

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : ALS MIDDLETOWN

ALS ENVIRONMENTAL

301 Fulling Mill Road

Middletown, PA - 17057

Phone No: 8007947709

ORDER ID : Q3851

ATTENTION : Jessica Smith



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3851

Project ID : ALS Middletown

Client : ALS Environmental

Lab Sample Number

Q3851-01
Q3851-02
Q3851-03

Client Sample Number

MRS/NRS
Delumper Feed
MIX

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 12/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

ALS Environmental

Project Name: ALS Middletown

Project # N/A

Order ID # Q3851

Test Name: Ammonia

A. Number of Samples and Date of Receipt:

3 Solid samples were received on 12/12/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Ammonia. This data package contains results for Ammonia.

C. Analytical Techniques:

The analysis of Ammonia was based on method SM4500-NH3.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample MRS/NRS was diluted due to high concentrations for Ammonia as N & Sample

Delumper Feed was diluted due to high concentrations for Ammonia as N & Sample

Delumper FeedDL was diluted due to high concentrations for Ammonia as N & Sample

MIX was diluted due to high concentrations for Ammonia as N.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3851

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/17/2025



SAMPLE DATA

Report of Analysis

Client:	ALS Environmental	Date Collected:	11/30/25 23:59
Project:	ALS Middletown	Date Received:	12/12/25
Client Sample ID:	MRS/NRS	SDG No.:	Q3851
Lab Sample ID:	Q3851-01	Matrix:	SOIL
		% Solid:	1.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	13600	OR	1	176	401	mg/Kg	12/16/25 10:35	12/16/25 12:42	SM 4500-NH3 B plus G-21

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:	ALS Environmental	Date Collected:	11/30/25 23:59
Project:	ALS Middletown	Date Received:	12/12/25
Client Sample ID:	MRS/NRSDL	SDG No.:	Q3851
Lab Sample ID:	Q3851-01DL	Matrix:	SOIL
		% Solid:	1.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	13900	D	2	353	801	mg/Kg	12/16/25 10:35	12/16/25 13:22	SM 4500-NH3 B plus G-21

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:	ALS Environmental	Date Collected:	11/30/25 23:59
Project:	ALS Middletown	Date Received:	12/12/25
Client Sample ID:	Delumper Feed	SDG No.:	Q3851
Lab Sample ID:	Q3851-02	Matrix:	SOIL
		% Solid:	17

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	8810	OR	1	12.6	28.6	mg/Kg	12/16/25 10:35	12/16/25 12:52	SM 4500-NH3 B plus G-21

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:	ALS Environmental	Date Collected:	11/30/25 23:59
Project:	ALS Middletown	Date Received:	12/12/25
Client Sample ID:	Delumper FeedDL	SDG No.:	Q3851
Lab Sample ID:	Q3851-02DL	Matrix:	SOIL
		% Solid:	17

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	14500	OR	20	251	571	mg/Kg	12/16/25 10:35	12/16/25 13:22	SM 4500-NH3 B plus G-21

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:	ALS Environmental	Date Collected:	11/30/25 23:59
Project:	ALS Middletown	Date Received:	12/12/25
Client Sample ID:	Delumper FeedDL2	SDG No.:	Q3851
Lab Sample ID:	Q3851-02DL2	Matrix:	SOIL
		% Solid:	17

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	14500	D	40	503	1140	mg/Kg	12/16/25 10:35	12/16/25 13:46	SM 4500-NH3 B plus G-21

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:	ALS Environmental	Date Collected:	11/30/25 23:59
Project:	ALS Middletown	Date Received:	12/12/25
Client Sample ID:	MIX	SDG No.:	Q3851
Lab Sample ID:	Q3851-03	Matrix:	SOIL
		% Solid:	2.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	10400	OR	1	73.7	167	mg/Kg	12/16/25 10:35	12/16/25 12:52	SM 4500-NH3 B plus G-21

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:	ALS Environmental	Date Collected:	11/30/25 23:59
Project:	ALS Middletown	Date Received:	12/12/25
Client Sample ID:	MIXDL	SDG No.:	Q3851
Lab Sample ID:	Q3851-03DL	Matrix:	SOIL
		% Solid:	2.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	9710	D	5	368	837	mg/Kg	12/16/25 10:35	12/16/25 13:22	SM 4500-NH3 B plus G-21

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

LAB CHRONICLE

OrderID:	Q3851	OrderDate:	12/12/2025 10:44:00 AM
Client:	ALS Environmental	Project:	ALS Middletown
Contact:	Jessica Smith	Location:	G11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3851-01	MRS/NRS	SOIL			11/30/25 23:59			12/12/25
			Ammonia	SM4500-NH3		12/16/25	12/16/25 12:42	
Q3851-01DL	MRS/NRSDL	SOIL			11/30/25 23:59			12/12/25
			Ammonia	SM4500-NH3		12/16/25	12/16/25 13:22	
Q3851-02	Delumper Feed	SOIL			11/30/25 23:59			12/12/25
			Ammonia	SM4500-NH3		12/16/25	12/16/25 12:52	
Q3851-02DL	Delumper FeedDL	SOIL			11/30/25 23:59			12/12/25
			Ammonia	SM4500-NH3		12/16/25	12/16/25 13:22	
Q3851-02DL 2	Delumper FeedDL2	SOIL			11/30/25 23:59			12/12/25
			Ammonia	SM4500-NH3		12/16/25	12/16/25 13:46	
Q3851-03	MIX	SOIL			11/30/25 23:59			12/12/25
			Ammonia	SM4500-NH3		12/16/25	12/16/25 12:52	
Q3851-03DL	MIXDL	SOIL			11/30/25 23:59			12/12/25
			Ammonia	SM4500-NH3		12/16/25	12/16/25 13:22	



SHIPPING DOCUMENTS



301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:	Q 3851	of
ALS Quote #:		

Client Name: ALS Middletown			Container Type CG													Receipt Information (completed by Receiving Lab)			
Address: 301 Fulling Mill Rd Middletown PA 17057			Container Size 4oz													Temp Taken By: _____ Therm ID: _____ WO Temp (°C) _____			
Contact: Jessica Smith			Preservative UNP													Receipt Info completed by: _____ WV Containers 0-6°C Y N NA			
Phone#: 717-944-5541			Orthophosphate Filtered? Yes No Hexavalent Chromium Filtered? Yes No													Deviations? NO YES			
Project Name#: 3444816			ANALYSIS / METHOD REQUESTED													Sample Custody Seal Intact Y N NA		If YES, list below:	
Bill To: Same			SM4500NH3D %TS - Please report below result TS% - Date Analyzed TS% - Time Analyzed TS% - Analyst NJ CERT REQUIRED FOR ALL ANALYSES REQUESTED.													Received on Ice Y N NA		Client contact: Date/Tech: _____	
Purchase Order #: 40-3444816																COOLERS & SAMPLES INTACT Y N			
TAT <input type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input checked="" type="checkbox"/> Rush-Subject to ALS approval and surcharges.																Correct Containers Provided Y N			
Date Required: 12/17/2025																Sample Label/COC Agree Y N			
Email? <input checked="" type="checkbox"/> namdt.subcontract@alsglobal.com																Adequate Sample Volumes Y N			
																VOA only: Trip Blank Y N NA			
																NJ ≤ 4 days? Y N			
																Courier/Tracking #			
Sample Description/Location (as it will appear on the lab report)			Date Collected mm/dd/yy		Time hh:mm		SDWA Sample Type (see key) *G or C		**Matrix (See bottom of COC)		Enter Number of Containers Per Sample or Field Results Below.		Sample(s) for Radiation testing? Y N		Rad Screen (uCi) _____				
													Reportable SDWA Sample(s)? Y N		New Source? Y N				
													SDWA State of Origin? _____		New Source Contact:				
													PWSID # _____						
													PWS Contact: _____ PWS Phone #: _____						
													SDWA Sample Type Key: D=Distribution E=Entry Point						
													R=Raw P=Plant C=Check S=Special A=Annual Startup						
													Sample/COC Remarks						
													Alliance Technical Group						
													284 Sheffield Street, Mountainside, NJ 07092						
													Contains Short Hold Testing YES NO						
													Internal Use: If less than 48 hours - notify lab upon receipt						
Circle Sample Collector: ALS Tech / Client			Comments: Please report using ALS Total Solids provided above for each sample.													Data Deliverables			
Name: Stonybrook SA ID: _____																<input checked="" type="checkbox"/> Standard Lvl 1 <input type="checkbox"/> CLP-like <input type="checkbox"/> HSCA			
																<input type="checkbox"/> Standard Lvl 2 <input type="checkbox"/> DOD <input type="checkbox"/> Landfill			
																<input type="checkbox"/> Standard Lvl 3 <input type="checkbox"/> NJ RED <input type="checkbox"/> NJ GW			
																<input type="checkbox"/> Standard Lvl 4 <input type="checkbox"/> NJ Full <input type="checkbox"/> _____			
Date: 12-11-25 Time: 1600			Relinquished By / Company Name				Received By / Company Name				EDDS				State Samples Collected In				
			1 <i>Stonybrook/ALS</i>				2 <i>CR = 12/12/25 10:34 AM</i>				<input type="checkbox"/> Excel Summary				Sample Disposal				
			3				4				<input type="checkbox"/> Equis				Lab <input checked="" type="checkbox"/> X				
			5				6				<input type="checkbox"/> Custom				Special <input type="checkbox"/>				
			7				8								<input type="checkbox"/> NY				
			9				10								<input checked="" type="checkbox"/> NJ				
															<input type="checkbox"/> PA				
															<input type="checkbox"/> WV				
															<input type="checkbox"/> FL				
															other				

*G=Grab; C=Composite **Matrix - A=Air; D=Drinking Water; GW=Groundwater; O=Oil; LW=Liquid Waste; S=Solid/Soil/Sludge; SW=Surface Water; WP=Wipe; WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

Rev 07.06.2023

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312