

LAB CHRONICLE

OrderID:	Q2807	OrderDate:	8/8/2025 10:01:00 AM
Client:	Kleinfelder	Project:	Girard School - PA
Contact:	Mark Warchol	Location:	J12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2807-01	COMP-4	SOIL			08/07/25 09:00			08/08/25
			Ammonia	SM4500-NH3		08/11/25	08/12/25 10:08	
			Anions Group1	9056A			08/08/25 11:49	
			Hexavalent Chromium	7196A		08/11/25	08/11/25 14:05	
			Trivalent Chromium	6010D			08/11/25 18:42	
Q2807-02	COMP-5	SOIL			08/07/25 09:50			08/08/25
			Ammonia	SM4500-NH3		08/11/25	08/12/25 10:08	
			Anions Group1	9056A			08/08/25 13:39	
			Hexavalent Chromium	7196A		08/11/25	08/11/25 14:06	
			Trivalent Chromium	6010D			08/11/25 18:47	
Q2807-03	COMP-6	SOIL			08/07/25 10:30			08/08/25
			Ammonia	SM4500-NH3		08/11/25	08/12/25 10:08	
			Anions Group1	9056A			08/08/25 14:00	
			Hexavalent Chromium	7196A		08/11/25	08/11/25 14:07	
			Trivalent Chromium	6010D			08/11/25 18:51	



SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	08/07/25 09:00
Project:	Girard School - PA	Date Received:	08/08/25
Client Sample ID:	COMP-4	SDG No.:	Q2807
Lab Sample ID:	Q2807-01	Matrix:	SOIL
		% Solid:	83.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.60	U	1	2.60	5.90	mg/Kg	08/11/25 12:00	08/12/25 10:08	SM 4500-NH3 B plus G-21
Chloride	50.5		1	4.20	14.4	mg/Kg		08/08/25 11:49	9056A
Fluoride	9.80		1	2.10	9.60	mg/Kg		08/08/25 11:49	9056A
Sulfate	19.0	J	1	10.5	71.9	mg/Kg		08/08/25 11:49	9056A
Hexavalent Chromium	0.082	U	1	0.082	0.47	mg/Kg	08/11/25 09:15	08/11/25 14:05	7196A
Trivalent Chromium	18.5		1	0.60	0.60	mg/Kg		08/11/25 18:42	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:	08/07/25 09:50
Project:	Girard School - PA	Date Received:	08/08/25
Client Sample ID:	COMP-5	SDG No.:	Q2807
Lab Sample ID:	Q2807-02	Matrix:	SOIL
		% Solid:	84.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.50	U	1	2.50	5.70	mg/Kg	08/11/25 12:00	08/12/25 10:08	SM 4500-NH3 B plus G-21
Chloride	12.2	J	1	4.10	14.2	mg/Kg		08/08/25 13:39	9056A
Fluoride	5.40	J	1	2.10	9.40	mg/Kg		08/08/25 13:39	9056A
Sulfate	19.2	J	1	10.4	70.9	mg/Kg		08/08/25 13:39	9056A
Hexavalent Chromium	0.083	U	1	0.083	0.47	mg/Kg	08/11/25 09:15	08/11/25 14:06	7196A
Trivalent Chromium	12.6		1	0.59	0.59	mg/Kg		08/11/25 18:47	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:	08/07/25 10:30
Project:	Girard School - PA	Date Received:	08/08/25
Client Sample ID:	COMP-6	SDG No.:	Q2807
Lab Sample ID:	Q2807-03	Matrix:	SOIL
		% Solid:	83.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.60	U	1	2.60	5.80	mg/Kg	08/11/25 12:00	08/12/25 10:08	SM 4500-NH3 B plus G-21
Chloride	163		1	4.20	14.4	mg/Kg		08/08/25 14:00	9056A
Fluoride	9.80		1	2.10	9.60	mg/Kg		08/08/25 14:00	9056A
Sulfate	24.9	J	1	10.5	71.8	mg/Kg		08/08/25 14:00	9056A
Hexavalent Chromium	0.081	U	1	0.081	0.47	mg/Kg	08/11/25 09:15	08/11/25 14:07	7196A
Trivalent Chromium	16.3		1	0.60	0.60	mg/Kg		08/11/25 18:51	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.: Q2807

Project: Girard School - PA

RunNo.: LB136749

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.3	10	103	90-110	08/06/2025
Chloride	mg/L	3.2	3	107	90-110	08/06/2025
Fluoride	mg/L	2	2	100	90-110	08/06/2025
Nitrite	mg/L	3.1	3	103	90-110	08/06/2025
Nitrate	mg/L	2.6	2.5	104	90-110	08/06/2025
Sulfate	mg/L	15.4	15	103	90-110	08/06/2025
Orthophosphate as P	mg/L	5	5	100	90-110	08/06/2025
Sample ID: CCV1						
Bromide	mg/L	10.1	10	101	90-110	08/08/2025
Chloride	mg/L	3	3	100	90-110	08/08/2025
Fluoride	mg/L	2	2	100	90-110	08/08/2025
Nitrite	mg/L	3	3	100	90-110	08/08/2025
Nitrate	mg/L	2.5	2.5	100	90-110	08/08/2025
Sulfate	mg/L	15	15	100	90-110	08/08/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	08/08/2025
Sample ID: CCV2						
Bromide	mg/L	10.1	10	101	90-110	08/08/2025
Chloride	mg/L	3	3	100	90-110	08/08/2025
Fluoride	mg/L	2	2	100	90-110	08/08/2025
Nitrite	mg/L	3	3	100	90-110	08/08/2025
Nitrate	mg/L	2.5	2.5	100	90-110	08/08/2025
Sulfate	mg/L	14.9	15	99	90-110	08/08/2025
Orthophosphate as P	mg/L	4.9	5	98	90-110	08/08/2025

Initial and Continuing Calibration Verification

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

RunNo.: LB136775

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.493	0.5	99	90-110	08/11/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	08/11/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.493	0.5	99	90-110	08/11/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	08/11/2025

Initial and Continuing Calibration Verification

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

RunNo.: LB136784

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	08/12/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.97	1	97	90-110	08/12/2025
Sample ID: CCV2 Ammonia as N	mg/L	0.97	1	97	90-110	08/12/2025
Sample ID: CCV3 Ammonia as N	mg/L	1	1	100	90-110	08/12/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.99	1	99	90-110	08/12/2025

Initial and Continuing Calibration Blank Summary

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

RunNo.: LB136749

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/06/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/06/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/06/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/06/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/06/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/06/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/06/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/08/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/08/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/08/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/08/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/08/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/08/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/08/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/08/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/08/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/08/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/08/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/08/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/08/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/08/2025

Initial and Continuing Calibration Blank Summary

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

RunNo.: LB136775

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	08/11/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	08/11/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	08/11/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	08/11/2025

Initial and Continuing Calibration Blank Summary

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

RunNo.: LB136784

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	0.032	0.0500	J	0.030	0.1	08/12/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	08/12/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	08/12/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	08/12/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	08/12/2025

Preparation Blank Summary

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136749BLS							
Bromide	mg/Kg	< 20.0000	20.0000	U	7	40	08/08/2025
Chloride	mg/Kg	< 6.0000	6.0000	U	3.5	12	08/08/2025
Fluoride	mg/Kg	< 4.0000	4.0000	U	1.8	8	08/08/2025
Nitrite	mg/Kg	< 6.0000	6.0000	U	1.5	12	08/08/2025
Nitrate	mg/Kg	< 5.0000	5.0000	U	1.8	10	08/08/2025
Sulfate	mg/Kg	< 30.0000	30.0000	U	8.8	60	08/08/2025
Orthophosphate as P	mg/Kg	< 10.0000	10.0000	U	6.7	20	08/08/2025
Sample ID: PB169184BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	08/11/2025
Sample ID: PB169198BL							
Ammonia as N	mg/Kg	< 2.5000	2.5000	U	2.2	5	08/12/2025

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2795-01
Client ID:	COMP-1MS	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/Kg	75-125	55.3		2.60	U	58.3	1	95		08/12/2025

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2795-01
Client ID:	COMP-1MS	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1520		0.083	U	1560	40	97		08/11/2025

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2795-01
Client ID:	COMP-1MS	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	46.3		0.083	U	48.5	2	96		08/11/2025

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2795-01
Client ID:	COMP-1MSD	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/Kg	75-125	56.0		2.60	U	59.4	1	94		08/12/2025

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2795-01
Client ID:	COMP-1MS	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	42.0		0.083	U	48.5	2	87		08/11/2025

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2807-01
Client ID:	COMP-4MS	Percent Solids for Spike Sample:	83.1

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	248		8.40	U	240	1	103		08/08/2025
Chloride	mg/Kg	80-120	122		50.5		72.1	1	99		08/08/2025
Fluoride	mg/Kg	80-120	47.7		9.80		48	1	79	*	08/08/2025
Nitrite	mg/Kg	80-120	73.7		1.80	U	72.1	1	102		08/08/2025
Nitrate	mg/Kg	80-120	62.6		2.20	U	60	1	104		08/08/2025
Sulfate	mg/Kg	80-120	375		19.0	J	360	1	99		08/08/2025
Orthophosphate as P	mg/Kg	80-120	95.5		8.00	U	120	1	80	*	08/08/2025

Matrix Spike Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2807-01
Client ID:	COMP-4MSD	Percent Solids for Spike Sample:	83.1

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	247		8.40	U	240	1	103		08/08/2025
Chloride	mg/Kg	80-120	121		50.5		71.8	1	98		08/08/2025
Fluoride	mg/Kg	80-120	47.2		9.80		47.8	1	78	*	08/08/2025
Nitrite	mg/Kg	80-120	73.5		1.80	U	71.8	1	102		08/08/2025
Nitrate	mg/Kg	80-120	62.3		2.20	U	59.8	1	104		08/08/2025
Sulfate	mg/Kg	80-120	373		19.0	J	360	1	98		08/08/2025
Orthophosphate as P	mg/Kg	80-120	92.0		8.00	U	120	1	77	*	08/08/2025

Duplicate Sample Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2795-01
Client ID:	COMP-1DUP	Percent Solids for Spike Sample:	82.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.083	U	0.083	U	1	0		08/11/2025
Ammonia as N	mg/Kg	+/-20	2.60	U	2.60	U	1	0		08/12/2025

Duplicate Sample Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2795-01
Client ID:	COMP-1MSD	Percent Solids for Spike Sample:	82.5

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	55.3		56.0		1	1		08/12/2025

Duplicate Sample Summary

Client:	Kleinfelder	SDG No.:	Q2807
Project:	Girard School - PA	Sample ID:	Q2807-01
Client ID:	COMP-4MSD	Percent Solids for Spike Sample:	83.1

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Bromide	mg/Kg	+/-15	248		247		1	0		08/08/2025
Nitrate	mg/Kg	+/-15	62.6		62.3		1	0		08/08/2025
Nitrite	mg/Kg	+/-15	73.7		73.5		1	0		08/08/2025
Chloride	mg/Kg	+/-15	122		121		1	1		08/08/2025
Fluoride	mg/Kg	+/-15	47.7		47.2		1	1		08/08/2025
Sulfate	mg/Kg	+/-15	375		373		1	1		08/08/2025
Orthophosphate as P	mg/Kg	+/-15	95.5		92.0		1	4		08/08/2025

Laboratory Control Sample Summary

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

Run No.: LB136749

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136749BSS							
Bromide	mg/Kg	200	202		101	1	90-110	08/08/2025
Chloride	mg/Kg	60	60.8		101	1	90-110	08/08/2025
Fluoride	mg/Kg	40	40.5		101	1	90-110	08/08/2025
Nitrite	mg/Kg	60	60.3		100	1	90-110	08/08/2025
Nitrate	mg/Kg	50	50.3		101	1	90-110	08/08/2025
Sulfate	mg/Kg	300	300		100	1	90-110	08/08/2025
Orthophosphate as P	mg/Kg	100	102		102	1	90-110	08/08/2025

Laboratory Control Sample Summary

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

Run No.: LB136775

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB169184BS							
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	08/11/2025

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Laboratory Control Sample Summary

Client: Kleinfelder

SDG No.: Q2807

Project: Girard School - PA

Run No.: LB136784

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB169198BS							
Ammonia as N	mg/Kg	50	50.4		101	1	90-110	08/12/2025

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