EPA SAMPLE NO.

MBHCY5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-01

% Solids: 81.2 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.41	J	10/29/2024	1114

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHCZ5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-02

% Solids: 87.1 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.78		10/29/2024	1114

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDA3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-03

% Solids: 88.6 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	1.1		10/29/2024	1114

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDA4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-04

% Solids: 83.2 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	1.8		10/29/2024	1114

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDA5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-05

% Solids: 84.9 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.35	J	10/29/2024	1114

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDA6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-06

% Solids: 84 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.62		10/29/2024	1114

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDA7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-07

% Solids: 81.5 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.54	J	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDB3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-08

% Solids: 88.3 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.52	J	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDB4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-09

% Solids: 82.8 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.53	J	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDB5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-10

% Solids: 86.4 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.58	U	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDB6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-11

% Solids: 84.7 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.37	J	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDB7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-12

% Solids: 83.7 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.44	J	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDB8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-13

% Solids: 90 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.64		10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDB9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-14

% Solids: 87.9 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.54	J	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDC0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-15

% Solids: 85.1 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.57	U	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDC1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-16

% Solids: 82 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.72		10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDC2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-17

% Solids: 84.9 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.41	J	10/29/2024	1121

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDC8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-18

% Solids: 92.4 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.56		10/29/2024	1129

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDC9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-19

% Solids: 90.9 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.52	U	10/29/2024	1129

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

MBHDD0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCY5

Matrix: SOIL Lab Sample ID: P4497-20

% Solids: 84.4 Date Received: 10/23/2024

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.65		10/29/2024	1129

NOTE: Hardness (total) is reported in mg/L

Comments:

LB133

Test results — Aquakem 7.2AQ1 — Page: 1

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

Reviewed by : NF — Instrument ID : Konelab

10/29/2024 12:22

Test: CNEPA-NEW

	Sample Id	Result	Dil.	1 +	Response	Errors
	ICV001 ICV001	95.229	0.0		0.087	
	ICB001 ICB001	-0.366	0.0		0.001	
	CCV001 CCV001	244.325	0.0		0.220	
	CCB001 CCB001	-0.645	0.0		0.001	
NF 10.29.2024 P	B164480BL PBS480	-0.932	0.0		0.001	
	P4502-01 MBHCY1	-0.630	0.0		0.001	
	P4502-02 MBHCY2	5.653	0.0		0.006	
	P4502-03 MBHCY3	-0.012	0.0		0.001	
	P4502-04 MBHCY4	0.541	0.0		0.002	
	P4502-05 MBHCY8	1.939	0.0		0.003	
	P4502-06 MBHCY9	15.243	0.0		0.015	
	P4502-07 MBHCZ0	9.350	0.0		0.010	
	P4502-08 MBHCZ1	2.989	0.0		0.004	
	P4502-09 MBHCZ2	2.363	0.0		0.003	
	P4502-10 MBHCZ3	10.561	0.0		0.011	
	P4502-11 MBHCX4	4.262	0.0		0.005	
	P4502-12 MBHCX7	1.863	0.0		0.003	
	P4502-14 MBHCX9	-0.675	0.0		0.001	
	P4502-16 MBHDO1	1.081	0.0		0.002	
	P4502-17 MBHDO2	0.871	0.0		0.002	
	P4502-18 MBHDO3	0.586	0.0		0.002	
	P4502-19 MBHDO4	3.034	0.0		0.004	
	P4502-20 MBHZC9	1.692	0.0		0.003	
	P4502-21 MBHZC9D	1.784	0.0		0.003	
	P4502-22 MBHZC9S	100.614	0.0		0.092	
	CCV002 CCV002	236.191	0.0		0.213	
	CCB002 CCB002	-0.298	0.0		0.001	
NF P	B164481BL PBS481	-0.348	0.0		0.001	
10.29.2024	P4497-01 MBHCY5	6.761	0.0		0.007	
	P4497-02 MBHCZ5	14.035	0.0		0.014	
	P4497-03 MBHDA3	20.008	0.0		0.019	
	P4497-04 MBHDA4	29.343	0.0		0.028	
	P4497-05 MBHDA5	6.149	0.0		0.007	
	P4497-06 MBHDA6	10.539	0.0		0.011	
	P4497-07 MBHDA7	9.054	0.0		0.009	
	P4497-08 MBHDB3	9.312	0.0		0.010	
	P4497-09 MBHDB4	9.064	0.0		0.009	
	P4497-10 MBHDB5	-0.295	0.0		0.001	
	P4497-11 MBHDB6	6.379	0.0		0.007	
	P4497-12 MBHDB7	7.649	0.0		0.008	
	P4497-13 MBHDB8	12.139	0.0		0.012	
	P4497-14 MBHDB9	9.897	0.0		0.010	
	P4497-15 MBHDC0	2.739	0.0		0.004	
	P4497-16 MBHDC1	12.039	0.0		0.012	
	P4497-17 MBHDC2	7.346	0.0		0.008	
	P4497-18 MBHDC8	10.808	0.0		0.011	
	P4497-19 MBHDC9	0.587	0.0		0.002	
	P4497-20 MBHDD0	11.378	0.0		0.012	
	P4497-21 MBHDD0D	11.547	0.0		0.012	
	P4497-22 MBHDD0S	116.286	0.0		0.106	
	CCV003 CCV003	239.232	0.0		0.216	
	CCB003 CCB003	-0.254	0.0		0.001	
NF	PB164484BL PBS484	-0.916	0.0		0.001	
10.29.2024	P4496-04 MBHDO5	2.263	0.0		0.003	
	P4496-05 MBHDO6	-0.561	0.0		0.001	

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

Reviewed by : NF Instrument ID : Konelab

10/29/2024 12:22

Test: CNEPA-NEW

Sample Id	Result	Dil. 1 +	Response	Errors
P4496-06 MBHZC7	0.762	0.0	0.002	
P4496-07 MBHZC8	3.820	0.0	0.005	
P4496-08 MBHZC8D	4.448	0.0	0.005	
P4496-09 MBHZC8S	96.827	0.0	0.088	
PB164485BL PBW485	-0.127	0.0	0.001	
P4496-01 MBHCX5	-0.377	0.0	0.001	
P4496-02 MBHCY6	-0.285	0.0	0.001	
P4496-03 MBHCY7	-0.531	0.0	0.001	
P4502-13 MBHCX8	3.554	0.0	0.005	
P4502-15 MBHDO0	0.268	0.0	0.002	
CCV004 CCV004	254.230	0.0	0.229	
CCB004 CCB004	-0.302	0.0	0.001	

NF 10.29.2024

N	67
Mean	24.792
SD	60.5113
CV%	244.07

Aquakem v. 7.2AQ1
Results from time period:
Tue Oct 29 09:41:03 2024
Tue Oct 29 12:12:09 2024

Sample Id	Sam/C	Test short nam	Test type	Result	Result unit	Result date and time
S0.0	A	CNEPA-NEW	P	-0.8064	µg/l	10/29/2024 9:41:03
S5.0	A	CNEPA-NEW	P	4.167	µg/l	10/29/2024 9:41:04
S10.0	A	CNEPA-NEW	P	9.0076	µg/l	10/29/2024 9:41:05
S100.0	A	CNEPA-NEW	P	100.006	µg/l	10/29/2024 9:41:06
S250.0	A	CNEPA-NEW	P	255.1974	µg/l	10/29/2024 9:41:07
S500.0	A	CNEPA-NEW	P	497.4283	µg/l	10/29/2024 9:41:08
ICV001 ICV001	S	CNEPA-NEW	P	95.229	µg/l	10/29/2024 10:51:27
ICB001 ICB001	S	CNEPA-NEW	P	-0.3661	µg/l	10/29/2024 10:51:30
CCV001 CCV001	S	CNEPA-NEW	P	244.3249	µg/l	10/29/2024 10:51:32
CCB001 CCB001	S	CNEPA-NEW	P	-0.6447	µg/l	10/29/2024 10:51:33
PB164480BL PBS480	S	CNEPA-NEW	P	-0.9321	µg/l	10/29/2024 10:51:36
P4502-01 MBHCY1	S	CNEPA-NEW	P	-0.6298	µg/l	10/29/2024 10:51:37
P4502-02 MBHCY2	S	CNEPA-NEW	P	5.6534	µg/l	10/29/2024 10:59:02
P4502-03 MBHCY3	S	CNEPA-NEW	P	-0.0116	µg/l	10/29/2024 10:59:03
P4502-04 MBHCY4	S	CNEPA-NEW	P	0.5406	µg/l	10/29/2024 10:59:04
P4502-05 MBHCY8	S	CNEPA-NEW	P	1.9385	µg/l	10/29/2024 10:59:05
P4502-06 MBHCY9	S	CNEPA-NEW	P	15.2425	µg/l	10/29/2024 10:59:06
P4502-07 MBHCZ0	S	CNEPA-NEW	P	9.3495	µg/l	10/29/2024 10:59:07
P4502-08 MBHCZ1	S	CNEPA-NEW	P	2.9893	µg/l	10/29/2024 10:59:08
P4502-09 MBHCZ2	S	CNEPA-NEW	P	2.3628	µg/l	10/29/2024 10:59:09
P4502-10 MBHCZ3	S	CNEPA-NEW	P	10.5609	µg/l	10/29/2024 10:59:10
P4502-11 MBHCX4	S	CNEPA-NEW	P	4.2619	µg/l	10/29/2024 10:59:11
P4502-12 MBHCX7	S	CNEPA-NEW	P	1.8634	µg/l	10/29/2024 10:59:12
P4502-14 MBHCX9	S	CNEPA-NEW	P	-0.6747	µg/l	10/29/2024 11:06:38
P4502-16 MBHDO1	S	CNEPA-NEW	P	1.0813	µg/l	10/29/2024 11:06:40
P4502-17 MBHDO2	S	CNEPA-NEW	P	0.8709	µg/l	10/29/2024 11:06:41
P4502-18 MBHDO3	S	CNEPA-NEW	P	0.5864	µg/l	10/29/2024 11:06:42
P4502-19 MBHDO4	S	CNEPA-NEW	P	3.0343	µg/l	10/29/2024 11:06:43
P4502-20 MBHZC9	S	CNEPA-NEW	P	1.6922	µg/l	10/29/2024 11:06:44
P4502-21 MBHZC9D	S	CNEPA-NEW	P	1.7839	µg/l	10/29/2024 11:06:45
P4502-22 MBHZC9S	S	CNEPA-NEW	P	100.6141	µg/l	10/29/2024 11:06:46
CCV002 CCV002	S	CNEPA-NEW	P	236.1915	µg/l	10/29/2024 11:14:14
CCB002 CCB002	S	CNEPA-NEW	P	-0.2983	µg/l	10/29/2024 11:14:15
PB164481BL PBS481	S	CNEPA-NEW	P	-0.3478	µg/l	10/29/2024 11:14:16
P4497-01 MBHCY5	S	CNEPA-NEW	P	6.761	µg/l	10/29/2024 11:14:17
P4497-02 MBHCZ5	S	CNEPA-NEW	P	14.0346	µg/l	10/29/2024 11:14:18
P4497-03 MBHDA3	S	CNEPA-NEW	P	20.0076	µg/l	10/29/2024 11:14:19
P4497-04 MBHDA4	S	CNEPA-NEW	P	29.3434	µg/l	10/29/2024 11:14:20
P4497-05 MBHDA5	S	CNEPA-NEW	P	6.1489	µg/l	10/29/2024 11:14:21

P4497-06 MBHDA6	S	CNEPA-NEW	P	10.5386 µg/l	10/29/2024 11:14:22
P4497-07 MBHDA7	S	CNEPA-NEW	P	9.0545 µg/l	10/29/2024 11:21:47
P4497-08 MBHDB3	S	CNEPA-NEW	P	9.3123 µg/l	10/29/2024 11:21:48
P4497-09 MBHDB4	S	CNEPA-NEW	P	9.0639 µg/l	10/29/2024 11:21:49
P4497-10 MBHDB5	S	CNEPA-NEW	P	-0.2949 µg/l	10/29/2024 11:21:50
P4497-11 MBHDB6	S	CNEPA-NEW	P	6.3791 µg/l	10/29/2024 11:21:51
P4497-12 MBHDB7	S	CNEPA-NEW	P	7.6487 µg/l	10/29/2024 11:21:52
P4497-13 MBHDB8	S	CNEPA-NEW	P	12.1395 µg/l	10/29/2024 11:21:53
P4497-14 MBHDB9	S	CNEPA-NEW	P	9.8973 µg/l	10/29/2024 11:21:54
P4497-15 MBHDC0	S	CNEPA-NEW	P	2.7391 µg/l	10/29/2024 11:21:55
P4497-16 MBHDC1	S	CNEPA-NEW	P	12.0391 µg/l	10/29/2024 11:21:56
P4497-17 MBHDC2	S	CNEPA-NEW	P	7.3458 µg/l	10/29/2024 11:21:57
P4497-18 MBHDC8	S	CNEPA-NEW	P	10.8076 µg/l	10/29/2024 11:29:22
P4497-19 MBHDC9	S	CNEPA-NEW	P	0.5872 µg/l	10/29/2024 11:29:23
P4497-20 MBHDD0	S	CNEPA-NEW	P	11.3776 µg/l	10/29/2024 11:29:24
P4497-21 MBHDD0D	S	CNEPA-NEW	P	11.5474 µg/l	10/29/2024 11:29:25
P4497-22 MBHDD0S	S	CNEPA-NEW	P	116.286 µg/l	10/29/2024 11:29:26
CCV003 CCV003	S	CNEPA-NEW	P	239.2324 µg/l	10/29/2024 11:29:30
CCB003 CCB003	S	CNEPA-NEW	P	-0.2539 µg/l	10/29/2024 11:29:31
PB164484BL PBS484	S	CNEPA-NEW	P	-0.9162 µg/l	10/29/2024 11:29:32
P4496-04 MBHDO5	S	CNEPA-NEW	P	2.2634 µg/l	10/29/2024 11:36:54
P4496-05 MBHDO6	S	CNEPA-NEW	P	-0.561 µg/l	10/29/2024 11:36:55
P4496-06 MBHZC7	S	CNEPA-NEW	P	0.7624 µg/l	10/29/2024 11:36:56
P4496-07 MBHZC8	S	CNEPA-NEW	P	3.8196 µg/l	10/29/2024 11:36:57
P4496-08 MBHZC8D	S	CNEPA-NEW	P	4.4485 µg/l	10/29/2024 11:36:58
P4496-09 MBHZC8S	S	CNEPA-NEW	P	96.827 µg/l	10/29/2024 11:37:00
PB164485BL PBW485	S	CNEPA-NEW	P	-0.127 µg/l	10/29/2024 11:37:03
P4496-01 MBHCX5	S	CNEPA-NEW	P	-0.3772 µg/l	10/29/2024 11:37:04
P4496-02 MBHCY6	S	CNEPA-NEW	P	-0.2848 µg/l	10/29/2024 11:42:37
P4496-03 MBHCY7	S	CNEPA-NEW	P	-0.5314 µg/l	10/29/2024 11:42:38
P4502-13 MBHCX8	S	CNEPA-NEW	P	3.5539 µg/l	10/29/2024 12:08:47
P4502-15 MBHDO0	S	CNEPA-NEW	P	0.2681 µg/l	10/29/2024 12:08:48
CCV004 CCV004	S	CNEPA-NEW	P	254.2298 µg/l	10/29/2024 12:12:08
CCB004 CCB004	S	CNEPA-NEW	P	-0.3023 µg/l	10/29/2024 12:12:09

Calibration results Aquakem 7.2AQ1 Page: 1

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

Reviewed by : NF Instrument ID : Konelab

10/29/2024 9:41

Test CNEPA-NEW

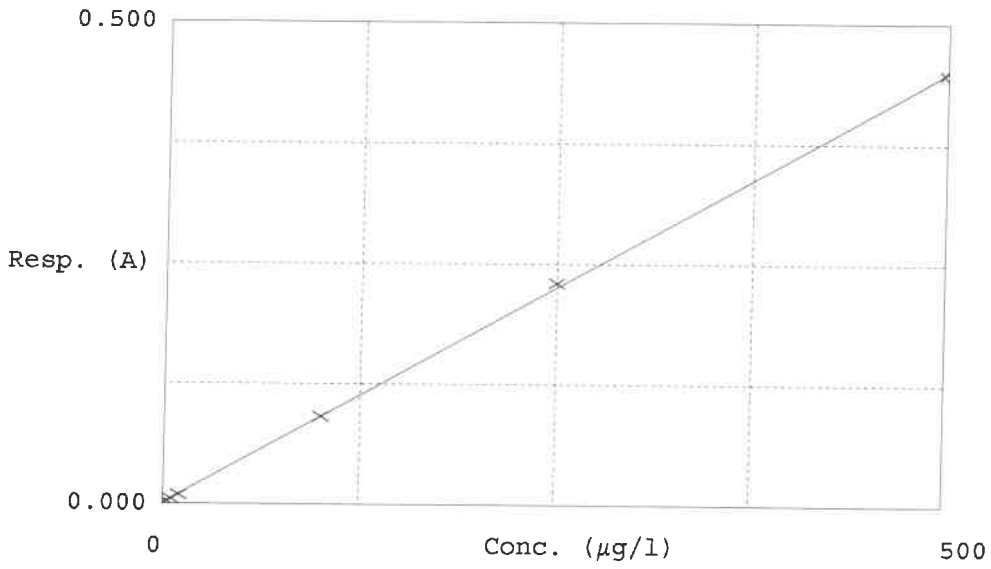
Accepted 10/29/2024 9:41

~~Factor~~ Slope ~~1116~~ 0.000896
~~Bias~~ Intercept 0.001

NF
10.30.2024

Coeff. of det. 0.999818

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors (Re)
1	0.0PPBCN S0.0	0.001	-0.8064	0.0000	
2	5.0PPBCN S5.0	0.005	4.1670	5.0000	-16.7
3	10PPBCN S10.0	0.009	9.0076	10.0000	-9.9
4	100PPBCN S100.0	0.091	100.0060	100.0000	0.0
5	250PPBCN S250.0	0.230	255.1974	250.0000	2.1
6	500PPBCN S500.0	0.447	497.4283	500.0000	-0.5

NF
10.29.2024

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

Prep Standard - Chemical Standard Summary

Order ID : P4497

Test : Cyanide

Prepbatch ID : PB164481,

Sequence ID/Qc Batch ID: LB133191,

Standard ID :
WP108640,WP108688,WP109089,WP110035,WP110103,WP110390,WP110391,WP110457,WP110458,WP110459,WP110460,WP110461,WP110462,WP110463,WP110464,WP110465,WP110474,

Chemical ID :
E3657,M5673,M5951,W2668,W2882,W3001,W3011,W3019,W3112,W3113,W3139,W3142,

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

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP108640	07/05/2024	01/05/2025	Rubina Mughal	WETCHEM_SCALE_4 (WCSC-4)	None	Iwona Zarych 07/08/2024

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1581	Sodium hydroxide solution, 1.25N	WP108688	07/11/2024	01/11/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/11/2024

FROM 50.00000gram of W3113 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml

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Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2816	CN-EPA Pyridine-Burbituric Acid solution	WP109089	08/07/2024	12/27/2024	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 08/07/2024

FROM 15.00000gram of W2882 + 15.00000ml of M5951 + 75.00000ml of W3019 + 895.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

FROM 1.00000ml of W3142 + 199.00000ml of WP108640 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/08/2024

FROM 138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP110390	10/24/2024	04/24/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/24/2024

FROM 500.00000ml of W3112 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml

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Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1714	Sulfuric Acid, 50% (v/v)	WP110391	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	Iwona Zarych 10/24/2024

FROM 1000.00000ml of M5673 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1585	Cyanide Intermediate standard solution, 10PPM	WP110457	10/28/2024	10/29/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/30/2024

FROM 1.00000ml of W3142 + 79.00000ml of W3112 + 20.00000ml of WP108688 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1586	Cyanide Cal Std, 500 PPB	WP110458	10/28/2024	10/29/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/30/2024

FROM 5.00000ml of WP110457 + 95.00000ml of WP108640 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1587	Cyanide Cal Std, 250 PPB	WP110459	10/28/2024	10/29/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/30/2024

FROM 2.50000ml of WP110457 + 97.50000ml of WP108640 = Final Quantity: 0.100 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1588	Cyanide Cal Std, 100 PPB	WP110460	10/28/2024	10/29/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/30/2024

FROM 1.00000ml of WP110457 + 99.00000ml of WP108640 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1589	Cyanide Cal Std, 10 PPB	WP110461	10/28/2024	10/29/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/30/2024

FROM 4.00000ml of WP110459 + 96.00000ml of WP108640 = Final Quantity: 0.100 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1590	Cyanide Cal Std, 5 PPB	WP110462	10/28/2024	10/29/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/30/2024

FROM 2.00000ml of WP110459 + 98.00000ml of WP108640 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1591	Cyanide blank std, 0 PPB	WP110463	10/28/2024	10/29/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/30/2024

FROM 100.00000ml of WP108640 = Final Quantity: 0.100 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1592	Cyanide CCV Std, 250 PPB	WP110464	10/28/2024	10/29/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/30/2024

FROM 2.50000ml of WP110457 + 97.50000ml of WP108640 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1763	Cyanide ICV Std	WP110465	10/28/2024	10/29/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/30/2024

FROM 0.50000ml of W3011 + 49.50000ml of WP108640 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP110474	10/29/2024	10/30/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/30/2024

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

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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-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-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	12/27/2024	07/04/2024 / Jaswal	06/23/2024 / Al-Terek	M5951

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, CRYS, 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.	EM-BX0035-3 / Barbituric Acid, 100 gms	1.00132.0100	04/30/2025	12/07/2021 / jaswal	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.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / Iwona	06/06/2022 / Iwona	W3001

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CHEMICAL RECEIPT LOG BOOK

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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	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 / Iwona	07/08/2024 / Iwona	W3113

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

~~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•$6H_2O$
CAS Number	7791-18-6
Molecular Formula	$MgCl_2$•$6H_2O$
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

Sigma-Aldrich.

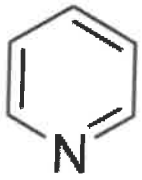
W3019
Rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside 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

VWR®

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:

Pellets

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

Storage: Room Temperature

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.

E 3657	E 3659
E 3654	E 3660

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

W2160, W2161, W2162, W2163, W2164 Receive by AP on 9/2/2016

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 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, use a 100-fold dilution by pipetting 1 mL of the ICV5 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, use a 100-fold dilution by pipetting 1 mL of the ICV6 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	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

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

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

avantor™ | J.T.Baker®

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_2SO_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 SO2)	≤ 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

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

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

James T Ethier

Jamie Ethier
Vice President Global Quality

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

avantor™ | J.T.Baker®

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

avantor™ | J.T.Baker®

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

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

>>> Continued on page 3 >>>

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

avantor™ | J.T.Baker®

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

Test	Specification	Result

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

James T Ethier

Jamie Ethier
Vice President Global Quality

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

This document has been produced electronically and is valid without a signature.

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 ($NaH_2PO_4 \cdot H_2O$)	98.0 - 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 - 4.5	4.3
Insoluble Matter	<= 0.01 %	< 0.01
Chloride (Cl)	<= 5 ppm	< 5
ACS - Sulfate (SO_4)	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	<0.005
Potassium (K)	<= 0.01 %	< 0.01
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Trace Impurities - Iron (Fe)	<= 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

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:

Pellets

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

Storage: Room Temperature

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.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: **0583**

Grade: **ACS GRADE**

Batch Number: **23B1556310**

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

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

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.

ThermoFisher SCIENTIFIC

Certificate of Analysis

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

Order our products online **thermofisher.com/chemicals**

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RICCA CHEMICAL COMPANY®

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

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

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB164481

SOP ID : MSFAM01.1-Cyanide-2

SDG No : MBHCY5

Matrix : SOLID

Pippete ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : JP

Start Digest Date: 10/28/2024 **Time :** 08:00 **Temp :** 123 °C

End Digest Date: 10/28/2024 **Time :** 09:30 **Temp :** 127 °C

II batch 10/29/2024 12:00 123
10/29/2024 13:30 127

III batch 10/29/2024 14:00 123
10/29/2024 15:30 126

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: JP

Supervisor Signature: JZ

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
MATRIX SPIKE SOLUTION	1.0ML	WP110035
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP108640
50% v/v H2SO4	5.0ML	WP110391
51% w/v MgCL2	2.0ML	WP110390
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	50ML	WP110463 I batch
S5.0	S5.0	50ML	WP110462 "
S10.0	S10.0	50ML	WP110461 "
S100.0	S100.0	50ML	WP110460 "
S250.0	S250.0	50ML	WP110459 "
S500.0	S500.0	50ML	WP110458 "
ICV	ICV	50ML	WP110465 "
ICB	ICB	50ML	WP108640 "
CCV	CCV	50ML	WP110464 "
CCB	CCB	50ML	WP108640 "
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	N/A
LOWSTD	LOWSTD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

MIDI-DISTILATION_SOIL; I-ST BATCH MC-2 START TEMP:123 C; MC-2 END TEMP: 126 C; II-ND BATCH MC-2 START TEMP:123 C; MC-2 END TEMP: 127 C; Block Therm.ID: WC-CYANIDE-2

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10.28.2024, 15:45	JP (WC)	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB164481

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4497-01	MBHCY5	1.02	50	N/A	N/A	N/A	N/A	N/A II batch	N/A
P4497-02	MBHCZ5	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-03	MBHDA3	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-04	MBHDA4	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-05	MBHDA5	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-06	MBHDA6	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-07	MBHDA7	1.03	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-08	MBHDB3	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-09	MBHDB4	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-10	MBHDB5	1.00	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-11	MBHDB6	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-12	MBHDB7	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-13	MBHDB8	1.06	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-14	MBHDB9	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-15	MBHDC0	1.03	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-16	MBHDC1	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-17	MBHDC2	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-18	MBHDC8	1.04	50	N/A	N/A	N/A	N/A	N/A III batch	N/A
P4497-19	MBHDC9	1.06	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-20	MBHDD0	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-21	MBHDD0D	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4497-22	MBHDD0S	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
PB164481BL	PBS481	1.00	50	N/A	N/A	N/A	N/A	N/A II batch	N/A

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

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133191

Review By	Niha Farheen Shaik	Review On	10/30/2024 9:35:43 AM
Supervise By	Iwona Zarych	Supervise On	10/30/2024 1:27:39 PM

STD. NAME	STD REF.#
ICAL Standard	WP110463,WP110462,WP110461,WP110460,WP110459,WP110458
ICV Standard	WP110465
CCV Standard	WP110464
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP109089,WP110474

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0.0	S0	CAL1	10/29/24 09:41		Niha	OK
2	S5.0	S01	CAL2	10/29/24 09:41		Niha	OK
3	S10.0	S02	CAL3	10/29/24 09:41		Niha	OK
4	S100.0	S03	CAL4	10/29/24 09:41		Niha	OK
5	S250.0	S04	CAL5	10/29/24 09:41		Niha	OK
6	S500.0	S05	CAL6	10/29/24 09:41		Niha	OK
7	ICV001	ICV001	ICV	10/29/24 10:51		Niha	OK
8	ICB001	ICB001	ICB	10/29/24 10:51		Niha	OK
9	CCV001	CCV001	CCV	10/29/24 10:51		Niha	OK
10	CCB001	CCB001	CCB	10/29/24 10:51		Niha	OK
11	PB164480BL	PBS480	MB	10/29/24 10:51		Niha	OK
12	P4502-01	MBHCY1	SAM	10/29/24 10:51		Niha	OK
13	P4502-02	MBHCY2	SAM	10/29/24 10:59		Niha	OK
14	P4502-03	MBHCY3	SAM	10/29/24 10:59		Niha	OK
15	P4502-04	MBHCY4	SAM	10/29/24 10:59		Niha	OK
16	P4502-05	MBHCY8	SAM	10/29/24 10:59		Niha	OK
17	P4502-06	MBHCY9	SAM	10/29/24 10:59		Niha	OK
18	P4502-07	MBHCZ0	SAM	10/29/24 10:59		Niha	OK

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

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133191

Review By	Niha Farheen Shaik	Review On	10/30/2024 9:35:43 AM
Supervise By	Iwona Zarych	Supervise On	10/30/2024 1:27:39 PM

STD. NAME	STD REF.#
ICAL Standard	WP110463,WP110462,WP110461,WP110460,WP110459,WP110458
ICV Standard	WP110465
CCV Standard	WP110464
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP109089,WP110474

19	P4502-08	MBHCZ1	SAM	10/29/24 10:59		Niha	OK
20	P4502-09	MBHCZ2	SAM	10/29/24 10:59		Niha	OK
21	P4502-10	MBHCZ3	SAM	10/29/24 10:59		Niha	OK
22	P4502-11	MBHCX4	SAM	10/29/24 10:59		Niha	OK
23	P4502-12	MBHCX7	SAM	10/29/24 10:59		Niha	OK
24	P4502-14	MBHCX9	SAM	10/29/24 11:06		Niha	OK
25	P4502-16	MBHDO1	SAM	10/29/24 11:06		Niha	OK
26	P4502-17	MBHDO2	SAM	10/29/24 11:06		Niha	OK
27	P4502-18	MBHDO3	SAM	10/29/24 11:06		Niha	OK
28	P4502-19	MBHDO4	SAM	10/29/24 11:06		Niha	OK
29	P4502-20	MBHZC9	SAM	10/29/24 11:06		Niha	OK
30	P4502-21	MBHZC9D	DUP	10/29/24 11:06		Niha	OK
31	P4502-22	MBHZC9S	MS	10/29/24 11:06		Niha	OK
32	CCV002	CCV002	CCV	10/29/24 11:14		Niha	OK
33	CCB002	CCB002	CCB	10/29/24 11:14		Niha	OK
34	PB164481BL	PBS481	MB	10/29/24 11:14		Niha	OK
35	P4497-01	MBHCY5	SAM	10/29/24 11:14		Niha	OK
36	P4497-02	MBHCZ5	SAM	10/29/24 11:14		Niha	OK
37	P4497-03	MBHDA3	SAM	10/29/24 11:14		Niha	OK
38	P4497-04	MBHDA4	SAM	10/29/24 11:14		Niha	OK

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

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133191

Review By	Niha Farheen Shaik	Review On	10/30/2024 9:35:43 AM
Supervise By	Iwona Zarych	Supervise On	10/30/2024 1:27:39 PM

STD. NAME	STD REF.#
ICAL Standard	WP110463,WP110462,WP110461,WP110460,WP110459,WP110458
ICV Standard	WP110465
CCV Standard	WP110464
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP109089,WP110474

39	P4497-05	MBHDA5	SAM	10/29/24 11:14		Niha	OK
40	P4497-06	MBHDA6	SAM	10/29/24 11:14		Niha	OK
41	P4497-07	MBHDA7	SAM	10/29/24 11:21		Niha	OK
42	P4497-08	MBHDB3	SAM	10/29/24 11:21		Niha	OK
43	P4497-09	MBHDB4	SAM	10/29/24 11:21		Niha	OK
44	P4497-10	MBHDB5	SAM	10/29/24 11:21		Niha	OK
45	P4497-11	MBHDB6	SAM	10/29/24 11:21		Niha	OK
46	P4497-12	MBHDB7	SAM	10/29/24 11:21		Niha	OK
47	P4497-13	MBHDB8	SAM	10/29/24 11:21		Niha	OK
48	P4497-14	MBHDB9	SAM	10/29/24 11:21		Niha	OK
49	P4497-15	MBHDC0	SAM	10/29/24 11:21		Niha	OK
50	P4497-16	MBHDC1	SAM	10/29/24 11:21		Niha	OK
51	P4497-17	MBHDC2	SAM	10/29/24 11:21		Niha	OK
52	P4497-18	MBHDC8	SAM	10/29/24 11:29		Niha	OK
53	P4497-19	MBHDC9	SAM	10/29/24 11:29		Niha	OK
54	P4497-20	MBHDD0	SAM	10/29/24 11:29		Niha	OK
55	P4497-21	MBHDD0D	DUP	10/29/24 11:29		Niha	OK
56	P4497-22	MBHDD0S	MS	10/29/24 11:29		Niha	OK
57	CCV003	CCV003	CCV	10/29/24 11:29		Niha	OK
58	CCB003	CCB003	CCB	10/29/24 11:29		Niha	OK

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STD. NAME	STD REF.#
ICAL Standard	WP110463,WP110462,WP110461,WP110460,WP110459,WP110458
ICV Standard	WP110465
CCV Standard	WP110464
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP109089,WP110474

59	PB164484BL	PBS484	MB	10/29/24 11:29		Niha	OK
60	P4496-04	MBHDO5	SAM	10/29/24 11:36		Niha	OK
61	P4496-05	MBHDO6	SAM	10/29/24 11:36		Niha	OK
62	P4496-06	MBHZC7	SAM	10/29/24 11:36		Niha	OK
63	P4496-07	MBHZC8	SAM	10/29/24 11:36		Niha	OK
64	P4496-08	MBHZC8D	DUP	10/29/24 11:36		Niha	OK
65	P4496-09	MBHZC8S	MS	10/29/24 11:37		Niha	OK
66	PB164485BL	PBW485	MB	10/29/24 11:37		Niha	OK
67	P4496-01	MBHCX5	SAM	10/29/24 11:37		Niha	OK
68	P4496-02	MBHCY6	SAM	10/29/24 11:42		Niha	OK
69	P4496-03	MBHCY7	SAM	10/29/24 11:42		Niha	OK
70	P4502-13	MBHCX8	SAM	10/29/24 12:08		Niha	OK
71	P4502-15	MBHDO0	SAM	10/29/24 12:08		Niha	OK
72	CCV004	CCV004	CCV	10/29/24 12:12		Niha	OK
73	CCB004	CCB004	CCB	10/29/24 12:12		Niha	OK