



January 13, 2026

Mr. Josh Reed
City of Galena
1020 S. Wood
Galena, KS 66739

RE: Project: SULFIDE
Pace Project No.: 60488707

Dear Mr. Reed:

Enclosed are the analytical results for sample(s) received by the laboratory on January 12, 2026. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John Stanton
john.stanton@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Crinton Atkins, City of Galena
Damien Kitchens, City of Galena
Kelby Procino, City of Galena
Tracy Roberts, City of Galena



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SULFIDE

Pace Project No.: 60488707

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

EPA Lab Code: KS00021

Arkansas Certification #: 88-00679

Illinois Certification #: 200030

Colorado Division of Oil and Public Safety

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Oklahoma Certification #: 9205

Texas Certification #: T104704407

Utah Certification #: KS0002125-15

UDSA_CA : #KS-SC-DOM-25-01

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SAMPLE SUMMARY

Project: SULFIDE
Pace Project No.: 60488707

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60488707001	RAW WATER	Water	01/12/26 13:21	01/12/26 17:20
60488707002	TEST SITE 2	Water	01/12/26 14:01	01/12/26 17:20

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SAMPLE ANALYTE COUNT

Project: SULFIDE

Pace Project No.: 60488707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60488707001	RAW WATER	SM 4500-S-2 D	IED	1	PASI-K
60488707002	TEST SITE 2	SM 4500-S-2 D	IED	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: **SULFIDE**

Pace Project No.: 60488707

Sample: RAW WATER	Lab ID: 60488707001	Collected: 01/12/26 13:21	Received: 01/12/26 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	ND	mg/L	0.050	1		01/13/26 10:33	18496-25-8	

Sample: TEST SITE 2	Lab ID: 60488707002	Collected: 01/12/26 14:01	Received: 01/12/26 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City							
Sulfide, Total	ND	mg/L	0.050	1		01/13/26 10:33	18496-25-8	

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QUALIFIERS

Project: SULFIDE

Pace Project No.: 60488707

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SULFIDE
Pace Project No.: 60488707

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60488707001	RAW WATER	SM 4500-S-2 D	961268		
60488707002	TEST SITE 2	SM 4500-S-2 D	961268		

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WO#: 60488707



DC#_Title: ENV-FRM-LENE-0009_Sample Condi

Revision: 3

Effective Date: 09/22/2025

Issued By: Lenexa

Client Name: Galen a

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Cooling process has begun

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 2-4 Corr. Factor 0-0 Corrected 2-4

Date and initials of person examining contents:
1/13/26

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) LOT#: <u>82728</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here



60488707

Scan QR Code for instructions

Company Name: **1020 S Wood Street**
 Street Address: **Galena, Kansas 66739**

Customer Project #:
 Project Name:
 Site Collection Info/Facility ID (as applicable):

Contact/Report To:
 Phone #:
 E-Mail:
 Cc E-Mail:

Invoice To:
 Invoice E-Mail:
 Purchase Order # (if applicable):
 Quote #:

County / State origin of sample(s):

Time Zone Collected: AK PT MT CT ET

Data Deliverables:
 Level II Level III Level IV
 EQUIS
 Other _____

Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required):
 2 Day 3 day 5 day Other _____

DW PWSID # or WW Permit # as applicable:
 Field Filtered (if applicable): Yes No
 Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res. CL2	Number & Type of Containers	
			Date	Time	Date	Time		Plastic	Glass
Raw Water			01/12/2026	1:21 P.M.				X	
Test Site 2			01/12/2026	2:01 P.M.				X	

Specify Container Size **
 Identify Container Preservative Type***
 Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other
 *** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Proj. Mgr:
 AcctNum / Client ID:
 Table #:
 Profile / Template:
 Prelog / Bottle Ord. ID:

Sample Comment

Customer Remarks / Special Conditions / Possible Hazards:

Collected By: **City of Galena**
 Printed Name: **Crinton Atkins**
 Signature: *Crinton Atkins*

Additional Instructions from Pace®:
 # Coolers: **1** Thermometer ID: **T-301** Correction Factor (°C): **0.0** Obs. Temp. (°C): **2.4** Corrected Temp. (°C): **2.4**

Relinquished by/Company: (Signature) *Crinton Atkins*
 Date/Time: **01/12/2026**

Relinquished by/Company: (Signature)
 Date/Time:

Relinquished by/Company: (Signature)
 Date/Time:

Relinquished by/Company: (Signature)
 Date/Time:

Received by/Company: (Signature) *[Signature]*
 Date/Time: **1/12/26 1720**

Received by/Company: (Signature)
 Date/Time:

Received by/Company: (Signature)
 Date/Time:

Received by/Company: (Signature)
 Date/Time:

Tracking Number:
 Delivered by: In-Person Courier
 FedEx UPS Other
 Page: _____ of _____

Page 1 of 1

Client: _____

Galena

Profile/EZ # _____

Site: _____

Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other
1	WT																													
2	I																													
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass			Plastic			Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic		
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate		
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic		
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe
				BP4U	125mL unpreserved plastic	DW	Drinking Water
				BP4N	125mL HNO3 plastic		
				BP4S	125mL H2SO4 plastic		
				WPDU	16oz unpreserved plstic		

Work Order Number:

60488207