75	0.000	0.001	0.001	0.000	08/23/2024	12:38

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1078.9478			TOC	
CCV1	949.5694			TOC	
CCV1	960.8847			TOC	
CCV1.....	957.3020...	..	...	TOC	..
CCB1	10.3917			TOC	
CCB1	7.3559			TOC	
CCB1.....	9.0099...	..	...	TOC	..
CCB1	11.8257			TOC	
LB132204BLS	6.7822			TOC	
LB132204BLS.....	6.7324...	..	...	TOC	..
LB132204BLS	4.8383			TOC	
LB132204BLS	6.8055			TOC	
LB132204BSS.....	945.0191...	..	...	TOC	..
LB132204BSS	983.6499			TOC	
LB132204BSS	987.0279			TOC	
LB132204BSS.....	988.2843...	..	...	TOC	..
P3671-01	25805.9355			TOC	
P3671-01	19108.8750			TOC	
P3671-01.....	22220.3926...	..	...	TOC	..
P3671-01	25841.6543			TOC	
P3671-02	16789.4434			TOC	
P3671-02.....	19187.2051...	..	...	TOC	..
P3671-02	20088.4297			TOC	
P3671-02	17449.1523			TOC	
P3671-03.....	46373.7148...	..	...	TOC	..
P3671-03	45400.0859			TOC	
P3671-03	45146.1523			TOC	
P3671-03.....	37928.6914...	..	...	TOC	..
P3671-04	59708.5664			TOC	
P3671-04	57201.8828			TOC	
P3671-04.....	55415.7539...	..	...	TOC	..
P3671-04	51265.5156			TOC	
P3671-05	64947.5664			TOC	
P3671-05.....	75335.7031...	..	...	TOC	..
P3671-05	72281.1719			TOC	
P3671-05	62538.6523			TOC	
P3671-06.....	18602.2246...	..	...	TOC	..
P3671-06	16603.3145			TOC	
P3671-06	22605.5156			TOC	
P3671-06.....	18586.8984...	..	...	TOC	..
P3671-07	22692.3828			TOC	
P3671-07	23262.3789			TOC	
P3671-07.....	19157.1836...	..	...	TOC	..
P3671-07	19769.6855			TOC	
P3671-08	11817.7979			TOC	
P3671-08.....	13338.1807...	..	...	TOC	..
P3671-08	15598.3145			TOC	
P3671-08	13512.4922			TOC	
CCV2.....	960.6243...	..	...	TOC	..
CCV2	996.8337			TOC	
CCV2	1001.1315			TOC	
CCV2.....	998.5804...	..	...	TOC	..
CCB2	14.9366			TOC	
CCB2	7.5217			TOC	
CCB2.....	7.7232...	..	...	TOC	..
CCB2	4.3133			TOC	
P3671-09	38407.7227			TOC	
P3671-09.....	32813.4766...	..	...	TOC	..
P3671-09	35418.9727			TOC	
P3671-09	33187.2188			TOC	
P3671-10.....	34859.3555...	..	...	TOC	..
P3671-10	31580.3125			TOC	
P3671-10	32572.1504			TOC	
P3671-10.....	24210.1035...	..	...	TOC	..

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P3671-11	19179.1992	TOC	
P3671-11	16253.0449	TOC	
P3671-11.....	23170.7285...	TOC	..
P3671-11	19465.9043	TOC	
P3671-12	13626.0547	TOC	
P3671-12.....	13490.2080...	TOC	..
P3671-12	15651.3945	TOC	
P3671-12	11484.3691	TOC	
P3671-13.....	75080.5391...	TOC	..
P3671-13	87289.6172	TOC	
P3671-13	88814.6641	TOC	
P3671-13.....	81948.3359...	TOC	..
P3671-14	26748.9023	TOC	
P3671-14	26354.0938	TOC	
P3671-14.....	24964.6543...	TOC	..
P3671-14	26500.2188	TOC	
CCV3	1019.8112	TOC	
CCV3.....	1002.9208...	TOC	..
CCV3	998.7060	TOC	
CCV3	1010.0606	TOC	
CCB3.....	7.1999...	TOC	..
CCB3	10.3120	TOC	
CCB3	24.9916	TOC	
CCB3.....	5.7443...	TOC	..
CCV4	976.4825	TOC	
CCV4	1003.9074	TOC	
CCV4.....	958.1808...	TOC	..
CCV4	1004.7424	TOC	
CCB4	4.9519	TOC	
CCB4.....	4.3709...	TOC	..
CCB4	14.0239	TOC	
CCB4	5.8199	TOC	
LB132204BLS2.....	6.4597...	TOC	..
LB132204BLS2	6.6366	TOC	
LB132204BLS2	4.4330	TOC	
LB132204BLS2.....	9.3323...	TOC	..
LB132204BSS2	934.6795	TOC	
LB132204BSS2	990.1985	TOC	
LB132204BSS2.....	993.6486...	TOC	..
LB132204BSS2	989.9894	TOC	
P3707-01	77254.3984	TOC	
P3707-01.....	56857.6953...	TOC	..
P3707-01	66700.9219	TOC	
P3707-01	63646.8164	TOC	
P3707-02MS.....	75736.1953...	TOC	..
P3707-02MS	61335.8047	TOC	
P3707-02MS	65519.2266	TOC	
P3707-02MS.....	67182.4844...	TOC	..
P3707-03MSD	50492.8789	TOC	
P3707-03MSD	68886.7812	TOC	
P3707-03MSD.....	76673.8906...	TOC	..
P3707-03MSD	75115.2734	TOC	
P3707-04	29902.5625	TOC	
P3707-04.....	39214.2305...	TOC	..
P3707-04	35399.9805	TOC	
P3707-04	35880.4922	TOC	
P3707-05.....	6776.8486...	TOC	..
P3707-05	6687.7441	TOC	
P3707-05	5875.9185	TOC	
P3707-05.....	6098.8618...	TOC	..
P3707-06	2429.6548	TOC	
P3707-06	2030.4044	TOC	
P3707-06.....	2029.9707...	TOC	..
P3707-06	2194.9785	TOC	
P3707-07	17771.2812	TOC	
P3707-07.....	20230.2227...	TOC	..
P3707-07	20064.5977	TOC	

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P3707-07	18167.6172		TOC	
P3707-08.....	18080.3652...	..	...TOC	..
P3707-08	17656.9531		TOC	
P3707-08	15882.5000		TOC	
P3707-08.....	17919.2109...	..	...TOC	..
CCV5	1028.0909		TOC	
CCV5	1037.2393		TOC	
CCV5.....	1025.5879...	..	...TOC	..
CCV5	993.2689		TOC	
CCB5	19.3038		TOC	
CCB5.....	7.1133...	..	...TOC	..
CCB5	6.5886		TOC	
CCB5	5.8789		TOC	
.....		..		

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Method ID		Sample Type	Vial		Timestamp	Message	
Boat	Sampler	Sample			2024/08/29 09:25		
Boat	Sampler	Sample			2024/08/29 09:28		
Boat	Sampler	Sample			2024/08/29 09:30		
Boat	Sampler	...Sample	..	..	2024/08/29 09:33	..	1
Boat	Sampler	Sample			2024/08/29 09:37	Low Sample Detected	2
Boat	Sampler	Sample			2024/08/29 09:40	Low Sample Detected	
Boat	Sampler	...Sample	..	..	2024/08/29 09:44	..Low Sample Detected	3
Boat	Sampler	Sample			2024/08/29 09:46		
Boat	Sampler	Sample			2024/08/29 09:49	Low Sample Detected	4
Boat	Sampler	...Sample	..	..	2024/08/29 09:58	..Low Sample Detected	
Boat	Sampler	Sample			2024/08/29 10:02	Low Sample Detected	5
Boat	Sampler	Sample			2024/08/29 10:08	Low Sample Detected	
Boat	Sampler	...Sample	..	..	2024/08/29 10:11	..	6
Boat	Sampler	Sample			2024/08/29 10:16		
Boat	Sampler	Sample			2024/08/29 10:20		7
Boat	Sampler	...Sample	..	..	2024/08/29 10:23	..	8
Boat	Sampler	Sample			2024/08/29 10:34		
Boat	Sampler	Sample			2024/08/29 10:39		9
Boat	Sampler	...Sample	..	..	2024/08/29 10:46	..	
Boat	Sampler	Sample			2024/08/29 10:51		10
Boat	Sampler	Sample			2024/08/29 10:56		
Boat	Sampler	...Sample	..	..	2024/08/29 11:03	..	11
Boat	Sampler	Sample			2024/08/29 11:08		
Boat	Sampler	Sample			2024/08/29 11:14		12
Boat	Sampler	...Sample	..	..	2024/08/29 11:21	..	
Boat	Sampler	Sample			2024/08/29 11:28		13
Boat	Sampler	Sample			2024/08/29 11:34		
Boat	Sampler	...Sample	..	..	2024/08/29 11:40	..	14
Boat	Sampler	Sample			2024/08/29 11:51		
Boat	Sampler	Sample			2024/08/29 11:57		
Boat	Sampler	...Sample	..	..	2024/08/29 12:02	..	
Boat	Sampler	Sample			2024/08/29 12:08		
Boat	Sampler	Sample			2024/08/29 12:15		
Boat	Sampler	...Sample	..	..	2024/08/29 12:20	..	
Boat	Sampler	Sample			2024/08/29 12:27		
Boat	Sampler	Sample			2024/08/29 12:32		
Boat	Sampler	...Sample	..	..	2024/08/29 12:41	..	
Boat	Sampler	Sample			2024/08/29 12:47		
Boat	Sampler	Sample			2024/08/29 12:53		
Boat	Sampler	...Sample	..	..	2024/08/29 12:57	..	
Boat	Sampler	Sample			2024/08/29 13:04		
Boat	Sampler	Sample			2024/08/29 13:27		
Boat	Sampler	...Sample	..	..	2024/08/29 13:31	..	
Boat	Sampler	Sample			2024/08/29 13:36		
Boat	Sampler	Sample			2024/08/29 13:43		
Boat	Sampler	...Sample	..	..	2024/08/29 13:50	..	
Boat	Sampler	Sample			2024/08/29 13:55		
Boat	Sampler	Sample			2024/08/29 14:01		
Boat	Sampler	...Sample	..	..	2024/08/29 14:04	..	
Boat	Sampler	Sample			2024/08/29 14:06		
Boat	Sampler	Sample			2024/08/29 14:09		
Boat	Sampler	...Sample	..	..	2024/08/29 14:12	..	
Boat	Sampler	Sample			2024/08/29 14:14		
Boat	Sampler	Sample			2024/08/29 14:22	Low Sample Detected	
Boat	Sampler	...Sample	..	..	2024/08/29 14:25	..Low Sample Detected	
Boat	Sampler	Sample			2024/08/29 14:28	Low Sample Detected	
Boat	Sampler	Sample			2024/08/29 14:34		
Boat	Sampler	...Sample	..	..	2024/08/29 14:40	..	
Boat	Sampler	Sample			2024/08/29 14:47		
Boat	Sampler	Sample			2024/08/29 14:53		
Boat	Sampler	...Sample	..	..	2024/08/29 15:02	..	
Boat	Sampler	Sample			2024/08/29 15:07		
Boat	Sampler	Sample			2024/08/29 15:27		
Boat	Sampler	...Sample	..	..	2024/08/29 15:30	..	

Boat Sampler	Sample		2024/08/29	15:34	
Boat Sampler	Sample		2024/08/29	15:40	
Boat Sampler	...Sample	..	..2024/08/29	15:45	..
Boat Sampler	Sample		2024/08/29	15:51	
Boat Sampler	Sample		2024/08/29	15:59	
Boat Sampler	...Sample	..	..2024/08/29	16:03	..
Boat Sampler	Sample		2024/08/29	16:08	
Boat Sampler	Sample		2024/08/29	16:12	
Boat Sampler	...Sample	..	..2024/08/29	16:19	..
Boat Sampler	Sample		2024/08/29	16:25	
Boat Sampler	Sample		2024/08/29	16:32	
Boat Sampler	...Sample	..	..2024/08/29	16:39	..
Boat Sampler	Sample		2024/08/29	16:44	
Boat Sampler	Sample		2024/08/29	16:50	
Boat Sampler	...Sample	..	..2024/08/29	16:56	..
Boat Sampler	Sample		2024/08/29	17:02	
Boat Sampler	Sample		2024/08/29	17:08	
Boat Sampler	...Sample	..	..2024/08/29	17:12	..
Boat Sampler	Sample		2024/08/29	17:16	
Boat Sampler	Sample		2024/08/29	17:19	
Boat Sampler	...Sample	..	..2024/08/29	17:26	..Low Sample Detected
Boat Sampler	Sample		2024/08/29	17:30	Low Sample Detected
Boat Sampler	Sample		2024/08/29	17:32	
Boat Sampler	...Sample	..	..2024/08/29	17:35	..Low Sample Detected
Boat Sampler	Sample		2024/08/30	09:09	
Boat Sampler	Sample		2024/08/30	09:12	
Boat Sampler	...Sample	..	..2024/08/30	09:15	..
Boat Sampler	Sample		2024/08/30	09:19	
Boat Sampler	Sample		2024/08/30	09:23	Low Sample Detected
Boat Sampler	...Sample	..	..2024/08/30	09:26	..Low Sample Detected
Boat Sampler	Sample		2024/08/30	09:30	Low Sample Detected
Boat Sampler	Sample		2024/08/30	09:33	Low Sample Detected
Boat Sampler	...Sample	..	..2024/08/30	09:38	..Low Sample Detected
Boat Sampler	Sample		2024/08/30	09:42	Low Sample Detected
Boat Sampler	Sample		2024/08/30	09:45	Low Sample Detected
Boat Sampler	...Sample	..	..2024/08/30	09:49	..Low Sample Detected
Boat Sampler	Sample		2024/08/30	09:53	
Boat Sampler	Sample		2024/08/30	09:57	
Boat Sampler	...Sample	..	..2024/08/30	10:01	..
Boat Sampler	Sample		2024/08/30	10:05	
Boat Sampler	Sample		2024/08/30	10:15	
Boat Sampler	...Sample	..	..2024/08/30	10:25	..
Boat Sampler	Sample		2024/08/30	10:31	
Boat Sampler	Sample		2024/08/30	10:38	
Boat Sampler	...Sample	..	..2024/08/30	10:44	..
Boat Sampler	Sample		2024/08/30	10:50	
Boat Sampler	Sample		2024/08/30	10:56	
Boat Sampler	...Sample	..	..2024/08/30	11:07	..
Boat Sampler	Sample		2024/08/30	11:13	
Boat Sampler	Sample		2024/08/30	11:20	
Boat Sampler	...Sample	..	..2024/08/30	11:32	..
Boat Sampler	Sample		2024/08/30	11:45	
Boat Sampler	Sample		2024/08/30	11:50	
Boat Sampler	...Sample	..	..2024/08/30	11:57	..
Boat Sampler	Sample		2024/08/30	12:03	
Boat Sampler	Sample		2024/08/30	12:09	
Boat Sampler	...Sample	..	..2024/08/30	12:13	..
Boat Sampler	Sample		2024/08/30	12:16	
Boat Sampler	Sample		2024/08/30	12:21	
Boat Sampler	...Sample	..	..2024/08/30	12:24	..
Boat Sampler	Sample		2024/08/30	12:26	
Boat Sampler	Sample		2024/08/30	12:30	
Boat Sampler	...Sample	..	..2024/08/30	12:32	..
Boat Sampler	Sample		2024/08/30	12:34	
Boat Sampler	Sample		2024/08/30	12:38	
Boat Sampler	...Sample	..	..2024/08/30	12:42	..
Boat Sampler	Sample		2024/08/30	12:48	

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Boat Sampler	Sample		2024/08/30 12:52			Reviewed By:Iwona
Boat Sampler	...	Sample	..	..2024/08/30 12:56	..	On:8/30/2024 3:59:36 PM
Boat Sampler	Sample		2024/08/30 13:01			Inst Id :Appolo-9000
Boat Sampler	Sample		2024/08/30 13:04			LB :LB132204
Boat Sampler	...	Sample	..	..2024/08/30 13:09	..	
Boat Sampler	Sample		2024/08/30 13:41			
Boat Sampler	Sample		2024/08/30 13:45			
Boat Sampler	...	Sample	..	..2024/08/30 13:48	..	
Boat Sampler	Sample		2024/08/30 13:50			
Boat Sampler	Sample		2024/08/30 13:53			
Boat Sampler	...	Sample	..	..2024/08/30 13:58	..Low Sample Detected	
Boat Sampler	Sample		2024/08/30 14:05		Low Sample Detected	
Boat Sampler	Sample		2024/08/30 14:09		Low Sample Detected	
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Last Message: Low Sample Detected
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Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 08290941
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 09:44
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.0099	0.3604	28199	-1.751	-1.801	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 08290945
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 09:46
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11.8257	0.4730	37012	-1.798	-0.803	36

Sample ID: LB132204BLS Mode: TOC
Method: Boat Sampler Filename: 08290947
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 09:49
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.7822	0.2713	21227	-1.835	-1.845	120

Last Message: Low Sample Detected
=====

Sample ID: LB132204BLS Mode: TOC
Method: Boat Sampler Filename: 08290955
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 09:58
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.7324	0.2693	21071	-1.974	-2.016	120

Last Message: Low Sample Detected
=====

Sample ID: LB132204BLS Mode: TOC
Method: Boat Sampler Filename: 08290959
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 10:02
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.8383	0.1935	15143	-2.023	-2.026	120

Last Message: Low Sample Detected
=====

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.8055	0.2722	21300	-2.130	-2.148	120

Last Message: Low Sample Detected

Sample ID: LB132204BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291009
Timestamp: 2024/08/29 10:11
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	945.0191	37.8008	2957708	-2.194	-1.194	75

Sample ID: LB132204BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291014
Timestamp: 2024/08/29 10:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	983.6499	39.3460	3078613	-2.180	-1.185	76

Sample ID: LB132204BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291018
Timestamp: 2024/08/29 10:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	987.0279	39.4811	3089186	-2.200	-1.202	74

Sample ID: LB132204BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291021
Timestamp: 2024/08/29 10:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	988.2843	39.5314	3093118	-2.110	-1.113	72

Sample ID: P3671-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291031
Timestamp: 2024/08/29 10:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	25805.9355	147.0938	11509305	2.575	3.573	130

Sample ID: P3671-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291037
Timestamp: 2024/08/29 10:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19108.8750	99.3662	7774870	1.918	2.914	138

Sample ID: P3671-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291042
Timestamp: 2024/08/29 10:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	22220.3926	133.3224	10431761	-1.953	-0.955	201

Sample ID: P3671-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291047
Timestamp: 2024/08/29 10:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	25841.6543	157.6341	12334024	-1.548	-0.140	240

Sample ID: P3671-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291053
Timestamp: 2024/08/29 10:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16789.4434	90.6630	7093894	-0.529	0.462	145

Sample ID: P3671-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291058
Timestamp: 2024/08/29 11:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19187.2051	115.1232	9007776	-2.337	-1.338	239

Sample ID: P3671-02
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291104
Timestamp: 2024/08/29 11:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20088.4297	114.5040	8959329	-2.351	1.603	240

Sample ID: P3671-02 Mode: TOC
Method: Boat Sampler Filename: 08291110
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 11:14
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17449.1523	106.4398	8328347	-2.300	-0.556	240

Sample ID: P3671-03 Mode: TOC
Method: Boat Sampler Filename: 08291116
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 11:21
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	46373.7148	273.6049	21408120	-2.379	0.582	240

Sample ID: P3671-03 Mode: TOC
Method: Boat Sampler Filename: 08291124
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 11:28
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	45400.0859	249.7005	19537726	-2.342	0.215	240

Sample ID: P3671-03 Mode: TOC
Method: Boat Sampler Filename: 08291130
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 11:34
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	45146.1523	234.7600	18368712	-2.228	-0.519	240

Sample ID: P3671-03 Mode: TOC
Method: Boat Sampler Filename: 08291136
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 11:40
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	37928.6914	212.4007	16619216	-2.007	-1.009	232

Sample ID: P3671-04 Mode: TOC
Method: Boat Sampler Filename: 08291145

Cal. Curve: TOC SOIL
Operator ID: NF IZ

Timestamp: 2024/08/29 11:51
Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36
PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	59708.5664	322.4263	25228130	0.607	1.600	231

Sample ID: P3671-04
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 08291152
Timestamp: 2024/08/29 11:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	57201.8828	297.4498	23273854	0.132	1.956	240

Sample ID: P3671-04
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 08291158
Timestamp: 2024/08/29 12:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Int Time
1	55415.7539	293.7035	22980728	0.931	1.927	210

Sample ID: P3671-04
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 08291203
Timestamp: 2024/08/29 12:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	51265.5156	287.0869	22463012	0.870	1.863	239

Sample ID: P3671-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 08291210
Timestamp: 2024/08/29 12:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	64947.5664	350.7169	27441716	0.069	8.597	240

Sample ID: P3671-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 08291216
Timestamp: 2024/08/29 12:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	75335.7031	391.7456	30652000	-1.706	10.459	240

Sample ID: P3671-05 Mode: TOC
Method: Boat Sampler Filename: 08291222
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 12:27
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	72281.1719	412.0027	32237004	-1.738	9.293	240

Sample ID: P3671-05 Mode: TOC
Method: Boat Sampler Filename: 08291228
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 12:32
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	62538.6523	362.7242	28381228	0.069	9.169	240

Sample ID: P3671-06 Mode: TOC
Method: Boat Sampler Filename: 08291236
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 12:41
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18602.2246	106.0327	8296489	-2.306	-1.158	240

Sample ID: P3671-06 Mode: TOC
Method: Boat Sampler Filename: 08291245
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 12:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16603.3145	107.9215	8444283	5.305	6.288	79

Sample ID: P3671-06 Mode: TOC
Method: Boat Sampler Filename: 08291249
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 12:53
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	22605.5156	131.1120	10258812	-2.271	-1.273	227

Sample ID: P3671-06 Mode: TOC
Method: Boat Sampler Filename: 08291254
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 12:57
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18586.8984	105.9453	8289654	-2.185	-1.190	172

Sample ID: P3671-07
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291259
Timestamp: 2024/08/29 13:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	22692.3828	145.2312	11363568	-2.630	-1.348	239

Sample ID: P3671-07
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291323
Timestamp: 2024/08/29 13:27
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23262.3789	125.6168	9828846	-2.781	-1.782	230

Sample ID: P3671-07
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291328
Timestamp: 2024/08/29 13:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19157.1836	118.7745	9293472	0.554	1.553	147

Sample ID: P3671-07
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291332
Timestamp: 2024/08/29 13:36
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19769.6855	124.5490	9745294	-2.498	-1.369	240

Sample ID: P3671-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291339
Timestamp: 2024/08/29 13:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11817.7979	77.9975	6102884	-2.824	-1.827	189

Sample ID: P3671-08
Method: Boat Sampler

Mode: TOC
Filename: 08291346

Cal. Curve: TOC SOIL
Operator ID: NF IZ

Timestamp: 2024/08/29 13:50
Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36
PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13338.1807	85.3644	6679304	-2.812	-1.814	211

Sample ID: P3671-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291351
Timestamp: 2024/08/29 13:55
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15598.3145	104.5087	8177247	-2.637	-1.638	238

Sample ID: P3671-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291356
Timestamp: 2024/08/29 14:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13512.4922	90.5337	7083777	-2.744	-1.746	202

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

Mode: TOC
Filename: 08291402
Timestamp: 2024/08/29 14:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	960.6243	38.4250	3006549	0.229	1.204	58

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

Mode: TOC
Filename: 08291404
Timestamp: 2024/08/29 14:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	996.8337	39.8733	3119876	-2.495	-1.498	72

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

Mode: TOC
Filename: 08291407
Timestamp: 2024/08/29 14:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1001.1315	40.0453	3133327	-2.659	-1.661	74

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

Mode: TOC
Filename: 08291410
Timestamp: 2024/08/29 14:12

Operator ID: NF IZ

Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36
PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	998.5804	39.9432	3125343	-2.624	-1.625	73

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

Mode: TOC
Filename: 08291413
Timestamp: 2024/08/29 14:14
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.9366	0.5975	46748	-2.634	-1.643	25

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

Mode: TOC
Filename: 08291419
Timestamp: 2024/08/29 14:22
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.5217	0.3009	23541	-2.865	-2.867	120

Last Message: Low Sample Detected

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

Mode: TOC
Filename: 08291422
Timestamp: 2024/08/29 14:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.7232	0.3089	24172	-2.857	-2.864	120

Last Message: Low Sample Detected

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

Mode: TOC
Filename: 08291425
Timestamp: 2024/08/29 14:28
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.3133	0.1725	13500	-2.703	-2.840	120

Last Message: Low Sample Detected

Sample ID: P3671-09
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291430
Timestamp: 2024/08/29 14:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	38407.7227	215.0832	16829112	-2.775	-0.513	240

Sample ID: P3671-09 Mode: TOC
Method: Boat Sampler Filename: 08291436
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 14:40
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32813.4766	210.0063	16431866	-2.501	-0.765	240

Sample ID: P3671-09 Mode: TOC
Method: Boat Sampler Filename: 08291442
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 14:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	35418.9727	201.8882	15796668	-1.327	0.048	240

Sample ID: P3671-09 Mode: TOC
Method: Boat Sampler Filename: 08291448
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 14:53
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	33187.2188	202.4420	15840005	-2.525	-0.018	240

Sample ID: P3671-10 Mode: TOC
Method: Boat Sampler Filename: 08291457
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 15:02
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34859.3555	209.1561	16365349	-1.446	-0.448	234

Sample ID: P3671-10 Mode: TOC
Method: Boat Sampler Filename: 08291503
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 15:07
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	31580.3125	180.0078	14084646	-1.141	-0.142	202

Sample ID: P3671-10 Mode: TOC
Method: Boat Sampler Filename: 08291522
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 15:27

Operator ID: NF IZ

Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36
PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32572.1504	201.9473	15801298	-1.810	-0.811	231

Sample ID: P3671-10
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291528
Timestamp: 2024/08/29 15:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24210.1035	142.8396	11176436	14.754	15.753	73

Sample ID: P3671-11
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291531
Timestamp: 2024/08/29 15:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19179.1992	111.2394	8703885	-1.213	-0.215	156

Sample ID: P3671-11
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291537
Timestamp: 2024/08/29 15:40
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16253.0449	99.1436	7757454	-2.628	-1.630	189

Sample ID: P3671-11
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291541
Timestamp: 2024/08/29 15:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23170.7285	136.7073	10696614	-0.879	0.119	220

Sample ID: P3671-11
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291547
Timestamp: 2024/08/29 15:51
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19465.9043	107.0625	8377066	-2.535	-1.537	204

Sample ID: P3671-12
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291556
Timestamp: 2024/08/29 15:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13626.0547	77.6685	6077145	-2.512	-1.514	147

Sample ID: P3671-12
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291600
Timestamp: 2024/08/29 16:03
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13490.2080	78.2432	6122112	-2.550	-1.552	163

Sample ID: P3671-12
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291605
Timestamp: 2024/08/29 16:08
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15651.3945	93.9084	7347827	-2.672	-1.675	181

Sample ID: P3671-12
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291609
Timestamp: 2024/08/29 16:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11484.3691	70.0547	5481402	-0.844	0.150	98

Sample ID: P3671-13
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291614
Timestamp: 2024/08/29 16:19
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	75080.5391	435.4671	34072972	-2.612	12.122	240

Sample ID: P3671-13
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291621
Timestamp: 2024/08/29 16:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	87289.6172	488.8219	38247696	-2.127	11.498	240

Sample ID: P3671-13
Method: Boat Sampler
Cal. Curve: TOC SOIL

Mode: TOC
Filename: 08291627
Timestamp: 2024/08/29 16:32

Operator ID: NF IZ

Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36
PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	88814.6641	488.4807	38220996	-1.891	15.065	240

Sample ID: P3671-13
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291634
Timestamp: 2024/08/29 16:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	81948.3359	458.9107	35907304	-1.838	12.053	240

Sample ID: P3671-14
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291640
Timestamp: 2024/08/29 16:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26748.9023	157.8185	12348455	-1.815	-0.817	182

Sample ID: P3671-14
Method: Boat Sampler
Cal. Curve: TOC SOIL
:50
Operator ID: NF IZ

Mode: TOC
Filename: 08291646
Timestamp: 2024/08/29 16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26354.0938	152.8537	11959988	-2.405	-1.406	211

Sample ID: P3671-14
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291652
Timestamp: 2024/08/29 16:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24964.6543	149.7879	11720104	-2.480	-1.481	222

Sample ID: P3671-14
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08291658
Timestamp: 2024/08/29 17:02
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	26500.2188	153.7013	12026302	-2.491	-1.491	205

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 08291706
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 17:08
Operator ID: NF IZ Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36 PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1019.8112	40.7924	3191791	-2.707	-1.707	77

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 08291710
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 17:12
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1002.9208	40.1168	3138927	-2.636	-1.641	76

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 08291714
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 17:16
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	998.7060	39.9482	3125736	-2.749	-1.753	75

Sample ID: CCV3 Mode: TOC
Method: Boat Sampler Filename: 08291717
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 17:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1010.0606	40.4024	3161273	-2.629	-1.633	76

Sample ID: CCB3 Mode: TOC
Method: Boat Sampler Filename: 08291723
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 17:26
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.1999	0.2880	22534	-2.808	-2.848	120

Last Message: Low Sample Detected

Sample ID: CCB3 Mode: TOC
Method: Boat Sampler Filename: 08291727
Cal. Curve: TOC SOIL Timestamp: 2024/08/29 17:30
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.3120	0.4125	32274	-2.871	-2.875	120

Last Message: Low Sample Detected

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

Mode: TOC
Filename: 08291730
Timestamp: 2024/08/29 17:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24.9916	0.9997	78218	-2.898	-1.904	38

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

Mode: TOC
Filename: 08291733
Timestamp: 2024/08/29 17:35
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.7443	0.2298	17978	-2.879	-2.894	120

Last Message: Low Sample Detected

Sample ID: CCV4
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300907
Timestamp: 2024/08/30 09:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	976.4825	39.0593	3056181	-2.826	-1.827	77

Sample ID: CCV4
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300910
Timestamp: 2024/08/30 09:12
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1003.9074	40.1563	3142015	-2.709	-1.710	73

Sample ID: CCV4
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300913
Timestamp: 2024/08/30 09:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	958.1808	38.3272	2998901	-2.795	-1.797	74

Sample ID: CCV4
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300917
Timestamp: 2024/08/30 09:19
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1004.7424	40.1897	3144629	-2.855	-1.859	78

Sample ID: CCB4
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300920
Timestamp: 2024/08/30 09:23
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.9519	0.1981	15498	-2.812	-2.948	120

Last Message: Low Sample Detected

Sample ID: CCB4
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300924
Timestamp: 2024/08/30 09:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.3709	0.1748	13680	-2.953	-2.949	120

Last Message: Low Sample Detected

Sample ID: CCB4
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300927
Timestamp: 2024/08/30 09:30
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.0239	0.5610	43892	-3.006	-2.994	120

Last Message: Low Sample Detected

Sample ID: CCB4
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300930
Timestamp: 2024/08/30 09:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8199	0.2328	18215	-3.038	-3.046	120

Last Message: Low Sample Detected

Sample ID: LB132204BLS2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300935
Timestamp: 2024/08/30 09:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.4597	0.2584	20218	-3.099	-3.103	120

Last Message: Low Sample Detected

Sample ID: LB132204BLS2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300939
Timestamp: 2024/08/30 09:42
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.6366	0.2655	20771	-3.051	-3.100	120

Last Message: Low Sample Detected

Sample ID: LB132204BLS2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300942
Timestamp: 2024/08/30 09:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.4330	0.1773	13874	-3.103	-3.110	120

Last Message: Low Sample Detected

Sample ID: LB132204BLS2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300946
Timestamp: 2024/08/30 09:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.3323	0.3733	29208	-3.116	-3.121	120

Last Message: Low Sample Detected

Sample ID: LB132204BSS2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300951
Timestamp: 2024/08/30 09:53
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	934.6795	37.3872	2925347	-2.271	-1.283	64

Sample ID: LB132204BSS2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300955
Timestamp: 2024/08/30 09:57
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	990.1985	39.6079	3099109	-3.118	-2.122	77

Sample ID: LB132204BSS2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08300959
Timestamp: 2024/08/30 10:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
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Mode: TOC
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Filename: 08301039
Timestamp: 2024/08/30 10:44
Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36
PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	75736.1953	416.5491	32592738	-2.378	8.663	240

Sample ID: P3707-02MS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301045
Timestamp: 2024/08/30 10:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	61335.8047	374.1484	29275112	-2.330	5.736	240

Sample ID: P3707-02MS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301051
Timestamp: 2024/08/30 10:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	65519.2266	438.9788	34347744	-2.366	11.532	240

Sample ID: P3707-02MS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301103
Timestamp: 2024/08/30 11:07
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	67182.4844	389.6584	30488686	8.379	9.371	237

Sample ID: P3707-03MSD
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301109
Timestamp: 2024/08/30 11:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	50492.8789	292.8587	22914626	28.013	28.991	154

Sample ID: P3707-03MSD
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301115
Timestamp: 2024/08/30 11:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
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Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	76673.8906	414.0390	32396338	-0.585	7.356	240

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	75115.2734	420.6455	32913262	-0.173	8.890	240

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29902.5625	176.4251	13804321	0.221	1.220	181

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	39214.2305	227.4425	17796160	-2.840	0.234	240

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	35399.9805	205.3199	16065183	-3.075	-0.489	240

Sample ID: P3707-04
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301204
Timestamp: 2024/08/30 12:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	35880.4922	204.5188	16002502	-1.440	-0.442	232

Sample ID: P3707-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301211
Timestamp: 2024/08/30 12:13
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6776.8486	39.3057	3075462	-3.212	-2.216	94

Sample ID: P3707-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301214
Timestamp: 2024/08/30 12:16
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6687.7441	40.1265	3139681	-1.458	-0.458	69

Sample ID: P3707-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301219
Timestamp: 2024/08/30 12:21
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5875.9185	35.2555	2758555	-2.360	-1.367	74

Sample ID: P3707-05
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301222
Timestamp: 2024/08/30 12:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6098.8618	37.2031	2910940	2.108	3.052	53

Sample ID: P3707-06
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301225
Timestamp: 2024/08/30 12:26
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2429.6548	14.0920	1102623	-2.892	-1.893	59

Sample ID: P3707-06

Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Filename: 08301228
Timestamp: 2024/08/30 12:30
Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36
PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2030.4044	12.1824	953210	-3.387	-2.396	57

Sample ID: P3707-06
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 08301231
Timestamp: 2024/08/30 12:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2029.9707	11.9768	937123	-1.482	-0.486	48

Sample ID: P3707-06
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 08301233
Timestamp: 2024/08/30 12:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2194.9785	12.7309	996123	-1.738	-0.754	50

Sample ID: P3707-07
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 08301235
Timestamp: 2024/08/30 12:38
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17771.2812	97.7420	7647792	4.230	5.214	81

Sample ID: P3707-07
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 08301239
Timestamp: 2024/08/30 12:42
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20230.2227	111.2662	8705986	-2.787	-1.790	159

Sample ID: P3707-07
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 08301244
Timestamp: 2024/08/30 12:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20064.5977	110.3553	8634710	-3.209	-2.209	193

Sample ID: P3707-07
Method: Boat Sampler
Cal. Curve: TOC S0IL

Mode: TOC
Filename: 08301249
Timestamp: 2024/08/30 12:52

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18167.6172	109.0057	8529113	-0.725	0.275	133

Sample ID: P3707-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301253
Timestamp: 2024/08/30 12:56
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18080.3652	108.4822	8488151	-2.109	-1.110	163

Sample ID: P3707-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301258
Timestamp: 2024/08/30 13:01
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17656.9531	107.7074	8427529	-2.931	-1.934	173

Sample ID: P3707-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301302
Timestamp: 2024/08/30 13:04
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	15882.5000	93.7068	7332052	1.819	2.818	85

Sample ID: P3707-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301306
Timestamp: 2024/08/30 13:09
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	17919.2109	107.5153	8412494	-0.663	0.334	169

Sample ID: CCV5
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301339
Timestamp: 2024/08/30 13:41
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1028.0909	41.1236	3217705	-3.523	-2.527	79

Sample ID: CCV5
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301343
Timestamp: 2024/08/30 13:45
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1037.2393	41.4896	3246337	-3.447	-2.448	80

Sample ID: CCV5
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301346
Timestamp: 2024/08/30 13:48
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1025.5879	41.0235	3209871	-3.277	-2.278	75

Sample ID: CCV5
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301349
Timestamp: 2024/08/30 13:50
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	993.2689	39.7308	3108719	-3.213	-2.217	73

Sample ID: CCB5
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301352
Timestamp: 2024/08/30 13:53
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	19.3038	0.7722	60417	-3.316	-2.320	40

Sample ID: CCB5
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301355
Timestamp: 2024/08/30 13:58
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.1133	0.2845	22263	-3.417	-3.421	120

Last Message: Low Sample Detected

Sample ID: CCB5
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 08301402
Timestamp: 2024/08/30 14:05
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.5886	0.2635	20621	-3.438	-3.457	120

Last Message: Low Sample Detected

Sample ID: CCB5
Method: Boat Sampler

Mode: TOC
Filename: 08301406

Cal. Curve: TOC SOIL
Operator ID: NF IZ

Timestamp: 2024/08/30 14:09
Sample Type: Sample

Reviewed By:Iwona
On:8/30/2024 3:59:36 PM
Inst Id :Appolo-9000
LB :LB132204

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8789	0.2352	18400	-3.458	-3.459	120

Last Message: Low Sample Detected
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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

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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	Message	Date &
	Raw Data	ug C	ug C		Time
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

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08/07/24

WORKLIST(Hardcopy Internal Chain)

LB132204

WorkList Name : TOC SOIL-08282024 WorkList ID : 183042 Department : Wet-Chemistry Date : 08-28-2024 16:09:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3671-01	S-904-J-SO-0.5-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-02	S-904-J-SO-0.5-1.0-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-03	S-911-KI-SO-0.0.5-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-04	S-911-KI-SO-0.5-1-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-05	S-911-KI-SO-0.0.5-081924-FD	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-06	S-905-KJ-SO-0.0.5-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3707-05	S-913-K1-SO-0.0.5-082024	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3707-06	S-913-K1-SO-0.5-1-082024	Solid	TOC	Cool 4 deg C	JACO05	G11	08/20/2024	Lloyd Kahn
P3707-07	S-930-K1-SO-0.0.5-082024	Solid	TOC	Cool 4 deg C	JACO05	G11	08/20/2024	Lloyd Kahn
P3707-08	S-930-K1-SO-0.5-1-082024	Solid	TOC	Cool 4 deg C	JACO05	G11	08/20/2024	Lloyd Kahn
P3671-13	S-912-J-SO-0.0.5-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-14	S-912-J-SO-0.5-1-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3707-01	S-929-K1-SO-0.0.5-082024	Solid	TOC	Cool 4 deg C	JACO05	G11	08/20/2024	Lloyd Kahn
P3707-02	P3707-01MS	Solid	TOC	Cool 4 deg C	JACO05	G11	08/20/2024	Lloyd Kahn
P3707-03	P3707-01MSD	Solid	TOC	Cool 4 deg C	JACO05	G11	08/20/2024	Lloyd Kahn
P3707-04	S-929-K1-SO-0.5-1-082024	Solid	TOC	Cool 4 deg C	JACO05	G11	08/20/2024	Lloyd Kahn
P3671-07	S-905-KJ-SO-0.0.5-081924-FD	Solid	TOC	Cool 4 deg C	JACO05	G11	08/20/2024	Lloyd Kahn
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-09	S-928-KI-SO-0.0.5-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-10	S-928-KI-SO-0.5-1-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn
P3671-11	S-903-J-SO-0.0.5-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn

Date/Time 08.29.2024, 08:00

Raw Sample Received by: NF(wc)

Raw Sample Relinquished by: M(wc)

Date/Time 08.29.2024, 12:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: NF(wc)

WORKLIST(Hardcopy Internal Chain)

LB132204

WorkList Name : TOC SOIL-08282024

WorkList ID : 183042

Department : Wet-Chemistry

Date : 08-28-2024 16:09:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3671-12	S-903-J-SO-0.5-1.0-081924	Solid	TOC	Cool 4 deg C	JACO05	G11	08/19/2024	Lloyd Kahn

Date/Time08.29.2024, 08:00

Raw Sample Received by:NF(wc)

Raw Sample Relinquished by:MGWC1

Date/Time08.29.2024, 12:00

Raw Sample Received by:MGWC1

Raw Sample Relinquished by:NF(wc)

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 08/22/2024 **Time :** 14:00 **Temp :** 90 °C

End Digest Date: 08/22/2024 **Time :** 15:00 **Temp :** 95 °C

11 batch 08/22/2024 15:20 16:20 902 JAY 952 JAY

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Filter paper ID : 400213

Prep Technician Signature: RM

pH Meter ID : WC pH meter-1

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP108658
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP108658
LCSS	1.0ML	WP108659
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3001
PHOSPHATE BUFFER	0.5ML	WP108008
HEX. DIGESTION SOLN.	50ML	WP109013
5M HNO3	5-7ML	WP107796
5N H2SO4	1-3ML	WP107791
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP109361
CAL3	CAL3	0.5ML	WP109361
CAL4	CAL4	1ML	WP109361
CAL5	CAL5	0.2ML	WP108658
CAL6	CAL6	1ML	WP108658
CAL7	CAL7	2.0ML	WP108658
ICV	ICV	1ML	WP108659
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP108658
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

08/22/2024 RM

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
P3671-01	S-904-J-SO-0-0.5-081924	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-02	S-904-J-SO-0.5-1-081924	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-03	S-911-K1-SO-0-0.5-081924	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-04	S-911-K1-SO-0.5-1-081924	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-05	S-911-K1-SO-0-0.5-081924-FD	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-06	S-905-KJ-SO-0-0.5-081924	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-08	S-905-J-SO-0.5-1.0-081924	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-09	S-928-K1-SO-0-0.5-081924	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-10	S-928-K1-SO-0.5-1-081924	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-11	S-903-J-SO-0-0.5-081924	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-12	S-903-J-SO-0.5-1.0-081924	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-13	S-912-J-SO-0-0.5-081924	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
P3671-14	S-912-J-SO-0.5-1-081924	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P3704-01	LNG-SOIL PILE	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P3704-01DUP	LNG-SOIL PILEDUP	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P3704-01MSPre	LNG-SOIL PILEMSPRE	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P3704-01MS2Ins	LNG-SOIL PILEMS2INS	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P3704-01MS3Post	LNG-SOIL PILEMS3POST	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
PB162926BL	PBS926	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB162926BS	LCS926	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : HEX-8-22

WorkList ID : 182884

Department : Distillation

Date : 08-22-2024 11:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3671-01	S-904-J-SO-0-0.5-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-02	S-904-J-SO-0-1-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-04	S-911-K1-SO-0-0.5-1-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-08	S-905-J-SO-0-0.5-1-0-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-10	S-928-K1-SO-0-0.5-1-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-11	S-903-J-SO-0-0.5-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-12	S-903-J-SO-0-1-0-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-13	S-912-J-SO-0-0.5-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3671-14	S-912-J-SO-0-0.5-1-081924	Solid	Hexavalent Chromium	Cool 4 deg C	JACO05	G11	08/19/2024	7196A
P3704-01	LNG-Soil Pile	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	G11	08/21/2024	7196A

Date/Time 08/22/2024 13:10
 Raw Sample Received by: RM CWC
 Raw Sample Relinquished by: SA CWC

Date/Time 08/22/2024 15:35
 Raw Sample Received by: JACO05
 Raw Sample Relinquished by: RM CWC

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB132146

Review By	rubina	Review On	8/23/2024 3:21:11 PM
Supervise By	Iwona	Supervise On	8/23/2024 3:22:46 PM
SubDirectory	LB132146	Test	Hexavalent Chromium
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	WP109373,WP107791,WP107796,WP108645		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	08/23/24 12:00		rubina	OK
2	CAL2	CAL2	CAL	08/23/24 12:01		rubina	OK
3	CAL3	CAL3	CAL	08/23/24 12:02		rubina	OK
4	CAL4	CAL4	CAL	08/23/24 12:03		rubina	OK
5	CAL5	CAL5	CAL	08/23/24 12:04		rubina	OK
6	CAL6	CAL6	CAL	08/23/24 12:05		rubina	OK
7	CAL7	CAL7	CAL	08/23/24 12:06		rubina	OK
8	ICV	ICV	ICV	08/23/24 12:07		rubina	OK
9	ICB	ICB	ICB	08/23/24 12:08		rubina	OK
10	CCV1	CCV1	CCV	08/23/24 12:09		rubina	OK
11	CCB1	CCB1	CCB	08/23/24 12:10		rubina	OK
12	RL Check	RL Check	SAM	08/23/24 12:11		rubina	OK
13	PB162926BL	PB162926BL	MB	08/23/24 12:12		rubina	OK
14	PB162926BS	PB162926BS	LCS	08/23/24 12:13		rubina	OK
15	P3671-01	S-904-J-SO-0-0.5-081	SAM	08/23/24 12:14		rubina	OK
16	P3671-02	S-904-J-SO-0.5-1.0-0	SAM	08/23/24 12:15		rubina	OK
17	P3671-03	S-911-K1-SO-0-0.5-0	SAM	08/23/24 12:16		rubina	OK
18	P3671-04	S-911-K1-SO-0.5-1-0	SAM	08/23/24 12:17		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB132146

Review By	rubina	Review On	8/23/2024 3:21:11 PM
Supervise By	Iwona	Supervise On	8/23/2024 3:22:46 PM
SubDirectory	LB132146	Test	Hexavalent Chromium
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	WP109373,WP107791,WP107796,WP108645		

19	P3671-05	S-911-K1-SO-0-0.5-0	SAM	08/23/24 12:18		rubina	OK
20	P3671-06	S-905-KJ-SO-0-0.5-0	SAM	08/23/24 12:19		rubina	OK
21	P3671-07	S-905-KJ-SO-0-0.5-0	SAM	08/23/24 12:20		rubina	OK
22	P3671-08	S-905-J-SO-0.5-1.0-0	SAM	08/23/24 12:21		rubina	OK
23	CCV2	CCV2	CCV	08/23/24 12:22		rubina	OK
24	CCB2	CCB2	CCB	08/23/24 12:23		rubina	OK
25	P3671-09	S-928-K1-SO-0-0.5-0	SAM	08/23/24 12:24		rubina	OK
26	P3671-10	S-928-K1-SO-0.5-1-0	SAM	08/23/24 12:25		rubina	OK
27	P3671-11	S-903-J-SO-0-0.5-0	SAM	08/23/24 12:26		rubina	OK
28	P3671-12	S-903-J-SO-0.5-1.0-0	SAM	08/23/24 12:27		rubina	OK
29	P3671-13	S-912-J-SO-0-0.5-0	SAM	08/23/24 12:28		rubina	OK
30	P3671-14	S-912-J-SO-0.5-1-0	SAM	08/23/24 12:29		rubina	OK
31	P3704-01	LNG-Soil Pile	SAM	08/23/24 12:30		rubina	OK
32	P3704-01DUP	LNG-Soil PileDUP	DUP	08/23/24 12:31		rubina	OK
33	P3704-01MSPre	LNG-Soil PileMS	MS	08/23/24 12:32		rubina	OK
34	P3704-01MS2Ins	LNG-Soil PileMS	MS	08/23/24 12:33		rubina	OK
35	CCV3	CCV3	CCV	08/23/24 12:34		rubina	OK
36	CCB3	CCB3	CCB	08/23/24 12:35		rubina	OK
37	P3704-01MS3Post	LNG-Soil PileMS	MS	08/23/24 12:36		rubina	OK
38	CCV4	CCV4	CCV	08/23/24 12:37		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB132146

Review By	rubina	Review On	8/23/2024 3:21:11 PM
Supervise By	Iwona	Supervise On	8/23/2024 3:22:46 PM
SubDirectory	LB132146	Test	Hexavalent Chromium
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	WP109373,WP107791,WP107796,WP108645		

39	CCB4	CCB4	CCB	08/23/24 12:38		rubina	OK
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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB132204

Review By	Niha	Review On	8/30/2024 3:59:20 PM
Supervise By	Iwona	Supervise On	8/30/2024 3:59:36 PM
SubDirectory	LB132204	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP109219,WP109220,WP109221,WP109222,WP109223		
ICV Standard	WP109224		
CCV Standard	WP109452		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP109453		
Chk Standard	WP109225		

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	08/29/24 09:33		NF IZ	OK
9	CCB1	CCB1	CCB	08/29/24 09:46		NF IZ	OK
10	LB132204BLS	LB132204BLS	MB	08/29/24 10:08		NF IZ	OK
11	LB132204BSS	LB132204BSS	LCS	08/29/24 10:23		NF IZ	OK
12	P3671-01	S-904-J-SO-0-0.5-081	SAM	08/29/24 10:51		NF IZ	OK
13	P3671-02	S-904-J-SO-0.5-1.0-0	SAM	08/29/24 11:14		NF IZ	OK
14	P3671-03	S-911-K1-SO-0-0.5-0	SAM	08/29/24 11:40		NF IZ	OK
15	P3671-04	S-911-K1-SO-0.5-1-0	SAM	08/29/24 12:08		NF IZ	OK
16	P3671-05	S-911-K1-SO-0-0.5-0	SAM	08/29/24 12:32		NF IZ	OK
17	P3671-06	S-905-KJ-SO-0-0.5-08	SAM	08/29/24 12:57		NF IZ	OK
18	P3671-07	S-905-KJ-SO-0-0.5-08	SAM	08/29/24 13:36		NF IZ	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB132204

Review By	Niha	Review On	8/30/2024 3:59:20 PM
Supervise By	Iwona	Supervise On	8/30/2024 3:59:36 PM
SubDirectory	LB132204	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP109219,WP109220,WP109221,WP109222,WP109223		
ICV Standard	WP109224		
CCV Standard	WP109452		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP109453		
Chk Standard	WP109225		

19	P3671-08	S-905-J-SO-0.5-1.0-0	SAM	08/29/24 14:01		NF IZ	OK
20	CCV2	CCV2	CCV	08/29/24 14:12		NF IZ	OK
21	CCB2	CCB2	CCB	08/29/24 14:28		NF IZ	OK
22	P3671-09	S-928-K1-SO-0-0.5-0	SAM	08/29/24 14:53		NF IZ	OK
23	P3671-10	S-928-K1-SO-0.5-1-0	SAM	08/29/24 15:30		NF IZ	OK
24	P3671-11	S-903-J-SO-0-0.5-081	SAM	08/29/24 15:51		NF IZ	OK
25	P3671-12	S-903-J-SO-0.5-1.0-0	SAM	08/29/24 16:12		NF IZ	OK
26	P3671-13	S-912-J-SO-0-0.5-081	SAM	08/29/24 16:39		NF IZ	OK
27	P3671-14	S-912-J-SO-0.5-1-081	SAM	08/29/24 17:02		NF IZ	OK
28	CCV3	CCV3	CCV	08/29/24 17:19		NF IZ	OK
29	CCB3	CCB3	CCB	08/29/24 17:35		NF IZ	OK
30	CCV4	CCV4	CCV	08/30/24 09:19		NF IZ	OK
31	CCB4	CCB4	CCB	08/30/24 09:33		NF IZ	OK
32	LB132204BLS2	LB132204BLS2	MB	08/30/24 09:49		NF IZ	OK
33	LB132204BSS2	LB132204BSS2	LCS	08/30/24 10:05		NF IZ	OK
34	P3707-01	S-929-K1-SO-0-0.5-08	SAM	08/30/24 10:38		NF IZ	OK
35	P3707-02	S-929-K1-SO-0-0.5-08	MS	08/30/24 11:07	sample + 40ul of WP109452	NF IZ	OK
36	P3707-03	S-929-K1-SO-0-0.5-08	MSD	08/30/24 11:45	sample + 40ul of WP109452	NF IZ	OK
37	P3707-04	S-929-K1-SO-0.5-1-08	SAM	08/30/24 12:09		NF IZ	OK
38	P3707-05	S-913-K1-SO-0-0.5-08	SAM	08/30/24 12:24		NF IZ	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB132204

Review By	Niha	Review On	8/30/2024 3:59:20 PM
Supervise By	Iwona	Supervise On	8/30/2024 3:59:36 PM
SubDirectory	LB132204	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP109219,WP109220,WP109221,WP109222,WP109223		
ICV Standard	WP109224		
CCV Standard	WP109452		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP109453		
Chk Standard	WP109225		

39	P3707-06	S-913-K1-SO-0.5-1-08	SAM	08/30/24 12:34		NF IZ	OK
40	P3707-07	S-930-K1-SO-0-0.5-08	SAM	08/30/24 12:52		NF IZ	OK
41	P3707-08	S-930-K1-SO-0.5-1-08	SAM	08/30/24 13:09		NF IZ	OK
42	CCV5	CCV5	CCV	08/30/24 13:50		NF IZ	OK
43	CCB5	CCB5	CCB	08/30/24 14:09		NF IZ	OK

Prep Standard - Chemical Standard Summary

Order ID : P3671
Test : Hexavalent Chromium, Percent Solids, TOC

Prepbatch ID : PB162926,
Sequence ID/Qc Batch ID: LB132146, LB132204,

Standard ID :
WP107791, WP107796, WP108008, WP108645, WP108658, WP108659, WP109013, WP109217, WP109218, WP109219, WP109220, WP109221, WP109222, WP109223, WP109224, WP109225, WP109373, WP109452, WP109453,

Chemical ID :
E3788, M5211, M5878, M5947, M5954, W2202, W2511, W2606, W2651, W2652, W2699, W2784, W2860, W2862, W2979, W3001, W3111, W3112, W3113,

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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>
126	5N sulfuric acid	WP107791	05/07/2024	10/24/2024	Niha Farheen Shaik	None	None	Iwona Zarych
								05/07/2024

FROM 140.00000ml of M5211 + 860.00000ml of W2606 = Final Quantity: 1.000 L

<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>
1836	HNO3 Hex-Chrome, 5M	WP107796	05/07/2024	10/24/2024	Rubina Mughal	None	None	Iwona Zarych
								05/07/2024

FROM 320.00000ml of M5878 + 680.00000ml of W2606 = 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>
190	HEX CHROME PHOSPHATE BUFFER	WP108008	05/20/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WC	None	Iwona Zarych
FROM 0.84500L of W2606 + 68.04000gram of W2699 + 87.09000gram of W2511 = Final Quantity: 1.000 L ^{SC-5)}								

<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>
3354	Hexchrome Cleaning Solution	WP108645	07/05/2024	12/27/2024	Rubina Mughal	None	None	Iwona Zarych
FROM 182.00000ml of M5947 + 727.00000ml of W3112 + 91.00000ml of M5954 = 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>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP108658	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC	None	Iwona Zarych
FROM 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml SC-5)								

<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>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP108659	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC	None	Iwona Zarych
FROM 0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml SC-5)								

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>
148	hexchrome digestion fluid	WP109013	08/05/2024	09/05/2024	Rubina Mughal	WETCHEM_SCALE_4 (WC)	None	Iwona Zarych
FROM 120.00000gram of W2862 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 ml (SC-4)								

<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_PIPETTE_3	Mohan Bera
FROM 5.00000ml of W2860 + 8.51200gram of W3111 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml (SC-5) (WC)								

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>
2051	TOC STOCK STD-SS, 4000PPM	WP109218	08/07/2024	02/07/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC	WETCHEM_PI PETTE_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								

<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								

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>
712	TOC SOIL cal 250ppm	WP109220	08/07/2024	08/14/2024	Iwona Zarych	None	WETCHEM_PIPETTE_3	Mohan Bera
FROM 15.00000ml of W3112 + 1.00000ml of WP109217 = Final Quantity: 16.000 ml (WC)								

<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_PIPETTE_3	Mohan Bera
FROM 14.00000ml of W3112 + 2.00000ml of WP109217 = Final Quantity: 16.000 ml (WC)								

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>
3544	TOC SOIL Cal- CCV 1000PPM	WP109222	08/07/2024	08/14/2024	Iwona Zarych	None	WETCHEM_PIPETTE_3	Mohan Bera 08/16/2024
FROM 15.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 20.000 ml (WC)								

<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_PIPETTE_3	Mohan Bera 08/16/2024
FROM 5.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 10.000 ml (WC)								

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	WP109224	08/07/2024	08/14/2024	Iwona Zarych	None	WETCHEM_PIPETTE_3	Mohan Bera
FROM 15.00000ml of W3112 + 5.00000ml of WP109218 = Final Quantity: 20.000 ml (WC)								

<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_PIPETTE_3	Mohan Bera
FROM 50.00000ml of W2860 + 50.00000ml of W3112 = Final Quantity: 100.000 ml (WC)								

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>
114	hexavalent chromium color reagent	WP109373	08/23/2024	08/30/2024	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 08/23/2024
FROM 0.25000gram of W2979 + 50.00000ml of E3788 = Final Quantity: 50.000 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	WP109452	08/29/2024	09/05/2024	Niha Farheen Shaik	None	None	Iwona Zarych 08/30/2024
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	WP109453	08/29/2024	09/05/2024	Niha Farheen Shaik	None	None	Iwona Zarych
FROM 15.00000ml of W3112 + 5.00000ml of WP109218 = Final Quantity: 20.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	22D0862014	01/20/2025	08/22/2022 / mohan	04/26/2022 / mohan	M5211

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	23I0662003	10/28/2024	05/02/2024 / Al-Terek	04/26/2024 / Al-Terek	M5878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	12/27/2024	06/27/2024 / Al-Terek	06/23/2024 / Al-Terek	M5947

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	01/02/2025	07/01/2024 / Al-Terek	06/25/2024 / Al-Terek	M5954

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA14125-36 / LEAD (II) CHROMATE, ACS, 500G	U19B018	01/23/2027	01/23/2017 / apatel	01/23/2017 / apatel	W2202

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	0000207436	04/29/2025	05/22/2019 / AMANDEEP	03/21/2019 / apatel	W2511

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYST, ACS, 500G	04/2019-20	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2699

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

CHEMICAL RECEIPT LOG BOOK

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.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	20A225205	07/13/2026	07/19/2023 / Al-Terek	07/13/2021 / apatel	W2862

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Magnesium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / lwona	06/06/2022 / lwona	W3001

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / lwona	W3113

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Certificate of analysis

Product No. 14125
Product: Lead(II) chromate, ACS, 98%
Lot No.: U19B018

Test	Limits	Results
Assay	98.0 % min	99.3 %
Soluble matter	0.15 % max	< 0.02 %
Carbon compounds	0.01 % max	< 0.01 %

Traceable to NIST? Yes

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Web : www.cpcindia.com

CERTIFICATE OF ANALYSIS

PRODUCT : POTASSIUM PHOSPHATE MONOBASIC Anhy. - ACS		
CERTIFICATE NO	: 04/2019-20	DATE 13-05-2019
Date of receipt of sample	: 29.04.2019	Quantity : 1000 KGS.
Batch No. /Lot No.	: 04/2019-20	
Mfg. Date	: April-2019	
1. Characteristic : A White powder		
2. Identification : Positive		
	RESULT OBTAINED	LIMITS
3. Clarity and colour of solution : 10% solution is clear and colourless		
4. Assay (on dry basis)	99.35%	Min.99.00%
5. PH (5% solution)	4.28	4.1-4.5
6. Loss on Drying	0.06%	Max 0.2%
7. Heavy Metals	0.0004%	Max.0.001%
8. iron	0.001%	Max 0.002%
9. Sulphate	0.0015%	Max. 0.003%
10. Chloride	0.0005%	Max.0.001%
11. Insoluble Matter	0.002%	Max. 0.01%
12. Sodium	0.0038%	Max. 0.005%
The sample does comply with specification as per Above.		
Analysed by <u>J. A. PATHAK</u>		Quality Control Department

Product No.: 13450
Product: Potassium dichromate, ACS, 99.0% min
Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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Potassium Phosphate, Dibasic, Powder
BAKER ANALYZED® A.C.S. Reagent

(dipotassium hydrogen phosphate)



Material No.: 3252-01
Batch No.: 0000207436
Manufactured Date: 2018/05/01
Retest Date: 2025/04/29
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (K ₂ HPO ₄) (by acidimetry)	>= 98.0 %	99.2
Insoluble Matter	<= 0.01 %	< 0.01
Loss on Drying at 105°C	<= 1.0 %	< 1.0
pH of 5% Solution at 25°C	8.5 – 9.6	9.1
Chloride (Cl)	<= 0.003 %	< 0.003
Fluoride (F)	<= 0.001 %	< 0.001
Nitrogen Compounds (as N)	<= 0.001 %	< 0.001
Sulfate (SO ₄)	<= 0.005 %	< 0.005
Trace Impurities – Iron (Fe)	<= 0.001 %	< 0.001
Sodium (Na)	<= 0.05 %	< 0.05
Trace Impurities – Arsenic (As)	<= 1.000 ppm	< 1.000
Trace Impurities – ACS – Heavy Metals (as Pb)	<= 5 ppm	< 5
Trace Impurities – Lead (Pb)	<= 5.000 ppm	< 5.000
Color (APHA), For Information Only		5

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC



Phillipsburg, NJ 9001:2015, FSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
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

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

W2918
W3001
rec. 06/06/22
exp. 06/06/27

Chem-Impex International, Inc.

Tel: (630) 766-2112
E-mail: sales@chemimpex.com
Shipping and Correspondence:
935 Dillon Drive
Wood Dale, IL 60191

Fax: (630) 766-2218
Web site: www.chemimpex.com
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Product	Magnesium chloride hexahydrate
Lot Number	002251-03319 Magnesium chloride•6H ₂ O
CAS Number	7791-18-6
Molecular Formula	MgCl ₂ •6H ₂ O
Molecular Weight	203.3

Appearance	Colorless crystals, very deliquescent
Heavy Metals	< 5 ppm
Anion	Nitrate : < 0.001% Phosphate : < 5 ppm Sulfate : < 0.002%
Cation	Ammonium : < 0.002% Barium : < 0.005% Calcium : 0.0006% Iron : < 5 ppm Manganese : 1.8 ppm Potassium : 0.0006% Sodium : 0.0008% Strontium : 0.0015%
Insoluble material	0.0025%
Assay by titration	100.29%
Grade	ACS reagent
Storage	Store at RT
Country of Origin	India

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002251-03319

Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager



Certificate of Analysis

Date of Release: 10/24/2019

Name: Sodium carbonate anhydrous

Grade: Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs.

Item No: SX0395-3

Lot No.: 20A225205

Country of Origin: USA

Characteristic	Requirement	Results
Assay (calculated on dried substance)	Min. 99.5 %	100.1 %
Color	White	White
Form	Powder	Powder
Heavy metals (ICP-OES)	Max. 5 ppm	< 5 ppm
Insoluble matter	Max. 0.01 %	< 0.01 %
Loss on heating (285°C)	Max. 1.0 %	< 1.0 %
Sulphur compounds (as SO ₄)	Max. 0.003 %	< 0.003 %
Cl (Chloride)	Max. 0.001 %	< 0.001 %
PO ₄ (Phosphate)	Max. 0.001 %	< 0.001 %
SiO ₂ (Silica)	Max. 0.005 %	< 0.005 %
Ca (Calcium)	Max. 0.03 %	0.005 %
Fe (Iron)	Max. 5 ppm	< 5 ppm
K (Potassium)	Max. 0.005 %	< 0.005 %
Mg (Magnesium)	Max. 0.005 %	< 0.005 %

Joe Schoellkopf

Quality Control Manager

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EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0



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

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Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-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.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Jerusa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis 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.

Certificate of Analysis

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Certificate of Analysis

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Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 faxThermo Fisher Scientific's Quality System has been found to conform to Quality Management System
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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.

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantor™



Material No.: 9673-33

Batch No.: 22D0862014

Manufactured Date: 2022-02-23

Retest Date: 2027-02-22

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.5 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	< 1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	1.7 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	2.0 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.6 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	12.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	4.4 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

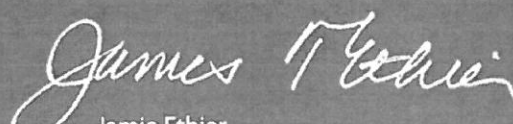


Material No.: 9673-33
Batch No.: 22D0862014

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	6.2 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.6 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



MS947 MS948 MS949
MS950 MS951 MS952

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis



Material No.: 9530-33
 Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

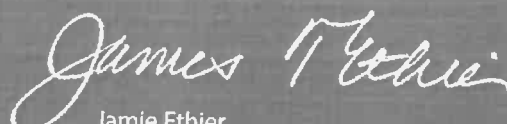


Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS



MS954 MS955 MS956
MS957 MS958

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS



Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
------	---------------	--------

For Microelectronic Use
Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazine - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C₁₃H₁₄N₄O

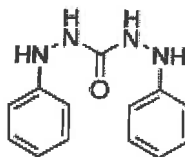
Formula Weight:

242.28 g/mol

Quality Release Date:

02 JUN 2022

Certificate of Analysis



Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





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.

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

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

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula:	NaOH	Manufacture Date:	12/14/2022
Molecular Weight:	40	Expiration Date:	12/31/2025
CAS #:	1310-73-2		
Appearance:		Storage:	Room Temperature

Pellets

Spec Set: 0583ACS

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: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

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
P3669-01	20430	1	1.17	8.60	9.77	8.15	81.2	
P3669-02	20430	2	1.17	8.60	9.77	8.15	81.2	
P3670-01	WASTE	3	1.15	8.48	9.63	8.51	86.8	
P3670-02	VOC	4	1.18	8.40	9.58	8.49	87.0	
P3670-03	1	5	1.18	8.48	9.66	8.48	86.1	
P3670-04	2	6	1.14	8.76	9.9	8.66	85.8	
P3670-05	3	7	1.14	8.40	9.54	8.35	85.8	
P3670-06	4	8	1.11	8.76	9.87	8.73	87.0	
P3670-07	5	9	1.12	8.78	9.9	8.69	86.2	
P3671-01	S-904-J-SO-0-0.5-081924	10	1.11	8.42	9.53	7.11	71.3	
P3671-02	S-904-J-SO-0-1-081924	11	1.18	8.53	9.71	7.98	79.7	
P3671-03	S-911-K1-SO-0-0.5-081924	12	1.18	8.52	9.7	5.18	46.9	
P3671-04	S-911-K1-SO-0.5-1-081924	13	1.14	8.54	9.68	5.92	56.0	
P3671-05	S-911-K1-SO-0-0.5-081924-FD	14	1.18	8.51	9.69	4.16	35.0	
P3671-06	S-905-KJ-SO-0-0.5-081924	15	1.15	8.50	9.65	7.8	78.2	
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	16	1.12	8.47	9.59	7.61	76.6	
P3671-08	S-905-J-SO-0.5-1.0-081924	17	1.13	8.74	9.87	8.3	82.0	
P3671-09	S-928-K1-SO-0-0.5-081924	18	1.15	8.82	9.97	5.38	48.0	
P3671-10	S-928-K1-SO-0.5-1-081924	19	1.15	8.80	9.95	6.18	57.2	
P3671-11	S-903-J-SO--0-0.5-081924	20	1.19	8.53	9.72	8.31	83.5	
P3671-12	S-903-J-SO--0-1.0-081924	21	1.17	8.60	9.77	8.55	85.8	
P3671-13	S-912-J-SO-0-0.5-081924	22	1.13	8.70	9.83	3.79	30.6	
P3671-14	S-912-J-SO-0.5-1-081924	23	1.15	8.81	9.96	5.69	51.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

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
P3674-01	PCB08724RB01	24	1.00	1.00	2.00	2.00	100.0	caluk
P3674-02	PCB08724RB02	25	1.00	1.00	2.00	2.00	100.0	caluk
P3674-03	PCB08724RB03	26	1.00	1.00	2.00	2.00	100.0	caluk
P3674-04	PCB08724RB04	27	1.00	1.00	2.00	2.00	100.0	caluk
P3674-05	PCB08724RB05	28	1.00	1.00	2.00	2.00	100.0	caluk
P3674-06	PCB08724RB06	29	1.00	1.00	2.00	2.00	100.0	caluk
P3674-07	PCB08724RB07	30	1.00	1.00	2.00	2.00	100.0	caluk
P3674-08	PCB08724RB08	31	1.00	1.00	2.00	2.00	100.0	caluk
P3676-01	PCB08724RB09	32	1.00	1.00	2.00	2.00	100.0	caluk
P3676-02	PCB08724RB10	33	1.00	1.00	2.00	2.00	100.0	caluk
P3676-03	PCB08724RB11	34	1.00	1.00	2.00	2.00	100.0	caluk
P3676-04	PCB08724RB12	35	1.00	1.00	2.00	2.00	100.0	caluk
P3676-05	PCB08724RB13	36	1.00	1.00	2.00	2.00	100.0	caluk
P3676-06	PCB08724RB14	37	1.00	1.00	2.00	2.00	100.0	caluk
P3676-07	PCB08724RB15	38	1.00	1.00	2.00	2.00	100.0	caluk
P3676-08	PCB08724RB16	39	1.00	1.00	2.00	2.00	100.0	caluk
P3676-09	PCB08724RB17	40	1.00	1.00	2.00	2.00	100.0	caluk
P3676-10	PCB08724RB18	41	1.00	1.00	2.00	2.00	100.0	caluk
P3676-11	PCB08724RB19	42	1.00	1.00	2.00	2.00	100.0	caluk
P3676-12	PCB08724RB20	43	1.00	1.00	2.00	2.00	100.0	caluk
P3676-13	PCB08724RB21	44	1.00	1.00	2.00	2.00	100.0	caluk
P3676-14	PCB08724RB22	45	1.00	1.00	2.00	2.00	100.0	caluk
P3676-15	PCB08724RB23	46	1.00	1.00	2.00	2.00	100.0	caluk
P3676-16	PCB08724RB24	47	1.00	1.00	2.00	2.00	100.0	caluk
P3676-17	PCB08724RB25	48	1.00	1.00	2.00	2.00	100.0	caluk
P3676-18	PCB08724RB26	49	1.00	1.00	2.00	2.00	100.0	caluk
P3676-19	PCB08724RB27	50	1.00	1.00	2.00	2.00	100.0	caluk
P3676-20	PCB08724RB28	51	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

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
P3676-21	PCB08724RB29	52	1.00	1.00	2.00	2.00	100.0	caluk
P3676-22	PCB08724RB30	53	1.00	1.00	2.00	2.00	100.0	caluk
P3676-23	PCB08724RB31	54	1.00	1.00	2.00	2.00	100.0	caluk
P3676-24	PCB08724RB32	55	1.00	1.00	2.00	2.00	100.0	caluk
P3676-25	PCB08724RB33	56	1.00	1.00	2.00	2.00	100.0	caluk
P3676-26	PCB08724RB34	57	1.00	1.00	2.00	2.00	100.0	caluk
P3676-27	PCB08724RB35	58	1.00	1.00	2.00	2.00	100.0	caluk
P3676-28	PCB08724RB36	59	1.00	1.00	2.00	2.00	100.0	caluk
P3676-29	PCB08724RB37	60	1.00	1.00	2.00	2.00	100.0	caluk
P3676-30	PCB08724RB38	61	1.00	1.00	2.00	2.00	100.0	caluk
P3676-31	PCB08724RB39	62	1.00	1.00	2.00	2.00	100.0	caluk
P3676-32	PCB08724RB40	63	1.00	1.00	2.00	2.00	100.0	caluk
P3677-01	MX120	64	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
P3677-02	MX121	65	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE
P3678-01	RE137-BagFilter20240819	71	1.00	1.00	2.00	2.00	100.0	Fabric
P3681-01	57	66	1.00	1.00	2.00	2.00	100.0	oil sample
P3681-02	0726-D	67	1.00	1.00	2.00	2.00	100.0	oil sample
P3681-03	581	68	1.14	8.66	9.8	8.88	89.4	
P3682-01	50407-A	69	1.00	1.00	2.00	2.00	100.0	wipe sample
P3682-02	50407-B	70	1.00	1.00	2.00	2.00	100.0	wipe sample
P3683-01	KZA404B-END-1-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P3683-02	KZA404B-END-1-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P3683-03	BC274653-END-1-1	74	1.00	1.00	2.00	2.00	100.0	oilc
P3683-04	BC274653-END-1-2	75	1.00	1.00	2.00	2.00	100.0	oilc
P3683-05	BC274653-END-2-1	76	1.00	1.00	2.00	2.00	100.0	oilc
P3683-06	BC274653-END-2-2	77	1.00	1.00	2.00	2.00	100.0	oilc
P3683-07	HED930S-END-1-1	78	1.00	1.00	2.00	2.00	100.0	oilc
P3683-08	HED930S-END-1-2	79	1.00	1.00	2.00	2.00	100.0	oilc



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 8/21/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 08/20/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 08/21/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB132092

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
P3684-03	D3646	86	1.00	1.00	2.00	2.00	100.0	DEBRIS
P3684-04	D3638	87	1.18	8.42	9.6	6.18	59.4	
P3684-06	D3564	88	1.00	1.00	2.00	2.00	100.0	DEBRIS
P3685-01	Stock Pile-1	80	1.15	8.43	9.58	8.99	93.0	
P3685-02	Stock Pile-1	81	1.15	8.43	9.58	8.99	93.0	
P3685-03	Stock Pile-2	82	1.18	8.72	9.9	9.34	93.6	
P3685-04	Stock Pile-2	83	1.18	8.72	9.9	9.34	93.6	
P3685-06	Stock Pile-1	84	1.15	8.43	9.58	8.99	93.0	
P3685-07	Stock Pile-2	85	1.18	8.72	9.9	9.34	93.6	

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

WORKLIST(Hardcopy Internal Chain)

132092

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3669-01	20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/19/2024	Chemtech -SO
P3669-02	20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/19/2024	Chemtech -SO
P3670-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3670-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3671-01	S-904-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	SCIA01	G11	08/19/2024	Chemtech -SO
P3671-02	S-904-J-SO-0-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-11	S-903-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-12	S-903-J-SO-0-1.0-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO

Date/Time 08/20/24 16:10
Raw Sample Received by: JH GPC
Raw Sample Relinquished by: JH GPC

Date/Time 08/20/24 17:30
Raw Sample Received by: CP SM
Raw Sample Relinquished by: JH GPC

WORKLIST(Hardcopy Internal Chain)

VB 132092

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3671-13	S-912-J-SO-0-0.5-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3671-14	S-912-J-SO-0.5-1-081924	Solid	Percent Solids	Cool 4 deg C	JACO05	G11	08/19/2024	Chemtech -SO
P3674-01	PCB08724RB01	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-02	PCB08724RB02	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-03	PCB08724RB03	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-04	PCB08724RB04	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-05	PCB08724RB05	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-06	PCB08724RB06	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-07	PCB08724RB07	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3674-08	PCB08724RB08	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-01	PCB08724RB09	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-02	PCB08724RB10	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-03	PCB08724RB11	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-04	PCB08724RB12	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-05	PCB08724RB13	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-06	PCB08724RB14	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-07	PCB08724RB15	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-08	PCB08724RB16	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-09	PCB08724RB17	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-10	PCB08724RB18	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-11	PCB08724RB19	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: JG CWC

Raw Sample Relinquished by: JG CWC

Date/Time 08/20/24 14:30

Raw Sample Received by: JG CWC

Raw Sample Relinquished by: JG CWC

WORKLIST(Hardcopy Internal Chain)

WB 132092

WorkList Name : %1-082024 WorkList ID : 182800 Department : Wet-Chemistry Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3676-12	PCB08724RB20	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-13	PCB08724RB21	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-14	PCB08724RB22	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-15	PCB08724RB23	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-16	PCB08724RB24	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-17	PCB08724RB25	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-18	PCB08724RB26	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-19	PCB08724RB27	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-20	PCB08724RB28	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-21	PCB08724RB29	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-22	PCB08724RB30	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-23	PCB08724RB31	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-24	PCB08724RB32	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-25	PCB08724RB33	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-26	PCB08724RB34	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-27	PCB08724RB35	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-28	PCB08724RB36	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-29	PCB08724RB37	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-30	PCB08724RB38	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-31	PCB08724RB39	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO
P3676-32	PCB08724RB40	Solid	Percent Solids	Cool 4 deg C	CLOU03	G11	08/06/2024	Chemtech -SO

Date/Time 08/20/24 16:10 Date/Time 08/20/24 17:30
Raw Sample Received by: JB WRC Raw Sample Received by: CP SM
Raw Sample Relinquished by: CP SM Raw Sample Relinquished by: JB WRC

WORKLIST(Hardcopy Internal Chain)

WB 132092

WorkList Name : %1-082024 WorkList ID : 182800 Department : Wet-Chemistry Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3677-01	MX120	Solid	Percent Solids	Cool 4 deg C	USEP01	QA Of	08/19/2024	Chemtech -SO
P3677-02	MX121	Solid	Percent Solids	Cool 4 deg C	USEP01	QA Of	08/19/2024	Chemtech -SO
P3678-01	RE137-BagFilter20240819	Solid	Percent Solids	Cool 4 deg C	TETRO6	G11	08/19/2024	Chemtech -SO
P3681-01	57	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3681-02	0726-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3681-03	581	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3682-01	50407-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3682-02	50407-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-01	KZA404B-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-02	KZA404B-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-03	BC274653-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-04	BC274653-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-05	BC274653-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-06	BC274653-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-07	HED930S-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3683-08	HED930S-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-03	D3646	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-04	D3638	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3684-06	D3564	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-01	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-02	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO

Date/Time 08/20/24 16:10 Date/Time 08/20/24 17:30
 Raw Sample Received by: 80 wocj Raw Sample Received by: af sm
 Raw Sample Relinquished by: af sm Raw Sample Relinquished by: 80 wocj

WORKLIST(Hardcopy Internal Chain)

08/20/24

WorkList Name : %1-082024

WorkList ID : 182800

Department : Wet-Chemistry

Date : 08-20-2024 07:44:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3685-03	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-04	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-06	Stock Pile-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO
P3685-07	Stock Pile-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	G11	08/20/2024	Chemtech -SO

Date/Time 08/20/24 16:10

Raw Sample Received by: JH WOC

Raw Sample Relinquished by: CP SM

Date/Time

08/20/24 17:30

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JH WOC



SHIPPING DOCUMENTS

- 1
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- 3
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

CHEMTECH CHAIN OF CUSTODY RECORD				284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net				Chemtech Project Number: P3671 / P3672																							
CLIENT INFORMATION				PROJECT INFORMATION				BILLING INFORMATION																							
COMPANY: JACOBS ADDRESS: 10, 10th Street Suite 1400 CITY Atlanta STATE: GA ZIP: 30309 ATTENTION: Rachael McSpadden and Melissa Warren PHONE: FAX:				PROJECT NAME: STC PTC PROJECT #: D379922 LOCATION: Princeton Junction PROJECT MANAGER: Mary Murphy E-MAIL: Mary.Murphy@Jacobs.com PHONE: FAX:				BILL TO: Mary Murphy PO# ADDRESS: CITY: STATE: ZIP: ATTENTION: PHONE:																							
DATA TURNAROUND INFORMATION				DATA DELIVERABLE INFORMATION				ANALYSIS																							
FAX: Standard TAT DAYS* HARD COPY: DAYS* EDD DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS				☐ RESULTS ONLY (L1) ☐ US EPA CLP (L4) ☐ RESULTS + QC (L2) ☐ NYS ASP "A" (L2) ☒ NJ REDUCED (L3) ☐ NYS ASP "B" (L4) ☐ NJ FULL (L4) ☐ Other _____ ☐ EDD Format				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>VOCs 8260D</th> <th>SVOCs (8270E), PAHs (8270E-SIM)</th> <th>Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A</th> <th>TOC Lloyd Kahn</th> <th>TOC Lloyd Kahn</th> <th>Particle Size Dist ASTM D422</th> <th>VOCs 5035/5260D</th> <th>Percent Moisture</th> <th></th> <th></th> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> </tr> </table>				VOCs 8260D	SVOCs (8270E), PAHs (8270E-SIM)	Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A	TOC Lloyd Kahn	TOC Lloyd Kahn	Particle Size Dist ASTM D422	VOCs 5035/5260D	Percent Moisture			1	2	3	4	5	6	7	8	9	
VOCs 8260D	SVOCs (8270E), PAHs (8270E-SIM)	Metals 6020B, Hg 7470B, Cr(VI) 3060A/7196A	TOC Lloyd Kahn	TOC Lloyd Kahn	Particle Size Dist ASTM D422	VOCs 5035/5260D	Percent Moisture																								
1	2	3	4	5	6	7	8	9																							
				PRESERVATIVES				COMMENTS																							
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	E	E	E	E	E	F,E	E			<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other														
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9															
1.	S-904-J-SO-0-0.5-081924	SO	X	X	8-19-24	0915	8		1	1		2	3	1			See attached Table for analyte list for each method														
2.	S-904-J-SO-0.5-10-081924	SO	X	X	8-19-24	0930	8		1	1		2	3	1																	
3.	S-911-KI-SO-6-0.5-081924	SO	X	X	8-19-24	0945	8		1	1		2	3	1																	
4.	S-911-KI-SO-8.5-1-081924	SO	X	X	8-19-24	1000	8		1	1		2	3	1																	
5.	S-911-KI-SO-0-0.5-081924-FD	SO	X	X	8-19-24	1010	6		1	1		3	1																		
6.	S-905-KI-SO-0-0.5-081924-	SO	X	X	8-19-24	1030	8		1	1		2	3	1																	
7.	S-905-KI-SO-0-0.5-081924-FD	SO	X	X	8-19-24	1035	8		1	1		3	1																		
8.	S-905-KI-SO-0.5-10-081924	SO	X	X	8-19-24	1045	8		1	1		2	3	1																	
9.	S-928-KI-SO-0-6.5-081924	SO	X	X	8-19-24	1210	8		1	1		2	3	1																	
10.	S-928-KI-SO-0.5-10-081924	SO	X	X	8-19-24	1220	8		1	1		2	3	1																	
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																															
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.0 C MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____ Comments: All analytes to be run for requested analytes associated with Soil Eco work.																									
1.		8-19-24		1.		Page <u>1</u> of <u>2</u>																									
RELINQUISHED BY		DATE/TIME		RECEIVED BY																											
2.		8-19-24		2.																											
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY		SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight						Shipment Complete ☐ YES ☐ NO																			
3.		8-19-24		3.																											

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3671	JACO05	Order Date : 8/20/2024 10:36:00 AM	Project Mgr : Kiran
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/19/2024 6:20:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff : 8/20/2024 1:52:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3671-01	S-904-J-SO-0-0.5-081924	Solid	08/19/2024	09:15					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-02	S-904-J-SO-0.5-1.0-081924	Solid	08/19/2024	09:30					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-03	S-911-K1-SO-0-0.5-081924	Solid	08/19/2024	09:45					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-04	S-911-K1-SO-0.5-1-081924	Solid	08/19/2024	10:00					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-05	S-911-K1-SO-0-0.5-081924-FD	Solid	08/19/2024	10:10					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-06	S-905-KJ-SO-0-0.5-081924	Solid	08/19/2024	10:30					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	Solid	08/19/2024	10:35					
					VOCMS Group5		8260D	10 Bus. Days	
P3671-08	S-905-J-SO-0.5-1.0-081924	Solid	08/19/2024	10:45					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3671	JACO05	Order Date : 8/20/2024 10:36:00 AM	Project Mgr : Kiran
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/19/2024 6:20:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff : 8/20/2024 1:52:05 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group5		8260D		10 Bus. Days
P3671-09	S-928-K1-SO-0-0.5-081924	Solid	08/19/2024	12:10					
					VOCMS Group5		8260D		10 Bus. Days
P3671-10	S-928-K1-SO-0.5-1-081924	Solid	08/19/2024	12:20					
					VOCMS Group5		8260D		10 Bus. Days
P3671-11	S-903-J-SO-0-0.5-081924	Solid	08/19/2024	13:10					
					VOCMS Group5		8260D		10 Bus. Days
P3671-12	S-903-J-SO-0.5-1.0-081924	Solid	08/19/2024	13:20					
					VOCMS Group5		8260D		10 Bus. Days
P3671-13	S-912-J-SO-0-0.5-081924	Solid	08/19/2024	13:30					
					VOCMS Group5		8260D		10 Bus. Days
P3671-14	S-912-J-SO-0.5-1-081924	Solid	08/19/2024	13:40					
					VOCMS Group5		8260D		10 Bus. Days
P3671-15	TB-01-081924	Water	08/19/2024	09:40					
					VOCMS Group6		8260-Low		10 Bus. Days



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3671	JACO05	Order Date : 8/20/2024 10:36:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 8/19/2024 6:20:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By :

Date / Time :

8/20/24 1330

Received By :

Date / Time :

8/20/24 13:30

Storage Area : VOA Refridgerator Room

Ref 6
P22
Ref #5