

Cover Page

Order ID : P4385

Project ID : Robbinsville

Client : Scheideler Excavating Co. Inc.

Lab Sample Number

P4385-01
P4385-02
P4385-03
P4385-04
P4385-05
P4385-06
P4385-07
P4385-08
P4385-09
P4385-10
P4385-11
P4385-12
P4385-13
P4385-14
P4385-15
P4385-16
P4385-17
P4385-18
P4385-19
P4385-20

Client Sample Number

SP-1
SP-1
SP-2
SP-2
SP-3
SP-3
SP-4
SP-4
SP-5
SP-5
SP-6
SP-6
SP-7
SP-7
SP-8
SP-8
SP-9
SP-9
SP-10
SP-10

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

Signature : _____

Date: 10/19/2024

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4385

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 Castody

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SHREENA PATEL

Date: 10/19/2024

LAB CHRONICLE

OrderID:	P4385	OrderDate:	10/10/2024 2:00:00 PM
Client:	Scheideler Excavating Co. Inc.	Project:	Robbinsville
Contact:	Jim Scheideler	Location:	K51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4385-02	SP-1	SOIL			10/10/24 11:15			10/10/24
			Cyanide	9012B		10/14/24	10/14/24 13:33	
			Hexavalent Chromium	7196A		10/11/24	10/11/24 12:09	
			Paint Filter	9095B			10/14/24 09:15	
			pH	9045D			10/11/24 09:10	
			Trivalent Chromium	6010D			10/15/24 14:43	
P4385-04	SP-2	SOIL			10/10/24 11:30			10/10/24
			Cyanide	9012B		10/14/24	10/14/24 13:33	
			Hexavalent Chromium	7196A		10/11/24	10/11/24 12:10	
			Paint Filter	9095B			10/14/24 09:22	
			pH	9045D			10/11/24 09:15	
			Trivalent Chromium	6010D			10/15/24 14:48	
P4385-06	SP-3	SOIL			10/10/24 11:50			10/10/24
			Cyanide	9012B		10/14/24	10/14/24 13:33	
			Hexavalent Chromium	7196A		10/11/24	10/11/24 12:11	

LAB CHRONICLE

P4385-08	SP-4	SOIL	Paint Filter	9095B		10/14/24 09:30	10/10/24 12:07	10/10/24
			pH	9045D		10/11/24 09:18		
			Trivalent Chromium	6010D		10/15/24 14:52		
P4385-10	SP-5	SOIL	Cyanide	9012B	10/14/24	10/14/24 13:33	10/10/24 12:22	10/10/24
			Hexavalent Chromium	7196A	10/11/24	10/11/24 12:12		
			Paint Filter	9095B		10/14/24 09:38		
			pH	9045D		10/11/24 09:20		
			Trivalent Chromium	6010D		10/15/24 14:56		
P4385-12	SP-6	SOIL	Cyanide	9012B	10/14/24	10/14/24 13:34	10/10/24 12:38	10/10/24
			Hexavalent Chromium	7196A	10/11/24	10/11/24 12:13		
			Paint Filter	9095B		10/14/24 09:45		
			pH	9045D		10/11/24 09:25		
			Trivalent Chromium	6010D		10/15/24 15:01		
			Cyanide	9012B	10/14/24	10/14/24 13:34		
			Hexavalent Chromium	7196A	10/11/24	10/11/24 12:14		
			Paint Filter	9095B		10/14/24 09:52		

LAB CHRONICLE

P4385-14	SP-7	SOIL	pH	9045D		10/11/24 09:30	10/10/24 12:55	10/10/24
			Trivalent Chromium	6010D		10/15/24 15:05		
			Cyanide	9012B	10/14/24	10/14/24 13:34		
			Hexavalent Chromium	7196A	10/11/24	10/11/24 12:15		
			Paint Filter	9095B		10/14/24 10:00		
P4385-16	SP-8	SOIL	pH	9045D		10/11/24 09:33	10/10/24 13:10	10/10/24
			Trivalent Chromium	6010D		10/15/24 15:09		
			Cyanide	9012B	10/14/24	10/14/24 13:41		
			Hexavalent Chromium	7196A	10/11/24	10/11/24 12:16		
			Paint Filter	9095B		10/14/24 10:08		
P4385-18	SP-9	SOIL	pH	9045D		10/11/24 09:36	10/10/24 13:23	10/10/24
			Trivalent Chromium	6010D		10/15/24 15:13		
			Cyanide	9012B	10/14/24	10/14/24 13:41		
			Hexavalent Chromium	7196A	10/11/24	10/11/24 12:17		
			Paint Filter	9095B		10/14/24 10:15		
			pH	9045D		10/11/24 09:44		

LAB CHRONICLE

P4385-20	SP-10	SOIL	Trivalent Chromium	6010D		10/15/24 13:10	10/10/24 13:35	10/10/24
			Cyanide	9012B	10/14/24	10/14/24 13:41		
			Hexavalent Chromium	7196A	10/11/24	10/11/24 12:18		
			Paint Filter	9095B		10/14/24 10:30		
			pH	9045D		10/11/24 09:50		
			Trivalent Chromium	6010D		10/18/24 15:11		



SAMPLE DATA

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 11:15
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-1	SDG No.:	P4385
Lab Sample ID:	P4385-02	Matrix:	SOIL
		% Solid:	93.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.046	U	1	0.046	0.26	mg/Kg	10/14/24 08:30	10/14/24 13:33	9012B
Hexavalent Chromium	0.084	U	1	0.084	0.43	mg/Kg	10/11/24 08:45	10/11/24 12:09	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 09:15	9095B
pH	4.96	H	1	0	0	pH		10/11/24 09:10	9045D
Trivalent Chromium	13.6		1	0.54	0.54	mg/Kg		10/15/24 14:43	6010D

Comments: pH result reported at temperature 20.6 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 11:30
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-2	SDG No.:	P4385
Lab Sample ID:	P4385-04	Matrix:	SOIL
		% Solid:	95

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.045	U	1	0.045	0.26	mg/Kg	10/14/24 08:30	10/14/24 13:33	9012B
Hexavalent Chromium	0.082	U	1	0.082	0.42	mg/Kg	10/11/24 08:45	10/11/24 12:10	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 09:22	9095B
pH	5.18	H	1	0	0	pH		10/11/24 09:15	9045D
Trivalent Chromium	12.4		1	0.53	0.53	mg/Kg		10/15/24 14:48	6010D

Comments: pH result reported at temperature 20.8 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 11:50
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-3	SDG No.:	P4385
Lab Sample ID:	P4385-06	Matrix:	SOIL
		% Solid:	94.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.045	U	1	0.045	0.26	mg/Kg	10/14/24 08:30	10/14/24 13:33	9012B
Hexavalent Chromium	0.083	U	1	0.083	0.42	mg/Kg	10/11/24 08:45	10/11/24 12:11	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 09:30	9095B
pH	5.29	H	1	0	0	pH		10/11/24 09:18	9045D
Trivalent Chromium	12.3		1	0.53	0.53	mg/Kg		10/15/24 14:52	6010D

Comments: pH result reported at temperature 20.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 12:07
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-4	SDG No.:	P4385
Lab Sample ID:	P4385-08	Matrix:	SOIL
		% Solid:	99.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.043	U	1	0.043	0.24	mg/Kg	10/14/24 08:30	10/14/24 13:33	9012B
Hexavalent Chromium	0.079	U	1	0.079	0.40	mg/Kg	10/11/24 08:45	10/11/24 12:12	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 09:38	9095B
pH	5.23	H	1	0	0	pH		10/11/24 09:20	9045D
Trivalent Chromium	12.6		1	0.51	0.51	mg/Kg		10/15/24 14:56	6010D

Comments: pH result reported at temperature 20.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 12:22
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-5	SDG No.:	P4385
Lab Sample ID:	P4385-10	Matrix:	SOIL
		% Solid:	93.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.046	U	1	0.046	0.26	mg/Kg	10/14/24 08:30	10/14/24 13:34	9012B
Hexavalent Chromium	0.084	U	1	0.084	0.43	mg/Kg	10/11/24 08:45	10/11/24 12:13	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 09:45	9095B
pH	6.43	H	1	0	0	pH		10/11/24 09:25	9045D
Trivalent Chromium	12.3		1	0.54	0.54	mg/Kg		10/15/24 15:01	6010D

Comments: pH result reported at temperature 20.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 12:38
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-6	SDG No.:	P4385
Lab Sample ID:	P4385-12	Matrix:	SOIL
		% Solid:	93

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.046	U	1	0.046	0.26	mg/Kg	10/14/24 08:30	10/14/24 13:34	9012B
Hexavalent Chromium	0.084	U	1	0.084	0.42	mg/Kg	10/11/24 08:45	10/11/24 12:14	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 09:52	9095B
pH	6.24	H	1	0	0	pH		10/11/24 09:30	9045D
Trivalent Chromium	13.0		1	0.54	0.54	mg/Kg		10/15/24 15:05	6010D

Comments: pH result reported at temperature 20.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 12:55
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-7	SDG No.:	P4385
Lab Sample ID:	P4385-14	Matrix:	SOIL
		% Solid:	93.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.046	U	1	0.046	0.26	mg/Kg	10/14/24 08:30	10/14/24 13:34	9012B
Hexavalent Chromium	0.084	U	1	0.084	0.43	mg/Kg	10/11/24 08:45	10/11/24 12:15	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 10:00	9095B
pH	6.84	H	1	0	0	pH		10/11/24 09:33	9045D
Trivalent Chromium	13.7		1	0.53	0.53	mg/Kg		10/15/24 15:09	6010D

Comments: pH result reported at temperature 20.7 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 13:10
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-8	SDG No.:	P4385
Lab Sample ID:	P4385-16	Matrix:	SOIL
		% Solid:	94.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.045	U	1	0.045	0.25	mg/Kg	10/14/24 08:30	10/14/24 13:41	9012B
Hexavalent Chromium	0.083	U	1	0.083	0.42	mg/Kg	10/11/24 08:45	10/11/24 12:16	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 10:08	9095B
pH	7.08	H	1	0	0	pH		10/11/24 09:36	9045D
Trivalent Chromium	12.7		1	0.53	0.53	mg/Kg		10/15/24 15:13	6010D

Comments: pH result reported at temperature 20.8 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 13:23
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-9	SDG No.:	P4385
Lab Sample ID:	P4385-18	Matrix:	SOIL
		% Solid:	93.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.052	J	1	0.045	0.26	mg/Kg	10/14/24 08:30	10/14/24 13:41	9012B
Hexavalent Chromium	0.084	U	1	0.084	0.42	mg/Kg	10/11/24 08:45	10/11/24 12:17	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 10:15	9095B
pH	7.12	H	1	0	0	pH		10/11/24 09:44	9045D
Trivalent Chromium	14.5		1	0.54	0.54	mg/Kg		10/15/24 13:10	6010D

Comments: pH result reported at temperature 20.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24 13:35
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-10	SDG No.:	P4385
Lab Sample ID:	P4385-20	Matrix:	SOIL
		% Solid:	94.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.052	J	1	0.046	0.26	mg/Kg	10/14/24 08:30	10/14/24 13:41	9012B
Hexavalent Chromium	0.083	U	1	0.083	0.42	mg/Kg	10/11/24 08:45	10/11/24 12:18	7196A
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		10/14/24 10:30	9095B
pH	7.19	H	1	0	0	pH		10/11/24 09:50	9045D
Trivalent Chromium	19.0		1	0.53	0.53	mg/Kg		10/18/24 15:11	6010D

Comments: pH result reported at temperature 20.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY



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

Initial and Continuing Calibration Verification

Client: Scheideler Excavating Co. Inc.

SDG No.: P4385

Project: Robbinsville

RunNo.: LB132883

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	7.00	7	100	90-110	10/11/2024
Sample ID: CCV1 pH	pH	2.01	2.00	101	90-110	10/11/2024
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	10/11/2024
Sample ID: CCV3 pH	pH	2.01	2.00	101	90-110	10/11/2024

Initial and Continuing Calibration Verification

Client: Scheideler Excavating Co. Inc.

SDG No.: P4385

Project: Robbinsville

RunNo.: LB132887

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	10/11/2024
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	10/11/2024
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	10/11/2024
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	10/11/2024

Initial and Continuing Calibration Verification

Client: Scheideler Excavating Co. Inc.

SDG No.: P4385

Project: Robbinsville

RunNo.: LB132925

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Cyanide		mg/L	0.1	0.099	101	90-110	10/14/2024
Sample ID:	CCV1						
Cyanide		mg/L	0.25	0.25	100	90-110	10/14/2024
Sample ID:	CCV2						
Cyanide		mg/L	0.26	0.25	104	90-110	10/14/2024
Sample ID:	CCV3						
Cyanide		mg/L	0.25	0.25	100	90-110	10/14/2024
Sample ID:	CCV4						
Cyanide		mg/L	0.26	0.25	104	90-110	10/14/2024

Initial and Continuing Calibration Blank Summary

Client: Scheideler Excavating Co. Inc.

SDG No.: P4385

Project: Robbinsville

RunNo.: LB132887

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	10/11/2024
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/11/2024
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/11/2024
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/11/2024

Initial and Continuing Calibration Blank Summary

Client: Scheideler Excavating Co. Inc.

SDG No.: P4385

Project: Robbinsville

RunNo.: LB132925

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/14/2024
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/14/2024
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/14/2024
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/14/2024
Sample ID: CCB4 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	10/14/2024

Preparation Blank Summary

Client: Scheideler Excavating Co. Inc.

SDG No.: P4385

Project: Robbinsville

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB164052BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	10/11/2024
Sample ID: PB164122BL							
Cyanide	mg/Kg	< 0.1250	0.1250	U	0.044	0.25	10/14/2024

Matrix Spike Summary

Client:	Scheideler Excavating Co. Inc.	SDG No.:	P4385
Project:	Robbinsville	Sample ID:	P4377-01
Client ID:	HD-01-100924MS	Percent Solids for Spike Sample:	90.6

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	1310		0.086	U	1420	40	92		10/11/2024

Matrix Spike Summary

Client:	Scheideler Excavating Co. Inc.	SDG No.:	P4385
Project:	Robbinsville	Sample ID:	P4377-01
Client ID:	HD-01-100924MS	Percent Solids for Spike Sample:	90.6

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	41.8		0.086	U	44.2	2	95		10/11/2024

Matrix Spike Summary

Client:	Scheideler Excavating Co. Inc.	SDG No.:	P4385
Project:	Robbinsville	Sample ID:	P4377-01
Client ID:	HD-01-100924MS	Percent Solids for Spike Sample:	90.6

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	33.9		0.086	U	44.2	2	77		10/11/2024

Matrix Spike Summary

Client:	Scheideler Excavating Co. Inc.	SDG No.:	P4385
Project:	Robbinsville	Sample ID:	P4385-20
Client ID:	SP-10MS	Percent Solids for Spike Sample:	94.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.00		0.052	J	2.1	1	93		10/14/2024

Matrix Spike Summary

Client:	Scheideler Excavating Co. Inc.	SDG No.:	P4385
Project:	Robbinsville	Sample ID:	P4385-20
Client ID:	SP-10MSD	Percent Solids for Spike Sample:	94.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	1.90		0.052	J	2.1	1	88		10/14/2024

Duplicate Sample Summary

Client:	Scheideler Excavating Co. Inc.	SDG No.:	P4385
Project:	Robbinsville	Sample ID:	P4377-01
Client ID:	HD-01-100924DUP	Percent Solids for Spike Sample:	90.6

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.086	U	0.087	U	1	0		10/11/2024

Duplicate Sample Summary

Client:	Scheideler Excavating Co. Inc.	SDG No.:	P4385
Project:	Robbinsville	Sample ID:	P4385-02
Client ID:	SP-1DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	4.96		4.97		1	0.2		10/11/2024

Duplicate Sample Summary

Client: Scheideler Excavating Co. Inc. Project: Robbinsville Client ID: SP-10DUP	SDG No.: P4385 Sample ID: P4385-20 Percent Solids for Spike Sample: 94.4
---	---

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.052	J	0.046	U	1	200	*	10/14/2024

Duplicate Sample Summary

Client:	Scheideler Excavating Co. Inc.	SDG No.:	P4385
Project:	Robbinsville	Sample ID:	P4385-20
Client ID:	SP-10MSD	Percent Solids for Spike Sample:	94.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.00		1.90		1	5		10/14/2024

Duplicate Sample Summary

Client: Scheideler Excavating Co. Inc.	SDG No.: P4385
Project: Robbinsville	Sample ID: P4395-01
Client ID: F05308-SOLIDDUP	Percent Solids for Spike Sample: 81.6

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		10/14/2024

Laboratory Control Sample Summary

Client: Scheideler Excavating Co. Inc.

SDG No.: P4385

Project: Robbinsville

Run No.: LB132887

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164052BS							
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	10/11/2024

Laboratory Control Sample Summary

Client: Scheideler Excavating Co. Inc.

SDG No.: P4385

Project: Robbinsville

Run No.: LB132925

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164122BS							
Cyanide	mg/Kg	5	5.00		100	1	85-115	10/14/2024



RAW DATA

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB132883

Slope : 98.2

BalanceID: WC SC-4

pH Meter ID : WC PH METER-1

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

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

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

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

True Value of CCV3 = 2.00 Control Limits[+/- 0.1].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	10/11/2024	08:50
2	CAL2	1	Water	NA	NA	20.2	7.00	10/11/2024	08:51
3	CAL3	1	Water	NA	NA	20.2	10.02	10/11/2024	08:53
4	ICV	1	Water	NA	NA	20.3	7.00	10/11/2024	08:55
5	CCV1	1	Water	NA	NA	20.3	2.01	10/11/2024	09:00
6	P4385-02	1	Solid	20.02	20	20.6	4.96	10/11/2024	09:10
7	P4385-02DUP	1	Solid	20.03	20	20.7	4.97	10/11/2024	09:11
8	P4385-04	1	Solid	20.02	20	20.8	5.18	10/11/2024	09:15
9	P4385-06	1	Solid	20.01	20	20.3	5.29	10/11/2024	09:18
10	P4385-08	1	Solid	20.03	20	20.4	5.23	10/11/2024	09:20
11	P4385-10	1	Solid	20.03	20	20.5	6.43	10/11/2024	09:25
12	P4385-12	1	Solid	20.04	20	20.5	6.24	10/11/2024	09:30
13	P4385-14	1	Solid	20.02	20	20.7	6.84	10/11/2024	09:33
14	P4385-16	1	Solid	20.03	20	20.8	7.08	10/11/2024	09:36
15	P4385-18	1	Solid	20.04	20	20.4	7.12	10/11/2024	09:44
16	CCV2	1	Water	NA	NA	20.3	12.02	10/11/2024	09:47
17	P4385-20	1	Solid	20.02	20	20.5	7.19	10/11/2024	09:50
18	CCV3	1	Water	NA	NA	20.2	2.01	10/11/2024	09:51

WORKLIST(Hardcopy Internal Chain)

VB 132883

WorkList Name : ph p4385 WorkList ID : 184347 Department : Wet-Chemistry Date : 10-11-2024 08:39:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4385-02	SP-1	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-04	SP-2	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-06	SP-3	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-08	SP-4	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-10	SP-5	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-12	SP-6	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-14	SP-7	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-16	SP-8	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-18	SP-9	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D
P4385-20	SP-10	Solid	pH	Cool 4 deg C	SCHE03	K51	10/10/2024	9045D

Date/Time 10-11-24 08:45
 Raw Sample Received by: JH G201
 Raw Sample Relinquished by: JH G201

Date/Time 10-11-24 11:40
 Raw Sample Received by: JH G201
 Raw Sample Relinquished by: JH G201

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB132887

pH Meter ID: WC pH Meter-1

Reagent/Standard	Lot/Log #
hexavalent chromium color reagent	WP110108
5N sulfuric acid	WP107791
HNO3 Hex-Chrome, 5M	WP107796
Hexchrome Cleaning Solution	WP108645

Intercept: 0.0012

Slope: 0.7646

Regression: 0.999996

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	7.25	1.76	0.000	0.000	0.000	-0.00		10/11/2024	11:45
2	CAL2	0.01	1	100	100	7.40	1.89	0.000	0.009	0.009	0.010	0	10/11/2024	11:46
3	CAL3	0.025	1	100	100	7.36	1.87	0.000	0.021	0.021	0.025	0	10/11/2024	11:47
4	CAL4	0.05	1	100	100	7.37	1.89	0.000	0.039	0.039	0.049	-2	10/11/2024	11:48
5	CAL5	0.1	1	100	100	7.39	1.90	0.000	0.079	0.079	0.101	1	10/11/2024	11:49
6	CAL6	0.5	1	100	100	7.40	1.87	0.000	0.383	0.383	0.499	-0.2	10/11/2024	11:50
7	CAL7	1	1	100	100	7.36	1.84	0.000	0.766	0.766	1.000	0	10/11/2024	11:51

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB132887

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	0.385	0.385	0.502	10/11/2024	11:52
2	ICB		1	100	100	7.28	1.75	0.000	0.001	0.001	0.000	10/11/2024	11:53
3	CCV1	0.5	1	100	100	7.43	1.96	0.000	0.383	0.383	0.499	10/11/2024	11:54
4	CCB1		1	100	100	7.30	1.79	0.000	0.000	0.000	-0.002	10/11/2024	11:55
5	RL Check	0.01	1	100	100	7.40	1.91	0.000	0.010	0.010	0.012	10/11/2024	11:56
6	PB164052BL		1	2.50	100	7.29	1.77	0.000	0.000	0.000	-0.002	10/11/2024	11:57
7	PB164052BS	20	1	2.50	100	7.43	1.96	0.000	0.384	0.384	0.501	10/11/2024	11:58
8	P4258-03		1	2.53	100	7.56	2.10	0.004	0.005	0.001	0.000	10/11/2024	11:59
9	P4368-01		1	2.50	100	7.52	2.02	0.000	0.005	0.005	0.005	10/11/2024	12:00
10	P4368-02		1	2.50	100	7.50	2.02	0.000	0.009	0.009	0.010	10/11/2024	12:01
11	P4377-01		1	2.53	100	7.56	2.06	0.001	0.002	0.001	0.000	10/11/2024	12:02
12	P4377-01DU		1	2.52	100	7.52	2.10	0.001	0.002	0.001	0.000	10/11/2024	12:03
13	P4377-01MS	40	2	2.53	100	7.52	2.06	0.000	0.299	0.299	0.389	10/11/2024	12:04
14	P4377-01MS	1284	40	2.54	100	7.58	2.08	0.000	0.579	0.579	0.756	10/11/2024	12:05
15	P4377-01MS	40	2	2.54	100	7.60	2.12	0.000	0.369	0.369	0.481	10/11/2024	12:06
16	CCV2	0.5	1	100	100	7.45	1.93	0.000	0.386	0.386	0.503	10/11/2024	12:07
17	CCB2		1	100	100	7.30	1.94	0.000	0.000	0.000	-0.002	10/11/2024	12:08
18	P4385-02		1	2.51	100	7.60	2.10	0.006	0.006	0.000	-0.002	10/11/2024	12:09
19	P4385-04		1	2.52	100	7.52	2.06	0.005	0.006	0.001	0.000	10/11/2024	12:10
20	P4385-06		1	2.54	100	7.56	2.06	0.006	0.006	0.000	-0.002	10/11/2024	12:11
21	P4385-08		1	2.52	100	7.60	2.12	0.002	0.002	0.000	-0.002	10/11/2024	12:12
22	P4385-10		1	2.52	100	7.52	2.10	0.003	0.004	0.001	0.000	10/11/2024	12:13
23	P4385-12		1	2.54	100	7.58	2.14	0.004	0.005	0.001	0.000	10/11/2024	12:14
24	P4385-14		1	2.51	100	7.52	2.06	0.006	0.008	0.002	0.001	10/11/2024	12:15
25	P4385-16		1	2.51	100	7.52	2.10	0.008	0.008	0.000	-0.002	10/11/2024	12:16
26	P4385-18		1	2.53	100	7.58	2.06	0.007	0.008	0.001	0.000	10/11/2024	12:17
27	P4385-20		1	2.52	100	7.60	2.12	0.006	0.006	0.000	-0.002	10/11/2024	12:18
28	CCV3	0.5	1	100	100	7.41	1.92	0.000	0.383	0.383	0.499	10/11/2024	12:19
29	CCB3		1	100	100	7.27	1.75	0.000	0.001	0.001	0.000	10/11/2024	12:20

Analytical Summary Report

Analysis Method: 9095B
Parameter: Paint Filter
Run Number: LB132919

Reviewed By: rubina
Supervisor Review By: Iwona
BalanceID: WC SC-4

Seq	LabID	ClientID	Dilution	Weight(g)	Inst. Conc (ml/100g)	Anal Date	Anal Time
1	P4376-01	OR-02-100924	1	100.04	0.00	10/14/2024	09:00
2	P4377-01	HD-01-100924	1	100.02	0.00	10/14/2024	09:07
3	P4385-02	SP-1	1	100.06	0.00	10/14/2024	09:15
4	P4385-04	SP-2	1	100.02	0.00	10/14/2024	09:22
5	P4385-06	SP-3	1	100.04	0.00	10/14/2024	09:30
6	P4385-08	SP-4	1	100.03	0.00	10/14/2024	09:38
7	P4385-10	SP-5	1	100.06	0.00	10/14/2024	09:45
8	P4385-12	SP-6	1	100.04	0.00	10/14/2024	09:52
9	P4385-14	SP-7	1	100.02	0.00	10/14/2024	10:00
10	P4385-16	SP-8	1	100.06	0.00	10/14/2024	10:08
11	P4385-18	SP-9	1	100.07	0.00	10/14/2024	10:15
12	P4385-20	SP-10	1	100.06	0.00	10/14/2024	10:30
13	P4395-01	F05308-SOLID	1	100.02	0.00	10/14/2024	10:38
14	P4395-01DUP	F05308-SOLIDDUP	1	100.02	0.00	10/14/2024	10:45

LB13292

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

10/14/2024 14:52

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	100.116	0.0	0.073	
ICB1	-0.315	0.0	0.002	
CCV1	250.493	0.0	0.180	
CCB1	-0.597	0.0	0.002	
PB164122BL	-0.813	0.0	0.002	
PB164122BS	100.618	0.0	0.074	
LOWPB164122	9.656	0.0	0.009	
HIGHPB164122	505.057	0.0	0.360	
P4385-02	-0.853	0.0	0.002	
P4385-04	-0.763	0.0	0.002	
P4385-06	-0.473	0.0	0.002	
P4385-08	-0.466	0.0	0.002	
CCV2	255.834	0.0	0.184	
CCB2	-0.644	0.0	0.002	
P4385-10	-0.590	0.0	0.002	
P4385-12	-0.914	0.0	0.002	
P4385-14	-0.457	0.0	0.002	
P4385-16	0.305	0.0	0.002	
P4385-18	1.015	0.0	0.003	
P4385-20	0.998	0.0	0.003	
P4385-20DUP	0.097	0.0	0.002	
P4385-20MS	38.205	0.0	0.029	
P4385-20MSD	37.410	0.0	0.029	
CCV3	254.770	0.0	0.183	
CCB3	-0.562	0.0	0.002	
P4368-03	2.088	0.0	0.004	
P4368-03RE	4.323	0.0	0.005	
PB164142BL	-0.864	0.0	0.002	
PB164142BS	101.531	0.0	0.074	
P4368-09	2.071	0.0	0.004	
P4368-09RE	4.014	0.0	0.005	
CCV4	264.819	0.0	0.190	
CCB4	-0.571	0.0	0.002	

96% (90-110)
101% (90-110) 10/14/2024
RM

N 33
Mean 58.319
SD 117.1989
CV% 200.96

Aquakem v. 7.2AQ1

Results from time period:

Mon Oct 14 13:18:44 2024

Mon Oct 14 14:40:46 2024

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	-1.2571	µg/l	10/14/2024 10:09:54	
5.0PPBCN	A	Total CN	P	3.7814	µg/l	10/14/2024 10:09:55	
10PPBCN	A	Total CN	P	9.144	µg/l	10/14/2024 10:09:56	
50PPBCN	A	Total CN	P	49.4812	µg/l	10/14/2024 10:09:57	
100PPBCN	A	Total CN	P	101.9826	µg/l	10/14/2024 10:09:58	
250PPBCN	A	Total CN	P	254.3665	µg/l	10/14/2024 10:09:59	
500PPBCN	A	Total CN	P	497.5014	µg/l	10/14/2024 10:10:00	
ICV1	S	Total CN	P	100.1164	µg/l	10/14/2024 13:18:44	
ICB1	S	Total CN	P	-0.3153	µg/l	10/14/2024 13:18:47	
CCV1	S	Total CN	P	250.4929	µg/l	10/14/2024 13:18:48	
CCB1	S	Total CN	P	-0.5971	µg/l	10/14/2024 13:18:50	
PB164122BL	S	Total CN	P	-0.8131	µg/l	10/14/2024 13:18:52	
PB164122BS	S	Total CN	P	100.6182	µg/l	10/14/2024 13:26:19	
LOWPB164122	S	Total CN	P	9.6564	µg/l	10/14/2024 13:26:21	
HIGHPB164122	S	Total CN	P	505.0567	µg/l	10/14/2024 13:26:22	
P4385-02	S	Total CN	P	-0.8533	µg/l	10/14/2024 13:33:54	
P4385-04	S	Total CN	P	-0.7628	µg/l	10/14/2024 13:33:55	
P4385-06	S	Total CN	P	-0.4728	µg/l	10/14/2024 13:33:56	
P4385-08	S	Total CN	P	-0.4656	µg/l	10/14/2024 13:33:57	
CCV2	S	Total CN	P	255.834	µg/l	10/14/2024 13:33:58	
CCB2	S	Total CN	P	-0.6436	µg/l	10/14/2024 13:34:00	
P4385-10	S	Total CN	P	-0.5902	µg/l	10/14/2024 13:34:02	
P4385-12	S	Total CN	P	-0.9141	µg/l	10/14/2024 13:34:03	
P4385-14	S	Total CN	P	-0.4569	µg/l	10/14/2024 13:34:04	
P4385-16	S	Total CN	P	0.3055	µg/l	10/14/2024 13:41:26	
P4385-18	S	Total CN	P	1.0153	µg/l	10/14/2024 13:41:27	
P4385-20	S	Total CN	P	0.9982	µg/l	10/14/2024 13:41:28	
P4385-20DUP	S	Total CN	P	0.0969	µg/l	10/14/2024 13:41:31	
P4385-20MS	S	Total CN	P	38.2051	µg/l	10/14/2024 13:41:32	
P4385-20MSD	S	Total CN	P	37.4097	µg/l	10/14/2024 13:41:33	
CCV3	S	Total CN	P	254.77	µg/l	10/14/2024 13:41:36	
CCB3	S	Total CN	P	-0.5615	µg/l	10/14/2024 13:46:14	
P4368-03	S	Total CN	P	2.0881	µg/l	10/14/2024 14:35:56	
P4368-03RE	S	Total CN	P	4.3235	µg/l	10/14/2024 14:35:58	
PB164142BL	S	Total CN	P	-0.864	µg/l	10/14/2024 14:36:01	
PB164142BS	S	Total CN	P	101.5307	µg/l	10/14/2024 14:36:02	
P4368-09	S	Total CN	P	2.0712	µg/l	10/14/2024 14:36:03	
P4368-09RE	S	Total CN	P	4.0144	µg/l	10/14/2024 14:40:42	
CCV4	S	Total CN	P	264.8187	µg/l	10/14/2024 14:40:43	
CCB4	S	Total CN	P	-0.5714	µg/l	10/14/2024 14:40:45	

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

10/14/2024 10:20

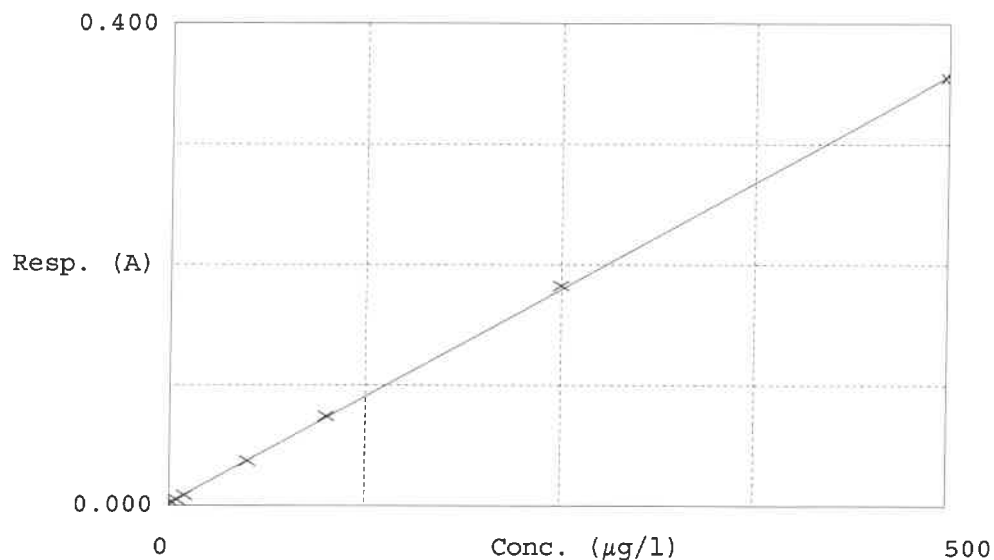
Test Total CN

Accepted 10/14/2024 10:20

Factor 1410
Bias 0.002

Coeff. of det. 0.999838

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	-1.2571	0.0000	-
2	5.0PPBCN	0.005	3.7814	5.0000	-24.4
3	10PPBCN	0.009	9.1440	10.0000	-8.6
4	50PPBCN	0.037	49.4812	50.0000	-1.0
5	100PPBCN	0.075	101.9826	100.0000	-2.6
6	250PPBCN	0.183	254.3665	250.0000	1.7
7	500PPBCN	0.355	497.5014	500.0000	-0.5

10/14/2024

RM

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

SDG No : N/A

Start Digest Date: 10/11/2024 Time : 08:45 Temp : 90 °C

Matrix : SOIL

End Digest Date: 10/11/2024 Time : 09:45 Temp : 95 °C

Pipette ID : WC

I batch 10/11/2024 10:00 90°C
10/11/2024 11:00 95°C *RM*

Balance ID : WC SC-4

Hood ID : HOOD#3

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

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

Filter paper ID : 400213

Prep Technician Signature: *RM*

Weigh By : 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	50.0ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3001
PHOSPHATE BUFFER	0.5ML	WP108008
HEX. DIGESTION SOLN.	50ML	WP110092
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	WP110145
CAL3	CAL3	0.5ML	WP110145
CAL4	CAL4	1ML	WP110145
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:

10/11/2024 RM

N/A

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
P4258-03	CHAMBERLAIN AVE	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4368-01	LOD-MDL-SOIL-01-QT4-2024	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
P4368-02	LOQ-SOIL-02-QT4-2024	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
P4377-01	HD-01-100924	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4377-01DUP	HD-01-100924DUP	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4377-01MSPre	HD-01-100924MSPRE	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4377-01MS2Ins	HD-01-100924MS2INS	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4377-01MS3Post	HD-01-100924MS3POST	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-02	SP-1	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-04	SP-2	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-06	SP-3	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-08	SP-4	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-10	SP-5	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-12	SP-6	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-14	SP-7	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-16	SP-8	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-18	SP-9	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4385-20	SP-10	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164052BL	PBS052	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164052BS	LCS052	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : HEX-10-10 WorkList ID : 184326 Department : Distillation Date : 10-10-2024 17:00:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4258-03	Chamberlain Ave	Solid	Hexavalent Chromium	Cool 4 deg C	ROMA02	K11	10/01/2024	7196A
P4368-01	LOD-MDL-SOIL-01-QT4-2024	Solid	Hexavalent Chromium	Cool 4 deg C	CHEM02	QA 01	10/09/2024	7196A
P4368-02	LOQ-SOIL-02-QT4-2024	Solid	Hexavalent Chromium	Cool 4 deg C	CHEM02	QA 01	10/09/2024	7196A
P4377-01	HD-01-100924	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG05	K21	10/09/2024	7196A
P4385-02	SP-1	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-04	SP-2	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-06	SP-3	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-08	SP-4	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-10	SP-5	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-12	SP-6	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-14	SP-7	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-16	SP-8	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-18	SP-9	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A
P4385-20	SP-10	Solid	Hexavalent Chromium	Cool 4 deg C	SCHE03	K51	10/10/2024	7196A

Date/Time 10/11/2024 08:10
 Raw Sample Received by: RM CWU
 Raw Sample Relinquished by: RM CWU

Date/Time 10/11/2024 10:10
 Raw Sample Received by: RM CWU
 Raw Sample Relinquished by: RM CWU

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Start Digest Date: 10/14/2024 Time : 08:30 Temp : 123 °C

Matrix : SOIL

End Digest Date: 10/14/2024 Time : 10:00 Temp : 126 °C

Pipette ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : MC-1,MC-2

Filter paper ID : N/A

Prep Technician Signature:

Weigh By : JP

pH Meter ID : N/A

Supervisor Signature:

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP109549
MS/MSD SPIKE SOL.	0.4ML	WP110035
PBS003	50.0ML	W3112
MDL	1.25ML	WP110192
MDL	2.0ML	WP110192

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP108640
50% v/v H2SO4	5.0ML	WP108076
51% w/v MgCL2	2.0ML	WP108075
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
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5	W3011
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	5.0ML	WP110035
LOWSTD	LOWSTD	0.1ML	WP110035

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/14/2024 10:15	JP / WC	RM (wc)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4368-03	MDL-SOIL-03-QT4-2024	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-02	SP-1	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-04	SP-2	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-06	SP-3	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-08	SP-4	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-10	SP-5	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-12	SP-6	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-14	SP-7	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-16	SP-8	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-18	SP-9	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-20	SP-10	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-20DUP	SP-10DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-20MS	SP-10MS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4385-20MSD	SP-10MSD	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164122BL	PBS122	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164122BS	LCS122	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : cn p4385 WorkList ID : 184350 Department : Distillation Date : 10-11-2024 08:59:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4368-03	MDL-SOIL-03-QT4-2024	Solid	Cyanide	Cool 4 deg C	CHEM02	QA Of	10/09/2024	9012B
P4385-02	SP-1	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-04	SP-2	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-06	SP-3	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-08	SP-4	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-10	SP-5	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-12	SP-6	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-14	SP-7	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-16	SP-8	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-18	SP-9	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B
P4385-20	SP-10	Solid	Cyanide	Cool 4 deg C	SCHE03	K51	10/10/2024	9012B

Date/Time 10/14/2024 07:45
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 10/14/2024 09:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB132883

Review By	jignesh	Review On	10/11/2024 9:06:13 AM
Supervise By	Iwona	Supervise On	10/11/2024 10:14:09 AM
SubDirectory	LB132883	Test	pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3107,W3093,W3094,W3071,W3005,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/11/24 08:50		Jignesh	OK
2	CAL2	CAL2	CAL	10/11/24 08:51		Jignesh	OK
3	CAL3	CAL3	CAL	10/11/24 08:53		Jignesh	OK
4	ICV	ICV	ICV	10/11/24 08:55		Jignesh	OK
5	CCV1	CCV1	CCV	10/11/24 09:00		Jignesh	OK
6	P4385-02	SP-1	SAM	10/11/24 09:10		Jignesh	OK
7	P4385-02DUP	SP-1DUP	DUP	10/11/24 09:11		Jignesh	OK
8	P4385-04	SP-2	SAM	10/11/24 09:15		Jignesh	OK
9	P4385-06	SP-3	SAM	10/11/24 09:18		Jignesh	OK
10	P4385-08	SP-4	SAM	10/11/24 09:20		Jignesh	OK
11	P4385-10	SP-5	SAM	10/11/24 09:25		Jignesh	OK
12	P4385-12	SP-6	SAM	10/11/24 09:30		Jignesh	OK
13	P4385-14	SP-7	SAM	10/11/24 09:33		Jignesh	OK
14	P4385-16	SP-8	SAM	10/11/24 09:36		Jignesh	OK
15	P4385-18	SP-9	SAM	10/11/24 09:44		Jignesh	OK
16	CCV2	CCV2	CCV	10/11/24 09:47		Jignesh	OK
17	P4385-20	SP-10	SAM	10/11/24 09:50		Jignesh	OK
18	CCV3	CCV3	CCV	10/11/24 09:51		Jignesh	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB132887

Review By	rubina	Review On	10/11/2024 12:50:38 PM
Supervise By	Iwona	Supervise On	10/11/2024 2:07:39 PM
SubDirectory	LB132887	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	WP110108,WP107791,WP107796,WP108645		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/11/24 11:45		rubina	OK
2	CAL2	CAL2	CAL	10/11/24 11:46		rubina	OK
3	CAL3	CAL3	CAL	10/11/24 11:47		rubina	OK
4	CAL4	CAL4	CAL	10/11/24 11:48		rubina	OK
5	CAL5	CAL5	CAL	10/11/24 11:49		rubina	OK
6	CAL6	CAL6	CAL	10/11/24 11:50		rubina	OK
7	CAL7	CAL7	CAL	10/11/24 11:51		rubina	OK
8	ICV	ICV	ICV	10/11/24 11:52		rubina	OK
9	ICB	ICB	ICB	10/11/24 11:53		rubina	OK
10	CCV1	CCV1	CCV	10/11/24 11:54		rubina	OK
11	CCB1	CCB1	CCB	10/11/24 11:55		rubina	OK
12	RL Check	RL Check	SAM	10/11/24 11:56		rubina	OK
13	PB164052BL	PB164052BL	MB	10/11/24 11:57		rubina	OK
14	PB164052BS	PB164052BS	LCS	10/11/24 11:58		rubina	OK
15	P4258-03	Chamberlain Ave	SAM	10/11/24 11:59		rubina	OK
16	P4368-01	LOD-MDL-SOIL-01-Q	SAM	10/11/24 12:00		rubina	OK
17	P4368-02	LOQ-SOIL-02-QT4-20	SAM	10/11/24 12:01		rubina	OK
18	P4377-01	HD-01-100924	SAM	10/11/24 12:02		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB132887

Review By	rubina	Review On	10/11/2024 12:50:38 PM
Supervise By	Iwona	Supervise On	10/11/2024 2:07:39 PM
SubDirectory	LB132887	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	WP110108,WP107791,WP107796,WP108645		

19	P4377-01DUP	HD-01-100924DUP	DUP	10/11/24 12:03		rubina	OK
20	P4377-01MSPre	HD-01-100924MS	MS	10/11/24 12:04		rubina	OK
21	P4377-01MS2Ins	HD-01-100924MS	MS	10/11/24 12:05		rubina	OK
22	P4377-01MS3Post	HD-01-100924MS	MS	10/11/24 12:06		rubina	OK
23	CCV2	CCV2	CCV	10/11/24 12:07		rubina	OK
24	CCB2	CCB2	CCB	10/11/24 12:08		rubina	OK
25	P4385-02	SP-1	SAM	10/11/24 12:09		rubina	OK
26	P4385-04	SP-2	SAM	10/11/24 12:10		rubina	OK
27	P4385-06	SP-3	SAM	10/11/24 12:11		rubina	OK
28	P4385-08	SP-4	SAM	10/11/24 12:12		rubina	OK
29	P4385-10	SP-5	SAM	10/11/24 12:13		rubina	OK
30	P4385-12	SP-6	SAM	10/11/24 12:14		rubina	OK
31	P4385-14	SP-7	SAM	10/11/24 12:15		rubina	OK
32	P4385-16	SP-8	SAM	10/11/24 12:16		rubina	OK
33	P4385-18	SP-9	SAM	10/11/24 12:17		rubina	OK
34	P4385-20	SP-10	SAM	10/11/24 12:18		rubina	OK
35	CCV3	CCV3	CCV	10/11/24 12:19		rubina	OK
36	CCB3	CCB3	CCB	10/11/24 12:20		rubina	OK

Instrument ID: FILTER/GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB132919

Review By	rubina	Review On	10/14/2024 11:37:12 AM
Supervise By	Iwona	Supervise On	10/14/2024 11:37:37 AM
SubDirectory	LB132919	Test	Paint Filter
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	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	P4376-01	OR-02-100924	SAM	10/14/24 09:00			OK
2	P4377-01	HD-01-100924	SAM	10/14/24 09:07			OK
3	P4385-02	SP-1	SAM	10/14/24 09:15			OK
4	P4385-04	SP-2	SAM	10/14/24 09:22			OK
5	P4385-06	SP-3	SAM	10/14/24 09:30			OK
6	P4385-08	SP-4	SAM	10/14/24 09:38			OK
7	P4385-10	SP-5	SAM	10/14/24 09:45			OK
8	P4385-12	SP-6	SAM	10/14/24 09:52			OK
9	P4385-14	SP-7	SAM	10/14/24 10:00			OK
10	P4385-16	SP-8	SAM	10/14/24 10:08			OK
11	P4385-18	SP-9	SAM	10/14/24 10:15			OK
12	P4385-20	SP-10	SAM	10/14/24 10:30			OK
13	P4395-01	F05308-SOLID	SAM	10/14/24 10:38			OK
14	P4395-01DUP	F05308-SOLIDDUP	DUP	10/14/24 10:45			OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB132925

Review By	rubina	Review On	10/15/2024 9:59:34 AM
Supervise By	Iwona	Supervise On	10/15/2024 11:22:33 AM
SubDirectory	LB132925	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP110183,WP110184,WP110185,WP110186,WP110187,WP110188,WP110189		
ICV Standard	W3011		
CCV Standard	WP110184		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP109549		
Chk Standard	WP110103,WP109068,WP110191,WP110192		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/14/24 10:09		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/14/24 10:09		rubina	OK
3	10PPBCN	10PPBCN	CAL3	10/14/24 10:09		rubina	OK
4	50PPBCN	50PPBCN	CAL4	10/14/24 10:09		rubina	OK
5	100PPBCN	100PPBCN	CAL5	10/14/24 10:09		rubina	OK
6	250PPBCN	250PPBCN	CAL6	10/14/24 10:09		rubina	OK
7	500PPBCN	500PPBCN	CAL7	10/14/24 10:10		rubina	OK
8	ICV1	ICV1	ICV	10/14/24 13:18		rubina	OK
9	ICB1	ICB1	ICB	10/14/24 13:18		rubina	OK
10	CCV1	CCV1	CCV	10/14/24 13:18		rubina	OK
11	CCB1	CCB1	CCB	10/14/24 13:18		rubina	OK
12	PB164122BL	PB164122BL	MB	10/14/24 13:18		rubina	OK
13	PB164122BS	PB164122BS	LCS	10/14/24 13:26		rubina	OK
14	LOWPB164122	LOWPB164122	SAM	10/14/24 13:26		rubina	OK
15	HIGHPB164122	HIGHPB164122	SAM	10/14/24 13:26		rubina	OK
16	P4385-02	SP-1	SAM	10/14/24 13:33		rubina	OK
17	P4385-04	SP-2	SAM	10/14/24 13:33		rubina	OK
18	P4385-06	SP-3	SAM	10/14/24 13:33		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB132925

Review By	rubina	Review On	10/15/2024 9:59:34 AM
Supervise By	Iwona	Supervise On	10/15/2024 11:22:33 AM
SubDirectory	LB132925	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP110183,WP110184,WP110185,WP110186,WP110187,WP110188,WP110189		
ICV Standard	W3011		
CCV Standard	WP110184		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP109549		
Chk Standard	WP110103,WP109068,WP110191,WP110192		

19	P4385-08	SP-4	SAM	10/14/24 13:33		rubina	OK
20	CCV2	CCV2	CCV	10/14/24 13:33		rubina	OK
21	CCB2	CCB2	CCB	10/14/24 13:34		rubina	OK
22	P4385-10	SP-5	SAM	10/14/24 13:34		rubina	OK
23	P4385-12	SP-6	SAM	10/14/24 13:34		rubina	OK
24	P4385-14	SP-7	SAM	10/14/24 13:34		rubina	OK
25	P4385-16	SP-8	SAM	10/14/24 13:41		rubina	OK
26	P4385-18	SP-9	SAM	10/14/24 13:41		rubina	OK
27	P4385-20	SP-10	SAM	10/14/24 13:41		rubina	OK
28	P4385-20DUP	SP-10DUP	DUP	10/14/24 13:41		rubina	OK
29	P4385-20MS	SP-10MS	MS	10/14/24 13:41		rubina	OK
30	P4385-20MSD	SP-10MSD	MSD	10/14/24 13:41		rubina	OK
31	CCV3	CCV3	CCV	10/14/24 13:41		rubina	OK
32	CCB3	CCB3	CCB	10/14/24 13:46		rubina	OK
33	P4368-03	MDL-SOIL-03-QT4-20	SAM	10/14/24 14:35		rubina	OK
34	P4368-03RE	MDL-SOIL-03-QT4-20	SAM	10/14/24 14:35		rubina	OK
35	PB164142BL	PB164142BL	MB	10/14/24 14:36		rubina	OK
36	PB164142BS	PB164142BS	LCS	10/14/24 14:36		rubina	OK
37	P4368-09	MDL-WATER-03-QT4	SAM	10/14/24 14:36		rubina	OK
38	P4368-09RE	MDL-WATER-03-QT4	SAM	10/14/24 14:40		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB132925

Review By	rubina	Review On	10/15/2024 9:59:34 AM
Supervise By	Iwona	Supervise On	10/15/2024 11:22:33 AM
SubDirectory	LB132925	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP110183,WP110184,WP110185,WP110186,WP110187,WP110188,WP110189		
ICV Standard	W3011		
CCV Standard	WP110184		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP109549		
Chk Standard	WP110103,WP109068,WP110191,WP110192		

39	CCV4	CCV4	CCV	10/14/24 14:40		rubina	OK
40	CCB4	CCB4	CCB	10/14/24 14:40		rubina	OK

Prep Standard - Chemical Standard Summary

Order ID : P4385

Test : Cyanide,Hexavalent Chromium,Paint Filter,Percent Solids,pH,Trivalent Chromium

Prepbatch ID : PB164052,PB164122,

Sequence ID/Qc Batch ID: LB132883,LB132887,LB132919,LB132925,LB133018,

Standard ID :

WP107791,WP107796,WP108008,WP108075,WP108076,WP108640,WP108645,WP108658,WP108659,WP109068,W
P109549,WP110035,WP110092,WP110103,WP110108,WP110182,WP110183,WP110184,WP110185,WP110186,WP1
10187,WP110188,WP110189,WP110191,WP110192,

Chemical ID :

E3657,E3788,M5211,M5673,M5878,M5929,M5947,M5954,W2202,W2511,W2606,W2651,W2652,W2668,W2699,W288
2,W2979,W3001,W3005,W3011,W3019,W3058,W3071,W3072,W3093,W3094,W3107,W3112,W3113,W3138,W3139,
W3142,

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



<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_S CALE_5 (WC SC-5)	None	Iwona Zarych 05/20/2024
<u>FROM</u> 0.84500L of W2606 + 68.04000gram of W2699 + 87.09000gram of W2511 = 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>
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP108075	05/22/2024	10/24/2024	Rubina Mughal	WETCHEM_SCALE_5 (WC-5)	None	Iwona Zarych 05/24/2024
<u>FROM</u> 500.00000ml of W2606 + 510.00000gram of W3001 = 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>
1714	Sulfuric Acid, 50% (v/v)	WP108076	05/22/2024	10/24/2024	Rubina Mughal	None	None	Iwona Zarych
								05/24/2024

FROM 1000.00000ml of M5673 + 1000.00000ml of W2606 = Final Quantity: 2000.000 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>
11	Sodium hydroxide absorbing solution 0.25 N	WP108640	07/05/2024	01/05/2025	Rubina Mughal	WETCHEM_SCALE_4 (WC SC-4)	None	Iwona Zarych
								07/08/2024

FROM 21.00000L of W3112 + 210.00000gram of E3657 = Final Quantity: 21.000 L

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>
3354	Hexchrome Cleaning Solution	WP108645	07/05/2024	12/27/2024	Rubina Mughal	None	None	Iwona Zarych
								07/08/2024

FROM 182.00000ml of M5947 + 727.00000ml of W3112 + 91.00000ml of M5954 = 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>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP108658	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych
								07/09/2024

FROM 0.14140gram of W2651 + 1000.00000ml 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>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP108659	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 07/09/2024
<u>FROM</u> 0.14140gram of W2652 + 1000.00000ml 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>
607	PYRIDINE-BARBITURIC ACID	WP109068	08/06/2024	12/08/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 08/07/2024
<u>FROM</u>	145.00000ml of W3112 + 15.00000gram of W2882 + 15.00000ml of M5929 + 75.00000ml of W3019 = Final Quantity: 250.000 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>
3371	Cyanide LCS Spike Solution, 5PPM	WP109549	09/06/2024	01/05/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 09/06/2024
<u>FROM</u> 1.00000ml of W3138 + 199.00000ml of WP108640 = Final Quantity: 200.000 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>
3850	Cyanide MS-MSD spiking solution, 5PPM	WP110035	10/03/2024	11/30/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/04/2024
<u>FROM</u>	1.00000ml of W3142 + 199.00000ml of WP108640 = Final Quantity: 200.000 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>
148	hexchrome digestion fluid	WP110092	10/08/2024	11/08/2024	Rubina Mughal	WETCHEM_S CALE_4 (WC SC-4)	None	Iwona Zarych 10/08/2024
<u>FROM</u>	120.00000gram of W3058 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 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>
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 10/08/2024
FROM 138.00000gram of W2668 + 862.00000ml 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>
114	hexavalent chromium color reagent	WP110108	10/09/2024	10/16/2024	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych 10/09/2024
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>
3456	Cyanide Intermediate Working Std, 5PPM	WP110182	10/14/2024	10/15/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/15/2024
<u>FROM</u> 0.25000ml of W3142 + 49.75000ml of WP108640 = 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>
4	Calibration standard 500 ppb	WP110183	10/14/2024	10/15/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/15/2024
FROM 45.00000ml of WP108640 + 5.00000ml of WP110182 = 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>
3761	Calibration-CCV CN Standard 250 ppb	WP110184	10/14/2024	10/15/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/15/2024
<u>FROM</u> 2.50000ml of WP110182 + 47.50000ml of WP108640 = 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>
6	Calibration Standard 100 ppb	WP110185	10/14/2024	10/15/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 1.00000ml of WP110182 + 49.00000ml of WP108640 = 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>
7	Calibration Standard 50 ppb	WP110186	10/14/2024	10/15/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/15/2024
<u>FROM</u> 0.50000ml of WP110182 + 49.50000ml of WP108640 = 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>
8	Calibration Standard 10 ppb	WP110187	10/14/2024	10/15/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/15/2024
<u>FROM</u> 1.00000ml of WP110183 + 49.00000ml of WP108640 = 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>
9	Calibration Standard 5 ppb	WP110188	10/14/2024	10/15/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/15/2024
FROM 0.50000ml of WP110183 + 49.50000ml of WP108640 = Final Quantity: 50.000 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>
167	0 ppb CN calibration std	WP110189	10/14/2024	10/15/2024	Rubina Mughal	None	None	Iwona Zarych
								10/15/2024

FROM 50.00000ml of WP108640 = 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>
1582	Chloramine T solution, 0.014M	WP110191	10/14/2024	10/15/2024	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	Glass Pipette-A	Iwona Zarych
								10/15/2024

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = 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>
1649	Cyanide LOD LOQ Spike Std, 100ppb	WP110192	10/14/2024	10/15/2024	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 10/15/2024
<u>FROM</u>	1.00000ml of WP109549 + 49.00000ml of WP108640 = Final Quantity: 50.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

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	04/01/2025	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 /	04/26/2022 / mohan	M5211

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)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

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	12/08/2024	06/24/2024 / Al-Terek	06/07/2024 / Al-Terek	M5929

CHEMICAL RECEIPT LOG BOOK

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

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

CHEMICAL RECEIPT LOG BOOK

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.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYST, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

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.	EM-BX0035-3 / Barbituric Acid, 100 gms	1.00132.0100	04/30/2025	12/07/2021 /	11/30/2021 / apatel	W2882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazide	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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2024	01/03/2024 / Iwona	02/20/2020 / Iwona	W3011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019

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	2023012653	10/19/2028	09/03/2024 / jignesh	10/19/2023 / Iwona	W3058

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

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

CHEMICAL RECEIPT LOG BOOK

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

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

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

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	44080060	01/30/2025	09/06/2024 / lwona	08/28/2024 / lwona	W3138

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1405J81	11/30/2024	09/25/2024 / Iwona	09/25/2024 / Iwona	W3142

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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Fax : (F) +91-265-2638038
E-mail : info@cpcindia.com
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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This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.

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, FSSC22000
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

W3071
Rec 12/6/23

Certificate of Analysis 12

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

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023

Expiration Date: JUL 2025

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

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

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (08/09/2023)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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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

W3019
rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

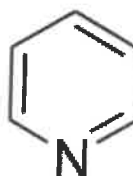
C₅H₅N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 99.75 %	99.99 %
Water (by Karl Fischer)	≤ 0.003 %	0.002 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001 %


Larry Coers, Director
Quality Control
Sheboygan Falls, 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.



Certificate Of Analysis



W 3058

Re. 10/19/23 12

Date of Release: 1/27/2023

Name: **Sodium Carbonate, Anhydrous**

Powder, ACS

Item No: **SX0395 All Sizes**

Lot / Batch No: **2023012653**

Country of Origin: **India**

Item	Specifications	Analysis
Assay (calculated on dried substance)	99.5% min.	100.2%
Calcium (Ca)	0.03% max.	0.004%
Chloride (Cl)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Powder	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Insoluble Matter	0.01% max.	0.003%
Iron (Fe)	5 ppm max.	<5 ppm
Loss on heating at 285C	1.0% max.	0.1%
Magnesium (Mg)	0.005% max.	0.0008%
Phosphate (PO ₄)	0.001% max.	<0.001%
Potassium (K)	0.005% max.	0.003%
Silica (SiO ₂)	0.005% max.	<0.005%
Sulfur compounds (as SO ₄)	0.003% max.	<0.003%

Joe Schoellkopf

Quality Control Manager

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EMD Millipore Corporation

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W 3072
REC. 12/01/23
12

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C**Lot Number: 2310P21****Product Number: 1615****Manufacture Date: OCT 24, 2023****Expiration Date: APR 2025**

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

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

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

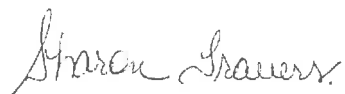
*Not a certified value.

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

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

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

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



Sharon Travers (10/24/2023)

Operations Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

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

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

Catalog Number	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

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	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

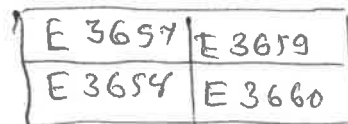
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Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

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

Product meets analytical specifications of the grades listed.



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



R: 02/20/20
53

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415

For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400

For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-1014		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2520	504
Sb	1010	202
As	997	199
Ba	518	104
Be	514	103
Cd	514	103
Ca	10000	2000
Cr	517	103
Co	521	104
Cu	505	101
Fe	10100	2020
Pb	1030	206
Mg	5990	1198
Mn	524	105
Ni	525	105
K	9940	1988
Se	1030	206
Ag	252	50
Na	10100	2020
Tl	1040	208
V	504	101
Zn	1010	202

ICV5-0415		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

W3011
W3012
W3013
W3014
W3015

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

A handwritten signature in cursive script that reads 'Jamie Ethier'.
Jamie Ethier
Vice President Global Quality

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

 **avantor**™



Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.1 %
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	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 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	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 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	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

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

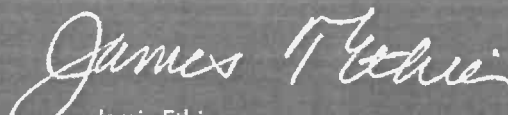


Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 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	0.4 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

 **avantorsm**



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

 **avantors**™



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

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Hydrochloric Acid, 36.5–38.0%

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

 **avantorsm**

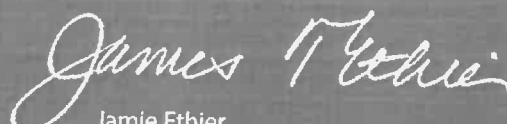


Material No.: 9530-33
Batch No.: 22G2862015

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

avantor™



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 >>>

Nitric Acid 69%
CMOS



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
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For Microelectronic Use

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

A handwritten signature in cursive script that reads 'JCroak'.

Jamie Croak
Director Quality Operations, Bioscience Production



Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE®
Batch N020065932

	Spec. Values		Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (Cl)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

Date of release (DD.MM.YYYY) 17.04.2020
Minimum shelf life (DD.MM.YYYY) 30.04.2025

Ioannis Chartomatsidis
Responsible laboratory manager quality control

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Sodium Phosphate, Monobasic, Monohydrate,
Crystal
BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)



Material No.: 3818-05
Batch No.: 0000225799
Manufactured Date: 2018/12/05
Retest Date: 2025/12/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$)	98.0 – 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 – 4.5	4.3
Insoluble Matter	$\leq 0.01 \%$	< 0.01
Chloride (Cl)	$\leq 5 \text{ ppm}$	< 5
ACS – Sulfate (SO_4)	$\leq 0.003 \%$	< 0.003
Calcium (Ca)	$\leq 0.005 \%$	< 0.005
Potassium (K)	$\leq 0.01 \%$	< 0.01
Heavy Metals (as Pb)	$\leq 0.001 \%$	< 0.001
Trace Impurities – Iron (Fe)	$\leq 0.001 \%$	< 0.001

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

Country of Origin: IN
Packaging Site: Paris 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

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

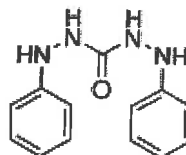
C₁₃H₁₄N₄O

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.



**RICCA CHEMICAL COMPANY®**

W 3005

REC- 1/31/23

12

1490 Lammers Pike

Batesville, IN 47006

<http://www.riccachemical.com>

1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C**Lot Number: 4212E45****Product Number: 1493****Manufacture Date: DEC 20, 2022****Expiration Date: DEC 2024**

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

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

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

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

*Not a certified value.

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

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

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

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



Paul Brandon (12/20/2022)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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**RICCA CHEMICAL COMPANY®**

1490 Lammers Pike

Batesville, IN 47006

<http://www.riccachemical.com>

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customerservice@riccachemical.com

Certificate of Analysis

W3093
004121
04/03/2024
16

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)**Lot Number:** 4401F99**Product Number:** 1551**Manufacture Date:** JAN 08, 2024**Expiration Date:** DEC 2025

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

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

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

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

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (01/08/2024)

Production Manager

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This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis

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

Lot Number: 4310G83

Product Number: 1601

Manufacture Date: OCT 09, 2023

Expiration Date: MAR 2025

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

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

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

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

Test	Specification	Result
Appearance	Blue liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (10/09/2023)

Production Manager

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This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis

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

Lot Number: 4403F90

Product Number: 1501

Manufacture Date: MAR 09, 2024

Expiration Date: FEB 2026

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

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

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

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

Test	Specification	Result
Appearance	Red liquid	Passed

*Not a certified value.

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

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

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

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

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



Paul Brandon (03/09/2024)

Production Manager

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This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis



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
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

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

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

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.



Part of TCP Analytical Group

Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: August 01, 2024

Lot Number: **44080060**

Expiration Date: January 30, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.008mg/mL
Concentration (CN)	990 - 1,010ppm	1,008ppm
Traceable to NIST SRM	Report	999b

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control

ISO9001:2015 Registration #0306-01

2024080113:32:16bsturges-0-0

W3139 Received on 9/9/24 by IZ

Product No.: A12044
Product: Chloramine-T trihydrate, 98%
Lot No.: 10239484

Appearance:	White powder
Melting Point:	166°C(dec)
Assay (Iodometric titration):	100.5%
Identification (FTIR):	Conforms

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Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Certificate of Analysis

Cyanide Standard, 1000 ppm CN⁻

Lot Number: 1405J81

Product Number: 2543

Manufacture Date: MAY 20, 2024

Expiration Date: NOV 2024

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN ⁻)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN ⁻)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN ⁻)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



Heidi J Green (05/20/2024)
Operations Manager

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PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/11/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/10/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:18
Out Date: 10/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB132870

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
P4375-01	CONCRETE-PADS-1	1	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-03	CONCRETE-PADS-2	2	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-05	CONCRETE-PADS-3	3	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-07	CONCRETE-PADS-4	4	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-09	CONCRETE-PADS-5	5	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-11	CONCRETE-PADS-6	6	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-13	CONCRETE-PADS-7	7	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-15	CONCRETE-PADS-8	8	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-17	CONCRETE-PADS-9	9	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-19	CONCRETE-PADS-10	10	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-21	CONCRETE-PADS-11	11	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-23	FENCE-POST-1	12	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-25	FENCE-POST-2	13	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-27	FENCE-POST-3	14	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4376-01	OR-02-100924	15	1.18	8.51	9.69	9.25	94.8	
P4376-02	OR-02-100924-E2	16	1.18	8.51	9.69	9.07	92.7	
P4377-01	HD-01-100924	17	1.17	8.53	9.7	8.9	90.6	
P4377-02	HD-01-100924-E2	18	1.15	8.83	9.98	9.03	89.2	
P4381-01	AT030P-SD04-100724-00	19	1.15	8.79	9.94	4.03	32.8	
P4381-02	AT030P-SD01-100724-00	20	1.15	8.70	9.85	8.44	83.8	
P4381-03	AT030P-SD02-100724-00	21	1.16	8.51	9.67	3.62	28.9	
P4383-01	34828	22	1.00	1.00	2.00	2.00	100.0	wipe sample
P4383-02	34829	23	1.00	1.00	2.00	2.00	100.0	wipe sample
P4383-03	34830	24	1.00	1.00	2.00	2.00	100.0	wipe sample
P4385-01	SP-1	25	1.17	8.60	9.77	9.15	92.8	
P4385-02	SP-1	26	1.14	8.48	9.62	9.06	93.4	
P4385-03	SP-2	27	1.15	8.41	9.56	9.09	94.4	
P4385-04	SP-2	28	1.18	8.39	9.57	9.15	95.0	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/11/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/10/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:18
Out Date: 10/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB132870

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
P4385-05	SP-3	29	1.18	8.50	9.68	9.35	96.1	
P4385-06	SP-3	30	1.15	8.64	9.79	9.28	94.1	
P4385-07	SP-4	31	1.14	8.43	9.57	9.44	98.5	
P4385-08	SP-4	32	1.19	8.44	9.63	9.55	99.1	
P4385-09	SP-5	33	1.15	8.68	9.83	9.28	93.7	
P4385-10	SP-5	34	1.15	8.51	9.66	9.1	93.4	
P4385-11	SP-6	35	1.14	8.44	9.58	9.04	93.6	
P4385-12	SP-6	36	1.17	8.53	9.7	9.1	93.0	
P4385-13	SP-7	37	1.12	8.73	9.85	9.31	93.8	
P4385-14	SP-7	38	1.18	8.77	9.95	9.41	93.8	
P4385-15	SP-8	39	1.18	8.62	9.8	9.32	94.4	
P4385-16	SP-8	40	1.17	8.46	9.63	9.15	94.3	
P4385-17	SP-9	41	1.15	8.61	9.76	9.19	93.4	
P4385-18	SP-9	42	1.18	8.53	9.71	9.15	93.4	
P4385-19	SP-10	43	1.19	8.53	9.72	9.18	93.7	
P4385-20	SP-10	44	1.18	8.55	9.73	9.25	94.4	

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

WORKLIST(Hardcopy Internal Chain)

132870

WorkList Name : %1-101024 WorkList ID : 184301 Department : Wet-Chemistry Date : 10-10-2024 08:32:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4375-01	CONCRETE-PADS-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-03	CONCRETE-PADS-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-05	CONCRETE-PADS-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-07	CONCRETE-PADS-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-09	CONCRETE-PADS-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-11	CONCRETE-PADS-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-13	CONCRETE-PADS-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-15	CONCRETE-PADS-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-17	CONCRETE-PADS-9	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-19	CONCRETE-PADS-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-21	CONCRETE-PADS-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-23	FENCE-POST-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-25	FENCE-POST-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-27	FENCE-POST-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4376-01	OR-02-100924	Solid	Percent Solids	Cool 4 deg C	PSEG05	K21	10/09/2024	Chemtech -SO
P4376-02	OR-02-100924-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K21	10/09/2024	Chemtech -SO
P4377-01	HD-01-100924	Solid	Percent Solids	Cool 4 deg C	PSEG05	K21	10/09/2024	Chemtech -SO
P4377-02	HD-01-100924-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K21	10/09/2024	Chemtech -SO
P4381-01	AT030P-SD04-100724-00	Solid	Percent Solids	Cool 4 deg C	WEST04	K22	10/07/2024	Chemtech -SO
P4381-02	AT030P-SD01-100724-00	Solid	Percent Solids	Cool 4 deg C	WEST04	K22	10/07/2024	Chemtech -SO
P4381-03	AT030P-SD02-100724-00	Solid	Percent Solids	Cool 4 deg C	WEST04	K22	10/07/2024	Chemtech -SO

Date/Time 10/10/24 15:30 Date/Time 10/10/24 Date/Time 17:20
 Raw Sample Received by: JO WOC Raw Sample Received by: JDCSM
 Raw Sample Relinquished by: JDCSM Raw Sample Relinquished by: JO WOC

WORKLIST(Hardcopy Internal Chain)

132870

WorkList Name : %1-101024 WorkList ID : 184301 Department : Wet-Chemistry Date : 10-10-2024 08:32:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4383-01	34828	Solid	Percent Solids	Cool 4 deg C	PSEG03	K23	10/10/2024	Chemtech -SO
P4383-02	34829	Solid	Percent Solids	Cool 4 deg C	PSEG03	K23	10/10/2024	Chemtech -SO
P4383-03	34830	Solid	Percent Solids	Cool 4 deg C	PSEG03	K23	10/10/2024	Chemtech -SO
P4385-01	SP-1	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-02	SP-1	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-03	SP-2	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-04	SP-2	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-05	SP-3	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-06	SP-3	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-07	SP-4	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-08	SP-4	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-09	SP-5	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-10	SP-5	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-11	SP-6	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-12	SP-6	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-13	SP-7	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-14	SP-7	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-15	SP-8	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-16	SP-8	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-17	SP-9	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-18	SP-9	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO

Date/Time 10/10/24 15:30 Date/Time 10/10/24 17:20
 Raw Sample Received by: JD CSM Raw Sample Received by: JD CSM
 Raw Sample Relinquished by: JD CSM Raw Sample Relinquished by: JD CSM

WORKLIST(Hardcopy Internal Chain)

✓ 132870

WorkList Name : %1-101024 WorkList ID : 184301 Department : Wet-Chemistry Date : 10-10-2024 08:32:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4385-19	SP-10	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-20	SP-10	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO

Date/Time 10/10/24 15:30
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: JDCSM

Date/Time 10/10/24 17:20
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: JDCSM



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

P4385
2042012

CLIENT INFORMATION

COMPANY: ~~PSEG~~ ^{REPORT TO BE SENT TO:} Scheideler Excavating

ADDRESS: Briar Way

CITY: Monroe STATE: NJ ZIP:

ATTENTION: Jim Scheideler

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Scheideler Excavating

PROJECT NO.: LOCATION:

PROJECT MANAGER: Jim Scheideler

e-mail:

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO:

PO#:

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*

HARDCOPY (DATA PACKAGE): _____ DAYS*

EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 TCL VOC 2 Cyanide 3 PCB 4 Pesticide 5 SVOC-TA BNA 20 6 Herbicide 7 Hex Chrom 8 Tri Chrom 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		E/P	E	E	E	E	E	E	E	E	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	SP-1	Soil		X	10.10.24	1111	4	X									0.0ppm	
2.	SP-1		X			1115	3		X	X	X	X	X	X	X	X		
3.	SP-2			X		1124	4	X										
4.	SP-2		X			1130	3		X	X	X	X	X	X	X	X		
5.	SP-3			X		1142	4	X										
6.	SP-3		X			1150	3		X	X	X	X	X	X	X	X		
7.	SP-4			X		1159	4	X										
8.	SP-4		X			1207	3		X	X	X	X	X	X	X	X		
9.	SP-5			X		1216	4	X										
10.	SP-5		X			1222	3		X	X	X	X	X	X	X	X		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:

DATE/TIME: 1335

RECEIVED BY:

1. JT

10.10.24

1.

RELINQUISHED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

2.

2.

RELINQUISHED BY SAMPLER:

DATE/TIME: 1500

RECEIVED BY:

3. JT

10.10.24

3.

Conditions of bottles or coolers at receipt:

☒ COMPLIANT

☐ NON COMPLIANT

☐ COOLER TEMP

3.6 °C

Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____

CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete

☐ YES ☐ NO

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

P4385

2042011

CLIENT INFORMATION

COMPANY: Scheideler Excavating

ADDRESS: Briar Way

CITY: Monroe STATE: NJ ZIP:

ATTENTION: Jim Scheideler

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Scheideler Excavating

PROJECT NO.: LOCATION:

PROJECT MANAGER: Jim Scheideler

e-mail:

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO:

PO#:

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*

HARDCOPY (DATA PACKAGE): _____ DAYS*

EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 TCL VOC
2 Cyanide
3 PCB
4 Pesticide
5 SVOC-TCL BWA 20
6 Herbicide
7 Hex chrom
8 Tri chrom
9

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E/P	E	E	E	E	E	E	E	E	
1.	SP-6	soil		x	10/10/24	1230	4	x									0.0 ppm
2.	SP-6		x			1238	3		x	x	x	x	x	x	x	x	
3.	SP-7			x		1249	4	x									
4.	SP-7		x			1255	3		x	x	x	x	x	x	x	x	
5.	SP-8			x		1303	4	x									
6.	SP-8		x			1310	3		x	x	x	x	x	x	x	x	
7.	SP-9			x		1318	4	x									
8.	SP-9		x			1323	3		x	x	x	x	x	x	x	x	
9.	SP-10			x		1330	4	x									
10.	SP-10		x			1335	3		x	x	x	x	x	x	x	x	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:

DATE/TIME: 1335

RECEIVED BY:

1. JT

10.10.24

1.

RELINQUISHED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

2.

2.

RELINQUISHED BY SAMPLER:

DATE/TIME: 1500

RECEIVED BY:

3. JT

10.10.24

3.

Conditions of bottles or coolers at receipt:

☒ COMPLIANT

☐ NON COMPLIANT

☐ COOLER TEMP

3.6 °C

Comments:

Page ____ of ____

CLIENT:

☐ Hand Delivered

☐ Other

CHEMTECH:

☐ Picked Up

☐ Field Sampling

Shipment Complete

☐ YES ☐ NO

CHEMTECH

Environmental Laboratory

www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Scheidele
Excavating

Chemtech Order ID: _____

Sampler Name: IT

Client Project Coordinator & Phone: Jim Scheidele

Page #: 1 of 1

Date: 10.10.24

Arrive Time: 1100

Depart Time: 01335

Service Order #: _____
Work Order #: _____
Labor WBS #: _____
Facility/Site: BRIAR WAY
Site Address: BRIAR WAY
MAURICE TOWNSHIP NJ

Waste Stream (circle one): drum / roll-off / Soil pile in-situ / linear construction / frac-tank
Sample Matrices (circle all that apply): Water / Solid / NAPL / Concrete / Wipe

Collection Depths: N/A

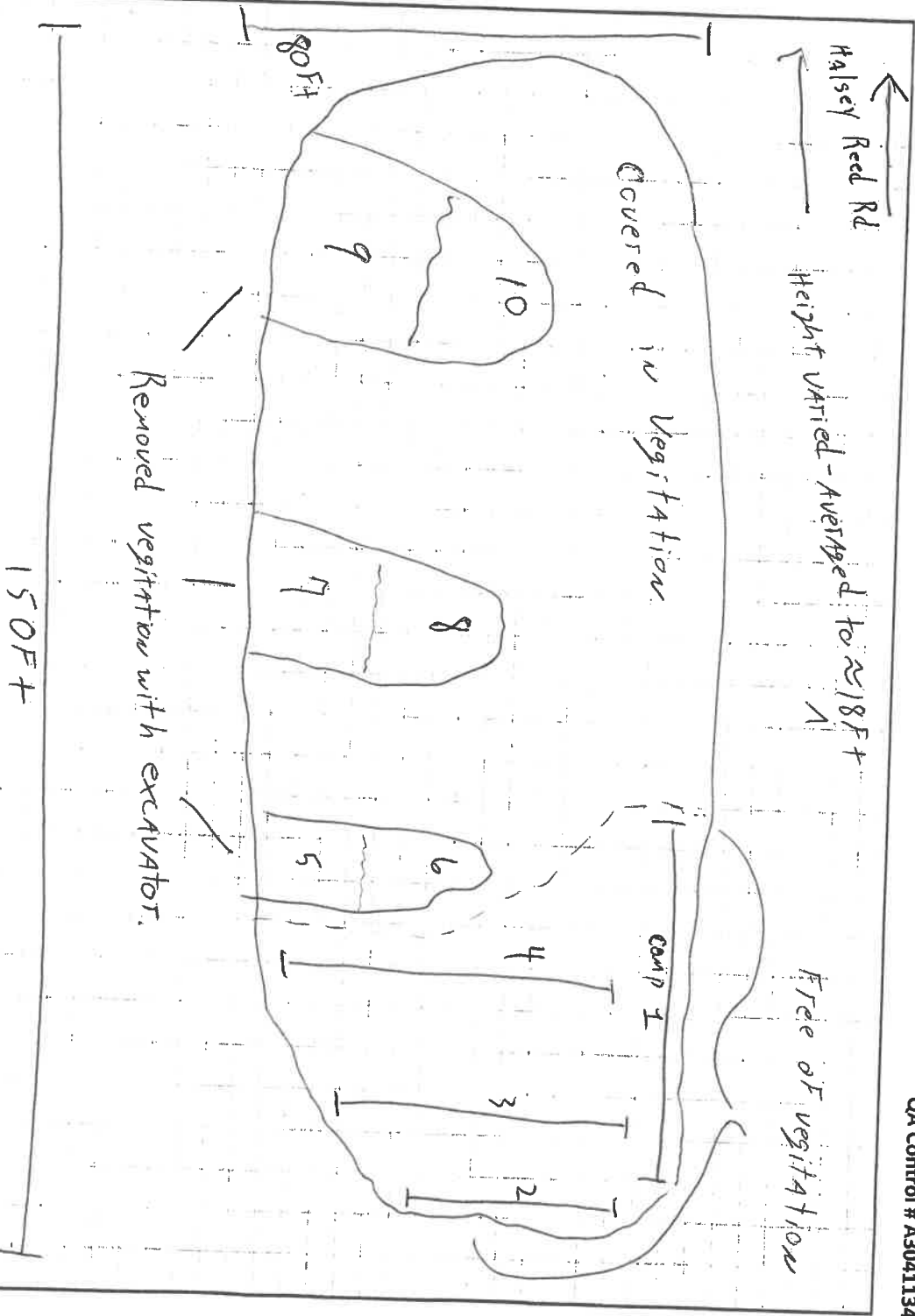
Temp (range): 3.6 °C PID Readings (range): 0.0 PPM Dimensions/CY: 150x80x18 ~ 8000 CY

Sample Description: Sandy soil, Hard Rocky soil Odor: Y (N) Color: Y (N)

Field Observations: 1 Large soil pile

Grid/Area Composite Map:

QA Control # A3041134



Sampler Signature: IT

Supervisor Review/Date: _____

Client Signature: _____

Date/Time Arrived at Lab: _____



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4385 SCHE03

Order Date : 10/10/2024 2:00:00 PM

Project Mgr :

Client Name : Scheideler Excavating Co. I

Project Name : Robbinsville

Report Type : Level 2

Client Contact : Jim Scheideler

Receive DateTime : 10/10/2024 12:00:00 AM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Scheideler Excavating Co. I

Purchase Order :

Hard Copy Date :

Invoice Contact : Jim Scheideler

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4385-01	SP-1	Solid	10/10/2024	11:11	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-03	SP-2	Solid	10/10/2024	11:24	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-05	SP-3	Solid	10/10/2024	11:42	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-07	SP-4	Solid	10/10/2024	11:59	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-09	SP-5	Solid	10/10/2024	12:16	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-11	SP-6	Solid	10/10/2024	12:30	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-13	SP-7	Solid	10/10/2024	12:49	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-15	SP-8	Solid	10/10/2024	13:03	VOC-TCLVOA-10		8260D		10 Bus. Days



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4385	SCHE03	Order Date : 10/10/2024 2:00:00 PM	Project Mgr :
Client Name : Scheideler Excavating Co. I		Project Name : Robbinsville	Report Type : Level 2
Client Contact : Jim Scheideler		Receive DateTime : 10/10/2024 12:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Scheideler Excavating Co. I		Purchase Order : 15:00	Hard Copy Date :
Invoice Contact : Jim Scheideler			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4385-17	SP-9	Solid	10/10/2024	13:18	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4385-19	SP-10	Solid	10/10/2024	13:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By :

Date / Time :

JT
10/10/24 1515

Received By :

Date / Time :

Sam
10/10/24 15:15 Rgt 6
P22

Storage Area : VOA Refridgerator Room