Special Testing Lab, Inc.
21 Henry Street
Bethel, Ct. 06801
(203) 743-7281

Sieve Analysis

Date Received: 02/19/25 **By:** Client
Date Tested: 02/20/25 **Project:** Lawton Adams
Sample #: 25S0017E **Client:** Lawton Adams
Material: Onsite **Date Issued:** 02/27/25
Color: Brown **Lab Tech:** BS

ONE SET OF SIEVES ONLY: x

ASTM C-136

STL Standard General

Gravel Section
Weights are Cumulative: x

Sieve US	Size mm	**Cumulative Retained Weight**	Cumulative Percent Retained	**Cumulative Percent Passing**	Interpolated Percent Passing	**Specs Max**	**Min**
24.00"	609.60	**0.00**	0.0%	**100%**	100.0%		
6.00"	152.40	**0.00**	0.0%	**100%**	100.0%		
4.00"	101.60	**0.00**	0.0%	**100%**	100.0%		100 %
3.00"	75.00	**0.00**	0.0%	**100%**	100.0%		
2.00"	50.00	**0.00**	0.0%	**100%**	100.0%		
1.75"	45.00				100.0%		
1.50"	37.50	**0.00**	0.0%	**100%**	100.0%		
1.25"	31.50				95.9%		
1.00"	25.00				91.4%		
7/8"	22.40				89.6%		
3/4"	19.00	**193.31**	12.7%	**87%**	87.3%		
5/8"	16.00				84.4%		
1/2"	12.50	**289.92**	19.1%	**81%**	80.9%		
3/8"	9.50				74.5%		
1/4"	6.30	**491.14**	32.3%	**68%**	67.7%		
#4	4.75	**550.05**	36.2%	**64%**	63.8%		
Leave Blank			63.8%				
Total Weight							

ASTM D-2487
Unified Soils Classification System
SP-SM, Poorly graded Sand with Silt and Gravel

The data presented on this report relates only to the material sample tested
Deviations from the test method described in the referenced ASTM: None

Other Notes: **Structual Screened Fill**
Source: **Onsite**
Ref Spec: **NYSDOT 733-14 Select Structural Fill**

Sample Meets Gradation

Fines Section
Weights are Cumulative: x

Before Wash Weight: **1521.24**
After Wash Weight:
After Sieving Weight:

Sieve US	Size mm	**Cumulative Retained Weight**	Cumulative Percent Retained	**Cumulative Percent Passing**	Interpolated Percent Passing	**Specs Max**	**Min**
#8	2.36				54.4%		
#10	2.00	**714.59**	47.0%	**53%**	53.0%		
#16	1.18				42.0%		
#20	0.85				37.6%		
#30	0.600				34.3%		
#40	0.425	**1035.56**	68.1%	**32%**	31.9%	70%	0%
#50	0.300				23.2%		
#60	0.250				19.8%		
#80	0.180				14.9%		
#100	0.150	**1326.19**	87.2%	**13%**	12.8%		
#140	0.106				8.8%		
#170	0.090				7.3%		
#200	0.075	**1430.80**	94.1%	**5.9%**	5.9%	15%	0%
Pan		**1519.63**					

% Gravel = 36.2 %
% Sand = 57.9 %
% Silt & Clay = 5.9 %
% Silt: N/A, Run Hydrometer
% Clay: N/A, Run Hydrometer

STL uses the simple acceptance/simple rejection decision rule to determine in-tolerance and out-of-tolerance or pass/fail comply (yes/no) conditions and no measeurement uncertainty is applied in this determinination.

NVLAP TESTING
NVLAP LAB CODE 100308-0

This report cannot be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the US government.

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Proctor Report

Date Tested: 02/20/25 **Project:** Lawton Adams
Sample #: 25S0017E **Client:** Lawton Adams
Material: Onsite **Date Issued:** 02/27/25
Color: Brown **Lab Tech:** BS

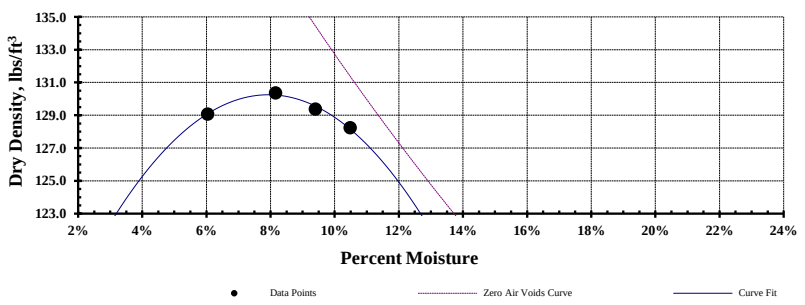
The data presented on this report relates only to the material sample tested.

ASTM D-2487, Unified Soils Classification System
SP-SM, Poorly graded Sand with Silt and Gravel

Sample Prepared:	Moist: X		Manual:	
	Dry:		Mechanical: X	
Test Standard:	AASHTO T 99:		AASHTO T 180:	Method
	ASTM D 698-12e2:		ASTM D 1557-12e1: X	C

Assumed Sp. Gr.	Point Number	Percent Moisture	Dry Density lbs/ft^3	Dry Density Kgs/m^3	Maximum Dry Density	Optimum % Moisture
2.70	1	6.0%	129.1	2,068	**130.2 lbs/ft^3**	**7.9 %**
	2	8.2%	130.4	2,088	**Corrected Density:**	**134.8**
	3	9.4%	129.4	2,073	**Corrected Moisture:**	**6.8**
	4	10.5%	128.2	2,054		

Moisture Density Relationship



ASTM D-4718, Correction for Oversize Particles **% Retained 3/4" 12.7%**

% Retained 3/4" Sieve	Corrected Density lbs/ft^3	Corrected Density Kgs/m^3	Optimum Moisture	% Retained 3/4" Sieve	Corrected Density lbs/ft^3	Corrected Density Kgs/m^3	Optimum Moisture
5%	131.7	2,111	7.6%	20%	136.4	2,186	6.5%
10%	133.3	2,135	7.2%	25%	138.1	2,212	6.1%
15%	134.8	2,160	6.8%	30%	139.8	2,239	5.7%

Sieve US	Size mm		Specifications Max	Min
24.00"	609.6	100.0 %		
6.00"	152.4	100.0 %		
4.00"	101.6	100.0 %		
3.00"	75.0	100.0 %		
2.00"	50.0	100.0 %		
1.75"	45.0			
1.50"	37.5	100.0 %		
1.25"	31.5			
1.00"	25.0			
7/8"	22.4			
3/4"	**19.0**	**87.3 %**		
5/8"	16.0			
1/2"	12.5	80.9 %		
3/8"	9.5			
1/4"	6.3	67.7 %		
#4	4.750	63.8 %		
#8	2.360			
#10	2.000	53.0 %		
#16	1.180			
#20	0.850			
#30	0.600			
#40	0.425	31.9 %		
#50	0.300			
#60	0.250			
#80	0.180			
#100	0.150	12.8 %		
#140	0.106			
#170	0.090			
#200	0.075	5.9 %		

Specs: **Meets Specs?** **0**
STL Standard General

% Gravel:	36.2%	$D_{(10)}$:	0.000
% Sand:	57.9%	$D_{(30)}$:	0.000
% Silt&Clay:	5.9%	$D_{(60)}$:	0.000
C_C:	0.35	LL:	0.0%
C_U:	31.65	PL:	0.0%
FM:	0.00	PI:	0.0%

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NVLAP LAB CODE 100308-0

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