



SAMPLE DATA

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24 12:50
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
		% Solid:	90.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.33		1	0.047	0.27	mg/Kg	11/01/24 14:00	11/04/24 12:09	9012B
Hexavalent Chromium	0.086	U	1	0.086	0.43	mg/Kg	11/04/24 11:00	11/04/24 14:54	7196A
Trivalent Chromium	16.2		1	0.55	0.55	mg/Kg		11/04/24 20:12	6010D

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24 13:04
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
		% Solid:	91.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.39		1	0.046	0.26	mg/Kg	11/01/24 14:00	11/04/24 12:09	9012B
Hexavalent Chromium	0.086	U	1	0.086	0.43	mg/Kg	11/04/24 11:00	11/04/24 14:55	7196A
Trivalent Chromium	17.5		1	0.55	0.55	mg/Kg		11/04/24 20:17	6010D

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24 13:26
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
		% Solid:	91.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.29		1	0.048	0.27	mg/Kg	11/01/24 14:00	11/04/24 12:09	9012B
Hexavalent Chromium	0.086	U	1	0.086	0.44	mg/Kg	11/04/24 11:00	11/04/24 14:56	7196A
Trivalent Chromium	12.9		1	0.55	0.55	mg/Kg		11/04/24 20:21	6010D

Comments: _____

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements
 H = Sample Analysis Out Of Hold Time

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24 13:39
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
		% Solid:	91.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.18	J	1	0.047	0.27	mg/Kg	11/01/24 14:00	11/04/24 12:14	9012B
Hexavalent Chromium	0.086	U	1	0.086	0.43	mg/Kg	11/04/24 11:00	11/04/24 14:57	7196A
Trivalent Chromium	13.8		1	0.55	0.55	mg/Kg		11/04/24 20:25	6010D

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

RunNo.: LB133276

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/04/2024
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	11/04/2024
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/04/2024
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/04/2024
Sample ID: CCV4 Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	11/04/2024

Initial and Continuing Calibration Verification

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

RunNo.: LB133277

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Cyanide	ICV1	mg/L	0.096	0.099	97	90-110	11/04/2024
Sample ID: Cyanide	CCV1	mg/L	0.24	0.25	96	90-110	11/04/2024
Sample ID: Cyanide	CCV2	mg/L	0.25	0.25	100	90-110	11/04/2024
Sample ID: Cyanide	CCV3	mg/L	0.25	0.25	100	90-110	11/04/2024

Initial and Continuing Calibration Blank Summary

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

RunNo.: LB133276

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	11/04/2024
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024
Sample ID: CCB4 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/04/2024

Initial and Continuing Calibration Blank Summary

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

RunNo.: LB133277

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	11/04/2024
Sample ID: CCB1 Cyanide	mg/L	0.0017	0.0025	J	0.00099	0.005	11/04/2024
Sample ID: CCB2 Cyanide	mg/L	0.0011	0.0025	J	0.00099	0.005	11/04/2024
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/04/2024

Preparation Blank Summary

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB164606BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	11/04/2024
Sample ID: PB164654BL							
Cyanide	mg/Kg	< 0.1250	0.1250	U	0.044	0.25	11/04/2024

Matrix Spike Summary

Client:	Union Paving & Construction Company	SDG No.:	P4663
Project:	Rt. 10 Whippany	Sample ID:	P4663-02
Client ID:	TENNANT-PAD-2-3-STOCKPILEMS	Percent Solids for Spike Sample:	90.9

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	2.30		0.33		2.2	1	90		11/04/2024

Matrix Spike Summary

Client:	Union Paving & Construction Company	SDG No.:	P4663
Project:	Rt. 10 Whippany	Sample ID:	P4663-02
Client ID:	TENNANT-PAD-2-3-STOCKPILEMSD	Percent Solids for Spike Sample:	90.9

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	2.20		0.33		2.2	1	85		11/04/2024

Matrix Spike Summary

Client:	Union Paving & Construction Company	SDG No.:	P4663
Project:	Rt. 10 Whippany	Sample ID:	P4675-06
Client ID:	COMP-6MS	Percent Solids for Spike Sample:	81.3

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	1580		0.15	J	1580	40	100		11/04/2024

Matrix Spike Summary

Client:	Union Paving & Construction Company	SDG No.:	P4663
Project:	Rt. 10 Whippany	Sample ID:	P4675-06
Client ID:	COMP-6MS	Percent Solids for Spike Sample:	81.3

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	48.9		0.15	J	49.2	2	99		11/04/2024

Matrix Spike Summary

Client:	Union Paving & Construction Company	SDG No.:	P4663
Project:	Rt. 10 Whippany	Sample ID:	P4675-06
Client ID:	COMP-6MS	Percent Solids for Spike Sample:	81.3

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	39.1		0.15	J	49.2	2	79		11/04/2024

Duplicate Sample Summary

Client:	Union Paving & Construction Company	SDG No.:	P4663
Project:	Rt. 10 Whippany	Sample ID:	P4663-02
Client ID:	TENNANT-PAD-2-3-STOCKPILEDUP	Percent Solids for Spike Sample:	90.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.33		0.35		1	6		11/04/2024

Duplicate Sample Summary

Client:	Union Paving & Construction Company	SDG No.:	P4663
Project:	Rt. 10 Whippany	Sample ID:	P4663-02
Client ID:	TENNANT-PAD-2-3-STOCKPILEMSD	Percent Solids for Spike Sample:	90.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.30		2.20		1	4		11/04/2024

Duplicate Sample Summary

Client:	Union Paving & Construction Company	SDG No.:	P4663
Project:	Rt. 10 Whippany	Sample ID:	P4675-06
Client ID:	COMP-6DUP	Percent Solids for Spike Sample:	81.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.15	J	0.15	J	1	0		11/04/2024

Laboratory Control Sample Summary

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

Run No.: LB133276

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164606BS							
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	11/04/2024

Laboratory Control Sample Summary

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

Run No.: LB133277

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164654BS							
Cyanide	mg/Kg	5	4.80		96	1	85-115	11/04/2024

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133276

Review By	rubina	Review On	11/4/2024 4:34:49 PM
Supervise By	Iwona	Supervise On	11/4/2024 4:44:32 PM
SubDirectory	LB133276	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	WP110515,WP110380,WP110381,WP108645		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/04/24 14:40		rubina	OK
2	CAL2	CAL2	CAL	11/04/24 14:41		rubina	OK
3	CAL3	CAL3	CAL	11/04/24 14:42		rubina	OK
4	CAL4	CAL4	CAL	11/04/24 14:43		rubina	OK
5	CAL5	CAL5	CAL	11/04/24 14:44		rubina	OK
6	CAL6	CAL6	CAL	11/04/24 14:45		rubina	OK
7	CAL7	CAL7	CAL	11/04/24 14:46		rubina	OK
8	ICV	ICV	ICV	11/04/24 14:47		rubina	OK
9	ICB	ICB	ICB	11/04/24 14:48		rubina	OK
10	CCV1	CCV1	CCV	11/04/24 14:49		rubina	OK
11	CCB1	CCB1	CCB	11/04/24 14:50		rubina	OK
12	RL Check	RL Check	SAM	11/04/24 14:51		rubina	OK
13	PB164606BL	PB164606BL	MB	11/04/24 14:52		rubina	OK
14	PB164606BS	PB164606BS	LCS	11/04/24 14:53		rubina	OK
15	P4663-02	TENNANT-PAD-2-3-S	SAM	11/04/24 14:54		rubina	OK
16	P4663-04	RES-BUILDING-PAD-	SAM	11/04/24 14:55		rubina	OK
17	P4663-06	RES-BUILDING-PAD-	SAM	11/04/24 14:56		rubina	OK
18	P4663-08	RES-BUILDING-PAD-	SAM	11/04/24 14:57		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133276

Review By	rubina	Review On	11/4/2024 4:34:49 PM
Supervise By	Iwona	Supervise On	11/4/2024 4:44:32 PM
SubDirectory	LB133276	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	WP110515,WP110380,WP110381,WP108645		

19	P4667-01	BP-F-6	SAM	11/04/24 14:58		rubina	OK
20	P4667-05	BP-F-5	SAM	11/04/24 14:59		rubina	OK
21	P4667-09	BP-F-10	SAM	11/04/24 15:00		rubina	OK
22	P4667-13	BP-F-7	SAM	11/04/24 15:01		rubina	OK
23	CCV2	CCV2	CCV	11/04/24 15:02		rubina	OK
24	CCB2	CCB2	CCB	11/04/24 15:03		rubina	OK
25	P4675-01	COMP-1	SAM	11/04/24 15:04		rubina	OK
26	P4675-02	COMP-2	SAM	11/04/24 15:05		rubina	OK
27	P4675-03	COMP-3	SAM	11/04/24 15:06		rubina	OK
28	P4675-04	COMP-4	SAM	11/04/24 15:07		rubina	OK
29	P4675-05	COMP-5	SAM	11/04/24 15:08		rubina	OK
30	P4675-06	COMP-6	SAM	11/04/24 15:09		rubina	OK
31	P4675-06DUP	COMP-6DUP	DUP	11/04/24 15:10		rubina	OK
32	P4675-06MSPre	COMP-6MS	MS	11/04/24 15:11		rubina	OK
33	P4675-06MS2Ins	COMP-6MS	MS	11/04/24 15:12		rubina	OK
34	P4675-06MS3Post	COMP-6MS	MS	11/04/24 15:13		rubina	OK
35	CCV3	CCV3	CCV	11/04/24 15:14		rubina	OK
36	CCB3	CCB3	CCB	11/04/24 15:15		rubina	OK
37	P4679-01	MH-1	SAM	11/04/24 15:16		rubina	OK
38	P4680-01	BP-F26	SAM	11/04/24 15:17		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133276

Review By	rubina	Review On	11/4/2024 4:34:49 PM
Supervise By	Iwona	Supervise On	11/4/2024 4:44:32 PM
SubDirectory	LB133276	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	WP110515,WP110380,WP110381,WP108645		

39	P4680-05	BP-F25	SAM	11/04/24 15:18		rubina	OK
40	P4682-01	BELL-SHOP-RAGS	SAM	11/04/24 15:19		rubina	OK
41	P4685-01	OK-01-11012024	SAM	11/04/24 15:20		rubina	OK
42	CCV4	CCV4	CCV	11/04/24 15:21		rubina	OK
43	CCB4	CCB4	CCB	11/04/24 15:22		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133277

Review By	Niha	Review On	11/5/2024 9:53:56 AM
Supervise By	Iwona	Supervise On	11/5/2024 10:41:00 AM
SubDirectory	LB133277	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP110521,WP110522,WP110523,WP110524,WP110525,WP110526,WP110527		
ICV Standard	W3011		
CCV Standard	WP110522		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP109549		
Chk Standard	WP109068,WP110103,WP110528		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/04/24 11:27		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/04/24 11:27		Niha	OK
3	10PPBCN	10PPBCN	CAL3	11/04/24 11:27		Niha	OK
4	50PPBCN	50PPBCN	CAL4	11/04/24 11:27		Niha	OK
5	100PPBCN	100PPBCN	CAL5	11/04/24 11:27		Niha	OK
6	250PPBCN	250PPBCN	CAL6	11/04/24 11:27		Niha	OK
7	500PPBCN	500PPBCN	CAL7	11/04/24 11:27		Niha	OK
8	ICV1	ICV1	ICV	11/04/24 12:01		Niha	OK
9	ICB1	ICB1	ICB	11/04/24 12:01		Niha	OK
10	CCV1	CCV1	CCV	11/04/24 12:01		Niha	OK
11	CCB1	CCB1	CCB	11/04/24 12:01		Niha	OK
12	PB164654BS	PB164654BS	LCS	11/04/24 12:09		Niha	OK
13	LOWPB164654	LOWPB164654	SAM	11/04/24 12:09		Niha	OK
14	HIGHPB164654	HIGHPB164654	SAM	11/04/24 12:09		Niha	OK
15	P4663-02	TENNANT-PAD-2-3-S	SAM	11/04/24 12:09		Niha	OK
16	P4663-02DUP	TENNANT-PAD-2-3-S	DUP	11/04/24 12:09		Niha	OK
17	P4663-02MS	TENNANT-PAD-2-3-S	MS	11/04/24 12:09		Niha	OK
18	P4663-02MSD	TENNANT-PAD-2-3-S	MSD	11/04/24 12:09		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133277

Review By	Niha	Review On	11/5/2024 9:53:56 AM
Supervise By	Iwona	Supervise On	11/5/2024 10:41:00 AM
SubDirectory	LB133277	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP110521,WP110522,WP110523,WP110524,WP110525,WP110526,WP110527		
ICV Standard	W3011		
CCV Standard	WP110522		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP109549		
Chk Standard	WP109068,WP110103,WP110528		

19	P4663-04	RES-BUILDING-PAD	SAM	11/04/24 12:09		Niha	OK
20	P4663-06	RES-BUILDING-PAD	SAM	11/04/24 12:09		Niha	OK
21	CCV2	CCV2	CCV	11/04/24 12:14		Niha	OK
22	CCB2	CCB2	CCB	11/04/24 12:14		Niha	OK
23	P4663-08	RES-BUILDING-PAD	SAM	11/04/24 12:14		Niha	OK
24	PB164654BL	PB164654BL	MB	11/04/24 12:17		Niha	OK
25	CCV3	CCV3	CCV	11/04/24 12:20		Niha	OK
26	CCB3	CCB3	CCB	11/04/24 12:20		Niha	OK

LAB CHRONICLE

OrderID:	P4663	OrderDate:	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	Project:	Rt. 10 Whippany
Contact:	Gregory Butler	Location:	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	TENNANT-PAD-2-3-ST OCKPILE	SOIL			10/31/24 12:50			10/31/24
			Cyanide	9012B		11/01/24	11/04/24 12:09	
			Hexavalent Chromium	7196A		11/04/24	11/04/24 14:54	
			Trivalent Chromium	6010D			11/04/24 20:12	
P4663-04	RES-BUILDING-PAD-N O-11	SOIL			10/31/24 13:04			10/31/24
			Cyanide	9012B		11/01/24	11/04/24 12:09	
			Hexavalent Chromium	7196A		11/04/24	11/04/24 14:55	
			Trivalent Chromium	6010D			11/04/24 20:17	
P4663-06	RES-BUILDING-PAD-N O-3	SOIL			10/31/24 13:26			10/31/24
			Cyanide	9012B		11/01/24	11/04/24 12:09	
			Hexavalent Chromium	7196A		11/04/24	11/04/24 14:56	
			Trivalent Chromium	6010D			11/04/24 20:21	
P4663-08	RES-BUILDING-PAD-N O-2	SOIL			10/31/24 13:39			10/31/24
			Cyanide	9012B		11/01/24	11/04/24 12:14	
			Hexavalent Chromium	7196A		11/04/24	11/04/24 14:57	

LAB CHRONICLE

Trivalent Chromium	6010D	11/04/24 20:25
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A

C

D

E

F

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

SDG No : N/A

Start Digest Date: 11/04/2024 Time : 11:00 Temp : 90 °C

Matrix : SOIL

End Digest Date: 11/04/2024 Time : 12:00 Temp : 95 °C

Pipette ID : WC

11 batch
11/04/2024 12:30 90 °C RM
11/04/2024 13:30 94 °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: *RM*

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

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3001
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP110092
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
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	WP110518
CAL3	CAL3	0.5ML	WP110518
CAL4	CAL4	1ML	WP110518
CAL5	CAL5	0.2ML	WP108658
CAL6	CAL6	1ML	WP108658
CAL7	CAL7	2.0ML	WP108658
ICV	ICV	1ML	WP108659
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP108658
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

11/04/2024 RM

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

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4663-02	TENNANT-PAD-2-3-STOCKPILE	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4663-04	RES-BUILDING-PAD-NO-11	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4663-06	RES-BUILDING-PAD-NO-3	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4663-08	RES-BUILDING-PAD-NO-2	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4667-01	BP-F-6	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4667-05	BP-F-5	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4667-09	BP-F-10	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4667-13	BP-F-7	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-01	COMP-1	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-02	COMP-2	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-03	COMP-3	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-04	COMP-4	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-05	COMP-5	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06	COMP-6	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06DUP	COMP-6DUP	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06MSPre	COMP-6MSPRE	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06MS2Ins	COMP-6MS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4675-06MS3Post	COMP-6MS3POST	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4679-01	MH-1	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4680-01	BP-F26	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4680-05	BP-F25	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
P4682-01	BELL-SHOP-RAGS	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4685-01	OK-01-11012024	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164606BL	PBS606	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164606BS	LCS606	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

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

SDG No : N/A

Start Digest Date: 11/01/2024 Time : 14:00 Temp : 123 °C

Matrix : SOLID

End Digest Date: 11/01/2024 Time : 15:30 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: NP

Weigh By : NF

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP109549
MS/MSD SPIKE SOL.	0.4ML	WP110035
PBS003	50.0ML	W3112
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
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	0.5ML	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
11.01.2024, 15:45	NF(WC)	NF(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
P4663-02	TENNANT-PAD-2-3-STOCKPILE	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-02DUP	TENNANT-PAD-2-3-STOCKPILE EDUP	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-02MS	TENNANT-PAD-2-3-STOCKPILE EMS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-02MSD	TENNANT-PAD-2-3-STOCKPILE EMSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-04	RES-BUILDING-PAD-NO-11	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-06	RES-BUILDING-PAD-NO-3	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4663-08	RES-BUILDING-PAD-NO-2	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164654BL	PBS654	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164654BS	LCS654	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A