

**DATA PACKAGE**  
**GENERAL CHEMISTRY**

**PROJECT NAME : OVEC - KYGER CREEK**

**ENTACT.**

**150 Bay Street**

**Suite 806**

**Jersey City, NJ - 07302**

**Phone No: 201-356-9196**

**ORDER ID : Q2850, Q2851, Q2852**

**ATTENTION : Wyatt Steel**



## Cover Page

**Order ID :** Q2850, Q2851, Q2852

**Project ID :** OVEC - Kyger Creek

**Client :** ENTACT.

### Lab Sample Number

Q2850-01  
Q2850-02  
Q2851-01  
Q2851-02  
Q2852-01  
Q2852-02

### Client Sample Number

SFAP 1  
NSP 5  
NSP 3  
NSP 1  
NSP 4  
NSP 2

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 : \_\_\_\_\_



GEOLAB

• NEW JERSEY  
1017 GREELEY AVE SOUTH  
UNION, NJ 07083  
908.964.0786

• SOUTH CAROLINA  
49 BROWNS COVE ROAD SUITE 6  
RIDGELAND, SC 29936  
848.316.9950

### Letter of Transmittal

Date: 9-9-25

Job No.: 889

Lab Log: 25-4437

Attention: Yazmeen  
Alliance Technical Group  
284 Sheffield Street  
Mountainside, NJ 07092

CC: Jordan Hedvat, projectmanagers@chemtech.net

Re: Q2850 – OVEC – Kyger Creek

Sample(s) ID: **SFAP 1, NSP 5, NSP 3, NSP 1, NSP 4, NSP 2**

Dear Yazmeen,

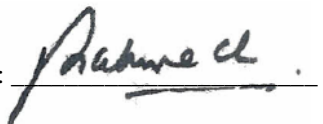
Please find attached results for the samples referenced above. The following lab testing was performed:

- ASTM D4318 Atterberg Limits
- ASTM D422 Sieve & Hydrometer Analysis
- ASTM D698 Standard Proctor

Regards,  
RSA Geolab, LLC

Remarks: If you have any questions, please call 908-964-0786.

Signed: \_\_\_\_\_

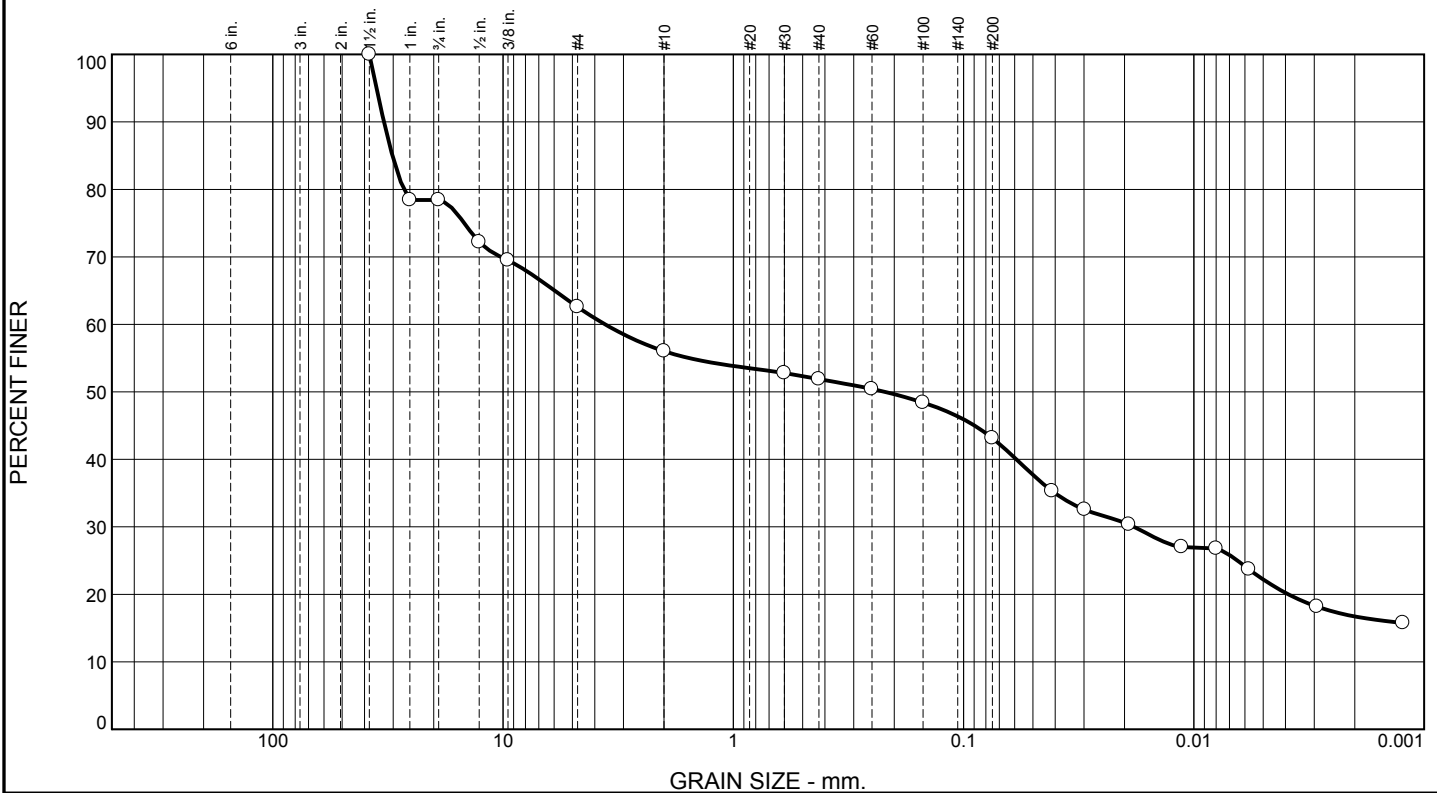
  
Dr. Raza S. Ahmed  
President RSA Geolab, LLC

<https://www.rsageolab.com/>  
email: [rsa@rsageolab.com](mailto:rsa@rsageolab.com)

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# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	21.6	15.8	6.6	4.1	8.8	20.9	22.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	78.4		
.75	78.4		
.5	72.2		
.375	69.5		
#4	62.6		
#10	56.0		
#30	52.8		
#40	51.9		
#60	50.4		
#100	48.4		
#200	43.1		

\* (no specification provided)

Material Description		
Brownish Yellow clayey gravel with sand		
<b>Atterberg Limits</b>		
PL= 25	LL= 51	PI= 26
<b>Coefficients</b>		
D <sub>90</sub> = 32.9207	D <sub>85</sub> = 30.2534	D <sub>60</sub> = 3.6076
D <sub>50</sub> = 0.2199	D <sub>30</sub> = 0.0182	D <sub>15</sub> =
D <sub>10</sub> =	C <sub>u</sub> =	C <sub>c</sub> =
<b>Classification</b>		
USCS= GC	AASHTO=	A-7-6(7)
<b>Remarks</b>		

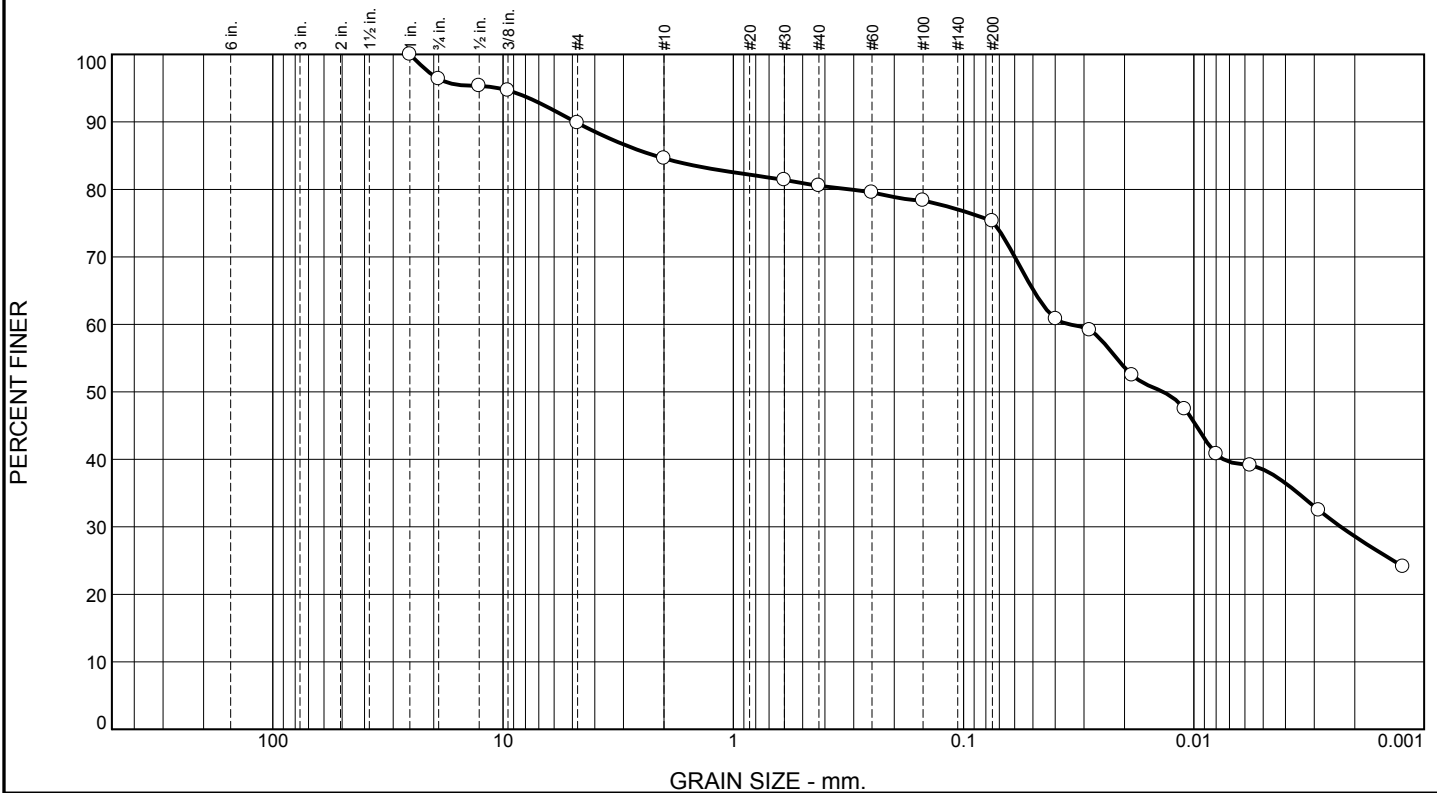
Sample Number: NSP 1

Date: 9-9-25

<b>RSA Geolab</b>  <b>Union, New Jersey</b>	<b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek
	<b>Project No:</b> 889 <b>Figure</b>

Tested By: CS Checked By: KH

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.6	6.6	5.2	4.1	5.2	36.8	38.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	96.4		
.5	95.3		
.375	94.7		
#4	89.8		
#10	84.6		
#30	81.4		
#40	80.5		
#60	79.5		
#100	78.3		
#200	75.3		

\* (no specification provided)

**Material Description**  
Brownish Yellow lean clay with sand

**Atterberg Limits**  
 PL= 20      LL= 42      PI= 22

**Coefficients**  
 D<sub>90</sub>= 4.8517      D<sub>85</sub>= 2.1884      D<sub>60</sub>= 0.0349  
 D<sub>50</sub>= 0.0136      D<sub>30</sub>= 0.0023      D<sub>15</sub>=  
 D<sub>10</sub>=      C<sub>u</sub>=      C<sub>c</sub>=

**Classification**  
 USCS= CL      AASHTO= A-7-6(16)

**Remarks**

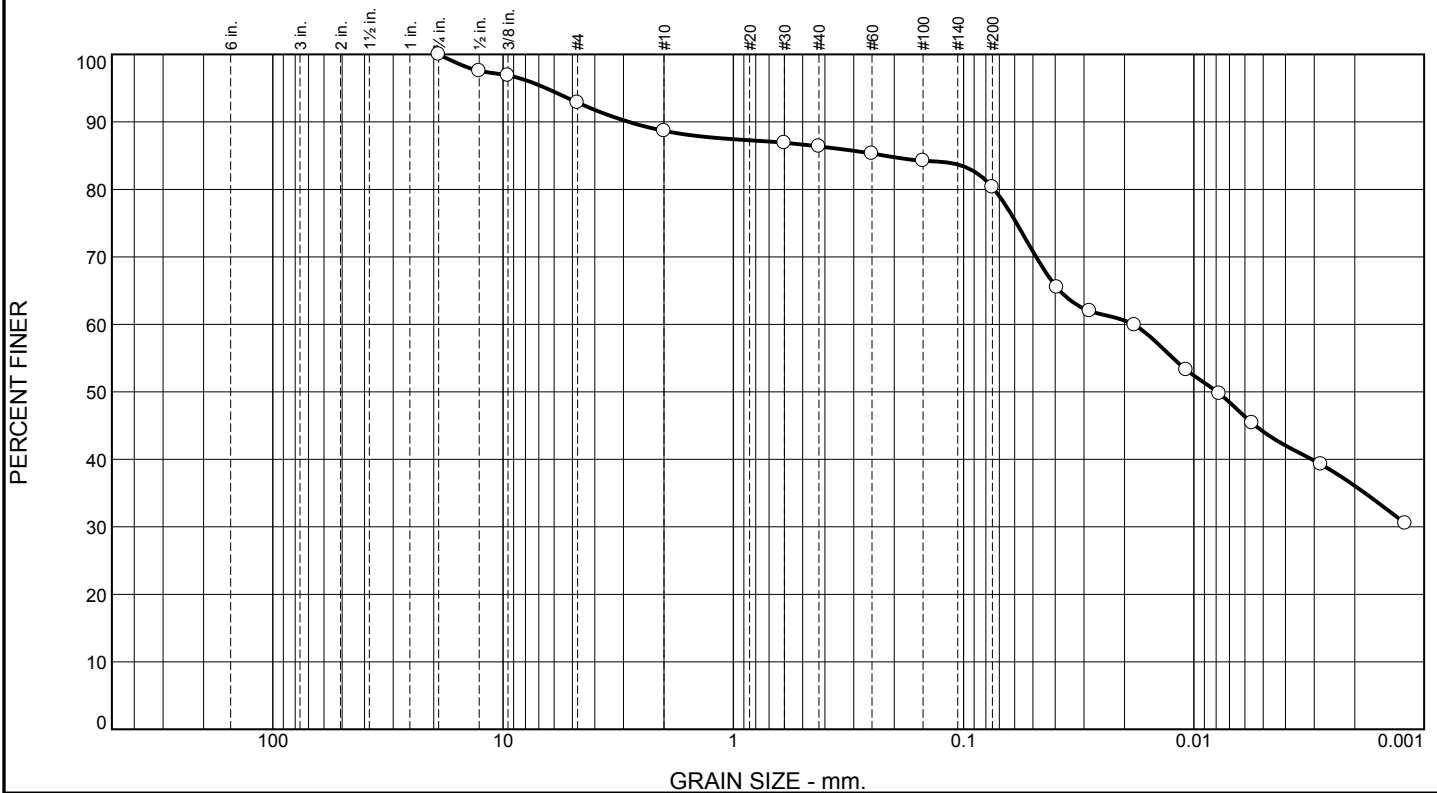
Sample Number: NSP 2

Date: 9-9-25

<b>RSA Geolab</b>  <b>Union, New Jersey</b>	<b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek
	<b>Project No:</b> 889 <b>Figure</b>

Tested By: CS      Checked By: KH

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	7.1	4.2	2.3	6.1	36.2	44.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.5	97.6		
.375	96.9		
#4	92.9		
#10	88.7		
#30	86.9		
#40	86.4		
#60	85.3		
#100	84.2		
#200	80.3		

\* (no specification provided)

**Material Description**  
Brownish Yellow lean clay with sand

**Atterberg Limits**  
 PL= 24      LL= 44      PI= 20

**Coefficients**  
 D<sub>90</sub>= 2.8461      D<sub>85</sub>= 0.2204      D<sub>60</sub>= 0.0183  
 D<sub>50</sub>= 0.0079      D<sub>30</sub>=      D<sub>15</sub>=  
 D<sub>10</sub>=      C<sub>u</sub>=      C<sub>c</sub>=

**Classification**  
 USCS= CL      AASHTO= A-7-6(16)

**Remarks**

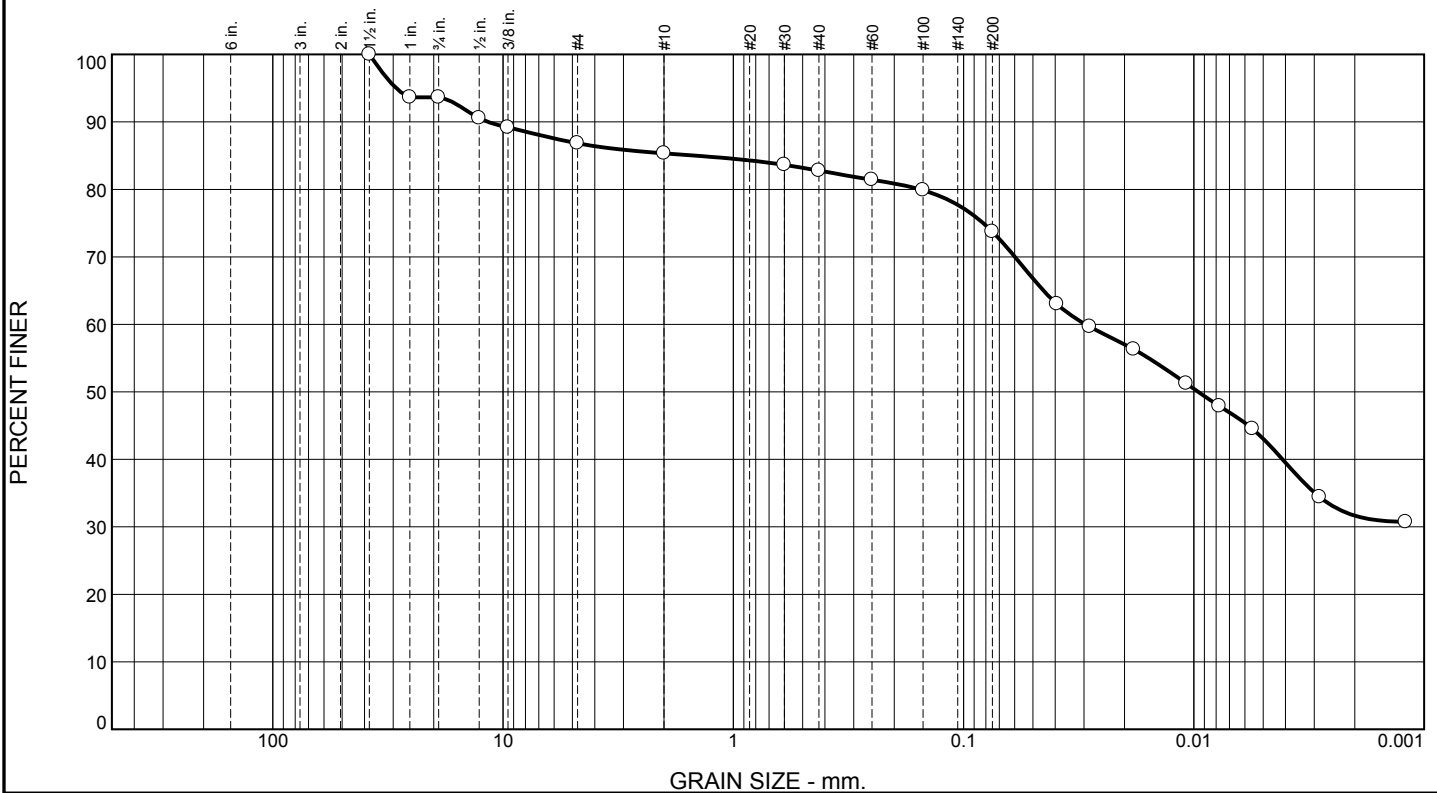
Sample Number: NSP 3

Date: 9-9-25

<b>RSA Geolab</b>  <b>Union, New Jersey</b>	<b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek
	<b>Project No:</b> 889 <b>Figure</b>

Tested By: CS      Checked By: KH

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	6.3	6.9	1.5	2.5	9.1	30.6	43.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	93.7		
.75	93.7		
.5	90.6		
.375	89.2		
#4	86.8		
#10	85.3		
#30	83.6		
#40	82.8		
#60	81.4		
#100	79.9		
#200	73.7		

\* (no specification provided)

Material Description		
Brownish Yellow lean clay with gravel		
<b>Atterberg Limits</b>		
PL= 22	LL= 40	PI= 18
<b>Coefficients</b>		
D <sub>90</sub> = 11.6424	D <sub>85</sub> = 1.4644	D <sub>60</sub> = 0.0295
D <sub>50</sub> = 0.0096	D <sub>30</sub> =	D <sub>15</sub> =
D <sub>10</sub> =	C <sub>u</sub> =	C <sub>c</sub> =
<b>Classification</b>		
USCS= CL	AASHTO=	A-6(13)
<b>Remarks</b>		

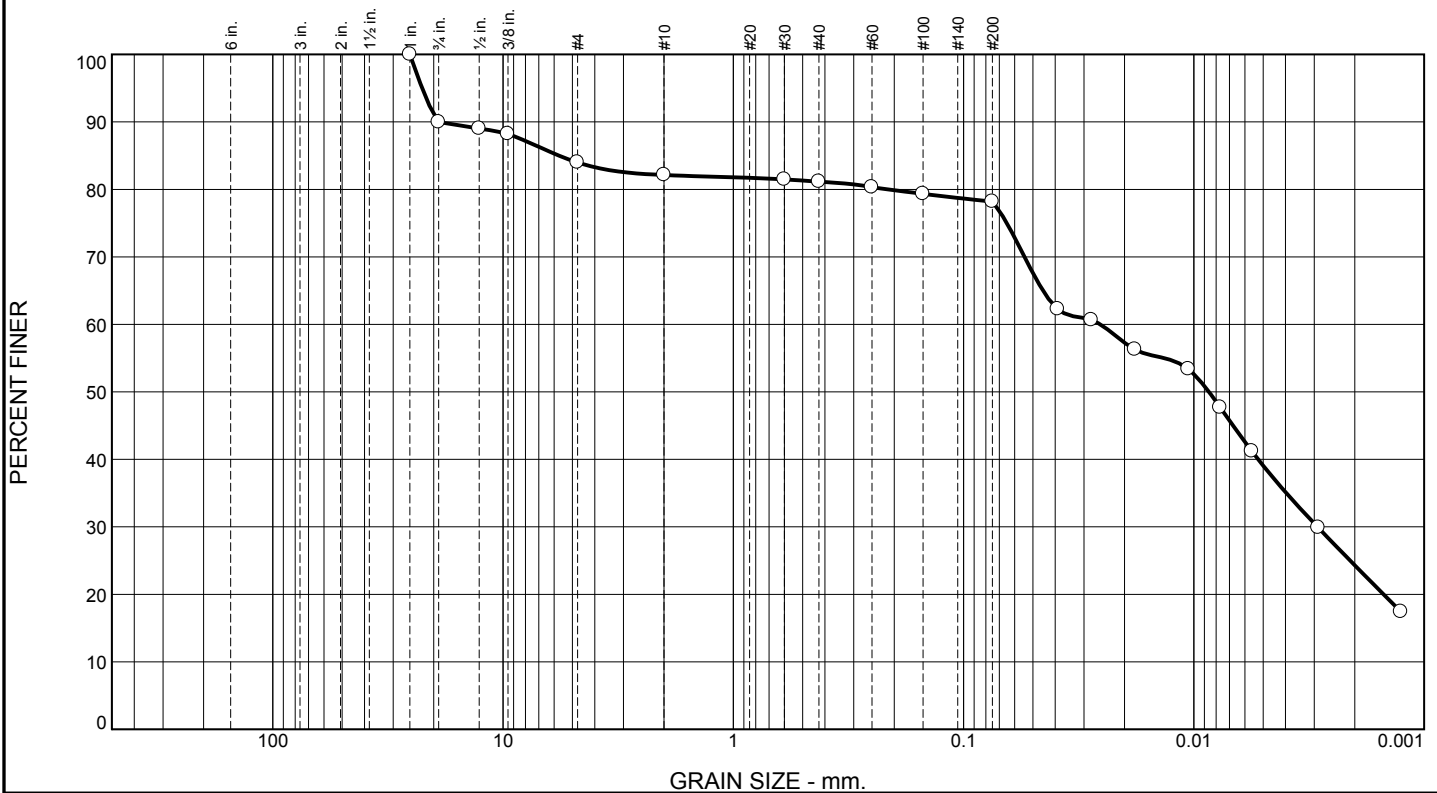
Sample Number: NSP 4

Date: 9-9-25

<b>RSA Geolab</b>  <b>Union, New Jersey</b>	<b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek
	<b>Project No:</b> 889 <b>Figure</b>

Tested By: CS Checked By: KH

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	10.0	6.0	1.9	1.0	2.9	39.1	39.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	90.0		
.5	89.0		
.375	88.2		
#4	84.0		
#10	82.1		
#30	81.5		
#40	81.1		
#60	80.3		
#100	79.3		
#200	78.2		

\* (no specification provided)

**Material Description**  
Brown lean clay with gravel

**Atterberg Limits**  
 PL= 23      LL= 39      PI= 16

**Coefficients**  
 D<sub>90</sub>= 19.0780      D<sub>85</sub>= 5.7060      D<sub>60</sub>= 0.0255  
 D<sub>50</sub>= 0.0086      D<sub>30</sub>= 0.0029      D<sub>15</sub>=  
 D<sub>10</sub>=      C<sub>u</sub>=      C<sub>c</sub>=

**Classification**  
 USCS= CL      AASHTO= A-6(12)

**Remarks**

Sample Number: NSP 5

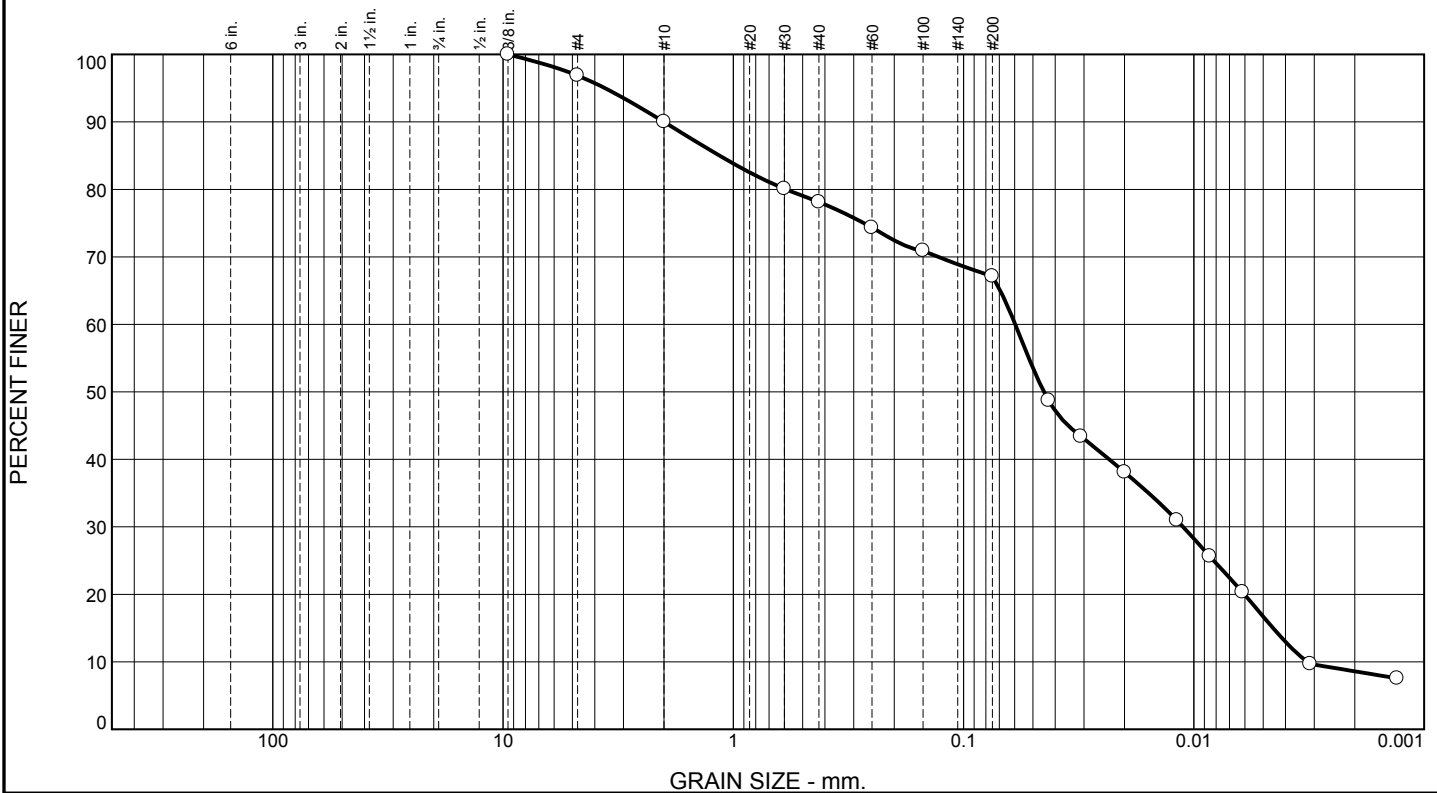
Date: 9-9-25

<b>RSA Geolab</b>  <b>Union, New Jersey</b>	<b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek
	<b>Project No:</b> 889 <b>Figure</b>

Tested By: CS      Checked By: KH



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.1	6.9	11.9	11.0	50.4	16.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	96.9		
#10	90.0		
#30	80.1		
#40	78.1		
#60	74.3		
#100	70.9		
#200	67.1		

\* (no specification provided)

Sample Number: SFAP 1

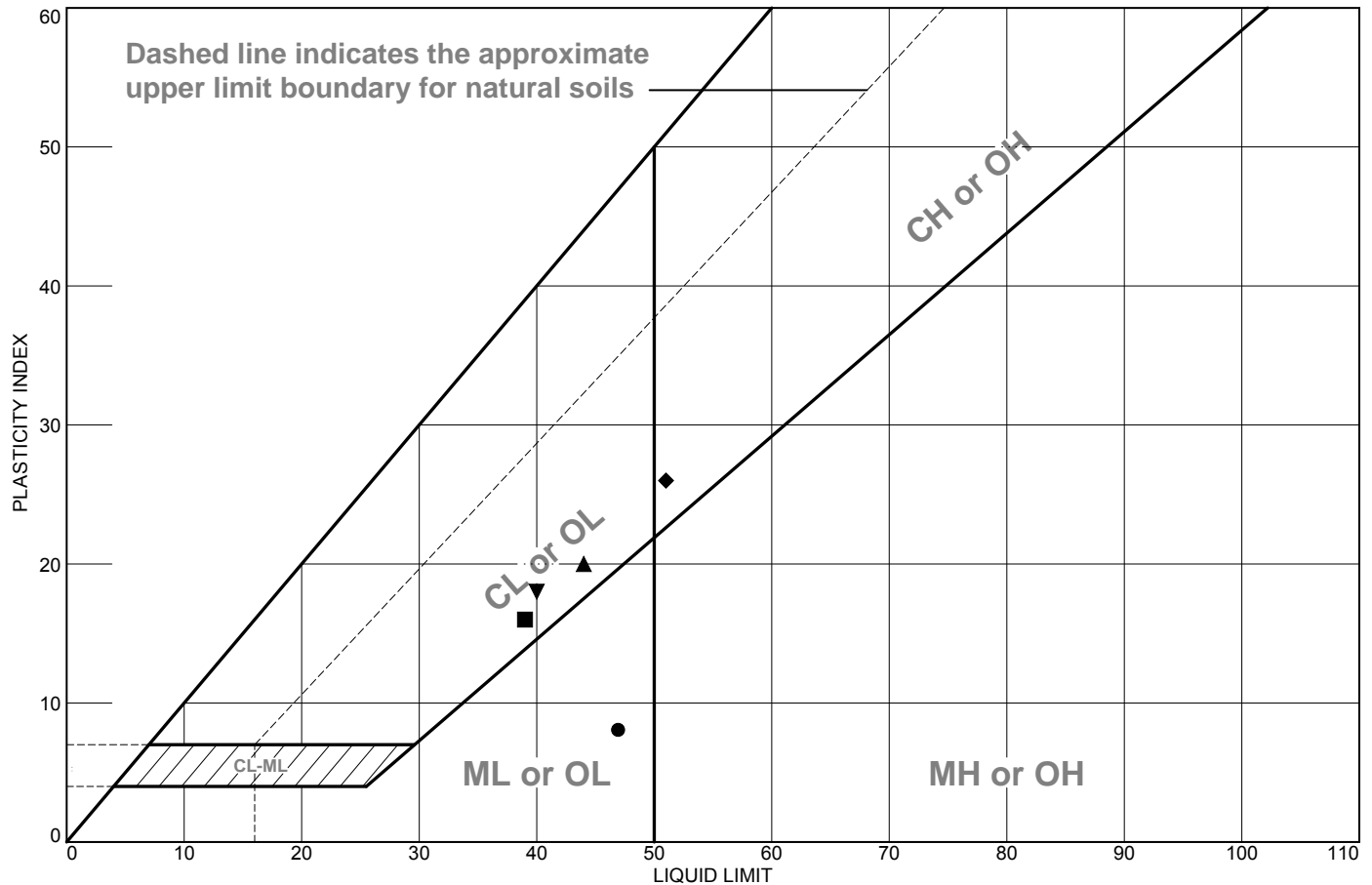
<b>Material Description</b>		
Dark Gray sandy silt		
<b>Atterberg Limits</b>		
PL= 39	LL= 47	PI= 8
<b>Coefficients</b>		
D <sub>90</sub> = 2.0021	D <sub>85</sub> = 1.1477	D <sub>60</sub> = 0.0597
D <sub>50</sub> = 0.0448	D <sub>30</sub> = 0.0111	D <sub>15</sub> = 0.0045
D <sub>10</sub> = 0.0032	C <sub>u</sub> = 18.55	C <sub>c</sub> = 0.65
<b>Classification</b>		
USCS= ML	AASHTO=	A-5(6)
<b>Remarks</b>		

Date: 9-9-25

<b>RSA Geolab</b>  <b>Union, New Jersey</b>	<b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek
	<b>Project No:</b> 889 <b>Figure</b>

Tested By: CS Checked By: KH

# LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Dark Gray sandy silt	47	39	8	78.1	67.1	ML
■	Brown lean clay with gravel	39	23	16	81.1	78.2	CL
▲	Brownish Yellow lean clay with sand	44	24	20	86.4	80.3	CL
◆	Brownish Yellow clayey gravel with sand	51	25	26	51.9	43.1	GC
▼	Brownish Yellow lean clay with gravel	40	22	18	82.8	73.7	CL

Project No. 889 Client: Alliance Technical Group

Project: Q2850 - OVEC - Kyger Creek

● Sample Number: SFAP 1

■ Sample Number: NSP 5

▲ Sample Number: NSP 3

◆ Sample Number: NSP 1

▼ Sample Number: NSP 4

RSA Geolab

Union, New Jersey

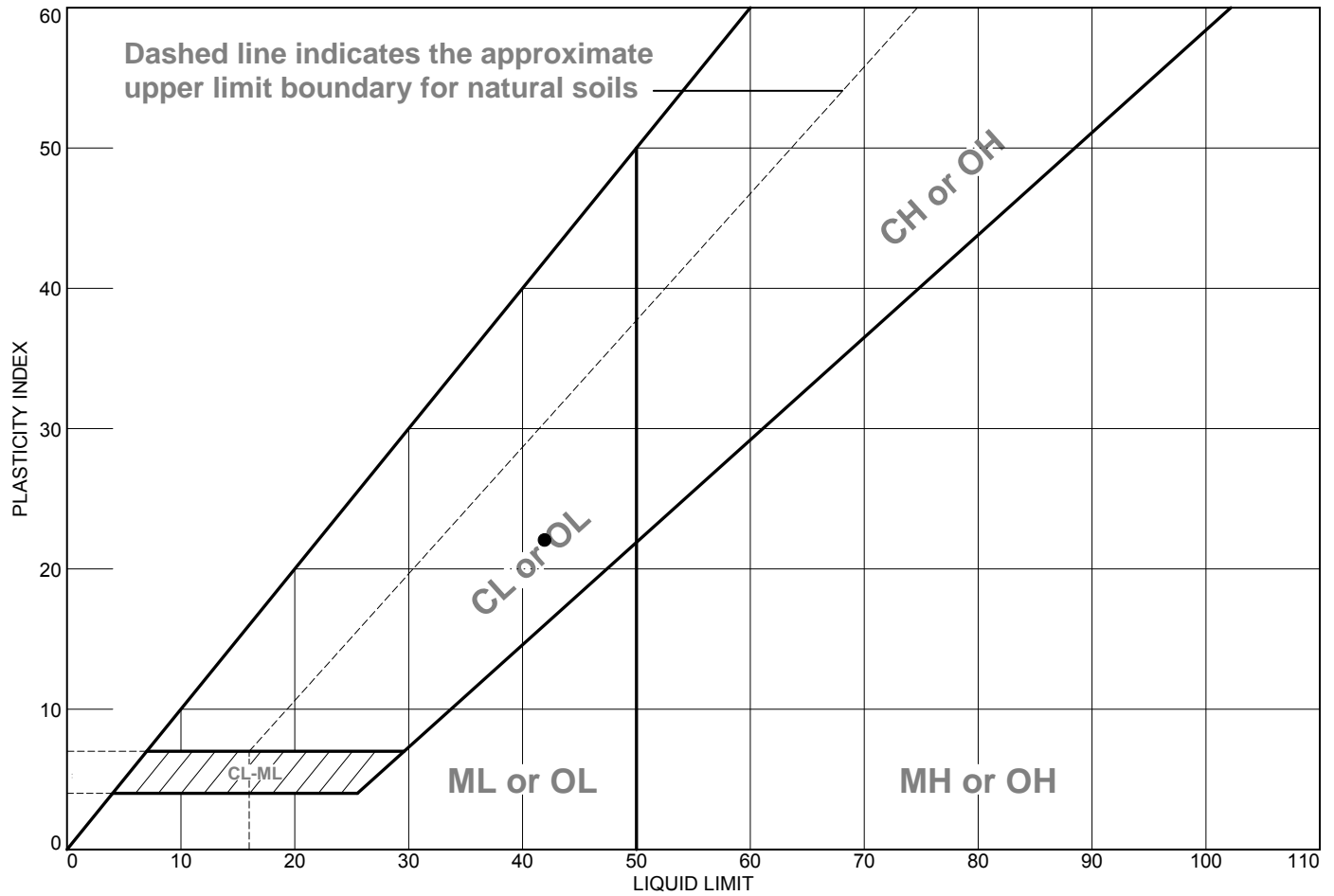
Remarks:

● 9-9-25

Figure

Tested By: SP Checked By: KH

# LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Brownish Yellow lean clay with sand	42	20	22	80.5	75.3	CL

Project No. 889 Client: Alliance Technical Group

Project: Q2850 - OVEC - Kyger Creek

● Sample Number: NSP 2

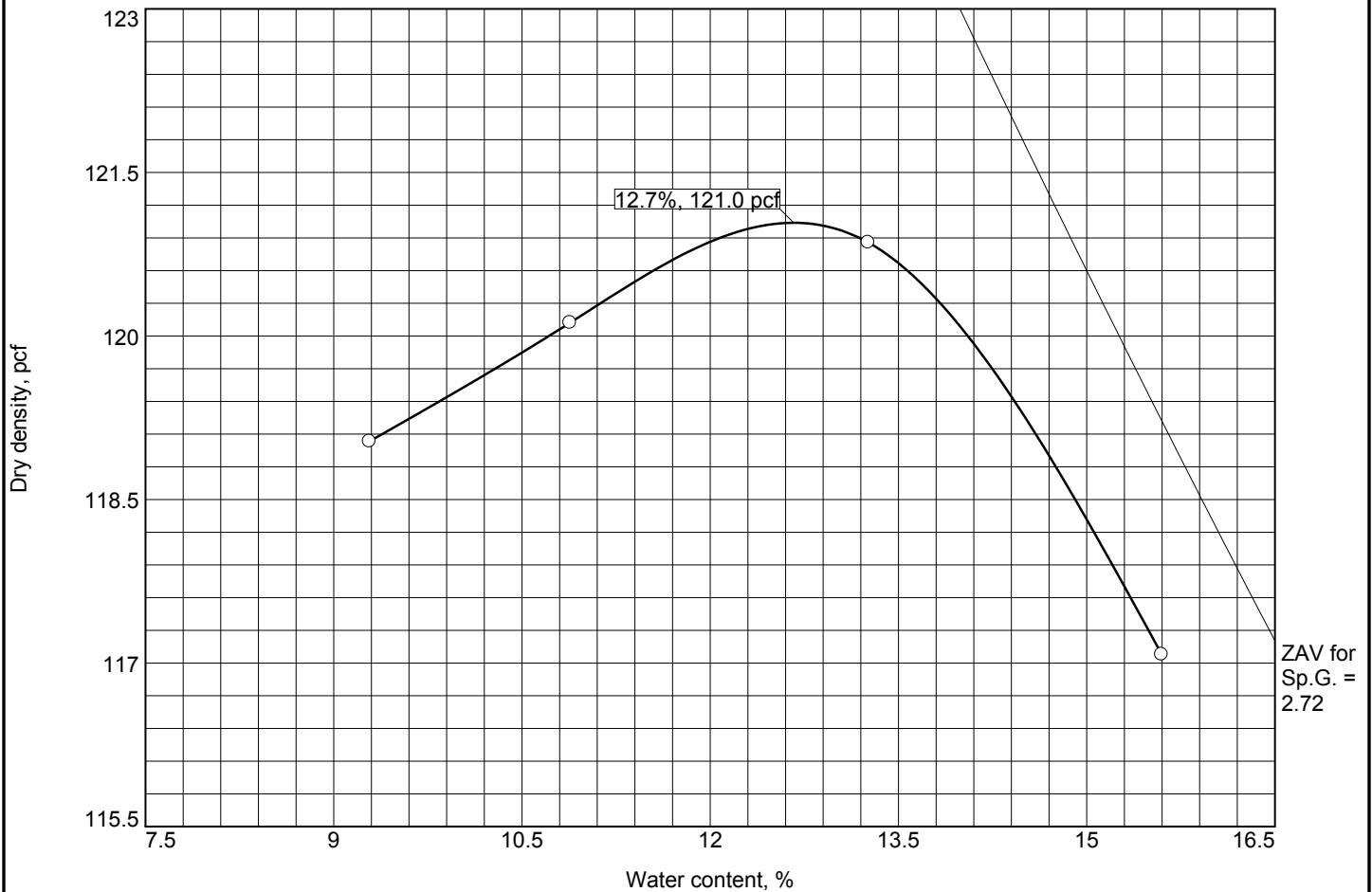
Remarks:

RSA Geolab

Union, New Jersey

Figure

# COMPACTION TEST REPORT



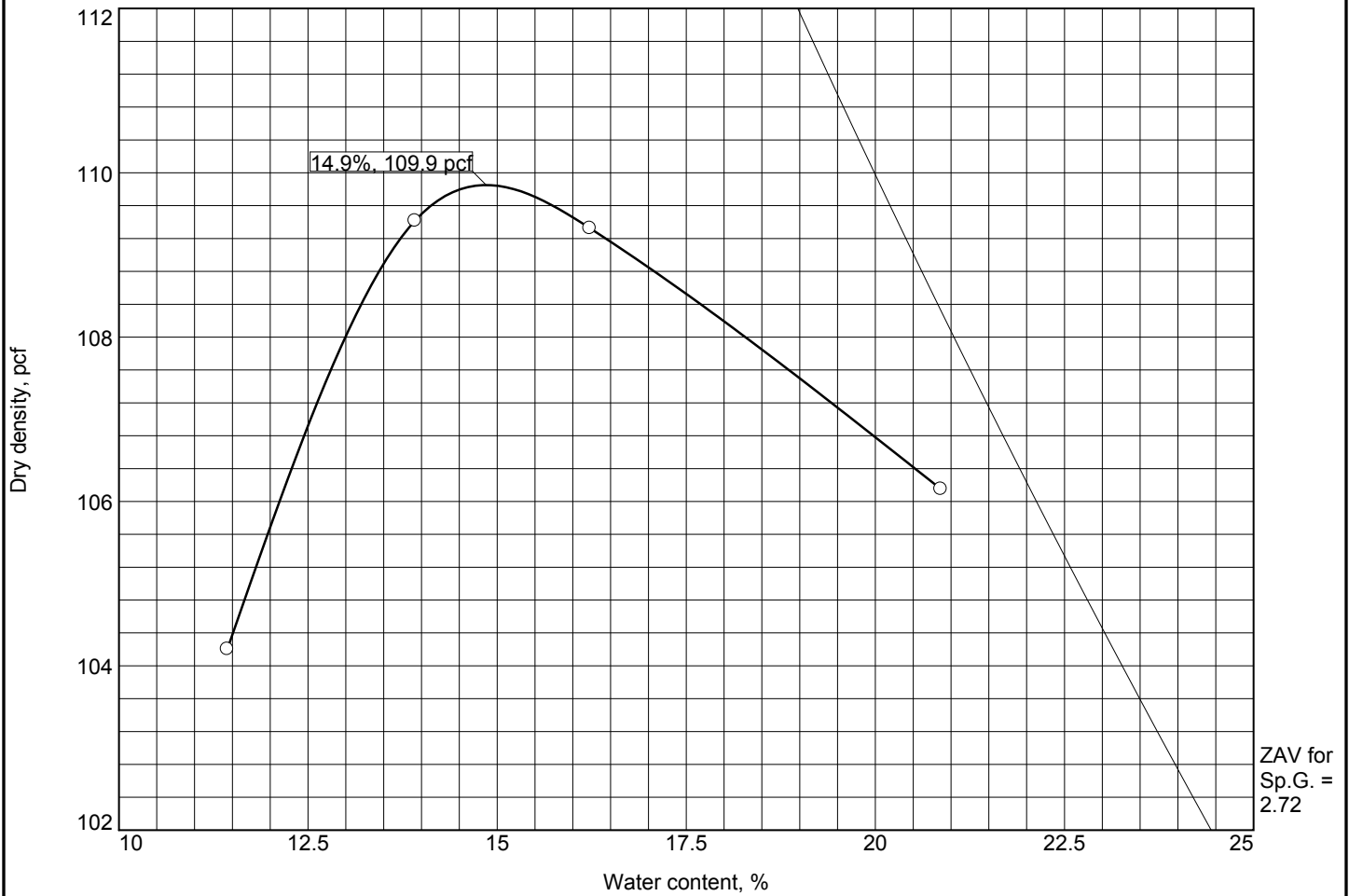
Test specification: ASTM D 698-12 Method B Standard  
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	GC	A-7-6(7)		2.72	51	26	30.5	43.1

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 121.0 pcf		107.5 pcf	Brownish Yellow clayey gravel with sand
Optimum moisture = 12.7 %		18.1 %	
<b>Project No.</b> 889 <b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek			<b>Remarks:</b> SG Assumed. Machine tested. 9-9-25
○ <b>Sample Number:</b> NSP 1			
<div>RSA Geolab</div> <div>Union, New Jersey</div>			
			<b>Figure</b>

Tested By: DR      Checked By: KP

# COMPACTION TEST REPORT



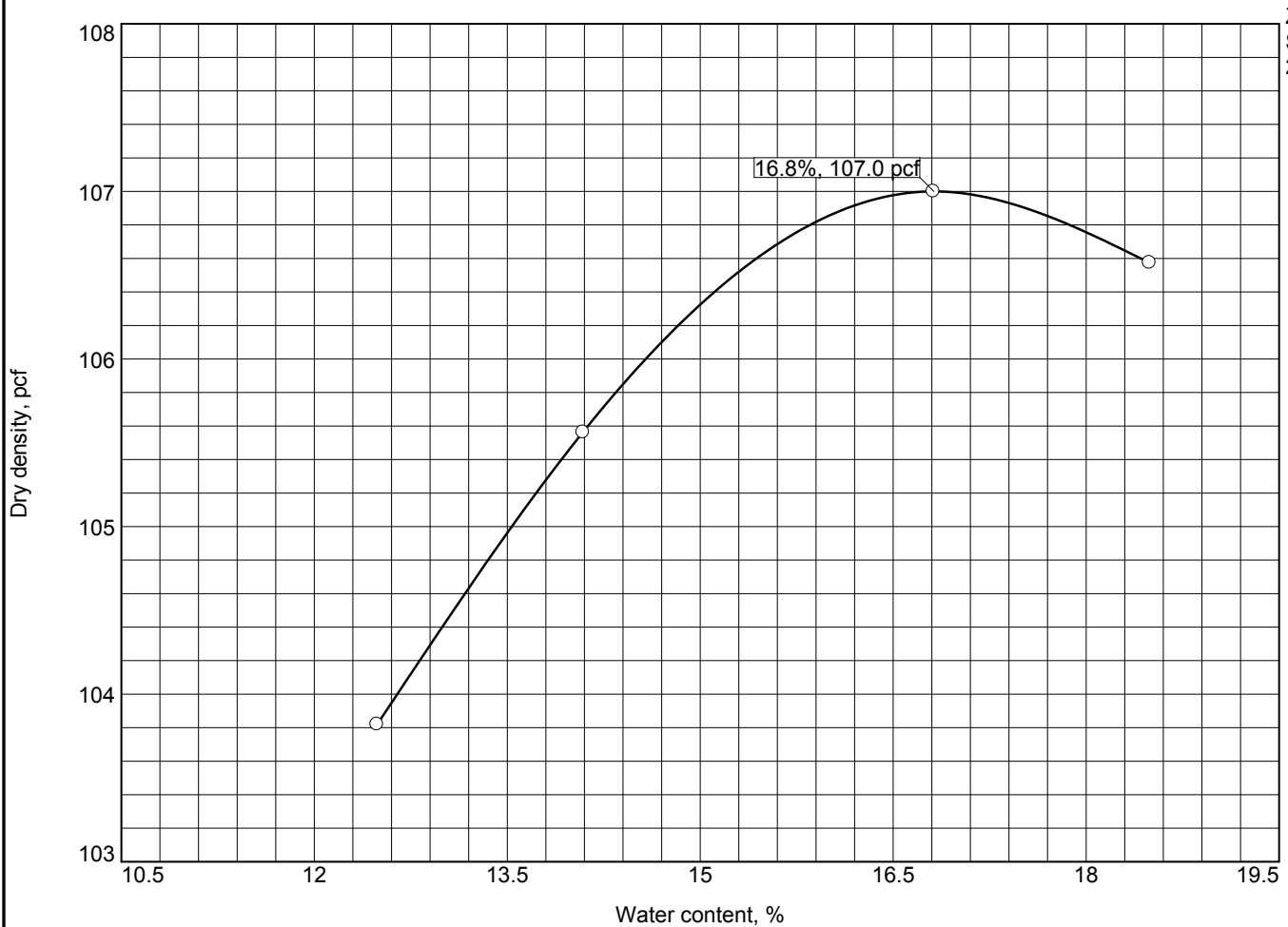
Test specification: ASTM D 698-12 Method B Standard  
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CL	A-7-6(16)		2.72	42	22	5.3	75.3

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 109.9 pcf		107.7 pcf	Brownish Yellow lean clay with sand
Optimum moisture = 14.9 %		15.7 %	
<b>Project No.</b> 889 <b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek  <input type="radio"/> <b>Sample Number:</b> NSP 2			<b>Remarks:</b> SG Assumed. Machine tested. 9-9-25
<div>RSA Geolab</div> <div>Union, New Jersey</div>			

Tested By: DR      Checked By: KP

# COMPACTION TEST REPORT



ZAV for  
Sp.G. =  
2.72

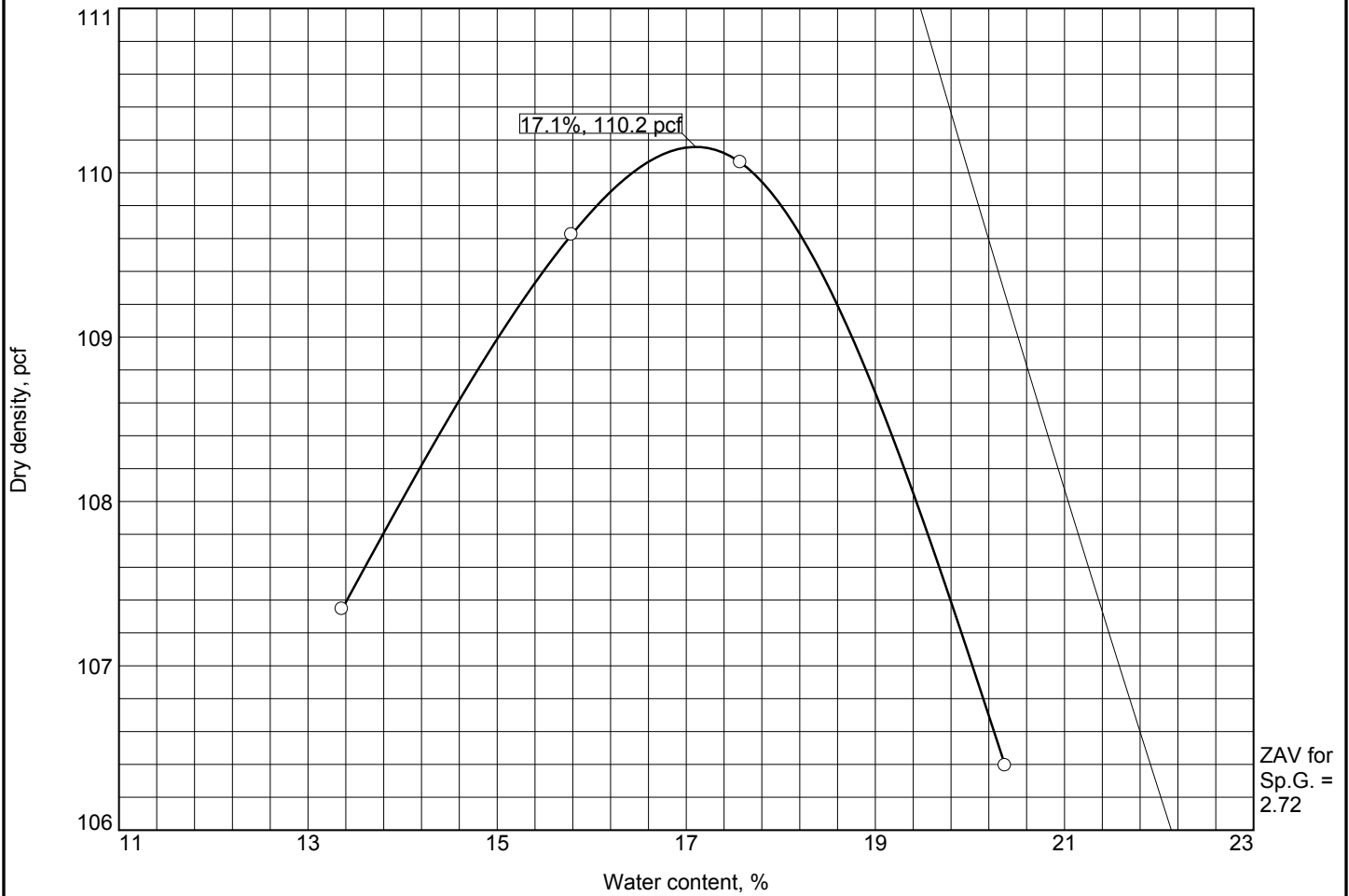
Test specification: ASTM D 698-12 Method B Standard  
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CL	A-7-6(16)		2.72	44	20	3.1	80.3

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 107.0 pcf		105.7 pcf	Brownish Yellow lean clay with sand
Optimum moisture = 16.8 %		17.3 %	
<b>Project No.</b> 889 <b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek  <input type="radio"/> <b>Sample Number:</b> NSP 3			<b>Remarks:</b> SG Assumed. Machine tested. 9-9-25
<div><div>RSA Geolab</div><div>Union, New Jersey</div></div>			

Tested By: DR      Checked By: KP

# COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard  
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

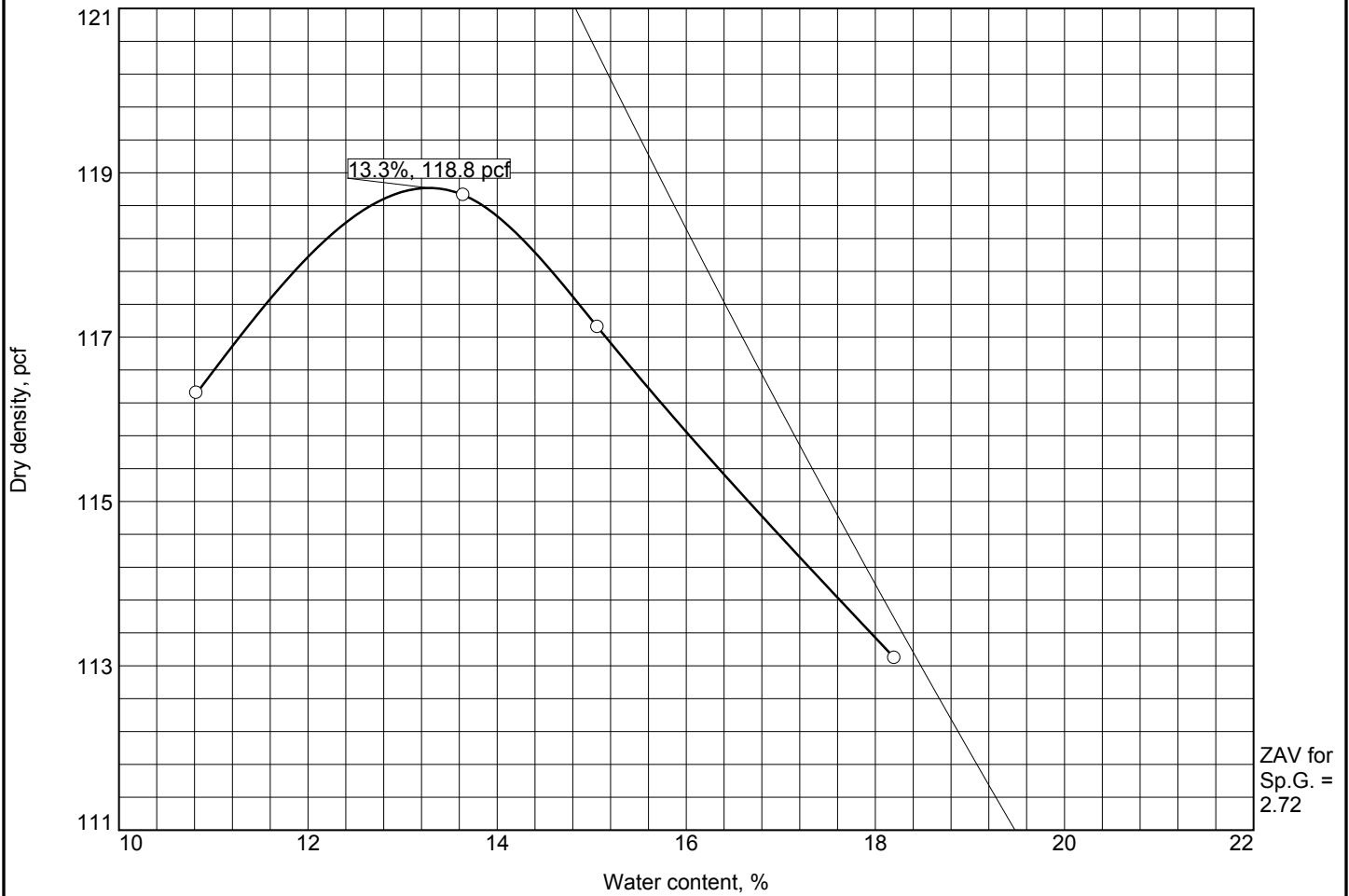
Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CL	A-6(13)		2.72	40	18	10.8	73.7

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 110.2 pcf		105.7 pcf	Brownish Yellow lean clay with gravel
Optimum moisture = 17.1 %		19.1 %	
<b>Project No.</b> 889 <b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek  <input type="radio"/> <b>Sample Number:</b> NSP 4			<b>Remarks:</b> SG Assumed. Machine tested. 9-9-25
<div>RSA Geolab</div> <div>Union, New Jersey</div>			

Figure

Tested By: DR      Checked By: KP

# COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard  
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

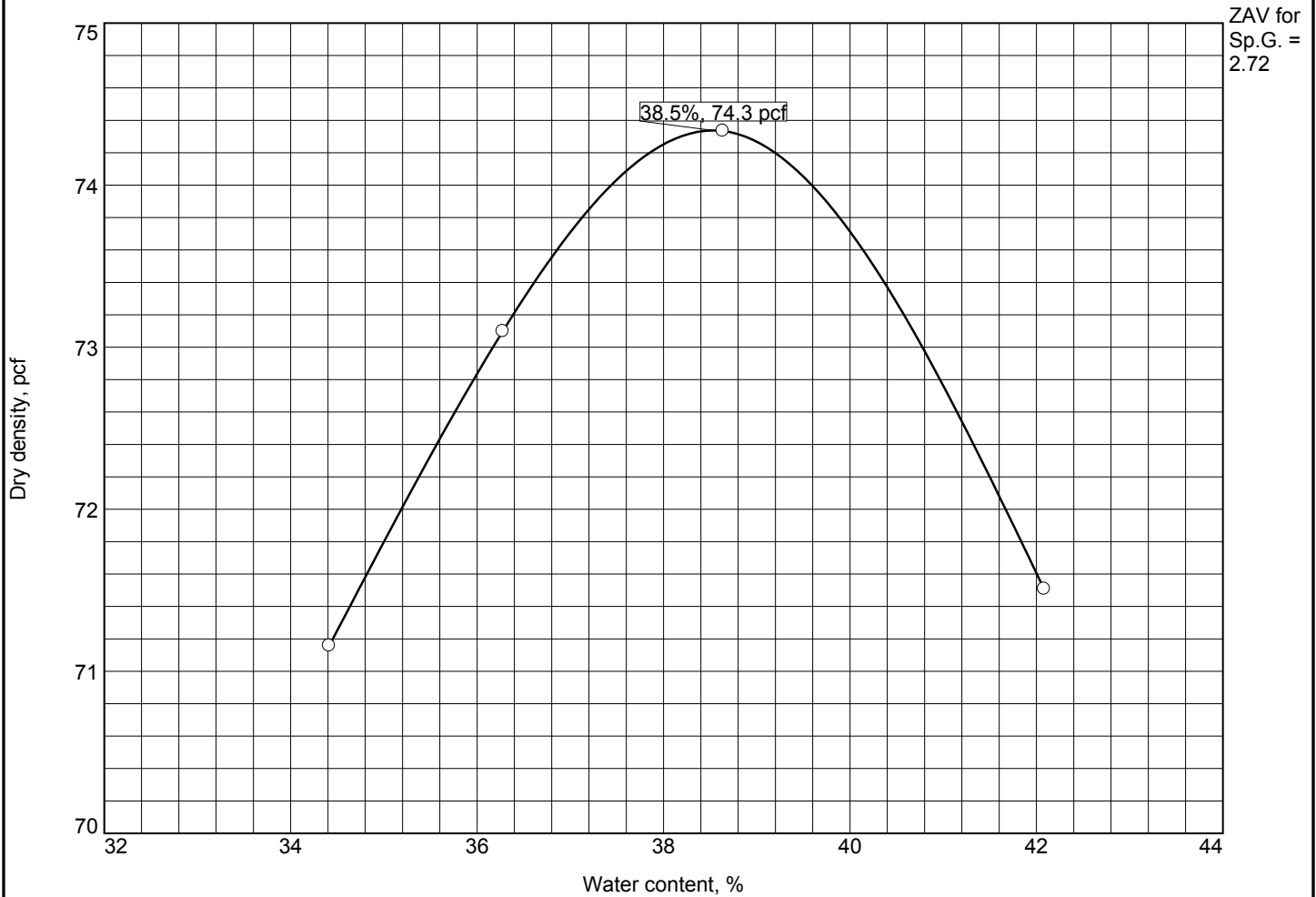
Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	CL	A-6(12)		2.72	39	16	11.8	78.2

ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 118.8 pcf		114.2 pcf	Brown lean clay with gravel
Optimum moisture = 13.3 %		15.0 %	
<b>Project No.</b> 889 <b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek			<b>Remarks:</b> SG Assumed. Machine tested. 9-9-25
○ <b>Sample Number:</b> NSP 5			
<div>RSA Geolab</div> <div>Union, New Jersey</div>			
			Figure

Tested By: DR      Checked By: KP



# COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method B Standard

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/8 in.	% < No.200
	USCS	AASHTO						
	ML	A-5(6)		2.72	47	8	0.0	67.1

TEST RESULTS					MATERIAL DESCRIPTION			
Maximum dry density = 74.3 pcf					Dark Gray sandy silt			
Optimum moisture = 38.5 %								
<b>Project No.</b> 889 <b>Client:</b> Alliance Technical Group <b>Project:</b> Q2850 - OVEC - Kyger Creek  ○ <b>Sample Number:</b> SFAP 1					<b>Remarks:</b> SG Assumed. Machine tested. 9-9-25   			

Tested By: DR      Checked By: KP



# ENTACT

## CHAIN OF CUSTODY RECORD

**NO. 1 OF 1**

Q2850, Q2851, Q2852

COMPANY INFORMATION						PROJECT INFORMATION				REQUESTED ANALYSIS/METHOD					
LOCATION ENTACT LLC		PROJECT Kyger Creek													
ATTN Wyatt Seel		BILLING INFORMATION													
ADDRESS 150 Bay Street, Suite 801		BILL TO ENTACT LLC													
Jersey City, NJ		ADDRESS 999 Oakmont Plaza Drive Suite 300													
PHONE 419-266-4671		PHONE 630-986-2900													
FAX		FAX													
		PO# E9412													
SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS								
NSP-1	SOIL	8/11	12:00				X	X	X	SIEVE ASTM D 422-63					
NSP-2	SOIL	8/11	12:00				X	X	X	Standard Proctor ASTM D698-12					
NSP-3	SOIL	8/11	12:00				X	X	X						
NSP-4	SOIL	8/11	12:00				X	X	X						
NSP-5	SOIL	8/11	12:00				X	X	X						
SFAP-1	Fly Ash	8/11	12:00				X	X	X						
SAMPLER							SHIPMENT		AIRBILL						
REQUIRED TURNAROUND							W. Seel		courier						
☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☑ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER:															
1. RELINQUISHED BY		DATE		SIGNATURE		2. RELINQUISHED BY		DATE		SIGNATURE		3. RELINQUISHED BY		DATE	
PRINTED NAME/COMPANY:		8/13/25		[Signature]		PRINTED NAME/COMPANY:		23.4°C		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	
1. RECEIVED BY		DATE		SIGNATURE		2. RECEIVED BY		DATE		SIGNATURE		3. RECEIVED BY		DATE	
PRINTED NAME/COMPANY:						PRINTED NAME/COMPANY:		27.1°C		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	