

LAB CHRONICLE

OrderID:	P4852	OrderDate:	11/14/2024 11:23:00 AM
Client:	Kleinfelder	Project:	Webster School
Contact:	Mark Warchol	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4852-01	COMP-1	SOIL			11/13/24 09:40			11/14/24
			Ammonia	SM4500-NH3		11/19/24	11/19/24 15:30	
			Anions Group1	9056A			11/15/24 17:35	
			Hexavalent Chromium	7196A		11/15/24	11/15/24 12:55	
			Trivalent Chromium	6010D			11/18/24 15:26	
P4852-02	COMP-2	SOIL			11/13/24 10:20			11/14/24
			Ammonia	SM4500-NH3		11/19/24	11/19/24 15:38	
			Anions Group1	9056A			11/15/24 18:40	
			Hexavalent Chromium	7196A		11/15/24	11/15/24 12:56	
			Trivalent Chromium	6010D			11/18/24 15:31	
P4852-03	COMP-3	SOIL			11/13/24 10:50			11/14/24
			Ammonia	SM4500-NH3		11/19/24	11/19/24 15:38	
			Anions Group1	9056A			11/15/24 19:01	
			Hexavalent Chromium	7196A		11/15/24	11/15/24 12:57	
			Trivalent Chromium	6010D			11/18/24 15:43	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Kleinfelder	Date Collected:	11/13/24 09:40
Project:	Webster School	Date Received:	11/14/24
Client Sample ID:	COMP-1	SDG No.:	P4852
Lab Sample ID:	P4852-01	Matrix:	SOIL
		% Solid:	83.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1.10	U	1	1.10	6.00	mg/Kg	11/19/24 12:20	11/19/24 15:30	SM 4500-NH3 B plus G-11
Chloride	44.7		1	0.12	14.4	mg/Kg		11/15/24 17:35	9056A
Fluoride	6.70	J	1	0.46	9.60	mg/Kg		11/15/24 17:35	9056A
Sulfate	41.1	J	1	0.73	72.0	mg/Kg		11/15/24 17:35	9056A
Hexavalent Chromium	0.095	U	1	0.095	0.48	mg/Kg	11/15/24 09:30	11/15/24 12:55	7196A
Trivalent Chromium	18.6		1	0.60	0.60	mg/Kg		11/18/24 15:26	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:	Kleinfelder	Date Collected:	11/13/24 10:20
Project:	Webster School	Date Received:	11/14/24
Client Sample ID:	COMP-2	SDG No.:	P4852
Lab Sample ID:	P4852-02	Matrix:	SOIL
		% Solid:	81.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1.10	U	1	1.10	6.00	mg/Kg	11/19/24 12:20	11/19/24 15:38	SM 4500-NH3 B plus G-11
Chloride	36.3		1	0.12	14.6	mg/Kg		11/15/24 18:40	9056A
Fluoride	7.80	J	1	0.46	9.80	mg/Kg		11/15/24 18:40	9056A
Sulfate	29.1	J	1	0.74	73.1	mg/Kg		11/15/24 18:40	9056A
Hexavalent Chromium	0.096	U	1	0.096	0.48	mg/Kg	11/15/24 09:30	11/15/24 12:56	7196A
Trivalent Chromium	10.8		1	0.61	0.61	mg/Kg		11/18/24 15:31	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:	Kleinfelder	Date Collected:	11/13/24 10:50
Project:	Webster School	Date Received:	11/14/24
Client Sample ID:	COMP-3	SDG No.:	P4852
Lab Sample ID:	P4852-03	Matrix:	SOIL
		% Solid:	88.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1.10	J	1	1.00	5.60	mg/Kg	11/19/24 12:20	11/19/24 15:38	SM 4500-NH3 B plus G-11
Chloride	65.0		1	0.11	13.5	mg/Kg		11/15/24 19:01	9056A
Fluoride	9.10		1	0.43	9.00	mg/Kg		11/15/24 19:01	9056A
Sulfate	68.3		1	0.69	67.6	mg/Kg		11/15/24 19:01	9056A
Hexavalent Chromium	0.088	U	1	0.088	0.45	mg/Kg	11/15/24 09:30	11/15/24 12:57	7196A
Trivalent Chromium	16.2		1	0.57	0.57	mg/Kg		11/18/24 15:43	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: Kleinfelder

SDG No.: P4852

Project: Webster School

RunNo.: LB133468

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	11/15/2024
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	11/15/2024
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/15/2024
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	11/15/2024

Initial and Continuing Calibration Verification

Client: Kleinfelder

SDG No.: P4852

Project: Webster School

RunNo.: LB133508

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10	10	100	90-110	10/16/2024
Chloride	mg/L	3	3	100	90-110	10/16/2024
Fluoride	mg/L	2	2	100	90-110	10/16/2024
Nitrite	mg/L	3	3	100	90-110	10/16/2024
Nitrate	mg/L	2.5	2.5	100	90-110	10/16/2024
Sulfate	mg/L	14.9	15	99	90-110	10/16/2024
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/16/2024
Sample ID: CCV1						
Bromide	mg/L	10.5	10	105	90-110	11/15/2024
Chloride	mg/L	3.1	3	103	90-110	11/15/2024
Fluoride	mg/L	2.1	2	105	90-110	11/15/2024
Nitrite	mg/L	3.1	3	103	90-110	11/15/2024
Nitrate	mg/L	2.6	2.5	104	90-110	11/15/2024
Sulfate	mg/L	15.5	15	103	90-110	11/15/2024
Orthophosphate as P	mg/L	5.2	5	104	90-110	11/15/2024
Sample ID: CCV2						
Bromide	mg/L	10.5	10	105	90-110	11/15/2024
Chloride	mg/L	3.1	3	103	90-110	11/15/2024
Fluoride	mg/L	2.1	2	105	90-110	11/15/2024
Nitrite	mg/L	3.1	3	103	90-110	11/15/2024
Nitrate	mg/L	2.6	2.5	104	90-110	11/15/2024
Sulfate	mg/L	15.5	15	103	90-110	11/15/2024
Orthophosphate as P	mg/L	5.2	5	104	90-110	11/15/2024

Initial and Continuing Calibration Verification

Client: Kleinfelder

SDG No.: P4852

Project: Webster School

RunNo.: LB133520

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Ammonia as N		mg/L	0.99	1	99	90-110	11/19/2024
Sample ID:	CCV1						
Ammonia as N		mg/L	0.99	1	99	90-110	11/19/2024
Sample ID:	CCV2						
Ammonia as N		mg/L	1	1	100	90-110	11/19/2024
Sample ID:	CCV3						
Ammonia as N		mg/L	1	1	100	90-110	11/19/2024

Initial and Continuing Calibration Blank Summary

Client: Kleinfelder

SDG No.: P4852

Project: Webster School

RunNo.: LB133468

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	11/15/2024
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/15/2024
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/15/2024
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/15/2024

Initial and Continuing Calibration Blank Summary

Client: Kleinfelder

SDG No.: P4852

Project: Webster School

RunNo.: LB133508

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/16/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/16/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/16/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/16/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/16/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/15/2024
Chloride	mg/L	0.074	0.3000	J	0.011	0.6	11/15/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/15/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/15/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/15/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/15/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/15/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/15/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/15/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/15/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/15/2024

Initial and Continuing Calibration Blank Summary

Client: Kleinfelder

SDG No.: P4852

Project: Webster School

RunNo.: LB133520

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/19/2024
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/19/2024
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/19/2024
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	11/19/2024

Preparation Blank Summary

Client: Kleinfelder

SDG No.: P4852

Project: Webster School

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133508BLS							
Bromide	mg/Kg	< 20.0000	20.0000	U	0.49	40	11/15/2024
Chloride	mg/Kg	< 6.0000	6.0000	U	0.096	12	11/15/2024
Fluoride	mg/Kg	< 4.0000	4.0000	U	0.38	8	11/15/2024
Nitrite	mg/Kg	< 6.0000	6.0000	U	0.19	12	11/15/2024
Nitrate	mg/Kg	< 5.0000	5.0000	U	0.089	10	11/15/2024
Sulfate	mg/Kg	< 30.0000	30.0000	U	0.61	60	11/15/2024
Orthophosphate as P	mg/Kg	< 10.0000	10.0000	U	0.24	20	11/15/2024
Sample ID: PB164961BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	11/15/2024
Sample ID: PB165004BL							
Ammonia as N	mg/Kg	< 2.5000	2.5000	U	0.9	5	11/19/2024

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	P4852
Project:	Webster School	Sample ID:	P4833-01
Client ID:	MH-731MS	Percent Solids for Spike Sample:	86.3

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	1460		0.090	U	1490	40	98		11/15/2024

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	P4852
Project:	Webster School	Sample ID:	P4833-01
Client ID:	MH-731MS	Percent Solids for Spike Sample:	86.3

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	45.0		0.090	U	46.3	2	97		11/15/2024

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	P4852
Project:	Webster School	Sample ID:	P4833-01
Client ID:	MH-731MS	Percent Solids for Spike Sample:	86.3

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	38.0		0.090	U	46.3	2	82		11/15/2024

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	P4852
Project:	Webster School	Sample ID:	P4852-01
Client ID:	COMP-1MS	Percent Solids for Spike Sample:	83.2

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/Kg	80-120	254		0.59	U	240	1	106		11/15/2024
Ammonia as N	mg/Kg	75-125	58.9		1.10	U	58.9	1	100		11/19/2024
Chloride	mg/Kg	80-120	137		44.7		72	1	128	*	11/15/2024
Fluoride	mg/Kg	80-120	47.1		6.70	J	48	1	84		11/15/2024
Nitrite	mg/Kg	80-120	76.2		0.23	U	72	1	106		11/15/2024
Nitrate	mg/Kg	80-120	64.4		2.30	J	60	1	104		11/15/2024
Sulfate	mg/Kg	80-120	405		41.1	J	360	1	101		11/15/2024
Orthophosphate as P	mg/Kg	80-120	88.3		8.80	J	120	1	66	*	11/15/2024

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	P4852
Project:	Webster School	Sample ID:	P4852-01
Client ID:	COMP-1MSD	Percent Solids for Spike Sample:	83.2

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/Kg	80-120	254		0.59	U	240	1	106		11/15/2024
Ammonia as N	mg/Kg	75-125	60.8		1.10	U	59.5	1	102		11/19/2024
Chloride	mg/Kg	80-120	137		44.7		72	1	128	*	11/15/2024
Fluoride	mg/Kg	80-120	47.6		6.70	J	48	1	85		11/15/2024
Nitrite	mg/Kg	80-120	76.2		0.23	U	72	1	106		11/15/2024
Nitrate	mg/Kg	80-120	64.5		2.30	J	60	1	104		11/15/2024
Sulfate	mg/Kg	80-120	405		41.1	J	360	1	101		11/15/2024
Orthophosphate as P	mg/Kg	80-120	86.1		8.80	J	120	1	64	*	11/15/2024

Duplicate Sample Summary

Client:	Kleinfelder	SDG No.:	P4852
Project:	Webster School	Sample ID:	P4833-01
Client ID:	MH-731DUP	Percent Solids for Spike Sample:	86.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.090	U	0.090	U	1	0		11/15/2024

Duplicate Sample Summary

Client:	Kleinfelder	SDG No.:	P4852
Project:	Webster School	Sample ID:	P4852-01
Client ID:	COMP-1DUP	Percent Solids for Spike Sample:	83.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ammonia as N	mg/Kg	+/-20	1.10	U	1.10	U	1	0		11/19/2024

Duplicate Sample Summary

Client:	Kleinfelder	SDG No.:	P4852
Project:	Webster School	Sample ID:	P4852-01
Client ID:	COMP-1MSD	Percent Solids for Spike Sample:	83.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Bromide	mg/Kg	+/-15	254		254		1	0		11/15/2024
Chloride	mg/Kg	+/-15	137		137		1	0		11/15/2024
Nitrate	mg/Kg	+/-15	64.4		64.5		1	0		11/15/2024
Nitrite	mg/Kg	+/-15	76.2		76.2		1	0		11/15/2024
Sulfate	mg/Kg	+/-15	405		405		1	0		11/15/2024
Fluoride	mg/Kg	+/-15	47.1		47.6		1	1		11/15/2024
Orthophosphate as P	mg/Kg	+/-15	88.3		86.1		1	3		11/15/2024
Ammonia as N	mg/Kg	+/-20	58.9		60.8		1	3		11/19/2024

Laboratory Control Sample Summary

Client: Kleinfelder

SDG No.: P4852

Project: Webster School

Run No.: LB133508

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133508BSS							
Bromide	mg/Kg	200	210		105	1	90-110	11/15/2024
Chloride	mg/Kg	60	62.7		104	1	90-110	11/15/2024
Fluoride	mg/Kg	40	42.2		106	1	90-110	11/15/2024
Nitrite	mg/Kg	60	62.9		105	1	90-110	11/15/2024
Nitrate	mg/Kg	50	52.5		105	1	90-110	11/15/2024
Sulfate	mg/Kg	300	310		103	1	90-110	11/15/2024
Orthophosphate as P	mg/Kg	100	104		104	1	90-110	11/15/2024

Laboratory Control Sample Summary

Client: Kleinfelder
Project: Webster School

SDG No.: P4852
Run No.: LB133468

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB164961BS							
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	11/15/2024

Laboratory Control Sample Summary

Client: Kleinfelder

SDG No.: P4852

Project: Webster School

Run No.: LB133520

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB165004BS							
Ammonia as N	mg/Kg	50	51.0		102	1	90-110	11/19/2024