

DOCKETED	
Docket Number:	21-AFC-02
Project Title:	Willow Rock Energy Storage Center
TN #:	265109
Document Title:	Willow Rock CURE Data Request 2 Response, Attachment DR136-1_Part 2_Appendix A-1
Description:	Resubmission of files previously submitted through Kiteworks
Filer:	Kathryn Stevens
Organization:	WSP USA Inc.
Submitter Role:	Applicant Consultant
Submission Date:	7/29/2025 8:36:56 PM
Docketed Date:	7/30/2025



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
5																					
10																					
15																					
20																					
25																					
30																					

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

<u>SAMPLING & IN SITU TESTING LEGEND</u>					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
40																					
45																					
50																					
55																					
60																					
65																					

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			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
140		From 140' to 207': Biotite/chlorite																				
145																			C	100	95	
150																			C	100	86	
155																			C	100	86	
160																			C	100	86	
165																			C	100	86	
170																			C	100	86	

From 163' to 164':
Multiple planar fractures
32°-41°

171.25': Planar

172': Planar irregular

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WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
180																175.85': Planar					
185																176.45': Planar irregular					
190																From 176.85' to 181': Fracture					
191	CORE LOSS																	C	100	71	
192																					
195																		C	90	87	
200																From 199' to 200': S.					
205																From 201' to 201.25': 13° Planar					
																From 202' to 204': 6 Planar breaks		C	100	76	
	From 207' to 211': Biotite/chlorite															From 207' to 211': Slickensides along biotite/chlorite contacts and fractures					
																208': Slickenside 81° fracture		C	100	69	

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WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
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		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2300	From 252' to 267': Biotite/chlorite present															245': Planar					
250																					
255																					
260																					
265																					
267	From 267' to 270': Increase in chlorite																				
270																					
275																					
280																					
285																					
287	From 277' to 280': Increase in plagioclase feldspar																				
290																					
295																					
300																					
305																					

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L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



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		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
284	CORE LOSS																				
285																					
289																		C	75	31	
290																					
294.4	CORE LOSS																				
295																					
298	QTZ MONZONITE, medium grained, white to light gray, porphyritic, increase in quartz and plagioclase content																	C	100	87	
300																					
305	From 302' to 303': Increase in plagioclase crystals																				
310																		C	100	90	
314																					

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W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05	0.25	0.50	2.50	5.00	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
320	From 327' to 361': More granite, increased percentage of oligicase and quartz/qtz monzonite QTZ MONZONITE, white to light gray, phaneritic to porphyritic, increased percentage of K feldspar and plagioclase feldspar, sections of oligicase K feldspar and granite, trace amounts of hornblende chlorite and muscovite																	From 314.6' to 315': Reverse angle J. at 12°, 10°, 9°, 21°							
																		315.9': 41° Planar							
																		317.6': 33° Planar							
																		From 318' to 318.25': 14° Planar							
																		From 322' to 323': Rev. E-W 9°-15° (2)							
																		323.9': Planar							
																		324.88': 9° Planar							
																		326': 13° Planar							
																		328.1': Planar irregular							
																		328.9': Planar							
330																	329.7': 17° Planar								
																	330': Planar								
																	330.95': Planar								
																	333': 16° Planar								
																	333.6': 27° Planar								
																	336': 21° Planar, same orientation								
																	338': Wedge - planar S. at 67°								
340																	From 340' to 341.1': Planar								
																	344.2': Planar								
																	From 345.45' to 346.4': 3 J. 27°-33°								
345																	347.6': 38° Planar								
																		C	100	89					

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W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
355	From 361' to 391': Increase in plagioclase feldspar, crystals of feldspar and diorite														350': 29° Planar		100	92			
															351': 42° J. (2)						
															352.3': 44° Planar						
															354.6': 40° Planar						
															355.4': Planar	C	100	92			
															From 356' to 357': 3 J. on K felspar contact at 27°-35°						
															359': Planar						
															From 363' to 363.6': Planar irregular						
															365': 40° Planar						
															366': 27° Planar						
														367.42': 44° Planar	C	100	82				
														From 370' to 372': Multiple fractures (6)							
														From 373' to 373.9': Planar							
														374.7': 17° at K felspar							
														376': Planar	C	100	76				
														From 377' to 381': 18 J. fractures at 25° planar							
														383.9': 42° Planar							

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		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard				B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %
																385': Wedge rev angle 38°-42°				
																386': 49° Planar				
																From 387' to 397': Broken fractured, decomposed weathered, 20-30 fractures				
390																				
395																				
400																398.9': Planar		C	95	80
405																401.8': Planar				
																From 402' to 417': Increased weatherd decomposed (at 404.5)				
410																		C	100	73
415																				
417	CORE LOSS																			
418																From 418' to 432': Weathered decomposed softened				
																		C	90	67

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425																					
430																		C	100	49	
432	QTZ MONZONITE, light gray to white, phaneritic, increase in plagioclase feldspar, porphyritic biotite crystals, quartz feldspar, biotite, muscovite with trace amounts of chlorite and epidote															From 432' to 434.9': Multiple fractures and orientations, crumbled					
435																435.4': 47° Planar 435.7': 90° S.					
440																From 437' to 442': Fragmented 45°-23°-17° planar irregular, 21 total breaks in this 5' span		C	100	31	
445																444.62': Planar irregular along K feldspar contacts 444.9': 17° Planar					
450																From 445.1' to 445.67': 2 47° J., 2 45° J., 45° wedge, 32° wedge 446': 31° Planar 446.6': 18° Planar		C	100	67	
																From 449' to 449.72': Vertical S. at 90° 450': 48° Planar					
																From 451.1' to 452': Vertical S. at 90° and multiple perpendicular fractures					

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460	QTZ MONZONITE, light gray-white-green															From 452' to 454.7': Multiple fractures (11)					
462																From 456' to 458': Crumbled					
465																458.7': 42° Irregular		C	100	61	
470																459.7': 48° Irregular					
475																461': 11° Irregular					
480																		C	100	22	
485																		C	100	50	
																		C	100	61	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)				Discontinuities		Sampling & In Situ Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05	0.25	0.50	2.50	5.00	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	492	QTZ MONZONITE, white to light gray, phaneritic, with biotite hornblende porphyry, trace amounts of chlorite and epidote, mineral concentrations medium-high in qtz, plagioclase feldspar, biotite and oligicalse																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
530	From 532' to 534': Plagioclase feldspar present															undulating surface J. fracture					
535																From 525' to 526': J. rubble					
536	From 536' to 537': Moving towards granite, increase in K feldspar															From 529' to 530': Increased veining		C	100	32	
539	QTZ MONZONITE, pink to light gray, phaneritic, increase in K feldspar, trace amounts of hornblende + muscovite and chlorite															From 531' to 531.6': Rubble, at J. (altered - soft)					
540	QTZ MONZONITE, light gray to white, phaneritic, increase in plagioclase and biotite/hornblende, Plagioclase-orthoclase feldspar, quartz and biotite, with trace amounts of muscovite + hornblende + pyroxene 'alteration' (chlorite/epidote)															From 532' to 534': Large 25" vein, intrusive plagioclase feldspar infill					
544	From 544' to 560.5': Biotite/chlorite present															From 533.6' to 534': 48° Undulating J. S. fracture, slickenside					
545	CORE LOSS															From 536' to 537': Rubble					
																From 537' to 539': 6 planar fractures		C	94	67	
																540.6': 47° smooth microfractures healed					
																541': 30° smooth					
																541.3': J. at 41°					
																542.9': 29° Undulating - smooth					
																543.67': Rough S. at 68°					
																From 544' to 560.5': Moderate veining, biotite/chlorite infill strongly detected					
																From 547' to 557': Planar undulating - rough - smooth		C	100	51	
																From 557' to 558': 4 Planar fractures					
																From 560.5' to 568.5':		C	90	79	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
	From 560.5' to 568.5': Biotite, chlorite, feldspar																				
562	CORE LOSS																				
563																					
565																					
570																					
575																					
580																					
585																					
590																					
595																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions

PROJECT: Hydrostor Zevsar

PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7

NORTHING: 2153552.632

EASTING: 6514916.08

PROJECT No: 951-20

DATE: 3/17/2023 - 5/19/2023

DIP/AZIMUTH: -90 /

DEPTH (ft) FL	Description of Strata	Degree of Alteration	Graphic Log	Rock Strength					Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing		
				Very Soft	Soft	Med-Hard	Hard	Very Hard			Type	Core % Rec.	ROD %
		CA HA MA SA Fr											
600	From 601' to 603': Soft-medium chlorite present												
605													
606.3													
	PEGMATITE DIKE												
610													
615													
620													
625													
627	QTZ MONZONITE, light gray to white, phaneritic, with biotite/hornblende prophyry, trace amounts of muscovite + chlorite + epidote + pyroxene												

BORING TYPE: HQ3

HOLE DEPTH (ft): 3167

REMARKS:

DRILLER: Crux

WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger

CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
								Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard						Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
670																665': Planar From 665.25' to 668.5': Rubble J. fractures		C	100	64	
675																671': Planar 672.25': Planar 0° smooth 672.6': Planar 0° smooth 673.1': Planar 0° smooth					
680																675.82': Planar 0° From 677' to 680.25': 12 Planar 0°, 2 Planar-smooth 42°, altered From 678' to 687': Minor to moderate veining		C	100	40	
685																From 685.38' to 687': Vertical S. undated smooth with 40°-45° J. fractures (4)					
690																687.9': Planar 688.6': Planar From 690.2' to 690.9': Stepped S. rough 691': S. at 77° smooth/planar 693.25': Planar		C	100	72	
695																695.7': Planar From 697' to 700': 3 Planar 0°, defected, minor veining					
																		C	100	84	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing			
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard				B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %
1845	705																From 701' to 702': (4) 42°-45° Jointed planar smooth fractures				
1840	710																708': 38° Planar 709': 45° Planar - rough	C	100	96	
1835	715																711': Planar 0° From 711.1' to 712': Vertical S. at 90°, stepped, rough, moderate veining 713': 67° Slickenside smooth biotite/chlorite 714.67': 38° planar smooth				
1830	720																719': Planar From 719.3' to 720': Vertical S. at 87°-90° along veining - biotite/chlorite infill, planar smooth 720.5': Planar 721.67': 40° planar smooth	C	100	100	
1825	725																				
1820	730																728': Planar 0° 730': 37° planar smooth slickenside 731.7': Planar 1° From 732' to 747': Rubble defected, decayed, moderate to extreme veining	C	100	70	
1815	735	From 732' to 747': Chlorite/epidote present																			



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing			
																			Test Results & Comments			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %			
740	From 747' to 762': Chlorite present																	C	100	10		
745																						
750																		C	100	53		
755																						
760																		C	100	58		
765																						
																			C	100	50	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing					
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	ROD %	Test Results & Comments		
		QTZ MONZONITE, light gray to white, massive phaneritic																						
	775																							
	777																							
	780																							
	785																							
	790																							
	795																							
	800																							
5																								

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
810																		C	100	85	
815																					
820																		C	100	56	
825																					
830																		C	95	46	
835																					
836.5	CORE LOSS																				
																		C	70	12	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
840	QTZ MONZONITE, light gray to white, massive phaneritic, with biotite porphyry phenocrysts, trace muscovite, pyroxene, chlorite, epidote, hornblende														0.05	From 842' to 847': Rubble, multiple J. fractures, joints - planar smooth					
845															0.25						
850															0.50		From 847' to 848.75': 69° inundated smooth	C	100	46	
852															2.50		850.33': Planar irregular 851.25': S. at 90° From 852' to 853': 4 Planar smooth at 0°				
855															5.00		From 855' to 855.6': (4) 38°-42° J. fractures, moderate veining along fracture lines, biotite infill				
860																	856.2': Planar smooth 856.4': Planar smooth From 857' to 858.25': Rubble	C	100	76	
865																	860.72': 52° Planar smooth 863.4': 22° Irregular inundated smooth perpendicular				
870																	From 867' to 868': 42° Rev angle, 12° wedge, planar smooth From 869' to 870': 90° S. fracture (stepped, inundated)	C	100	71	
875																	872.75': 32° rough, fresh 873': 12° rough, fresh 873.75': 39° smooth				

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND			
C Core drilling	ITS Indirect tensile strength (Brazilian) test (psi)	SLK Slake durability test (Type <u> </u>)	
W Water seep	PL(A) Point load axial test Is(50) (psi)	TRI Triaxial stress test (psi)	
W Water level	PL(D) Point load diametral test Is(50) (psi)	UCS Uniaxial stress test (psi)	

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing			
																			Test Results & Comments			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %			
1670 880																	planar					
																	874': Planar 0°-1° smooth, chlorite					
																	From 875' to 877': 14° Planar smooth					
																	From 878' to 879': 86° S. fracture, partial slickenside, inundated smooth	C	100	57		
																	879.67': 45° J. fracture, planar smooth					
																	880.65': 45° J. fracture, planar smooth					
																	From 881.5' to 882': Rubble, vertical S.					
1665 885																	From 882' to 883': Vertical S. at 86°, 6" long, planar smooth					
																	883': 0° Planar smooth					
																	From 884' to 886.25': 79° inundated - smooth/moderate					
																	From 887' to 889': 90° Planar rough, fresh	C	100	41		
1660 890																	890': 45°-60° inundated smooth					
																	From 892' to 894': Vertical S. and J., smooth planar					
																	895': 49° Planar smooth					
																	897': 67° inundated smooth					
																	898': Planar smooth					
																	899': 31° Planar smooth	C	100	81		
1650 900																	899.9': 48° inundated smooth					
																	901.45': 45° Slickenside biotite/chlorite					
																	From 902' to 905': (5) 32°-48° J. fractures, planar smooth					
																	906.1': 31° Planar smooth					
1645 905																	908.67': 22° inundated smooth	C	100	83		

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
915																910.1': Planar						
920		From 919' to 927': Increased biotite/chlorite														From 911' to 912': Rubble						
920		QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite porphyry crystals, trace pyroxene, hornblende, muscovite														From 915' to 920': J. fractures, inundated/smooth rubble, increased fractures, moderate veining						
920																From 919' to 927': Moderate to mild veining	C	100	27			
925																						
925																						
930																From 929' to 942': Fracturing along biotite/chlorite veins, moderate veining	C	100	67			
935																						
940																						
940																From 942' to 957': Moderate to severe veining	C	100	24			

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1600 -950																					
1595 -955																					
957 -957	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite and hornblende porphyry phenocrysts, trace muscovite, pyroxene, and chlorite																				
1590 -960																					
1585 -965																					
1580 -970																					
1575 -975																					
1570 -980																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1565 -985																From 981' to 982': Jointed planar smooth 45° fractures, rough					
																-983': Rough irregular, stepped 32°					
																From 984' to 986': Rubble					
1560 -990																From 987.5' to 989.5': 5 Planar smooth 0°-4°		C	100	72	
																991': Planar smooth					
																From 992' to 992.75': 45° wedge					
1555 -995																From 995' to 997': S. stepped					
																From 996' to 997': 2 Planar smooth					
																998': 13° Planar smooth					
1550 -1000																-999.6': 38° Planar smooth		C	100	72	
																1000.9': Planar smooth					
																From 1003' to 1005': Rubble decomposed, extreme veining					
1545 -1005																From 1005' to 1007': 4 Planar smooth 0°-3°					
																1008': 45° Planar smooth					
1540 -1010																1009.9': 48° Planar smooth		C	100	71	
																1011.38': 41° Planar smooth					
																From 1013' to 1014': 3 Planar smooth, moderate veining					
1535 -1014	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite and															From 1014' to 1032':					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1530 1020	hornblende porphyry phenocrysts, trace muscovite, pyroxene, and chlorite														Highly fractured, all rubble						
1525 1025																					
1520 1030																					
1515 1035																					
1510 1040	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1032' to 1042.5': Rubble, J. fractures at 45°-90° throughout						
1505 1045																					
1500 1047																					
1495 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1490 1047																					
1485 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1480 1047																					
1475 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1470 1047																					
1465 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1460 1047																					
1455 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1450 1047																					
1445 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1440 1047																					
1435 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1430 1047																					
1425 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1420 1047																					
1415 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1410 1047																					
1405 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1400 1047																					
1395 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1390 1047																					
1385 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1380 1047																					
1375 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1370 1047																					
1365 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1360 1047																					
1355 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1350 1047																					
1345 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1340 1047																					
1335 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1330 1047																					
1325 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1320 1047																					
1315 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1310 1047																					
1305 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1300 1047																					
1295 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1290 1047																					
1285 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						
1280 1047																					
1275 1047	QTZ MONZONITE, fine grained, light green to gray, aphanitic														From 1047' to 1058': Decomposed						



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1055																					
1058	QTZ MONZONITE, white to light gray, phaneritic, massive, with biotite and hornblende porphyry phenocrysts, trace muscovite, pyroxene, chlorite																				
1060																		C	100	94	
1065																1063': Planar smooth 1064.1': 21° Planar smooth 1064.72': Planar smooth 1066.1': 17° Slickenside smooth					
1070																1068.9': 42° inundated rough From 1069' to 1074': S. fracture at 90°, inundated rough		C	100	41	
1075	From 1074' to 1076': Presense of chlorite															From 1074' to 1077': Rubble, J. fractures 38°-0°, planar smooth					
1078	QTZ MONZONITE, light gray to greenish gray, phaneritic to aphanitic, massive, with an increase in chlorite and biotite, trace muscovite															1077.67': 42° Planar smooth From 1079' to 1082': Major veining		C	100	80	
1080																From 1082' to 1085': Minor to extreme veining					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1090	QTZ MONZONITE, white to light gray, phaneritic, massive, biotite porphyry with monzonite, trace muscovite, hornblended, pyroxene, and chlorite																From 1085' to 1087': Rubble, major veining	C	100	42	
1092																	From 1087' to 1090': 42° smooth, crumbled				
1095																	From 1090' to 1092': Rubble, minor veining				
																	1092.4': 45° inundated rough				
																	1093': inundated smooth				
1100	PEGMATITE DIKE																From 1094' to 1096': Rubble J. fractures	C	100	95	
1105																	1100': 39° Planar smooth, moderate veining				
																	1101': 41° Planar smooth				
																	1102.2': 39° Slickenside smooth				
																	1104': Planar smooth				
																	1105': 47° inundated smooth				
1109																	From 1107' to 1108.2': S. fracture at 79°, planar smooth				
1110																	1108.7': 39° Planar smooth, healed fracturing along pegmatite contact				
																	From 1109' to 1111': S. healed fracture				
1115																	1113': 48° inundated smooth, inside pegmatite				
															1114': 78° inundated smooth						
															1114.9': 49° inundated smooth						
															From 1115' to 1117': Hairline fracture, healed 90° vertical fracture, biotite/hornblende						
															From 1117' to 1122': Rubble J. fractures	C	100	41			

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1120	From 1120' to 1122': Increase in chlorite																				
1125																					
1130																					
1132	CORE LOSS																				
1135																					
1140																					
1145																					
1150																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1160	QTZ MONZONITE, white to light gray, phaneritic, massive															1155': 22' vertical, 4'					
1165																From 1159' to 1161': S. fracture, inundated smooth		C	100	61	
1167																From 1163.5' to 1164': S. at 90° planar smooth					
1170																From 1165' to 1167': Vertical S. at 90° planar smooth					
1175																From 1167' to 1227': Highly fractured, vertical to 45° J. fractures throughout, hydrothermal activity		C	100	20	
1180																		C	100	28	
1185																		C	100	17	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1195																					
1200																		C	100	12	
1205																					
1210																		C	100	31	
1215																					
1220																		C	100	70	

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1227	QTZ MONZONITE, white to light gray, phaneritic, massive, with biotite porphyry, trace muscovite, hornblende, chlorite, and pyroxene																				
1230																					
1235																					
1240																					
1245																					
1250																					
1255																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1265																1259.81': Planar smooth					
																1261.2': Planar smooth					
																1262.2': Planar smooth					
																From 1262.4' to 1263': J. wedge rev angle fracture					
1270																1266.1': 38° Planar smooth					
																From 1267.4' to 1268': Planar smooth, decomposed, minor veining					
																From 1269.4' to 1270': Jointed 45°-37° fracture inundated smooth	C	100	77		
1275																1275.9': 71° Planar smooth					
1280																1279.8': Planar smooth	C	100	78		
																1280.9': inundated smooth					
																From 1282' to 1283': Decomposed, minor veining					
1285																From 1287' to 1317': Minor to moderate veining					
1287	QTZ MONZONITE, light gray to green, aphanitic, massive, with high concentrations of qtz feldspar																	C	100	59	
1290																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1332	QTZ MONZONITE, light gray to white with pink, massive, infused with qtz feldspar pegmatites and K feldspar, trace muscovite, hornblende, and pyroxene																				
1335																					
1340																		C	100	77	
1345																					
1347	QTZ MONZONITE, light gray to green with pink, aphanitic, massive, infiltration of K feldspar																				
1350																		C	100	69	
1352	PEGMATITE DIKE																				
1353																					
1355																					
1358																					
1360	QTZ MONZONITE, light gray to green, aphanitic, massive, with high concentrations of qtz feldspar																		C	100	50
1361																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing						
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05	0.25	0.50	2.50	5.00	B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1180'	-4370	QTZ MONZONITE, light gray to white to pink, phaneritic																			C	100	0			
1175'	-4375																									
1170'	-4380																									
1165'	-4385																									
1160'	-4390																									
1155'	-4395																									
0'																										

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard				B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %
1405	QTZ MONZONITE, light gray to green with pink, aphanitic, with K feldspar, biotite, chlorite, and epidote														From 1401' to 1401.3': Rubble					
1405															1405': Planar smooth					
1410															From 1407.3' to 1409': 6 Planar smooth	C	100	61		
1415															From 1412' to 1415.5': Rubble, decomposed					
1420															From 1418.2' to 1419.4': Rubble	C	100	37		
1422														From 1422' to 1437': Moderate to severe veining, broken down into soil like quality						
1425																				
1430																				
1430																				
1430																				
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BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing					
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments		
1437	PEGMATITE DIKE																						
1440																		C	100	75			
1442																		From 1442' to 1512': Moderate to severe veining, broken down into soil like quality					
1445																							
1450																			C	100	72		
1455																							
1460																			C	100	73		
1465																							
							</																

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1475																					
1480																		C	100	77	
1485																					
1490																		C	100	71	
1495																					
1500																		C	100	40	
1505																		C	100	60	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1510																					
1512	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite porphyry, increased K feldspar replacing plagioclase, small qtz feldspar pegmatite, trace pyroxene, muscovite, chlorite, and hornblende																				
1515																		C	100	71	
1520	PEGMATITE DIKE																				
1523.5																		C	100	39	
1525																					
1530																					
1533	QTZ MONZONITE, light gray to green, aphanitic to phaneritic, massive																	C	100	69	
1535																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1541	QTZ MONZONITE, light gray to white, phaneritic, massive																				
1545																From 1545' to 1546': Vertical S. at 90°, inundated rough		C	100	80	
1550																1546.4': 32° and 38° Planar smooth wedge					
1555																1548.6': 47° Planar					
1560																1549': 27° Planar smooth					
1565																1549.2': 4° Planar smooth					
1570																1550': 0° Planar smooth					
1575																From 1552' to 1553.5': Rubble J. fracture		C	100	41	
1580																1555': 42° Planar smooth, S. at 61°					
1585																1555.9': 0° Planar smooth					
1590																From 1556' to 1557': Rubble J. fracture					
1595																From 1557' to 1559.5': (6) 31°-47° fractures, rubble					
1600																1560.4': 47° Planar smooth					
1605																1561.5': 39° and 42° Wedge					PL(A) = 379
1610																1562.3': Planar smooth					
1615																1563.47': 21° Planar smooth		C	100	78	
1620																From 1564' to 1565.3': (4) 20°-30° Planar smooth					PL(A) = 141
1625																1565.6': 68° inundated smooth					
1630																From 1567' to 1569.3': S. at 90° to 45° inundated smooth J. fractures					
1635																1571.6': Planar smooth					
1640																From 1573' to 1574': 4 Rubble J. planar smooth		C	100	69	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
970															0.05	From 1578' to 1581': (6) 42°-26°-90° S. fractures, planar smooth				PL(A) = 1,025	
1580															0.25	1578.1': 47° Planar smooth					
															0.50	From 1582' to 1584': Rubble, S. at 45°-90°					
965															2.50	From 1584.5' to 1585.5': Vertical slickenside biotite/chlorite at 90°	C	100	29		
1585															5.00	From 1587' to 1589': S. fracture at 90°-77° planar smooth					
960																1591': Planar smooth					
1590																1592.9': 41° Planar smooth					
955																From 1593.3' to 1593.5': 2 J. fractures at 41°	C	100	56		
1595																1594': 42° Planar smooth					
950																From 1595.6' to 1597': Rubble					
1600															From 1597' to 1602': (15) 39°-49° S. J. fractures planar smooth						
945															From 1602' to 1605': S. J. fractures at 32°-90° along pegmatite intrusions (10), rubble						
1605															1606': 44° Planar smooth	C	100	56			
940															From 1608' to 1610.9': 6 S. at 38°-90°						

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard				B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1650																					PL(A) = 710 PL(A) = 858
1655																From 1654' to 1657': 12 J. fractures planar smooth		C	100	41	
1660																From 1657' to 1659.6': Alteration appears as fracture, no true fracture					
1665																From 1659.6' to 1661': 6 J. fractures at 57° planar smooth					
1670																From 1662.5' to 1666': Rubble J. planar smooth fractures		C	100	62	
1675																1669.7': inundated smooth 1670': 0° Planar smooth 1670.7': 0° Planar smooth 1671.2': 0° Planar smooth 1672.3': 0° Planar smooth 1672.6': 0° Planar smooth 1674': Planar smooth 1675.2': 23° Planar smooth 1675.6': 17° Planar smooth		C	100	66	UCS = 3,022

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1680	PEGMATITE DIKE						○														
1681							○														
1685																		C	100	56	
1690																					
1692	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite and hornblende porphyry, trace muscovite, pyroxene, chlorite, and lower percentage of K feldspar																	C	100	51	
1695																					
1700																					
1705																		C	100	70	
1710																					
1715																					
1720																					
1725																					
1730																					
1735																					
1740																					
1745																					
1750																					
1755																					
1760																					
1765																					
1770																					
1775																					
1780																					
1785																					
1790																					
1795																					
1800																					
1805																					
1810																					
1815																					
1820																					
1825																					
1830																					
1835																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
830 1720																					
825 1725																		C	100	81	
820 1730																					
815 1735																		C	100	74	
810 1740																From 1737' to 1739': Rubble					
																1739.2': 49° Planar smooth					
																1739.7': 41° Planar smooth					
																From 1740.7' to 1743.7': Rubble					
805 1745																From 1744.8' to 1745.2': 45°K feldspar sheeting - 46° Plagioclase sheeting wedge					
																1745.7': Planar irregular					
																From 1746' to 1746.3': (3) 51° stress fractures, smooth planar					
																From 1747' to 1749': Rubble					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1755																					UCS = 11,631
1757	CORE LOSS																	C	83	52	PL(A) = 453
1758.7 1759.2	PEGMATITE DIKE																				PL(A) = 821
1760.60																		C	100	39	
1765																					
1770																					
1775																		C	100	69	
1780																					PL(A) = 610
1785																					
1790																					
1795																					
1800																					
1805																					
1810																					
1815																					
1820																					
1825																					
1830																					
1835																					
1840																					
1845																					
1850																					
1855																					
1860																					
1865																					
1870																					
1875																					
1880																					
1885																					
1890																					
1895																					
1900																					
1905																					
1910																					
1915																					
1920																					
1925																					
1930																					
1935																					
1940																					
1945																					
1950																					
1955																					
1960																					
1965																					
1970																					
1975																					
1980																					
1985																					
1990																					
1995																					
2000																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions

PROJECT: Hydrostor Zevsar

PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7

NORTHING: 2153552.632

EASTING: 6514916.08

PROJECT No: 951-20

DATE: 3/17/2023 - 5/19/2023

DIP/AZIMUTH: -90 /

DEPTH (ft) FL	Description of Strata	Degree of Alteration	Graphic Log	Rock Strength					Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing		
				Very Soft	Soft	Med-Hard	Hard	Very Hard			Type	Core Rec. %	ROD %
1785.7 1786.3	PEGMATITE DIKE	CA	○ ○						5.00 2.50 0.50 0.25 0.05	Vertical S. at 90°, rubble			
1790		HA	○ ○							1788.1': 17° Planar smooth			
1795		MA	○ ○							From 1789.4' to 1789.5': 2 Planar smooth 0°-1°			
1798	PEGMATITE DIKE	SA	○ ○							1790': 29° Planar smooth			
1800.0		Fr	○ ○							1790.61': 58° Planar smooth			
1805			○ ○							1791': Rev angle 42° smooth planar	C	100	55
1810			○ ○							1791.5': Wedge mean break			
1815			○ ○							1794.1': 68° Planar smooth			
1818			○ ○							1796': Planar irregular			
1820			○ ○							From 1797.5' to 1801': 90-42° J. fractures, almost rubble			
1825			○ ○							From 1802' to 1807': Hairline healed 90°-69° vertical fracture mostly expanded, some area slightly separated			
1830			○ ○							1808': Planar smooth	C	100	24
1835			○ ○							From 1808.4' to 1809.2': Rubble			
1840			○ ○							From 1810' to 1812': Hairline 90° healed, plagioclase infill fracturing system			
1845			○ ○							1812.4': 46° Planar smooth			
1850			○ ○							1813.1': 29° Planar smooth	C	100	74
1855			○ ○							1816': Vertical S. at 90°, healed fracturing			
1860			○ ○							1818': Planar smooth			
1865			○ ○							1818.2': 30° Planar smooth			

BORING TYPE: HQ3

HOLE DEPTH (ft): 3167

REMARKS:

DRILLER: Crux

WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger

CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1825																					
1829																					
1830	QTZ MONZONITE, medium to coarse grained, light to dark gray, aphanitic - phaneritic, massive, homogenous, with plagioclase/qtz porphyry																	C	100	61	UCS = 10,296
1835																					
1840																					
1845																					
1847	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite/hornblende porphyry, trace muscovite, pyroxene, chlorite																				
1850																					
1855																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing				
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard			Ex Hard	B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
690 1860														1855.1': Vertical fracture 1855.4': Reverse angle fracture at 45° 1856.1': 45° fracture, creating wedge with 1855.4' From 1857' to 1859': (10) 22°-34° Planar smooth				PL(A) = 860			
685 1865														From 1863.7' to 1864.1': 3 Planar smooth From 1865' to 1865.6': Planar smooth 1865.2': 22° Planar smooth 1866': 0° Planar smooth 1866.1': 51°-45° Wedge reverse angle inundated smooth 1867.45': Planar smooth 1868.6': 2 Planar smooth From 1869.2' to 1872': Vertical S. at 90°, (3) 45° Stress J. From 1872' to 1877': Rubble	C	100	50				
680 1870																					
675 1875																C	100		34		
670 1880														1878': 32° Planar smooth From 1880' to 1885': Stress J. fractures at 45°-90°							
665 1885																C	100		16		
660 1890														1886.2': 1/2 Rubble 1886.6': 41°-32°							
655 1895																					
650 1900																					
645 1905																					

PL(A) = 860

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1893	QTZ MONZONITE, grayish green to pink, massive																				
1895																					
1902	QTZ MONZONITE, light gray to white to pink, intruded with qtz feldspar pegmatite																				
1905																					
1915	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite/hornblende porphyry, trace muscovite, chlorite, pyroxene																				
1920																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1930															1925.2': 11° Planar smooth From 1925.4' to 1926': 90° inundated smooth From 1927' to 1928.1': 27°, 78° Rev angle 59° wedge planar smooth From 1930.2' to 1930.4': 0°-5° Planar smooth				ITS = 1,256		
1935															1932.1': 42°-45° Planar smooth 1932.2': Planar smooth From 1933.2' to 1934.6': (3) 78° J. fractures with K feldspar infill, smooth planar From 1934.6' to 1934.8': (2) 84° J. fractures planar smooth 1935.7': Vertical S. 1936.1': inundated smooth From 1936.2' to 1936.6': 71°-48° Rev angle, smooth planar 1938': 0° Planar smooth From 1938.4' to 1939': (3) 45° J. fractures with K feldspar infill, planar smooth 1939.5': 45° Planar 1940.2': 32° inundated smooth 1940.25': 55° J. fracture 1940.3': 55° J. fracture 1940.4': 55° J. fracture 1940.9': 17° Planar From 1941' to 1942': (6) 71° J. fractures, (3) 45° Planar smooth From 1943.1' to 1943.4': 90°-47°-38° (3) Planar smooth - K feldspar contact 1946.2': Planar irregular 1949': 51° inundated rough From 1949.2' to 1946': 49° inundated smooth, multiple headed fractures (K feldspar) From 1950' to 1954': Rubble	C	100	61	PL(A) = 1,073 PL(A) = 559 UCS = 17,783 PL(A) = 23,502		
1945															1938': 0° Planar smooth From 1938.4' to 1939': (3) 45° J. fractures with K feldspar infill, planar smooth 1939.5': 45° Planar 1940.2': 32° inundated smooth 1940.25': 55° J. fracture 1940.3': 55° J. fracture 1940.4': 55° J. fracture 1940.9': 17° Planar From 1941' to 1942': (6) 71° J. fractures, (3) 45° Planar smooth From 1943.1' to 1943.4': 90°-47°-38° (3) Planar smooth - K feldspar contact 1946.2': Planar irregular 1949': 51° inundated rough From 1949.2' to 1946': 49° inundated smooth, multiple headed fractures (K feldspar) From 1950' to 1954': Rubble	C	100	56			
1950															1938': 0° Planar smooth From 1938.4' to 1939': (3) 45° J. fractures with K feldspar infill, planar smooth 1939.5': 45° Planar 1940.2': 32° inundated smooth 1940.25': 55° J. fracture 1940.3': 55° J. fracture 1940.4': 55° J. fracture 1940.9': 17° Planar From 1941' to 1942': (6) 71° J. fractures, (3) 45° Planar smooth From 1943.1' to 1943.4': 90°-47°-38° (3) Planar smooth - K feldspar contact 1946.2': Planar irregular 1949': 51° inundated rough From 1949.2' to 1946': 49° inundated smooth, multiple headed fractures (K feldspar) From 1950' to 1954': Rubble						
1955															1938': 0° Planar smooth From 1938.4' to 1939': (3) 45° J. fractures with K feldspar infill, planar smooth 1939.5': 45° Planar 1940.2': 32° inundated smooth 1940.25': 55° J. fracture 1940.3': 55° J. fracture 1940.4': 55° J. fracture 1940.9': 17° Planar From 1941' to 1942': (6) 71° J. fractures, (3) 45° Planar smooth From 1943.1' to 1943.4': 90°-47°-38° (3) Planar smooth - K feldspar contact 1946.2': Planar irregular 1949': 51° inundated rough From 1949.2' to 1946': 49° inundated smooth, multiple headed fractures (K feldspar) From 1950' to 1954': Rubble	C	100	34			

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



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PROJECT No: 951-20

DATE: 3/17/2023 - 5/19/2023

DIP/AZIMUTH: -90 /[illegible]

LOGGED BY: Chris Messenger

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND

C Core drilling
W Water seep
T Water level

ITS	Indirect tensile strength (Brazilian) test (psi)	SILK	Slake durability test (Type)
PL(A)	Point load axial test (5s/50) (psi)	TRI	Triaxial stress test (psi)
PL(D)	Point load diametral test (5s/50) (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
550 2000																					
545 2005																From 1999' to 2000': (3) 41° J. stress fractures planar smooth From 2000.75' to 2000.95': (2) 19°-21° Planar smooth From 2001.4' to 2002': 61° Healed fracture, K feldspar From 2003' to 2003.7': 60°-42° J. stress fractures planar smooth 2005': 0° Planar smooth 2006': 31° Planar smooth 2006.6': K feldspar contact		C	100	80	PL(A) = 1,189 ITS = 1,661 UCS = 20,405 SLK = Type I TRI = 26,719
540 2010																2010': Planar smooth 2011': 30° Planar smooth					
535 2015																		C	100	77	
530 2020																2016': Rubble From 2017' to 2018': 3 Planar smooth From 2019' to 2019.73': 4 Healed J. fractures, K feldspar 2021': 6° Planar smooth 2023': 2° Planar smooth					
525 2025																From 2024' to 2025': 60°-70° K feldspar infill J. stress fractures, planar smooth From 2026' to 2026.48': (2) 41° Planar smooth From 2027.2' to 2028.6': Planar smooth		C	100	70	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex-Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
515 -2035															2031': 0° Planar smooth	C	100	100	ITS = 1,129 UCS = 12,102 SLK = Type I TRI = 37,956 PL(A) = 716		
510 -2040															2039.2': 22° Planar smooth 2040': 0° Planar smooth						
505 -2045															From 2042' to 2043': (3) 40° Healed J. fractures, planar smooth	C	100	96			
500 -2050															2047.2': 44° Planar smooth 2049': 17° Planar smooth 2050.7': Planar smooth						
495 -2055															2054': Planar smooth 2055.6': 17° inundated smooth 2056': 16° inundated smooth	C	100	94			
490 -2060																			PL(A) = 947		
485 -2065															2063.7': 0° Planar smooth	C	100	78			

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration Fr SA MA HA CA	Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing			Test Results & Comments
				Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			Type	Core Rec. %	RQD %	
480	2083.2 PEGMATITE DIKE	Fr								0.05	2084.1: 0° Planar smooth	B - Bedding S - Shear J - Joint F - Fault			ITS = 1,364
475										0.25	2084.4: 0° Planar smooth				UCS = 17,449
470										0.50	2084.8: 0° Planar smooth				SLK = Type I
465										2.50	2086.7: 0° Planar smooth				TRI = 32,052
460										5.00	2070: Planar smooth				
455											2074.1: Planar smooth				
450											From 2077 to 2079: (6) 15°-30° J fracture, pegmatite				
445											2081: K feldspar, epidote - planar				
440											2083: 3 Planar				
435											2084.9: 32° Planar smooth				
430											2086: 61° inundated smooth				
425											2089.7: 0° Planar smooth, 61° Stress fracture				
420											2090: Stress healed fractures from pegmatite				
415											2091: 47° Planar smooth				
410											2093.6: 42° Planar				
405											2094: 68° Healed K feldspar				
400											From 2098.6 to 2098.9: Planar smooth				

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167

DRILLER: CruX
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Stress durability test (Type I)
PL(A)	Point load axial test (psi)	TRI	Triaxial stress test (psi)
R(LO)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard				Type	Core Rec. %	RQD %	Test Results & Comments
2105																From 2100' to 2102': Vertical S. at 90° planar smooth				SLK = Type I TRI = 42,196
2108.0	PEGMATITE DIKE															From 2103.1' to 2103.4': Planar smooth, slickenside	C	100	79	
2110																From 2108' to 2112': (9) 38°-42° J. fractures, pegmatite infusion				
2115																From 2112' to 2117': Qtz feldspar pegmatite hairline healed fractures throughout				ITS = 1,361 UCS = 24,510 PL(A) = 963
2116																From 2112.1' to 2113.5': (4) 30°-42° fracture points	C	100	51	
2120																2115': Planar smooth 2116.1': 51° Planar smooth From 2117' to 2120.6': Vertical S. at 90° K feldspar infill				
2125																2122.7': Planar smooth 2123': Planar smooth	C	100	64	ITS = 1,361 UCS = 24,510 PL(A) = 963
2130																2126.4': Vertical S. From 2127' to 2128.3': 3 Planar smooth, (1) 38° planar smooth				
																2129.3': Planar smooth From 2130.65' to 2131': (3) 0°-3° Planar smooth				
																2133.8': 79° Planar smooth	C	100	80	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
2140	QTZ MONZONITE, light gray to white, phaneritic, with porphyritic biotite mica, quartz, K feldspar, and plagioclase, trace amounts of pyrite																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2170		PEGMATITE DIKE																				
2172		QTZ MONZONITE, light gray to white, phaneritic, with porphyritic biotite mica, K-feldspar, plagioclase, and quartz, trace chlorite																				
2175																			C	100	68	SLK = Type I
2180																						PL(A) = 255
2185																			C	100	74	ITS = 782
2190																						
2195																			C	100	91	UCS = 13,136
2200																						PL(A) = 693
																						SLK = Type I
																						TRI = 20,972
																			C	100	84	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2210																From 2205' to 2206.4': 10°-18° Planar					
2215																2208.2': inundated 2209': 6° inundated 2209.8': inundated 2211.2': 7° Planar 2211.8': 19° Planar					
2220																2215.2': Planar smooth 2216.2': Planar smooth		C	100	94	ITS = 590 UCS = 13,570
2225																2221.2': Planar smooth 2222.2': Planar smooth 2223.1': 17° Planar smooth 2223.8': 52° Planar 2224': 40° Planar smooth 2225.81': 9° Planar smooth 2226.4': Planar smooth 2227.4': 32° Planar smooth 2229.1': 6° Planar smooth		C	100	80	SLK = Type I
2230																From 2235.7' to 2237': (8) 22°-25° Stress J. fractures, planar smooth From 2236' to 2237': (6) 70°-80° Stress J. fractures, rubble 2237.9': 59° Stress J. planar smooth		C	100	65	TRI = 37,349 PL(A) = 826
2235																		C	100	100	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								Very Soft	Soft	Med-Hard	Hard	Very Hard						Ex Hard	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard		Ex Hard	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
2245	QTZ MONZONITE, light gray to white, phaneritic, with porphyritic biotite, K-feldspar, quartz, and plagioclase, trace chlorite and epidote PEGMATITE DIKE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2280																		C	100	28	SLK = Type I
2285																		C	100	89	ITS = 499
2290																					
2294																					
2295	QTZ MONZONITE, light to dark gray, phaneritic, with porphyritic biotite, quartz, and plagioclase																				
2297	QTZ MONZONITE, light gray to white, phaneritic, with porphyritic biotite mica, K-feldspar, plagioclase, and quartz, trace chlorite and epidote																				
2300																		C	100	49	UCS = 582
2305																					
2310																					
2315																					
2320																					
2325																					
2330																					
2335																					
2340																					
2345																					
2350																					
2355																					
2360																					
2365																					
2370																					
2375																					
2380																					
2385																					
2390																					
2395																					
2400																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
200-2350																					SLK = Type I UCS = 22,117
195-2355																					
190-2360																					SLK = Type I
185-2365																					
180-2370																					PL(A) = 950
175-2375	PEGMATITE DIKE																				ITS = 840

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

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EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
130-2420																smooth/inundated					UCS = 5,349
																2415': 27° Planar smooth					
																2416.1': 0° Planar smooth	C	100	56		ITS = 1,440
																2417.7': 7° Planar smooth					
																2419': 52° Planar smooth					
																2420.2': 47° Planar smooth					
																2421.2': 48° Planar smooth	C	100	54		
125-2425																From 2423' to 2425': Vertical S. at 88° inundated smooth with plagioclase infill					PL(A) = 1,281
																2428.2': 69° Planar smooth					
																2429.08': Stress fracture 71°-61°					SLK = Type I
120-2430																2429.4': J. fractures - 71° S.					
																2431.7': S. at 87° planar smooth					
																2432.9': S. at 67°	C	100	56		
																2433.4': Multiple fractures on 45°					
115-2435																2433.6': S. at 66°					
																2434': S. at 71°, stress joints, planar smooth					
																From 2436.2' to 2438': (3) 71°-74° S. inundated smooth	C	100	69		
110-2440																2440.9': Planar smooth					TRI = 31,409
																From 2442.5' to 2443': 69°-71° inundated smooth					
105-2445																2446.75': S. at 67°					
																2448': Planar irregular					PL(A) = 1,230
																From 2450' to 2450.3':	C	100	74		SLK = Type I

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

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BORING TYPE: HQ3

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REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
60 2490																		C	100	80	ITS = 1,265
50 2495																		C	100	46	
60 2500																		C	69	17	
2502	CORE LOSS																				
45 2505																		C	0	0	
2508																		C	82	18	
40 2510																					
35 2515																		C	100	43	SLK = Type I
30																					

From 2494.4' to 2495.2':
(4) 27" J. stress
fractures planar smooth

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2525	QTZ MONZONITE, light gray, phaneritic, massive, with trace chlorite, muscovite, and pyroxene																	C	100	52	UCS = 23,472
2530																		C	100	70	ITS = 1,314
2532																		C	100	81	PL(A) = 119
2535																					ITS = 999
2540																		C	100	63	
2545																		C	100	26	
2550																					
																					UCS = 2,607

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing			
																			Test Results & Comments			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %			
-2560																	planar smooth	C	100	59	SLK = Type II	
																	From 2553.2' to 2554': Vertical S., pegmatite then decomposed monzonite to 2557'					
																	From 2553.7' to 2553.9': 2 Planar smooth					
																	From 2554' to 2555': Vertical 90° fracture					
																	2555': 48° Planar smooth					
																	2555.7': 38° Planar smooth					
-2565																	From 2562' to 2577': All rubble	C	100	0	SLK = Type I	
																		C	100	33		
-2570																		C	100	9		
-2575																		C	100	36	UCS = 2,960	
-2580																	From 2579' to 2582': Rubble					
																		C	100	76	ITS = 112	
-2585																	2583': Planar irregular					
																	2586.7': S. at 88°					
																		C	100	53		

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL	Description of Strata	Degree of Alteration				Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing			Test Results & Comments		
DEPTH (ft)		Fr	SA	MA	HA		CA	Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard				B - Bedding S - Shear	J - Joint F - Fault		Type	Core Rec. %
45-2595	PEGMATITE DIKE QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite/hornblende porphyry, trace chlorite, muscovite, pyroxene, and pyrite	Fr																			PL(A) = 23
		SA																			
		MA																			
		HA																			
		CA																			
																					PL(A) = 177
																					UCS = 17,917 ITS = 1,103
																					ITS = 1,366
5-2620																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Stress durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test (psi)
W	Water level	PL(D)	Point load diametral test (psi)
		TR	Tribol stress test (psi)
		UCS	Uniaxial stress test (psi)



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ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water		Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing			Test Results & Comments			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard						Type		Core Rec. %	RQD %	
26330	PEGMATITE DIKE															From 2626.6' to 2626.75': 20°-45° Planar smooth	2625.9°: Planar irregular	C	100	93	PL(A) = 531 SLK = Type I		
26335																	From 2626.6' to 2626.75': 20°-45° Planar smooth	2627°: 52° Planar smooth	C	100		82	
2640																		From 2629 to 2631°: 69° Planar smooth 7" jointing network at 90°-70° healed fractures with biotite/chlorite infill	From 2636' to 2637°: Vertical S, at 83° with multiple stress fractures, biotite/chlorite infill				44
2645																		From 2632°: 68° Planar smooth					
2650																		From 2652.5' to 2654°: Vertical S, at 90° deformed		C		100	34
2655																From 2657.1°: inundated smooth	2658°: 67° Planar smooth	C	100	58	UCS = 3,628 ITS = 656		
0																2658.9°: 22 Planar							

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167

DRILLER: CruX
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Stress durability test (Type I)
PL(A)	Point load axial test (psi)	TR	Triaxial stress test (psi)
PL(D)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

C	Core drilling
W	Water seep
W	Water level

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
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PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities	Sampling & In Situ Testing					
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05	0.25		0.50	2.50	5.00	B - Bedding S - Shear	J - Joint F- Fault	Type
																		smooth						
	2661.5 2661.8	PEGMATITE DIKE																From 2659' to 2660': 59° Stepped rough						
																		From 2659.65' to 2660.1': Vertical S. at 78° planar smooth		C	100	80	UCS = 13,928	
																		2661.1': Hairline fracture at 65° unloading						SLK = Type I
																		2661.5': Planar irregular with pegmatite						
																		2663': 49° biotite/chlorite infill, planar smooth						
																		From 2667' to 2682': Rubble, qtz pegmatite		C	100	4	PL(A) = 90	
	2672 2672.5	QTZ MONZONITE																						
	2675.9 2676.3	CORE LOSS																						
																				C	89	21		
	2682	PEGMATITE DIKE, white to light gray to pink, with K feldspar																		C	100	64	SLK = Type I	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2694.8																	smooth					
																	2695': 0.3'					
																	2696.1': Planar irregular					
																	From 2696.7' to 2697': Rubble	C	100	26		UCS = 12,090
-150	-2700																					
-155	-2705																		C	100	0	
2707		QTZ MONZONITE, light gray to white, phaneritic, massive																	C	100	0	
-160	-2710																From 2708.6' to 2708.9': (2) 39° Planar smooth					
2710.5		CORE LOSS															From 2709.6' to 2710': (2) 50° Planar smooth					
2711																			C	91	16	
																	2711.4': 45° Planar smooth					
																	From 2712' to 2715': Rubble	C	100	42		
-165	-2715																From 2715' to 2715.68': Vertical S. at 71°					
																	From 2718' to 2721': 47° Planar smooth, rev angle fractures, rubble					
-170	-2720																					
2721		CONCRETE, light gray, phaneritic, massive, with trace biotite/hornblende porphyry phenocrysts															From 2721' to 2722': Rubble					
																	From 2722' to 2723': Diorite with biotite/hornblende infill	C	100	49		PL(A) = 1,039
-175	-2725																From 2724' to 2725': Multiple angle/planar fractures (6)					
																	From 2725' to 2726': Rubble					
																	2726.5': Planar smooth					
																	2727': Planar smooth					
180																	2727.5': Rev angle fracture at 27° and 45° planar smooth					UCS = 9,219

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-185 -2735																-2730.5': 0° Planar smooth					
																-2733': 38° Planar smooth		C	100	37	
																-2734': Planar smooth					
																-2734.5': 61° Planar smooth					
																From 2735' to 2737': Multiple healed and open 70°-80° vertical S. fractures					SLK = Type I
-190 -2740																-2739.5': 55° Planar smooth		C	100	57	ITS = 1,582
																From 2739.7' to 2740': Vertical S. at 51°-55° inundated smooth					
																-2741.5': inundated irregular rough					
-195 -2745																From 2742' to 2743.1': Rubble					
																-2744': 78° Healed/62° vertical S.					
																From 2744.9' to 2745.75': Vertical S.					
																From 2747' to 2749': Rubble, 40°-50° angle planar smooth		C	100	0	
-200 -2750																-2750.1': S. at 67° planar smooth					
																From 2751' to 2752': 38°-46° Planar smooth		C	100	39	
																-2752.7': 32° Planar smooth					
-205 -2755																-2754.3': 67° Planar smooth					
																From 2755' to 2756': Multiple S. fractures at 90°-80° inundated		C	100	37	UCS = 21,587
																-2758': Planar smooth					
																-2759': 67° inundated smooth					
-210 -2760																From 2760' to 2762': S. fracture					PL(A) = 750
-215 -2765																-2764.5': 67° Planar					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2770	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite/hornblende porphyry phenocrysts															2765': 45° Planar smooth, K-feldspar					SLK = Type I ITS = 1,042 PL(A) = 499 UCS = 3,927
2775																2766': 61° Planar smooth		C	100	24	
																2767': 2 J. fractures					
																2768': 32° inundated smooth					
																2768.4': S. fracture					
																2769.1': 90° Planar smooth					
																From 2769.7' to 2770.6': Rubble		C	100	45	
																From 2771' to 2772': S. at 67° planar smooth					PL(A) = 499 UCS = 3,927
																From 2777.7' to 2778': Clay like, altered		C	100	47	
																From 2778.4' to 2779': Slickensided, deformed					
																From 2782' to 2787': Healed vertical fracture (chlorite)		C	100	0	
																From 2787' to 2787.4': Planar smooth					
																From 2790' to 2791.6': 6 Planar smooth					
																2793.1': 47° Planar smooth, K-feldspar contact					
																From 2794' to 2797': Fractured rubble, chlorite rich, healed fracturing, moderate veining		C	100	38	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ☐)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard		Ex-Hard	0.05 0.25 0.50 2.50 5.00	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2802	QTZ MONZONITE, light gray to white, phaneritic, massive, with sections of pegmatite and decomposed biotite/hornblende phenocrysts, trace muscovite, chlorite, and pyroxene															From 2802.4' to 2802.6': 0°-3° Planar irregular				ITS = 1,023 PL(A) = 712	
2805																2803': 32° Planar smooth/inundated smooth	C	100	45		
															2804.3': 0° Planar smooth						
															From 2804.9' to 2805': (4) 0° Planar smooth						
2810																From 2807' to 2808': S. at 90° biotite infill/mineralization	C	100	57	UCS = 22,772	
															2809': 61° Planar rough						
															2809.8': Rev angle at 27° planar smooth						
2815																From 2812' to 2814.6': Rubble, vertical and horizontal fractures	C	100	26		
															From 2815' to 2816': (4) 3°-9° Planar smooth						
															2817.3': 32° Planar smooth						
2820														From 2818' to 2819.6': (6) 68°-71° J. fractures, (1) 49° Planar smooth, K-feldspar-chlorite	C	100	56	SLK = Type I			
													From 2821' to 2822': Vertical S. at 80°-90° healed fracture, planar smooth								
													2823.6': Planar irregular								
2825														2824.1': 52° inundated rough	C	100	21				
													2824.9': 48° inundated rough								
													2826.3': 61° Planar smooth (chlorite/biotite)								
2830														2827.3': 52° Planar smooth	C	100	21				
													From 2828' to 2828.4': 31°-28° Planar smooth								
													From 2830' to 2832': Multiple fracture lines both vertical and horizontal								
2830														From 2832' to 2842': Multiple unidirectional fractures 0°-90° vertical and 0°-42° horizontal							

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

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EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
																rubble, healed plagioclase/K-feldspar infill 2-4mm					
-2840																		C	100	37	
-2845																-2843.9': Defected crumple/rubble		C	100	10	PL(A) = 591
-2850																From 2847' to 2852': 40° Planar smooth, 60° inundated rough		C	100	0	
-2855																From 2852' to 2857': (4) 0°-3° Planar smooth		C	100	12	
-2860																From 2853' to 2855.7': Hairline stress fractures, planar smooth along mineralized infill		C	100	31	
-2865																From 2857' to 2860.4': Rubble		C	100	31	
-2870																From 2860.4' to 2861': (4) 38°-42° Planar smooth		C	100	31	
																2862.2': 51° Planar smooth					
																2862.7': 48° Planar smooth with stress line fracture					
																2864': inundated rough irregular					
																2865.7': Biotite slickenside at 49° planar smooth					
																2867.3': Planar irregular		C	100	31	
																2868': Planar irregular					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: CruX
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



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EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2875																From 2869' to 2870': (5) 0°-10° Planar smooth, K-feldspar					PL(A) = 138 ITS = 417
2878	PEGMATITE DIKE															From 2871' to 2872': Vertical S. 78°-88° inundated rough					
2880																From 2872.4' to 2873': Healed fractures					
2881																2874': 4° Planar smooth					
2885																2876': 17° inundated rough		C	100	42	UCS = 4,611 SLK = Type II
2888																2876.4': 3° Planar smooth					
2889																2876.9': 0° Planar smooth					
2890																From 2878' to 2878.2': Fragmented					
2894	PEGMATITE DIKE															2879': Fragmented, rough irregular					ITS = 1,454 SLK = Type I
2895																From 2880' to 2881.6': (6) 0°-3° Planar breaks fragmented					
2896																2880.9': 1° Planar smooth					
2897																From 2882' to 2883': Rubble		C	100	22	
2898																From 2885.6' to 2886.4': (3) 38°-40° Planar smooth on K-feldspar infill					SLK = Type II
2899																From 2887' to 2888': Decomposed rubble					
2900																2889.1': Planar irregular					
2901																2890': Rev angle planar irregular		C	100	51	
2902																2891': 3° Planar, defected					ITS = 1,454 SLK = Type I
2903																From 2892' to 2893': 30°-40° Planar irregular break, healed K-feldspar fractures					
2904																2893.5': Planar rough					
2905																From 2893.7' to 2894': Rubble					
2906																2896.1': 52° Planar smooth					ITS = 1,454 SLK = Type I
2907																From 2897' to 2898.2': 80°-90° Vertical fracture inundated rough					
2908																From 2899' to 2902.6': (16) 3°-0° Planar smooth fractures, K-feldspar contact		C	100	13	
2909																2903.8': Planar irregular					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing			
																			Test Results & Comments			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %			
													</									

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-2945	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite/hornblende, trace muscovite chlorite, pyroxene																			ITS = 877	
-2950																					
2952																					
-2955																					
-2960																					
-2965																					
-2970																					
					</																

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2980																					SLK = Type I PL(A) = 717 TRI = 26,949 UCS = 23,574
2985																					
2986.6 2987.2	PEGMATITE DIKE																				
2990																					PL(A) = 630
2995																					
3000																					
3005																					ITS = 1,319 SLK = Type I
3010																					TRI = 36,097

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
3015																(2) 38°-32° J. stress fractures planar smooth, (2) 90° vertical fractures					
																3009.2': 4° Planar smooth					
																From 3010' to 3011.1': (5) 3°-11° J. stress fractures, planar smooth					
																From 3012.8' to 3013': Rubble, pegmatite					
																3014': 0° Planar smooth					
																3015.1': 4°-8° Planar irregular					
																3015.5': 77° Planar					
3020																3016.25': inundated rough-smooth (K-feldspar white infill)		C	100	41	UCS = 10,509 TRI = 32,880
																From 3016.8' to 3017': 45° Planar smooth					
																3018.55': 51° Planar					
																From 3019' to 3020.2': Partially healed 38° fracture					
3025																From 3020' to 3022': 90°-80° Vertical fractures, healed white K-feldspar infill, increase in pink K-feldspar					
																From 3023' to 3023.4': (3) 38° J. fractures planar smooth					
3030	From 3030' to 3032.4': Chlorite present															From 3024.1' to 3026': (13) 45°-65° J. stress fractures planar smooth		C	100	41	
																From 3027.1' to 3027.9': Planar irregular smooth					
																From 3028.4' to 3031': 30° - Rev angle 60° (6)					
																From 3033' to 3038': Multiple 90°-45°-0° fractures, rubble					
3035																		C	100	0	
																From 3039.7' to 3039.9': 4°-11° Planar irregular rough					
3040																From 3040.4' to 3040.9': 22°-11° Stepped-planar rough-smooth		C	100	56	
																3042.1': Planar rough					
																3042.7': 45° Planar rough					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
3050																3043.5': 35° Planar rough					
																3044.5': 90° Vertical					
																From 3046' to 3047': Rubble					
																3046.1': S. at 90° rough	C	100	67		
																From 3048' to 3049.2': Vertical S. fractures at 90°-79°, inundated rough					
																3052.48': Planar smooth					
																3053.51': Planar smooth					
3055																From 3054' to 3056': Vertical stepped stress fractures, rubble, inundated smooth-rough					
																3056.7': 45° Planar smooth					
																3057.2': (2) 0° Planar smooth	C	100	72		
																3057.9': 0° Planar smooth					
3060																From 3059' to 3059.6': Rubble					
																3061': Planar irregular-smooth 0°-4°					
																From 3061.6' to 3082': (2) 6°-0° Planar smooth					
																3062.8': Planar smooth at pegmatite contact					
3065																From 3063.9' to 3065.6': (5) 40°-60° Stress J. fractures - planar smooth, increase in K-feldspar, hairline healed throughout	C	100	65		
																From 3066' to 3068': Vertical S. at 90°, slickenside planar smooth					
3070																From 3069' to 3072': (7) 0° Planar smooth					
																3073': Planar smooth					
																3073.78': 4° Planar smooth					
3075																3075.1': Planar rough					
																	C	100	57		

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2549.7
NORTHING: 2153552.632
EASTING: 6514916.08

PROJECT No: 951-20
DATE: 3/17/2023 - 5/19/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
3120																					
3125																					
3130																					
3132	QTZ MONZONITE, light gray to white, massive, with biotite/hornblende porphyry, trace muscovite, pyroxene, and pyrite																				
3135																					
3140																					
3144	PEGMATITE DIKE																				
3145																					
3148.5																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3167
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 1902 ft, 2592 ft.

LOGGED BY: Chris Messenger
CASING: HW to 71 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2549.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2153552.632

DATE: 3/17/2023 - 5/19/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514916.08

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3167

WATER OBSERVATIONS: 1902 ft, 2592 ft.

CASING: HW to 71 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test 1s(50) (psi)
W	Water level	PL(D)	Point load diametral test 1s(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
0	Well Casing																				
2575																					
5																					
2570																					
10																					
2565																					
15																					
2560																					
20																					
2555																					
25																					
2550																					
30																					
2545																					

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

<u>SAMPLING & IN SITU TESTING LEGEND</u>					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2540																					
40																					
2535																					
45																					
2530																					
50																					
2525																					
55																					
2520																					
60																					
2515																					
65																					
2510																					

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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PROJECT: Hydrostor Zevsar

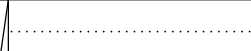
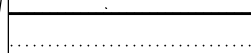
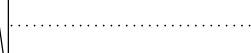
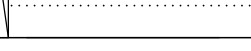
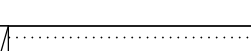
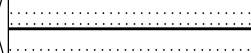
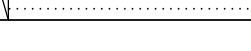
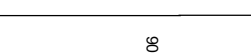
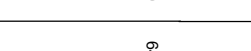
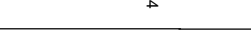
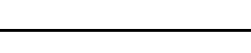
PROJECT LOCATION: Rosamod, CA

NORTHING: 2154898.691

EASTING: 6515647.859

DATE: 6/1/2023 - 7/25/2023

DIP/AZIMUTH: -90 /

EL		Description of Strata	Degree of Alteration				Graphic Log	Rock Strength						Water		Discontinuities		Sampling & In Situ Testing																																																																																																																																																																																																																																																						
DEPTH (ft)	Fr		SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard	Fracture Spacing (ft)	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																				
70																																																																																																																																																																																																																																																																								

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft

CASING: HW to 70 ft..

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

C Core drilling
Water seep
Water level

ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type -
PL(A)	Point load axial test (psi)	TRI	Triaxial stress test (psi)
PL(D)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2470																		C	100	49	
110																		C	100	43	
2465																					
115																		C	100	47	
2460																					
120																		C	100	11	
2455																					
125																		C	100	0	
2450																					
130																		C	100	46	
2445	From 133' to 137': K feldspar																				
135																		C	100	71	
2440																					
																		C	100	65	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2435 145																					
2430 150																		C	100	36	
2425 155																					
2420 160																		C	100	50	
2415 165	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite porphyry, trace epidote, chlorite, muscovite, and pyrite																				
2410 170																					
2405																					

From 160' to 161.9':
Planar/smooth

From 165' to 169': (9)
20°-32° Planar/smooth
joint

170.6': 0° Planar
171': 69° Planar
171.8': 72° Planar
172.6': Inundated/planar
58°
174.2': 42° Inundated

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
178.2	CORE LOSS															planar					
178.7																From 174.5' to 175': (3) 0° Planar					
																From 175' to 178': (6) Planar 0°-20°		C	89	30	
180																From 180' to 182': (4) 0° Planar		C	100	48	
185																From 185' to 187': Rubble					
190																187': (5) 47°-62° J. fracture soft		C	100	55	
195																191': 0° Inundated planar					
																192': 4° Inundated planar					
																192.6': 22° Planar					
																From 194' to 194.6': Wedge rev 22° and 25° inundated rough					
																From 195' to 196': Rubble					
																197': 4° Planar					
																198.6': 0° Planar					
																From 199' to 200': (2) 0° Planar		C	100	42	
																201.9': 38° Planar smooth					
																From 202' to 203.5': (5) 0°-6° Planar smooth					
																204': 78° Vertical S. inundated rough					
																From 205' to 206': (2) 0°-4° Planar					
																206.7': 38° Planar rough					
																From 207' to 209': (4) 26°-32° J. fracture smooth planar		C	100	65	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2365	QTZ MONZONITE, light gray to white, phaneritic, massive, with biotite, trace epidote, chlorite, hornblende, pyrite																				
215																					
2360																					
220																					
2355																					
225																					
2350																					
230																					
2345																					
235																					
2340																					
240																					
2335																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2330																-245.8': 71° Inundated rough					
250																From 250' to 253': (3) 0°-22° Planar smooth		C	100	64	
2325																From 253' to 257': (14) 10°-32° J. fractures, partial rubble					
255																					
256.4	PEGMATITE DIKE																				
256.9																					
2320																From 258' to 258.3': (2) 22°-38° Planar smooth					
260																From 260' to 261': 90° Vertical S. inundated rough		C	100	55	
2315																					
265																-263': 71° Inundated rough					
																From 265' to 267': (3) 40°-60° Fractures/slickensides					
2310																From 268.2' to 268.7': (3) 7°-15° Planar smooth					
270																From 270' to 275': (5) 0°-15° Planar smooth		C	100	43	
2305																					
275																From 276' to 277': (3) 17°-39° Planar smooth					
2300																		C	100	69	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

DEPTH (ft)	Description of Strata	Degree of Alteration	Graphic Log	Rock Strength					Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing		
FL		Fr SA MA HA CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard	B - Bedding S - Shear J - Joint F - Fault	Type	Core % Rec.	Test Results & Comments
2295										280.2': 0° Planar			
285										283.6': 29° Inundated rough From 284' to 284.5': Rubble decomposed 285.5': Planar irregular			
2290										From 288' to 289.2': (3) Chlorite infilled slickensides 0°-17°	C	100	50
280										291.9': 3° Inundated rough From 292.8' to 295': 0°-16° Planar, high chlorite			
2285										295.3': 0° Planar 296.7': 8° Along deformation contact			
285	PEGMATITE DIKE									298.3': 7° Planar 299.8': 17° Planar 300.9': 8° Slickenside	C	100	86
300										303': 4° Inundated rough			
2275										306.4': 29° Slickenside From 308' to 309': (2) R2 inundated smooth			
305										310': 67° Inundated rough, coated with black biotite 310.8': 58° Planar 311.5': 0° Planar 313.2': 0°-2° Planar irregular, high veining	C	100	84
2270	PEGMATITE DIKE												
308.7													
309													
310													
2265													

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian test (psi))	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2260																					
320																		C	100	82	
2255																					
325																					
2250																		C	100	90	
330																					
2245																					
335																					
2240																		C	100	64	
340																					
2235																					
345																					
2230																		C	100	98	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
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EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2225																					
355																					
2220																					
360																					
362	PEGMATITE DIKE																				
2215																					
365																					
2210																					
370																					
2205																					
375																					
2200																					
380																					
2195																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
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PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2190																					
390																		C	100	93	
2185																					
395																					
2180																		C	100	92	
400																					
2175																					
405																					
2170																		C	100	89	
410																					
2165																					
415																					
2160	418.75 419 QTZ MONZONITE																	C	100	91	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2155																					
425																					
426	QTZ MONZONITE																				
427																					
2150																		C	100	83	
430																					
2145																					
435																					
2140																		C	100	73	
440																					
2135																					
445																					
2130																					
450																		C	100	0	
2125																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2120	QTZ MONZONITE, light gray to white, phaneritic, massive, with epidote and chlorite																				
460																					
465																					
470																					
475																					
480																					
485																					
490																					
495																					
500																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
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EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2085 495																					
2080 500																From 491' to 493.7': 0°-8° Planar smooth		C	100	56	
2075 505																From 494' to 495': Vertical speed rough					
2070 510																From 495' to 496': (3) 0°-9° Planar slickenside					
2065 515																From 496' to 497': 90° Vertical					
2060 520																From 498' to 499': (3) 17°, 19°, 24° Inundated slickenside		C	100	53	
2055 525																From 500.75' to 503': (6) 6°-9° Planar smooth					
																From 503.8' to 504.4': (3) 0°-7° Planar smooth					
																		C	100	96	
																From 511' to 515': Calcite healed fracture 7-10mm thick					
																519': 52° Planar smooth		C	100	72	
																522': 41° Planar smooth					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2050																From 526' to 527': 84° Vertical S. veined					
530																529': Multiple 70°-90° Vertical veined fractured healed and open		C	100	73	
2045																533': 50° Planar smooth, 42° irregular smooth					
535																536': 71° Wedge rev angle 69°					
2040																From 540' to 541': 6° Vertical S. planar slickenside		C	95	0	
540																541': 0° Planar 542': 0° Planar decomposed					
2035																From 544' to 544.6': 48° Irregular inundated slickenside					
545																					
546.5	CORE LOSS																				
547																					
2030																					
550																From 551' to 552.7': (6) 0°-17° Planar smooth		C	100	59	
2025																From 553' to 553.75': 79° Stepped slickenside					
555																					
2020																From 559' to 560': Decomposed		C	90	57	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2015																					
565	QTZ MONZONITE, light gray to white, phaneritic, massive, with rich plagioclase and deflection biotite, trace muscovite, pyrite, chlorite, and K feldspar CORE LOSS																				
566																					
567																					
2010																					
570																		C	100	27	
2005																					
575																		C	100	60	
2000																					
580																		C	100	17	
1995																					
585																					
1990																					
590																		C	100	0	
1985																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1980																					
600																					
1975																					
605																					
606	PEGMATITE DIKE																				
1970																					
610																					
612																					
1965																					
615																					
1960																					
620																					
1955																					
625																					
1950																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

ZEV-CH-02-23

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration Fr SA MA HA CA	Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing			Test Results & Comments
				Very Soft	Soft	Med-Hard	Hard	Very Hard				Type	Core Rec. %	RQD %	
634.5 6334.7	CORE LOSS									0.05 0.25 0.50 2.50 5.00	B - Bedding S - Shear J - Joint F - Fault				
											From 637 to 638: (4) 20°-24° J. fractures planar smooth	C	100	84	
											639: 21° Planar smooth From 640 to 653: (2) 0°-7° Planar smooth				
											From 653.3 to 654: 2°-6° Planar irregular stepped rev	C	100	82	
											From 655.4 to 656: 40°-52° Stepped rough				
											From 656 to 657: Vertical healed Ca+2				
											From 658 to 659: (2) Vertical S. J. fractures stepped rough 79°-86°	C	100	71	
	658 658.75 PEGMATITE DIKE										660.3: 32° Planar smooth				
660															

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

SOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
P(A)	Point load axial test (psi)	TR	Triaxial stress test (psi)
P(D)	Point load diametral test (psi)	LCS	Uniaxial stress test (psi)
C	Core drilling		
W	Water seep		
W	Water level		

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1910																From 665' to 667': (3) 0°-12° Planar smooth		C	100	56	
670																-668.25': 48° Inundated slickenside					
																-671': Healed fracture biotite/chlorite					
1905																From 672' to 674': Vertical S. stepped rough					
675																From 674' to 675': (3) Planar slickenside defected					
676	PEGMATITE DIKE															From 676' to 677': Rubble		C	100	39	
1900																					
679																		C	100	43	
680																680': 14° Stepped rough					
																From 682' to 682.8': 7° Planar smooth					
1895																From 682.6' to 693.1': 89° Vertical S. inundated smooth					
685	PEGMATITE DIKE															From 682.7' to 685': Deformed rubble					
687																From 685' to 687': Hairline vertical fracture throughout					
1890																					
690	PEGMATITE DIKE															From 689' to 690': Vertical S.		C	100	44	
691																From 690' to 690.25': Rubble					
																		C	100	26	
1885																From 693.5' to 696': (5) 0°-22° Planar smooth					
695																From 696.5' to 698': 90° Vertical S. inundated smooth					
1880																From 699' to 700': (2) 0° Planar smooth		C	95	44	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ☐)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1875																					
704.4	CORE LOSS																				
704.9	PEGMATITE DIKE																				
707.8																		C	100	0	
710																		C	84	16	
712	CORE LOSS																				
713																					
715																		C	100	21	
720																		C	100	11	
725.25	PEGMATITE DIKE																				
726.7																		C	100	35	
730																					
1845																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1840	QTZ MONZONITE, light gray to white, phaneritic, massive, dominant in sodium and calcium rich plagioclase, biotite, and quartz, trace muscovite, chlorite, epidote, and hornblende															-736.7': 22° Planar smooth		C	100	26	
740																738.6': 74° (3) 70°-90° S. stress fractures stepped rough		C	100	17	
																From 740' to 743': Heavily healed vertical fractures					
																From 741' to 742.5': Rubble					
1835																743.6': Planar irregular					
745																From 745' to 747': (3) 38°-42°-44° J. fractures					
																From 747' to 750': Hairline healed radiating fractures		C	100	50	
1830																		C	100	50	
750																From 751' to 751.7': (3) 35°-40° Inundated rough					
																From 753.9' to 755': (3) 0°-7° Planar smooth					
1825																755.6': Rev angle wedge 59°-32° inundated slickenside, black biotite					
755																755.7': 16° Planar smooth					
																		C	100	58	
1820																From 761' to 762.9': (5) J. fractures 15°-22° inundated smooth					
760																From 764' to 765': Rubble					
																From 765' to 770': (8) 0°-10° Planar smooth					
1815																					
765																					
1810																		C	100	38	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1805																					
775																					
778	PEGMATITE DIKE																				
779																					
780																					
785																					
785.95	CORE LOSS																				
786.1																					
786.7	PEGMATITE DIKE																				
787.6																					
790																					
795																					
796	CORE LOSS																				
796.2																					
800																					
805																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
806 806.2	CORE LOSS															From 805' to 817': Rubble					
1770 810																		C	98	11	
811.5 811.6	CORE LOSS																				
1765 815																		C	100	0	
1760 820																From 817' to 820': Partial rubble		C	100	0	
1755 825																From 820' to 828': Rubble					
825.5 826.5	CORE LOSS																	C	80	0	
1750 830																829.1': 45° Planar smooth		C	100	20	
																829.7': 45° Planar smooth					
																From 830' to 833': Partially defected, partial rubble		C	100	48	
1745 834	PEGMATITE DIKE															833.8': Planar irregular					
833.835																					
1740																838.6': 17° Planar smooth		C	99	72	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1735																From 840' to 842': (3) 20° Planar smooth					
845.1	CORE LOSS															842.6': 47° Inundated rough					
1730																From 843.7' to 846': (5) 50°-60° J. fractures planar slickensides, chlorite					
850																847.1': Planar smooth		C	100	21	
1725																From 848.6' to 850': Vertical 90° S. fractures planar smooth					
855																From 850' to 865': 45°-90° stress fractured exc 855'-857'		C	100	56	
1720																		C	100	0	
860																		C	100	0	
1715																		C	100	0	
865																From 865' to 870': (13) 22°-51° Inundated smooth		C	100	0	
1710																					
870																From 870' to 874': Rubble					
871	PEGMATITE DIKE																				
872																					
1705																		C	100	16	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1700																					
880																					
1695																					
885																					
1690																					
890																					
1685																					
895	QTZ MONZONITE, light gray to white, phaneritic, massive, high in chlorite and epidote																				
1680																					
900																					
1675																					
905																					
906	PEGMATITE DIKE																				
908																					
1670																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: CruX
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
911.5	912	PEGMATITE DIKE																				
1665	915	From 917' to 925': Pyrite													From 915' to 925': Rubble, multiple fractures throughout							
1660	920															C	100	19				
921.9	922.3	CORE LOSS														C	100	0				
1655	925														From 925' to 935': Rubble, multiple fractures throughout							
1650	930															C	79	0				
930.3	930.5	CORE LOSS														C	100	0				
1645	935															C	100	0				
1640	940														From 935' to 945': Rubble, multiple fractures throughout							
1635	945	From 944' to 952.5': High chlorite														C	100	14				
																C	100	0				
															From 945' to 955':							

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1630																					
950																		C	100	27	
1625																		C	100	10	
955																		C	100	0	
959	PEGMATITE DIKE																	C	100	0	
960																					
960.3																					
961	CORE LOSS																				
961.3																					
1615																					
965																					
966.4	CORE LOSS																				
966.8	PEGMATITE DIKE																				
969	CORE LOSS																				
970	PEGMATITE DIKE																				
970.7																					
975																					
975.5	CORE LOSS																				
977.3	PEGMATITE DIKE																				
1600																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
980																					
1595																		C	100	0	
985																		C	100	0	
1590																					
990																		C	100	10	
1585																					
995																		C	100	8	
1580																					
1000	QTZ MONZONITE, light gray to white, phaneritic, massive, biotite rich																	C	100	30	
1575																					
1005																					
1570																					
1010																		C	100	25	
1013	PEGMATITE DIKE																				

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1560	1015	CORE LOSS																				
	1015.4																					
1555	1017.4	CORE LOSS																				
	1018.9																					
1550	1020																					
1545	1025																					
1540	1030																					
1535	1035																					
1530	1040	PEGMATITE DIKE																				
	1040.6	CORE LOSS																				
1525	1041																					
1520	1043																					
1515	1045																					
1510																						

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1525																					
1055																1052.8': 4° Planar smooth					
																From 1054.5' to 1054.8': (2) 49° J. fractures undulating smooth					
																From 1055' to 1056': Rubble					
																1057': Planar irregular					
1520																From 1057.8' to 1060': 90°-67° Stress J. fracture, S. fracture stepped rough		C	100	9	
1060																From 1060' to 1061.7': Rubble					
1062.8	PEGMATITE DIKE																				
1064																					
1065																1063.8': Planar smooth		C	100	61	
																From 1066.6' to 1067.4': 90° S. fracture undulating rough					
																From 1067.4' to 1069': 90° S. fracture undulating smooth					
1510																From 1070' to 1072.9': 90° S. rubble		C	98	10	
1070																					
																From 1072.9' to 1074.6': Undulating smooth large 90° healed fracture, calcite					
1072.5	CORE LOSS																				
1072.2																					
1505																					
1075																From 1075' to 1076.8': (3) 45°-50° Undulating and 19° 84° undulating rough stress fracture		C	100	0	
																From 1077' to 1081': Multiple fracturing no 4" sample 0°-80° undulating smooth					
1500																					
1080																					
																From 1082' to 1085': 80°-90° Healed (biotite) defected fracture					
																From 1083.2' to 1085': (3) 84°-90° stacked stress J. fractures stepped rough		C	100	44	
1495																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1490	1089 PEGMATITE DIKE																				
1090																					
1485																					
1095																					
1095.5 1096.1	CORE LOSS																				
1480																					
1100																					
1101 1101.3	CORE LOSS																				
1475																					
1105																					
1470																					
1110																					
1465																					
1115																					
1460																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1455																					
1125																					
1450																					
1130																					
1445																					
1135																					
1440																					
1140																					
1435																					
1145																					
1430																					
1150																					
1425																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)				Discontinuities		Sampling & In Situ Testing				
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05	0.25	0.50	2.50	5.00	B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1420																			planar smooth	C	100	30			
1160																			From 1155' to 1159': (9) 0°-12° Planar smooth						
																		From 1160' to 1161': (5) 0°-12° Planar smooth							
1415																		From 1162' to 1164': Rubble, multiple (8) 10°-15° smooth planar J. fractures	C	100	35				
1165																		1164.5': 40° Planar smooth							
																		From 1165' to 1185': Multiple angled fractures throughout							
1410																				C	95	47			
1170																									
1405																				C	100	36			
1173.3 1174.3	CORE LOSS																								
1175																									
1400																				C	100	0			
1180																									
1395																				C	100	24			
1185																									
1180	QTZ MONZONITE, dark gray, phaneritic, rich in sodium and calcium, quartz, hornblende, and amphibole, trace muscovite, chlorite, pyrite, and biotite																		1186.5': 42° Planar smooth	C	100	0			
1390																		From 1187.3' to 1189': (2) 80°-90° Undulating smooth J. stress fractures							

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1385																					
1195																					
1380																					
1200																					
1202.5	PEGMATITE DIKE																				
1375																					
1205																					
1206																					
1370																					
1210																					
1365																					
1215																					
1360																					
1220																					
1355																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1225	QTZ MONZONITE, light gray to white, phaneritic, massive																				
1350																					
1230.30	CORE LOSS																	C	98	29	
1232.9	CORE LOSS																	C	78	14	
1233.7																					
1235																					
1236	CORE LOSS																	C	85	12	
1236.5																					
1340																		C	100	0	
1240																		C	100	27	
1335																					
1245																		C	100	0	
1247.0	CORE LOSS																	C	44	0	
1250																					
1251.7																					
1325																		C	100	0	
1255																					
1320																		C	100	20	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)				Discontinuities		Sampling & In Situ Testing				
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05	0.25	0.50	2.50	5.00	B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1315'	1265	QTZ MONZONITE, light gray to white, phaneritic, massive, sodium/calcium feldspar, quartz, hornblende, biotite, trace muscovite, chlorite, epidote, pyrite																								
1310'																										
1270'																										
1305'	1275																									
1300'	1280																									
1295'	1285																									
1290'	1290																									
1285'																										

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1280																1294': Planar smooth					
1300																From 1296.25' to 1296.7': 61° Planar smooth Ca+2 mineralization		C	100	25	
1275																From 1297' to 1300': (11) 9°-31° Planar smooth J. fractures					
1305																From 1300' to 1303': (17) 9°-22° Planar smooth J. fractures					
1270																		C	100	57	
1310																1306.7': Planar smooth K feldspar healed fractures					
1265																From 1307' to 1308': (2) Planar smooth		C	100	57	
1315																From 1312.6' to 1313': (4) 13°-15° Planar smooth					
1260																From 1313.6' to 1313.9': 7°-9° Planar smooth along K feldspar infill contact					
1319	PEGMATITE DIKE															From 1315.2' to 1316': 44° Undulating smooth					
1320																From 1316' to 1317': 81° S. and (2) 27° J. fractures		C	100	34	
1255																From 1318' to 1320': Rubble					
1325																1320.3': 39° K feldspar planar smooth					
																1321': Planar irregular along calcite healed zones					
																1322': Healed Ca+2 open planar irregular					
																From 1322.1' to 1323': (3) 12° Planar irregular					
																From 1324' to 1325': 71° Biotite defected (gray-smooth) infill, multiple healed fractures					
																From 1325' to 1329': no 4" sample, 0°-19° J. fractures planar smooth		C	100	37	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1245															1331.5': Vertical healed and 37° planar smooth					
1335															1332': 0° Planar smooth		C	100	65	
															From 1333' to 1333.6': 90° S. undulating rough					
															1334.2': Ca+2 Infill, 0° planar smooth					
															1336.1': 17° Planar smooth					
1240															From 1337.4' to 1337.9': 0°-4° Planar smooth					
1340															1339.4': 12° Planar smooth		C	100	35	
															1340': 57° Planar slickenside defected biotite					
															1341.7': 27° Planar smooth					
1235															1342': Rev angle					
1345															1342.25': 22°-31° Planar smooth					
															From 1343.3' to 1343.9': 0°-17° Planar smooth Ca+2 mineralization					
1230															From 1345' to 1346.4': 81°-90° Undulating S. fracture mineralization smooth					
1350															1347.1': 41° Ca+2 Planar smooth		C	100	74	
															1347.3': Rev angle 33° Ca+2 planar smooth					
															From 1348.7' to 1349.6': 0°-2° Planar smooth					
1225															From 1351.7' to 1356.8': (13) 0°-29° Planar smooth, (3) 4" sections		C	100	49	
1355															1357.2': 17° Planar smooth					
1350	QTZ MONZONITE														1358': 69° Ca+2 planar smooth		C	100	80	
1220															1361': Planar irregular					
1360															From 1362' to 1365': (5) 30°-35° Planar smooth					
1215																	C	97	65	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

<u>SAMPLING & IN SITU TESTING LEGEND</u>					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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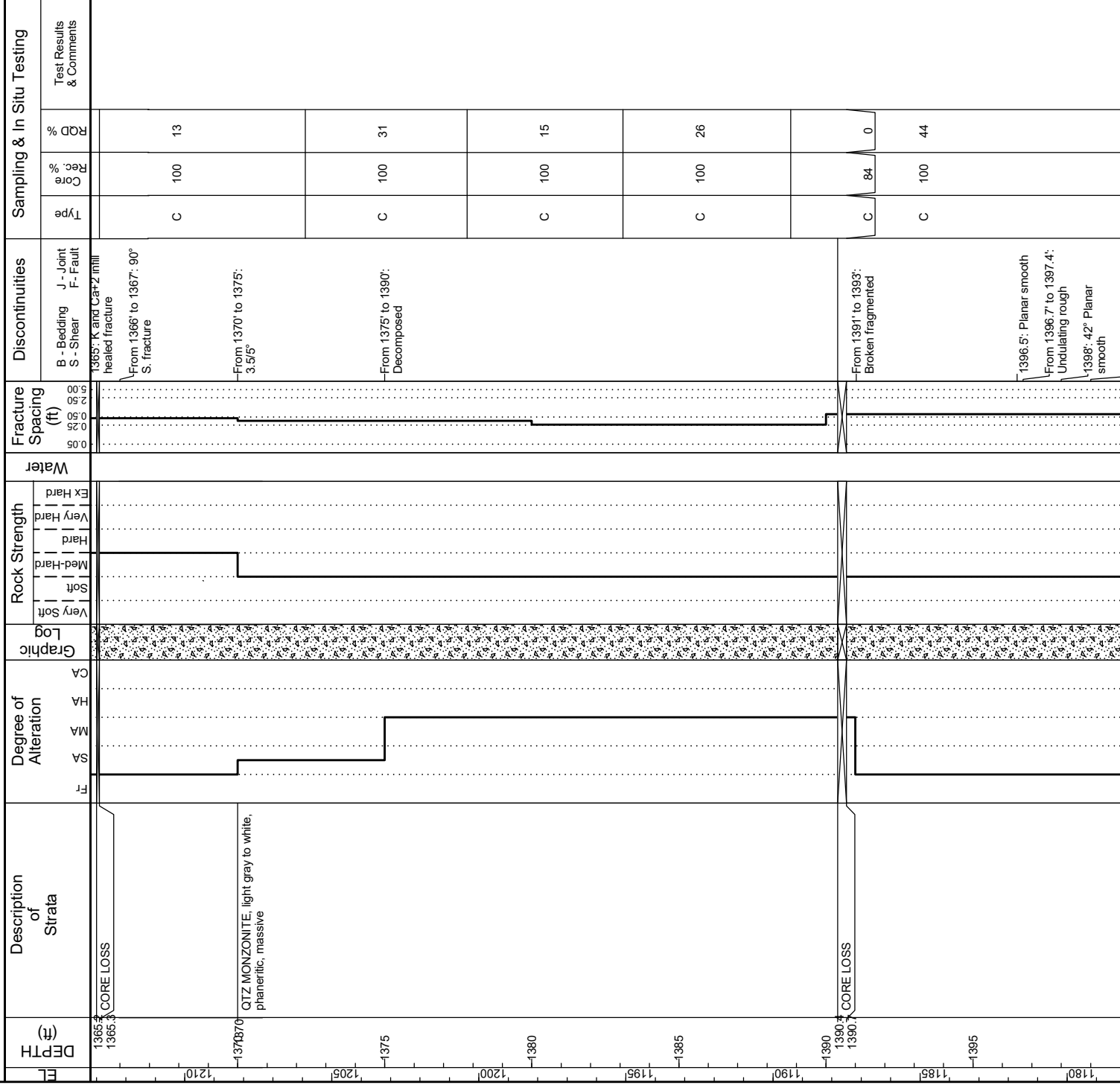


Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859
PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /



BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:
DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.
LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

Core drilling

Water seep

Water level

ITS

PL(A)

PL(D)

Indirect tensile strength (Brazilian test (psi))

Point load axial test (psi)

Point load diametral test (psi)

SLK

TRI

UCS

Strike durability test (Type)

Trial stress test (psi)

Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05 0.25 0.50 1.00 2.50 5.00	B - Bedding S - Shear J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments		
1175	QTZ MONZONITE, light gray to white, phaneritic, massive, with NaCa+ plagioclase, quartz, biotite, trace pyroxene, muscovite, and pyrite																From 1399' to 1400': 79° S. fracture planar smooth					
																		From 1401' to 1403': (5) 0°-7° Planar smooth				
1405																		1403.6': 61° Planar slickenside	C	100		49
																		1404.2': 0° Planar smooth				
																		1405.4': 38° Planar smooth				
1170																		From 1406.1' to 1406.9': 0°-9° Smooth				
1410																		1407.8': Planar smooth	C	100		36
																		From 1408' to 1411': Defected				
																		From 1412.6' to 1413.9': 90° S. fracture - rubble stepped rough				
1165																		From 1414' to 1416.2': (9) 0°-10° Planar rough				
1415																		1417.2': 39° Planar smooth	C	100		50
																		1418.4': 29° Planar smooth				
1160																		From 1419' to 1420': (3) J. fractures stocked 80°-84° planar smooth				
1420																		1420.1': 0° Planar smooth				
																		1421': 0° Planar smooth				
																		1422.9': 0° Planar smooth				
1155																		1423.9': (2) 38° J. fractures undulating smooth	C	100		77
1425																		1424': 27° Planar smooth				
																		1427.1': 35° Planar smooth				
1150																		1428.7': 29° Planar smooth	C	100		57
1430																From 1429.5' to 1429.7': 22° Planar smooth						
																1430.67': 39° Undulating smooth						
1145																1432': 12° Planar rough						
																From 1433' to 1437': 90° Undulating smooth S.						

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1140																fracture					
1440																From 1437' to 1437.9': (3) 0°-4° Planar smooth					
																From 1440' to 1441': 90° S. fracture contact with 45° planar smooth		C	100	35	
																1442': Planar smooth					
1445																From 1444' to 1445.5': (4) 31° Planar smooth rev angle					
																1446.8': Planar smooth					
1450																From 1448' to 1450': (7) 0°-21° Planar smooth, (3) 4" section		C	100	39	
																1451': 38° Planar smooth					
																From 1452' to 1453.2': (5) 30°-42° Healed fractures undulating smooth					
1455																From 1454.1' to 1455': 51°-52°-43°					
																1455.2': Planar irregular					
																1456.4': Planar irregular					
																1457.7': 45° Planar irregular					
1460																1458': 32° Planar irregular		C	100	4	
																From 1459.1' to 1459.3': Rev angle 51°-42° planar undulating smooth					
																From 1460' to 1465': (15) 0°-45° Multifracture (1) 4" section undulating planar smooth mostly along healed Ca+2 infill structures					
1465																1465.5': 42° Undulating smooth		C	100	0	
																From 1466' to 1467': (3) 86°-79° J. fractures undulating rough					
1110																1469.5': 32° Planar		C	100	55	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1105															sllickenside					
1475															1470.6': Planar irregular					
															1473.1': 27° Planar smooth					
															1473.5': 4° Planar smooth					
															1473.9': 22° Planar smooth					
															1476': (2) J. fractures stepped rough 79°-64°					
1480															1479.1': Planar smooth	C	100	45		
															1481.2': Planar smooth					
															From 1482' to 1483.7': (5) 70°-80° Planar smooth J. fractures					
1485															From 1484' to 1486': Stepped rough 81° S. fracture					
															1486.7': 62° Undulating smooth					
															From 1488.2' to 1489': (2) 38°-42° Planar smooth					
1490															1489.6': 38° Planar smooth	C	100	29		
															From 1490' to 1494': Multiple 20°-45° rev angle fractures along mineralization infill (healed fracturing) K feldspar Ca+2					
1495															From 1492.8' to 1494': 45° Vertical S.					
															1495.5': 38° Planar smooth					
															1496': 45° Planar smooth	C	100	57		
															From 1499.3' to 1499.7': (3) 40° J. fractures					
1500															1500.5': 45° Planar rough	C	100	65		
															From 1501.1' to 1501.4': (4) 77° Healed J. fractures Ca+2					
1505															1501.9': 62° Planar smooth					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1070																From 1503' to 1505': (4) 67° Undulating smooth					
1510.10																From 1505' to 1506': Rubble					
1510.2	CORE LOSS															1507.9': 28° Planar smooth		C	96	27	
																From 1509' to 1510': (6) Slip/step J. undulating smooth rough fractures					
1065																1510.85': 5° Planar smooth					
1515																From 1512' to 1513.4': (7) 9°-45° J. fractures planar smooth		C	100	55	
																1514': 20° Planar smooth					
																1514.1': 61° Planar smooth					
1060																1516.7': Undulating smooth along healed Ca+2 fracture					
1520																1517.67': 39° Planar smooth		C	100	52	
																From 1518' to 1518.9': (3) 0° Planar smooth					
																1519.2': Planar irregular					
1055																1521': 21° Undulating smooth (healed Ca+2)					
1525																1521.6': 0° Planar smooth					
																1522.4': 0° Planar smooth					
																1523.2': 0° Planar smooth					
1050																1523.9': 0° Planar smooth		C	100	52	
1530																From 1524' to 1525': (3) 61°-68° Planar smooth J. fractures					
																From 1525.4' to 1526': Rubble					
																From 1526.7' to 1526.7': 0°-19° Planar smooth					
1045																From 1527' to 1528': (3) 70°-80° Undulating smooth J. fractures					
1535																From 1529' to 1530.3': 70°-90° S. stepped rough					
																1532': 47° Planar smooth/ rough					
1040																1532.4': 17° Planar smooth healed fracture		C	100	79	UCS = 20,223
																From 1534' to 1535': Rubble, high stressed area with multiple					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1035	QTZ MONZONITE, light gray to white, phaneritic, massive, with plagioclase, biotite, and quartz, trace muscovite, chlorite, hornblende, pyroxene, and pyrite															Fractures					
1545																-1536': Planar irregular along healed section					
																-1538': Undulating smooth/ rough 0°-1°					
																-1539': 76° Planar smooth/ rough		C	100	43	
																-1541.2': 6° Undulating rough					
																-1541.48': 38° Planar smooth					
1030																From 1543.1' to 1543.35': 8° and 33° Planar smooth					
1550																-1546.5': 90° S. planar rough		C	100	0	
																-1548': 86° S. along healed fracture, undulating smooth					
																From 1550.4' to 1552': 90° S. fracture planar smooth					
1025																From 1553.5' to 1554': 81° S. planar smooth		C	100	27	
1555																-1556.2': 7° Planar smooth					
1020																-1558.3': 29° Planar smooth					
1560																From 1559' to 1560': 86° S. planar smooth		C	100	24	
																From 1560' to 1561': (2) 7°, 45° Planar smooth					
																-1562': (2) 90° S. J. undulating smooth					
1015																From 1563' to 1564': 90° S. undulating smooth		C	100	18	
1565																-1566.9': 0° Planar smooth					
																-1567': 45° Stepped rough		C	100	80	PL(A) = 985
1010																-1569': 39° Planar smooth					PL(A) = 901
1570																					
1005																		C	100	100	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1000																					
1580																1576.45': Planar smooth					
																1576.8': Planar smooth					
																1577.15': Planar smooth					
																		C	100	88	PL(A) = 331
																1580.4': Planar smooth					
																1580.55': Planar smooth					
																1580.75': Planar smooth					
																1582.45': 22° Planar smooth					
1585																					
																From 1586.55' to 1587': (2) 20°-22° Planar smooth					
																1587.4': Planar smooth					
																1588.7': 33° K feldspar healed fracture					
1590																1589.3': 30° Planar smooth					
																		C	100	88	ITS = 1,214
																1594.4': 27° Along K feldspar infill planar smooth					
1595																		C	97	69	
1596.7	CORE LOSS																				
1596.9																					
1600																1598.75': Undulating rough					
																From 1599' to 1600': (5) 0°-11° Planar smooth					
																		C	100	24	
																From 1603' to 1603.2': 29° Planar slickenside					
																From 1603.4' to 1605': (7) 70°-84° High angle S. J. fractures following healed zones, undulating smooth to rough					
1605																		C	100	14	
																From 1606.8' to 1607.2': (4) Planar rough					
																		C	100	86	UCS = 22,921
1607																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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PROJECT No: 951-20

DATE: 6/1/2023 - 7/25/2023

DIP/AZIMUTH: -90 /[illegible]

LOGGED BY: Chris Messenger

CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND

C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type —)
W	Water seep	P(A)	Point load axis test (psi)	TRT	Tripod stress test (psi)
W	Water level	P(L)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
930																					
1650																		C	100	86	
925																					
1655																					
920																					
1659.5	PEGMATITE DIKE																	C	100	62	
1660																					
1661.25																					
915																					
1665																					
910																		C	100	45	PL(A) = 670
1670																					
905																					
1675																					
900																		C	98	81	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1682.3 1682.4	CORE LOSS																				
1685																1684.6': Planar smooth		C	100	89	ITS = 1,545
1690																1688.9': 59° J. fracture/ healed fragmented					
1695																		C	100	57	
1697	QTZ MONZONITE, light gray to white, phaneritic, massive															From 1698' to 1698.5': 80° Undulating S. stress fractures, smooth		C	100	26	
1700																1700.5': 0° Planar smooth					
1705																From 1702.35' to 1705': (10) 68°-74° J. fractures, undulating rough - smooth		C	100	25	
1710																From 1704.5' to 1705': Vertical 90° J. fracture					
1715																		C	100	0	
1720																		C	100	24	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
860																					
1720																From 1716.8' to 1719': (4) 52°-61° J. planar smooth		C	100	39	
																From 1716.9' to 1719': (4) 40°-50° Planar smooth, remainder rubble					
																1720.8': Planar smooth					
																1721.8': 47° Planar rough		C	100	40	
1725																From 1722.8' to 1725': Rubble					
																1727': Stepped 59° rough					
850																		C	100	29	
1730																					
																From 1733' to 1734.5': Rubble					
845																					
1735																From 1735' to 1736': (2) 39°-44° Planar smooth					
																From 1736' to 1738': Rubble vertical S. fracturing		C	100	0	
840																From 1738.45' to 1738.65': 0° Planar smooth					
1740																1741.3': 0° Planar irregular		C	100	51	UCS = 14,001
																1741.38': 11° Planar undulating smooth					
																From 1741.9' to 1742.6': 90° Undulating rough S. fracture					
1745																From 1745' to 1749': Rubble					
830																From 1748.6' to 1750': 90° Stepped rough 90° S.		C	100	43	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1750	QTZ MONZONITE, light gray to white, phaneritic, massive, with plagioclase, quartz, biotite, and hornblende, trace muscovite and pyrite														0.05	From 1750' to 1751.75': 90° Planar smooth S. fracture					PL(A) = 1,130
825															0.25	-1752': 42° Planar smooth K feldspar					
1755															0.50	From 1753' to 1754': 90° S. planar smooth epidote/chlorite					PL(A) = 1,065
820															2.50	1760.2': Planar smooth		C	100	88	
1760															3.00	1763': Planar smooth					
815																					
1765																					PL(A) = 638
810																From 1767' to 1768': (3) 67° S. planar smooth Cl-3					
1770																1769': 0° Planar smooth		C	100	60	
805																From 1769.2' to 1769.8': 77° Planar smooth					
1775																From 1770.6' to 1771': 71° Undulating rough					
800																1771.1': 0° Planar smooth					
1780																1771.4': 32° Planar smooth					ITS = 1,309
795																1773.6': 61° Undulating smooth		C	100	49	
																From 1776.8' to 1777': 52° Planar smooth					
																From 1777' to 1778': 82° Undulating smooth					
																1778.7': Planar smooth		C	100	65	
																1782': 4° Planar smooth					ITS = 1,309
																1782.9': Planar smooth					
																1784': 0° Planar smooth					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
790																From 1785' to 1788': (6) Planar smooth					
1790																		C	100	50	
1791																					
785																					
1796																					
1795	QTZ MONZONITE, light gray to white, phaneritic, massive																	C	100	0	
780																					
1800																					
775																					
1805																					
770																					
1810																					
1811.2	CORE LOSS																				
1812.8																					
765																					
1815																					
760																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions

PROJECT: Hydrostor Zevsar

PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2

NORTHING: 2154898.691

EASTING: 6515647.859

PROJECT No: 951-20

DATE: 6/1/2023 - 7/25/2023

DIP/AZIMUTH: -90 /

DEPTH (ft)		Description of Strata	Degree of Alteration		Graphic Log	Rock Strength						Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing					
EL			Fr	SA		MA	HA	CA	Very Soft	Soft	Med-Hard			Hard	Very Hard	Ex Hard	Water	Type	Core %

BORING TYPE: HQ3

HOLE DEPTH (ft): 3045

REMARKS:

DRILLER: Crux

WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger

CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian test (psi))	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test (ksi(0) (psi))	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test (ksi(0) (psi))	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
720																					
1860																					
715																					
1865																					
710																					
1870																					
1871.7	PEGMATITE DIKE																				
1872.4																					
705																					
1875																					
700																					
1880																					
695																					
1885																					
690																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

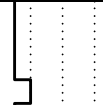
NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
685'	1892.0	PEGMATITE DIKE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

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PROJECT: Hydrostor Zevsar

PROJECT LOCATION: Rosamod, CA

NORTHING: 2154898.691

EASTING: 6515647.859

DATE: 6/1/2023 - 7/25/2023

DIP/AZIMUTH: -90 /[illegible]

BORING TYPE: HQ3

HOLE DEPTH (ft): 3045

DRILLER: Crux

WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger

CASING: HW to 70 ft..

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

Core drilling
Water seep
Water level

SAMPLING & IN SITU TESTING LEGEND	
ITS	Indirect tensile strength (Brazilian) test (psi)
PL(A)	Point load axial test 1st/50th (psi)
PL(B)	Point load diametral test 1st/50th (psi)
SLK	Slake durability test (Type 1)
TRI	Triaxial stress test (psi)
UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

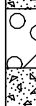
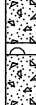
NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities	Sampling & In Situ Testing				
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05 0.25 0.50 2.50 5.00	B - Bedding S - Shear		J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
615	1964	PEGMATITE DIKE															From 1957' to 1960': K feldspar high percentage 1960': 71° 1961': 42° Rubble stepped rough 1963': 44° Planar smooth	C	100	68	SLK = Type I PL(A) = 875		
610	1965																		C	100		64	
605	1966.5																						
600	1970	PEGMATITE DIKE																From 1957' to 1960': K feldspar high percentage 1960': 71° 1961': 42° Rubble stepped rough 1963': 44° Planar smooth	C	100	64	SLK = Type I PL(A) = 643	
595	1975																						
590	1980																						
585	1981.5	PEGMATITE DIKE																From 1957' to 1960': K feldspar high percentage 1960': 71° 1961': 42° Rubble stepped rough 1963': 44° Planar smooth	C	100	29	PL(A) = 1,155	
580	1983																						
575	1985																						
570	1988.6	PEGMATITE DIKE																From 1957' to 1960': K feldspar high percentage 1960': 71° 1961': 42° Rubble stepped rough 1963': 44° Planar smooth	C	100	67	ITS = 1,433	
565	1990																						
560	1991.5																						
555	1991.8																						

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
580																		C	100	76	TRI = 37,314
2000																					
575																					
2004	PEGMATITE DIKE																				TRI = 24,460
2005																					
570																		C	100	85	UCS = 26,655 PL(A) = 1,067
2010																					SLK = Type I
565																					
2015																					ITS = 1,473
560																					
2020																					
555																					
2025																					
2027	PEGMATITE DIKE																				
2028																					
550																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test (50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test (50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
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PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
545																					IRI = 40,255
2035																					
540																					
2040																					
535																					
2045																					
530																					
2050																					
525																					
2055																					
520																					
2060																					
515																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: CruX
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
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PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
510																					UCS = 22,671
2070																		C	100	83	TRI = 37,335
505																					
2075																					
500																		C	100	93	PL(A) = 1,157
2080																					ITS = 879
495																					SLK = Type I
2085																					
490																		C	100	79	
2090																					TRI = 28,355
485																					UCS = 16,566
2095																					
480																		C	100	100	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
475																					PL(A) = 824
2105.5	PEGMATITE DIKE																				
2106.3																					
470																		C	100	100	ITS = 1,158
2110																					SLK = Type I
465	PEGMATITE DIKE																				
2113.3																					
2114																		C	100	97	
2115																					
460																					
2120																					
455																		C	100	95	TRI = 42,405
2125																					
450																					
2130																					
445																					UCS = 25,939

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
440																smooth					PL(A) = 1,421
2140																2135.5': 0° Planar smooth					
																2138.3': 11° Planar smooth					
																2139': 47° Chlorite slickenside	C	100	90		ITS = 1,618
																2139.5': 27° Planar smooth					
																2140.2': 0° Planar					
435																2141.7': Planar smooth					
2145																2143': 11° and 0° smooth					
430																					SLK = Type I
2150																		C	100	93	TRI = 24,335
																2151.2': 0° Planar					
425																					
2155																2154': 0° Planar smooth					
420																					
2160																2158': 17°-12° Planar 10° smooth					
																2159': 17° Planar smooth	C	100	77		UCS = 23,626
415																2162': 0° Planar smooth					
2165																From 2162.4' to 2163': (4) 22°-27° K feldspar fractures planar smooth					PL(A) = 937
																2165.5': 42° Planar smooth					
																2165.9': 31° Planar smooth					
410																From 2166' to 2167': 90° S. undulating rough					
																2168': 27° Planar	C	100	58		

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
																smooth				ITS = 1,545	
																2168.8': Planar smooth					
																2169.8': Planar smooth					
																2171.9': 36° Planar rough				SLK = Type I	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859DIP/AZIMUTH: -90 /[illegible]

LOGGED BY: Chris Messenger

CASING: HW to 70 ft..

SAMPLING & IN SITU TESTING LEGEND

C	Cone drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type 1)
W	Water seep	PL(A)	Point load axial test (kg/50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test (kg/50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
335																2240.2': 47° Undulating decomposed smooth					
2245																From 2245' to 2248': Defected					
330																		C	100	67	
2250																2249': 32° Planar smooth brittle					
325																2251': 42° Planar smooth					SLK = Type I
2255																2252.6': 47° Planar along chlorite infill					
320																2253.7': 42° Planar smooth					
2260																From 2256' to 2260': (7) 20°-40° along chlorite and veining planar smooth defected		C	100	56	PL(A) = 176
315																From 2261.8' to 2262.4': Stepped smooth					
2265																From 2261.9' to 2267': (19) 5°-30° Planar		C	100	53	ITS = 1,322
310																From 2267' to 2269.2': (12) 0°-14° Planar smooth					
2270																From 2269.2' to 2269.7': 69° Undulating smooth		C	100	41	
305																From 2270' to 2275': (10) 10°-35° Planar smooth					
																From 2275' to 2280':					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
300																(20) 10°-45° Undulating smooth					
2280																From 2278' to 2280': Healed 90° J. fracture planar smooth		C	100	67	PL(A) = 74
295																2281.1': 42° Planar smooth					
2285																2281.6': 16° Planar smooth					
																2283.2': 0°-4° Planar smooth					
290																From 2284' to 2284.6': Planar slickenside					
2290																From 2285' to 2290': (17) 0°-24° Planar smooth		C	100	70	SLK = Type I
285																From 2291' to 2291.2': (2) 40°-35° Planar Ca+2 smooth					
2295																2291.2': (15) 0°-15° Planar smooth					
																2296.4': Planar smooth					
280																From 2297.4' to 2297.7': 61° Planar smooth		C	100	59	TRI = 19,035 ITS = 942
2300																From 2297.7' to 2298.4': Vertical healed fracture					
																From 2298.4' to 2301': (5) 17°-37° Planar smooth					
275																					
2305																From 2306' to 2308': Diorite		C	100	0	
270																From 2306.1' to 2310': (8) 0° Planar smooth, (4) 32°-44° planar smooth		C	100	34	UCS = 1,888

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

ZEV-CH-02-23

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL		Description of Strata	Degree of Alteration Fr SA MA HA CA	Graphic Log	Rock Strength Very Soft Soft Med-Hard Hard Very Hard Ex Hard	Water	Fracture Spacing (ft) 0.05 0.25 0.50 2.50 5.00	Discontinuities B - Bedding S - Shear J - Joint F - Fault	Sampling & In Situ Testing			Test Results & Comments
DEPTH (ft)	Type								Core Rec. %	RQD %		
2315		QTZ MONZONITE					2311'-12" Planar smooth	2313.5': 42" Undulating rough 2314.2': 40" Planar smooth From 2316' to 2320': 0°-90° Rubble multifraction	C	100	24	PL(A) = 987 SLK = Type I
260'												
255'												
250'												
2325		QTZ MONZONITE					From 2325' to 2326.5': 90° S. stepped rough From 2327' to 2333': Rubble (20-30) breaks and <2"	C	100	0	ITS = 923	
245'												
240'												
235'												
2342	PEGMATITE DIKE	QTZ MONZONITE, light gray to white, plagioclase, massive, with K feldspar, biotite, hornblende, quartz, trace muscovite, pyroxene, chlorite, and pyrite					2339.1': Rev angle and Qtz feldspar intrusive 38° and 44° undulating rough 2339.4': 42" Planar smooth 2342': 2" Planar smooth 2343.6': 0°-17° Undulating smooth	C	100	28	UCS = 21,408 PL(A) = 792	
2344												



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2300																					SLK = Type I
2310																					
2320																					
2330																					
2340																					
2350																					
2351	QTZ MONZONITE																	C	100	53	
2355																					ITS = 1,088
2358																					
2360																		C	100	55	TRI = 8,838
2365																					
2370																					
2371.0	CORE LOSS																				
2372.2																					
2375																		C	100	66	PL(A) = 143
2380																					
2385																					
2390																					
2395																					
2400																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test (50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test (50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)				Discontinuities		Sampling & In Situ Testing				
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05	0.25	0.50	2.50	5.00	B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments
195'	2385	QTZ MONZONITE																							UCS = 9,099 SLK = Type I ITS = 507	
190'	2389																									
2389																										
2390																										
		PEGMATITE DIKE																							TRI = 10,855 UCS = 2,344	
185'	2395																									
180'	2400																									
2400																								PL(A) = 152		
175'	2405																									
2405																										
																									ITS = 256	
170'	2410																									
																								SLK = Type I		

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test 1s(50) (psi)
W	Water level	PL(D)	Point load diametral test 1s(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
160																					
2420																					
155																					
2425	QTZ MONZONITE, light gray to white, phaneritic, massive, with plagioclase, biotite, hornblende, and quartz, trace muscovite, chlorite, and pyrite																	C	100	11	
2427	PEGMATITE DIKE																				
150																					
2430																		C	100	0	
2431																					
145																		C	93	36	
2435																					
2436.5	CORE LOSS																				
2437																					
140																					
2440																		C	100	42	SLK = Type I UCS = 11,872 SLK = Type I
135																					
2445																					
130																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
125																Rubble					
2455																From 2450' to 2453': Multiple 90° stepped and undulating smooth					
																From 2455' to 2460': (17) 0°-28° Planar smooth					
120																From 2457' to 2458': 4" >		C	100	25	SLK = Type II
2460																					
																2461.8': 0° Planar smooth					
																2462.1': 0° Planar smooth		C	100	29	PL(A) = 155
2465																2463': Decomposed					
																2463.75': 45° Slickenside stepped					
																From 2464' to 2466': 78° Undulating smooth					
																2464.1': 0° Planar smooth					
2470																From 2466' to 2470': Rubble		C	100	0	
																From 2470' to 2472': Rubble					
																2472.9': 38° Planar smooth		C	100	24	ITS = 639
2475																From 2473.2' to 2474': (4) Undulating 60°-70° smooth J. fractures					
																From 2475' to 2478': Rubble					
																2478': 90° S. planar rough		C	100	0	
2480																2480': 69°-78° S. planar rough					
																From 2480.1' to 2484': Rubble		C	100	0	
95																From 2484.6' to 2485':					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: CruX
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
90																84° Undulating smooth					
2490																2485.8': Planar smooth					
																From 2486.9' to 2488': Rubble		C	100	26	
																2489.1': 32° Planar smooth					
																2491': (3) 67° J. fracture					
																2491.3': Planar rough					
																From 2492' to 2493.7': Rubble					
2495																From 2494' to 2496.8': (2) 35° Planar smooth		C	100	18	PL(A) = 188
																From 2496.8' to 2498': Rubble (0° Planar smooth fraction)					
2500																From 2499.1' to 2499.8': 80° Stepped rough		C	96	36	ITS = 657
																2500.2': 39° Planar smooth					
2504	PEGMATITE DIKE															From 2503.6' to 2509': Rubble					
2505																					
2506.2	CORE LOSS																				
2506.6																					
2508																					
2510																From 2510' to 2512': (3) 10°-32° Planar smooth		C	100	23	UCS = 11,075 SLK = Type I
																2512': Mostly planar 0° smooth					
																From 2515' to 2517': (6) 30°-49° Planar rough / undulating rough		C	100	13	
2515																From 2517' to 2523': Rubble defected					UCS = 1,152
60																		C	100	7	

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing				
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments	
55 -2525	QTZ MONZONITE, light gray to white, phaneritic, massive, with plagioclase, quartz, biotite, and hornblende, trace muscovite, pyrite, chlorite, and epidote																				PL(A) = 236	
50 -2530																					ITS = 12	
45 -2535																						
40 -2540																					PL(A) = 307	
35 -2545																						
30 -2550																						
25																					PL(A) = 195	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
20																					
2560	PEGMATITE DIKE																				
2561																					
15																					
2565																					
10																					
2570																					
5																					
2575																					
2577	PEGMATITE DIKE																				
2579																					
2580																					
5																					
2585																					
10																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-15																					
-2595																		C	100	0	SLK = Type I
																		C	100	0	
-2600																		C	100	0	
-2605																		C	100	12	UCS = 6,160 PL(A) = 802
-2610																		C	100	17	
-2615																		C	100	18	
-2620																					
2622	PEGMATITE DIKE																	C	100	0	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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PROJECT No: 951-20

DATE: 6/1/2023 - 7/25/2023

DIP/AZIMUTH: -90 /

[illegible]

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND

Core drilling
Water seep
Water level

SAMPLING & IN SITU TESTING LEGEND			
ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
PL(A)	Point load axial test (psi/50) (psi)	TRI	Triaxial stress test (psi)
PL(D)	Point load diametral test (psi/50) (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-85																		C	100	54	
-2665																From 2665' to 2666.8': Rubble/ defected		C	100	0	
-90																From 2670' to 2671': Rubble defected		C	100	72	UCS = 16,438 ITS = 1,245
-2670																2671.5': Planar irregular 2672.1': Planar irregular 2672.7': Planar irregular 2673': 45° Planar irregular 2674': (2) 50°-55° J. fractures 2676.2': 31°		C	100	42	PL(A) = 546 UCS = 18,210 SLK = Type II
-95																From 2676.9' to 2680': Rubble					
-2675																From 2680' to 2690': Multiple angled fractures throughout		C	100	0	
-100																		C	100	0	
-2680																		C	100	0	
-105																		C	100	0	
-2685																		C	100	0	
-110																From 2690' to 2700': Multiple angled fractures throughout		C	100	0	
-2690																		C	100	0	
-115																		C	100	0	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-120																					
-2700																		C	100	0	SLK = Type II
-125																		C	100	0	
-2705																		C	100	0	PL(A) = 691
-130																		C	90	0	
-2710																		C	100	0	
2711.3 2711.7	CORE LOSS																	C	100	0	
-135																		C	100	0	
-2715																		C	100	0	
-140																		C	100	0	
-2720																		C	100	0	
-145																		C	100	0	
-2725																		C	100	0	
-150																		C	88	12	
2728.7 2729	CORE LOSS																	C	88	12	

From 2730' to 2740':

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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DIP/AZIMUTH: -90 /

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND	
C	Core drilling
▲	Water seep
▼	Water leak
◆	Water flow
ITS	Indirect tensile strength (Brazilian) test (psi)
TR(A)	Point load axial test (50) (psi)
PL(O)	Point load diametral test (450) (psi)
TR(I)	Uniaxial stress test (psi)
UCS	Uniaxial stress test (psi)
SLK	Slake durability test (Type)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2768	CORE LOSS														From 2765' to 2765.4': 90° Undulated rough					
2767															2766.1': Planar irregular					
															2767': 22° Planar smooth					
															From 2767.2' to 2768': 24° Planar rough		C	100	0	
-2770															2768.3': (5) 30°-42° Planar smooth		C	100	35	TRI = 39,680 ITS = 1,561 TRI = 48,169 TRI = 39,974
															2771.6': 42° Planar smooth					
															2774.1': 45° Planar smooth					
-2775															From 2775.4' to 2776': (2) 57°-59° Stepped/ undulating rough					
															From 2777.2' to 2777.4': 42° and 44° smooth Ca+2					
															From 2778' to 2778.3': Rubble		C	100	38	SLK = Type I
-2780															2779': 16° Planar smooth					
															2780': Planar rough					
															2781.2': 42° Planar smooth					
															From 2785' to 2792': Rubble		C	100	48	UCS = 797
-2785															2785.6': 42° Planar smooth					
															2786.4': Altered planar rough					
															2786.9': Altered planar rough					
-2790															From 2787.7' to 2788': Rubble		C	100	31	SLK = Type II
															2793.1': 12° Undulating smooth					
2794	PEGMATITE DIKE														2793.7': 47° Planar smooth					
-2795															From 2794' to 2797': Multiple fractures, rubble		C	100	26	
															From 2797' to 2799.5': 90° Undulating stepped rough - smooth Ca+2 infill fracture healed					
-220																				

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2800																					
-225																					
-2805																					
-230																					
-2810																					
-235																					
-2815																					
-240																					
-2820																					
-245																					
-2825																					
-250																					
-2830																					
-255																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2578.2

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154898.691

DATE: 6/1/2023 - 7/25/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6515647.859

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-260																2835.2': 45° Planar smooth					
-2840																From 2836' to 2837': 90° Undulating rough		C	100	8	
																2838': Planar rough					
																From 2838.4' to 2839': Healed K feldspar fracture, hydrothermal					
																From 2840.7' to 2841': 90° Undulating rough					
																From 2841' to 2842.7': Rubble		C	100	13	UCS = 17,259
-2845	QTZ MONZONITE, light gray to white, phaneritic, massive, with Ca+2 plagioclase feldspar and qtz K feldspar biotite, trace muscovite and chlorite															2844.1': 51° Planar smooth					
																2844.2': 44° Planar rough					
																From 2844.5' to 2845': 90° Undulating rough					PL(A) = 670
-270																From 2846.2' to 2847': 90° Undulating rough		C	100	24	
-2850																					UCS = 18,864
																From 2853.65' to 2855': 90° Undulating rough					
-275																From 2855' to 2858': Rubble		C	100	0	
-2855																					
																From 2858.6' to 2859': 67° Undulating smooth / degraded biotite veining					
-280																From 2859' to 2860': Rubble					SLK = Type I
-2860																					ITS = 736
																2862.6': 69° Planar rough		C	100	37	
-285																2862.8': 71° Planar rough					
-2865																From 2863.1' to 2864': 57° Planar smooth, rubble					
																From 2864.8' to 2869.4': 30°-45° Planar rough, rubble		C	100	6	
-290																2867.8': 90° Undulating rough					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3045

WATER OBSERVATIONS: 795 ft, 826.5 ft.

CASING: HW to 70 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-295																From 2869' to 2870': Veining healed fracture deflected biotite					SLK = Type I PL(A) = 522
-2875																2871.1': 38° Planar smooth					
																From 2873' to 2873.2': (2) 0° Planar smooth		C	100	53	
-300																From 2876' to 2879': Multiple 30°-90° fractures, rubble, planar rough					PL(A) = 83
-2880																From 2879' to 2887': Rubble decomposed		C	100	0	
-305																					SLK = Type I UCS = 20,766
-2885																		C	100	0	
-310																2887.4': 26° Planar smooth					
-2890																2888.2': 42°-90° Planar smooth		C	100	59	ITS = 890
-315																From 2891.35' to 2891.72': 69°-71° Undulating rough					
-2895																From 2892' to 2894': Rev angle 77°-74°-72° healed Ca+2 90° fracturing ending at 45° planar smooth					
-320																2898': 0°-12° Planar smooth					
-2900																From 2898.4' to 2895': Rubble		C	100	44	
																From 2900' to 2902': (7) 42°-51° J. fractures planar smooth					
-325																From 2902.3' to 2905': Disc (10) 0° planar smooth					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-330																-2905.6': 42° Planar smooth					UCS = 22,134
-335																2907': 0° Planar rough		C	100	75	PL(A) = 848
-340																2907.6': 3° Planar smooth					UCS = 15,131
-345																2908': 42° Planar smooth K feldspar					ITS = 673
-350																2909.2': 41° Stepped rough					SLK = Type I
-355																2910.8': 7°-11° Planar smooth					ITS = 815
-360																2913.8': 40° Planar smooth					SLK = Type I
-365																2914.9': 79° Undulating rough		C	100	69	
-370																From 2915.5' to 2915.75': Wedge 32°-42° Planar smooth					
-375																From 2916.5' to 2917': Stepped rough 42°-42° wedge					
-380																					SLK = Type I
-385																2921': 80° Planar rough		C	100	26	
-390																From 2921.8' to 2922.6': Diabase 90° dike					
-395																From 2922.9' to 2923.9': 90° Planar smooth					
-400																From 2924' to 2928': Rubble		C	100	21	
-405																					
-410																From 2928.3' to 2930': Diabase 84° dike					
-415																From 2930' to 2932': Intrusive alteration rubble		C	100	11	
-420																2933': 39° Planar rough					PL(A) = 813
-425																2933.4': Rev angle 42° rough undulating					
-430																From 2935' to 2936.75': Stepped rough 81° and 83° J. fractures		C	100	21	
-435																From 2938.2' to 2938.5': (3) 62° J. undulating slickenside fractures					ITS = 893
-440																2939': (3) 42° Planar					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-365																smooth J. fractures					
-2945																-2943': Disc alteration 0° rough planar		C	100	29	UCS = 13,118
																-2944.9': 27° Planar smooth					PL(A) = 446
																-2945.7': 39° Planar smooth					ITS = 842
-2950																-2949': 51° Undulating rough		C	100	60	SLK = Type I
																-2952.9': 42° Planar smooth Ca+2					UCS = 19,524
-2955																-2956.9': 27° Planar smooth					SLK = Type I
																From 2957' to 2964': (40) Disc alteration planar rough		C	100	12	
-2960																From 2965' to 2966': 90° Stepped rough and 71° Planar rough					PL(A) = 432
																-2966.9': 9° Planar smooth K feldspar					
																From 2967' to 2970': Rubble		C	100	0	UCS = 9,417
-2970																-2971.1': 31° Stepped smooth K feldspar					PL(A) = 1,082
																-2972.4': 0°-7° Planar smooth		C	100	38	ITS = 1,171
																-2972.6': 0°-7° Planar smooth					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3045
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger
CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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PROJECT No: 951-20

DATE: 6/1/2023 - 7/25/2023

DIP/AZIMUTH: -90 /SLK = Type II

LOGGED BY: Chris Messenger

CASING: HW to 70 ft..

REMARKS:

ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type
PL(A)	Point load axial test (500) (psi)	TRI	Triaxial stress test (psi)
PL(D)	Point load diametral test (500) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2578.2
NORTHING: 2154898.691
EASTING: 6515647.859

PROJECT No: 951-20
DATE: 6/1/2023 - 7/25/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
-435																					
-3015																		C	100	21	UCS = 15,596 ITS = 1,031
-440																					
-3020																		C	100	33	PL(A) = 794
-445																					
-3025																		C	100	21	PL(A) = 929
-450																					
-3030																		C	100	38	UCS = 5,045
-455																					
-3035																		C	100	0	PL(A) = 915
-460																					
-3040																					
-465																					

BORING TYPE: HQ3
Bottom of borehole at 3045.0 feet.

HOLE DEPTH (ft): 3045

REMARKS:

DRILLER: Crux

WATER OBSERVATIONS: 795 ft, 826.5 ft.

LOGGED BY: Chris Messenger

CASING: HW to 70 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
0	Well Casing																				
5																					
10																					
15																					
20																					
25																					
30																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS: _____

DRILLER: CruX
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type __)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2520																					
40																					
2515																					
45																					
2510																					
50																					
2505																					
55																					
2500																					
60																					
2495																					
65																					
2490																					

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

<u>SAMPLING & IN SITU TESTING LEGEND</u>					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2485																					
75																					
2480																					
80																					
2475																					
85																					
2470																					
90																					
2465																					
95																					
2460																					
100																					
2455																					

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2450																					
110																					
2445																					
115																					
2440																					
120																					
2435																					
125																					
2430																					
130																					
2425																					
135																					
2420																					

BORING TYPE: HQ3

DRILLER: CruX

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

<u>SAMPLING & IN SITU TESTING LEGEND</u>			
	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
	Water seep	PL(A)	Point load axial test 1s(50) (psi)
	Water level	PL(D)	Point load diametral test 1s(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2380																					
180																					
2375																					
185																					
2370																					
190																					
2365																					
195																					
2360																					
200																					
2355																					
205																					
2350																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2345																					
215																					
2340																					
220																					
2335																					
225																					
2330																					
230																					
2325																					
235																					
2320																					
240																					
2315																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2310																					
250																					
2305																					
255																					
2300																					
260																					
2295																					
265																					
2290																					
270																					
2285																					
275																					
2280																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2275																					
285																					
2270																					
290																		C	100	77	
2265																					
295																					
2260																					
300																		C	100	52	
2255																					
305																					
2250																					
310																		C	100	75	
2245																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL		Description of Strata	Degree of Alteration Fr SA MA HA CA	Graphic Log	Rock Strength Very Soft Soft Med-Hard Hard Very Hard Ex Hard	Water	Fracture Spacing (ft) 0.05 0.25 0.50 2.50 5.00	Discontinuities B - Bedding S - Shear J - Joint F - Fault	Sampling & In Situ Testing			Test Results & Comments
DEPTH (ft)	Type								Core Rec. %	RQD %		
322.5 CORE LOSS 323								From 316' to 317': Rubble 317.5': 42° Planar smooth 318.25': 17° Planar 318.75': 42° Undulating smooth 320.2': Undulating smooth From 321.2' to 321.75': 32° Planar smooth From 323' to 324': Rubble	C	93	49	
325								327.1': 0° Planar smooth, 45° planar smooth 329': 22° Undulating smooth From 331' to 332.5': (3) 16°-24° Planar irregular	C	100	77	
330								334.1': 49° Planar smooth From 337' to 339': (8) 0°-4° Planar smooth				
335												
340								342': Planar irregular	C	100	77	
345								348.75': 39° Planar smooth	C	100	85	
2210												
2215												
2220												
2225												
2230												
2235												
320												
322.5 CORE LOSS 323												



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
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PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2170																					
390																					
2165																					
395																					
2160																					
400																					
2155																					
405																					
2150																					
410																					
2145																					
415																					
2140																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
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		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2135																smooth					
425																-421.75': 69° Undulating slickenside					
2130																424.1': Undulating rough					
425																425.1': 45° Planar slickenside					
430																428.75': Planar rough					
2125																429.35': 0° Planar smooth	C	100	85		
430																430.5': 0° Planar smooth					
2120																432': 31° Planar smooth					
435																435': 42° Planar smooth					
440																From 439' to 440': (4) 0°-4° Planar smooth	C	100	60		
2115																441.25': 37° Planar smooth					
445																From 441.5' to 446': (8) 0°-7° Planar smooth					
2110																448.35': 45° Undulating rough					
450																From 451' to 461': Multiple 0°-12° Planar smooth fractures throughout	C	100	65		
2105																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

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DATE: 8/5/2023 - 10/21/2023

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EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
2100																		C	100	45	
460																		C	100	24	
2095																					
465																		C	100	22	
2090																					
470																		C	100	33	
2085																					
475																		C	100	22	
2080																					
480																					
2075																					
485																		C	100	48	
2070																					
																		C	100	37	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

ZEV-CH-03-23

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL		Description of Strata	Degree of Alteration Fr SA MA HA CA	Graphic Log	Rock Strength Very Soft Soft Med-Hard Hard Very Hard Ex Hard	Water	Fracture Spacing (ft) 0.05 0.25 0.50 2.50 5.00	Discontinuities B - Bedding S - Shear J - Joint F - Fault	Sampling & In Situ Testing			Test Results & Comments	
DEPTH (ft)	Type								Core Rec. %	RQD %			
495	CORE LOSS							B - Bedding S - Shear J - Joint F - Fault		C	71	8	
496										C	100	24	
497									C	100	50		
500													
505													
510													
515													
520									C	100	32		
524													
524													

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
DRILLER: CruX
WATER OBSERVATIONS: 711 ft.
LOGGED BY: Chris Messenger
CASING: HW to 171 ft.
REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
P(LA)	Point load axial test (lbf/psi)	TRJ	Triaxial stress test (psi)
P(LO)	Point load diametral test (lbf/psi)	UCS	Uniaxial stress test (psi)
C	Core drilling		
W	Water seep		
W	Water level		

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type ___)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /[illegible]

BORING TYPE: HQ3

DRILLER: Cruix

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
	Water seep	SLK	Slake durability test (Type _____)
	Water level	PL(A)	Point load axial test (s/50) (psi)
		PL(D)	Point load diametral test (s/50) (psi)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

ZEV-CH-03-23

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration Fr SA MA HA CA	Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing			
				Very Soft	Soft	Med-Hard	Hard	Very Hard				Type	Core Rec. %	RQD %	Test Results & Comments
1925										0.05					
1920										0.25					
1915										0.50					
1910										2.50					
645										5.00					
640															
635															
632															
630															
625															
620															
615															
610															
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45															
40															
35															
30															
25															
20															
15															
10															
5															
0															

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7

DRILLER: CruX
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

REMARKS:

C

Core drilling

W

Water seep

W

Water level

ITS

Indirect tensile strength (Brazilian) test (psi)

P(LA)

Point load axial test (psi)

P(LO)

Point load diametral test (psi)

TR

Triaxial stress test (psi)

UCS

Uniaxial stress test (psi)

SLK

Slake durability test (Type)

TR

Triaxial stress test (psi)

UCS

Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1890 666.9 667	CORE LOSS															664.78': 0° Planar rough					
																665.2': 0° Planar smooth					
670																From 666' to 667': (2) 0°-12° Planar smooth		C	100	51	
1885 675																From 671' to 675': (9) 0°-21° Planar smooth					
680																From 679.7' to 680.1': (3) 12° Planar smooth		C	100	74	
1880 685																From 681.2' to 681.7': (3) 27°-38° Undulating smooth					
																683': 40° Planar smooth					
																684': 30° Planar smooth					
																685.6': 39° Planar smooth					
1875 690																		C	100	84	
1870 695																692.3': 21° Planar rough					
1865 695																					
1860																		C	100	87	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1855'																					
705																					
1850'																					
710																					
1845'																					
715																					
1840'																					
720																					
1835'																					
725																					
1830'																					
730																					
1825'																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1820																					
740																		C	100	77	
1815																					
745																		C	100	86	
1810																					
750																		C	100	90	
1805																					
755																					
1800																					
760																		C	100	73	
1795																					
765																					
1790																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1785																770.1': 17° Planar smooth					
																771.75': 45° Undulating smooth					
775																773': 0°-39° Wedge planar smooth					
																773.9': 14° Planar smooth					
1780																776.45': 45° Planar smooth					
																779.7': 2° Planar smooth	C	100	86		
780																782': 11° Planar smooth					
																785.7': 17° Planar smooth					
785																786.4': 27° Planar smooth					
																789.4': 42°-17° Rough, 42° smooth	C	100	88		
790																795': (2) 32°-41° Planar smooth					
																797.42': 31° Planar smooth					
795																798.9': 41° Planar smooth					
																799.4': 32° Planar smooth	C	100	86		
800																801.3': 30° Undulating smooth along vein					
																802.9': 7° Stepped rough					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1750																					
810																		C	100	76	
1745																					
815																					
1740																					
820																		C	100	79	
1735																					
825																					
1730																					
830																		C	100	88	
1725																					
835																					
1720																		C	100	83	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1715																840.2': 21° Planar smooth veins					
845																845.1': 43° Planar smooth					
1710																					
850																849': 21° Planar smooth veins		C	100	82	
1705																From 851' to 852': (2) 28° Planar smooth					
855																From 853.9' to 857.9': Stepped/undulating smooth					
1700																					
860																858.6': 21° Planar smooth		C	100	74	
861	QTZ MONZONITE, light gray to white, phaneritic, massive, rich in plagioclase and K feldspar, quartz, and biotite, trace muscovite and chlorite															859.9': Planar smooth					
1695																860.4': 32° Planar smooth					
865																861.2': Planar					
1690																863.3': Planar					
870																864.8': Planar					
1685																867.9': 25° S.					
																868.2': Planar		C	100	59	
																869': S.					
																870.9': 45° S.					
																872.7': Planar					
																873': Planar					
																874': J.					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)				Discontinuities		Sampling & In Situ Testing			
								Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard						B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
		Fr	SA	MA	HA	CA	Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard	0.05	0.25	0.50	2.50	5.00							
1680'																	876': 60° S.							
880																	878.2': Planar 878.5': 55° S. 879.2': Planar 880.3': 35° S. 881': 45° S. 882': Planar 883': 25° S. 884.3': 35° S.	C	100	67				
1675'																	885.7': 30° S. 886.5': 65° S.							
885																								
1670'																								
890																	From 889.3' to 889.6': Planar	C	100	88				
1665'																	891.7': Planar							
895																	893.9': 30° S.							
1660'																	896': Planar							
900																								
1655'																	900.4': 35° S. 900.9': Planar 901.2': 45° S. 901.6': 25° S. 901.9': 30° S.	C	100	79				
904.3	CORE LOSS																903.3': 25° S.							
905																								
906.2																								
1650'																	907.4': Planar 908.6': 20° S.	C	81	36				

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

<u>SAMPLING & IN SITU TESTING LEGEND</u>			
	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
	Water seep	PL(A)	Point load axial test 1s(50) (psi)
	Water level	PL(D)	Point load diametral test 1s(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



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PROJECT: Hydrostor Zevsar

PROJECT LOCATION: Rosamod, CA

NORTHING: 2154809.152

EASTING: 6514431.756

DATE: 8/5/2023 - 10/21/2023

DIP/AZIMUTH: -90 /

EL		Description of Strata	Degree of Alteration Fr SA MA HA CA	Graphic Log	Rock Strength Very Soft Soft Med-Hard Hard Very Hard Ex Hard	Water	Fracture Spacing (ft) 0.05 0.25 0.50 2.50 5.00	Discontinuities B - Bedding S - Shear J - Joint F - Fault	Sampling & In Situ Testing			
DEPTH (ft)									Type	Core Rec. %	RQD %	Test Results & Comments
915		CORE LOSS					C	100	81	62		
920												
925												
930												
935												
940												
945												
950												
955												
960												
965												
970												
975												
980												
985												
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2220												
2225												
2230												
2235												
2240												
2245												
2250												
2255												
2260												
2265												
2270												
2275												
2280												
2285												
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DRILLER: Cruz

LOGGED BY: Chris Messenger

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

C Core drilling
W Water seep
T Water level

SAMPLING & IN SITU TESTING LEGEND	
ITS	Indirect tensile strength (Brazilian) test (psi)
PL(A)	Point load axial test (1s/50) (psi)
PL(D)	Point load diametral test (1s/50) (psi)
SLK	Slake durability test (Type 1)
TRI	Triaxial stress test (psi)
UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing							
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments				
1610															0.05	0.25	0.50	2.50	5.00	From 943' to 944': J.					
																					944.9': Planar				
																					945.5': 75° S.				
																					945.9': Planar				
950																					946.6': 40° S.	C	100		50
																					946.8': 50° S.				
																					947': 40° S.				
																					947.7': 45° S.				
																					948': 50° S.				
																					948.6': 35° S.				
955																					950': Planar				
																					From 952' to 953.5': J.				
																					953.6': 25° S.				
																					955.4': 40° S.				
																					957': Planar				
960																					957.6': Planar	C	100		63
																					957.9': 45° S.				
																					959.5': Planar				
																			962': Planar						
																			962.9': 48° S.						
965																			963.2': 28° S.						
																			964': 55° S.						
																			966': 65° S.						
970																			From 966.1' to 971': Fractured throughout	C	100	7			
971	PEGMATITE DIKE																			971.2': 20° S.					
972																									
																			973.3': 30° S.	C	100	71			
																			973.5': 55° S.						
975																			From 974.2' to 974.9': Multiple planar S. at 40°-40°-30°-45°						
																			975.9': 60° S.						
																			976': 45° S.						
																			977.7': 43° S.						
																			978.6': Planar	C	100	79			

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ☐)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL	DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing							
			Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard				B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments		
1575	985		Fr													0.05	0.25	0.50	2.50	5.00	980.2': 40° S.				
																					981.25': 42° Stepped slickenside				
																					982.9': 11° Planar smooth				
																					984': 90°-71° Stepped rough				
																					985': 36° Planar smooth				
1570																					986.1': Wedge rev angle 39°-46° planar slickenside				
	990																				987.9': 17° Stepped rough	C	100	78	
1565																					From 990' to 991': 90° S. planar smooth				
	995																				993.65': 16° Planar smooth				
1560																					995.62': 3° Planar smooth				
	1000																				C	100	60		
1555																									
	1005																								
1550																					C	100	60		
	1010																								
1545																									
																					1013.75': 45° Planar smooth				

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1540																1014.7': 12° Planar smooth					
1020																		C	100	84	
1535																					
1025																					
1530																					
1030																					
1525																					
1035																					
1520																					
1040																					
1041	QTZ MONZONITE, light gray to white, phaneritic, massive																				
1515																					
1045																					
1510																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1505																					
1055																					
1500																					
1060	QTZ MONZONITE, light gray, phaneritic, massive																	C	100	58	
1495																					
1065																		C	100	65	
1490																					
1070																					
1485																					
1075																		C	100	28	
1480																					
1080																					
1475																					
1083	PEGMATITE DIKE																	C	100	74	

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

DEPTH (ft) EL	Description of Strata	Degree of Alteration	Graphic Log	Rock Strength					Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing		
				Very Soft	Soft	Med-Hard	Hard	Very Hard			Type	Core Rec. %	ROD %
1086	QTZ MONZONITE, light gray to white, phaneritic, massive	Fr							0.05	-1061.8': 45° Undulating rough -1062.3': 45° Planar rough -1062.5': Undulating rough From 1063.5' to 1073': Multiple fractures -1074.2': 35° Planar smooth 1075': Planar smooth 1075.4': Planar smooth 1075.7': Planar smooth -1077': 45° Undulating rough -1077.3': 18° Undulating rough -1077.6': 45° Planar smooth -1077.8': 45° Undulating rough -1077.9': 45° Undulating rough -1078': 55° Planar smooth -1080.4': 40° Planar smooth 1082': 50° Planar rough	C	100	73
1090									0.25				
1095									0.50				
1096									0.60				
1097	PEGMATITE DIKE								0.80	1085': Planar undulating -1087.2': 73° Undulating rough 1088': Planar rough 1089': Planar rough -1090': 55° Stepped slickenside 1090.9': Planar rough -1092': 35° Planar smooth 1094': Planar smooth From 1094.5' to 1095': J. -1095.2': 50° Undulating rough -1095.7': 25° Planar rough From 1095.9' to 1097': Multiple J. -1097.3': Undulating planar -1097.5': 45° Planar	C	100	78
1100									1.20				
1105									2.50				
1110									5.00				
1115	PEGMATITE DIKE										C	100	91
1117													
1119	PEGMATITE DIKE												

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

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Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

DEPTH (ft) EL	Description of Strata	Degree of Alteration	Graphic Log	Rock Strength					Fracture Spacing (ft)	Discontinuities	Sampling & In Situ Testing		
				Very Soft	Soft	Med-Hard	Hard	Very Hard			Type	Core % Rec.	ROD %
121		Fr	○						0.05	smooth			
135		CA	○						2.50	-1098.9': 35° Planar undulating			
124	PEGMATITE DIKE	HA	○						0.50	1099.4': J.	C	100	94
125		MA	○						0.50	-1100.2': Planar undulating			
130		SA	○						0.50	-1103.2': 30° Planar undulating			
135		Fr	○						0.50	-1107': 35° Planar smooth			
140		Fr	○						0.50	-1109.6': 50° Planar smooth			
145		Fr	○						0.50	From 1112' to 1113': Multiple J.			
150		Fr	○						0.50	-1121': 30° Planar smooth	C	100	72
155		Fr	○						0.50	-1121.8': Planar rough			
160		Fr	○						0.50	-1124': 55° Planar rough			
165		Fr	○						0.50	-1125.7': 30° Planar undulating			
170		Fr	○						0.50	-1126': Planar smooth			
175		Fr	○						0.50	-1128.6': 50° Planar smooth			
180		Fr	○						0.50	-1129.5': 35° Planar smooth			
185		Fr	○						0.50	-1130': 35° Planar smooth			
190		Fr	○						0.50	-1130.8': 25° Planar smooth	C	100	83
195		Fr	○						0.50	-1131.7': 45° Undulating rough			
200		Fr	○						0.50	-1132': 25° Planar smooth			
205		Fr	○						0.50	-1132.9': 45° Undulating rough			
210		Fr	○						0.50	-1134.3': 25° Stepped rough			
215		Fr	○						0.50	-1136': Planar rough			
220		Fr	○						0.50	From 1136.1' to 1137': Multiple fractures			
225		Fr	○						0.50	-1140.5': 35° Planar smooth			
230		Fr	○						0.50	-1141': 45° Undulating rough			
235		Fr	○						0.50	-1144.2': 20° Planar rough	C	100	80
240		Fr	○						0.50	-1145': Planar rough			
245		Fr	○						0.50	-1145.5': 45° Planar rough			
250		Fr	○						0.50	-1145.9': Planar rough			
255		Fr	○						0.50	-1148.8': 60° Undulating			

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian test (psi))	SLK	Shake durability test (Type ☐)
W	Water seep	PL(A)	Point load axial test (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1400																					
1160																					
1395																					
1165																					
1390																					
1170																					
1385																					
1175																					
1170	QTZ MONZONITE, light gray to white, phaneritic, massive																				
1380																					
1180																					
1375																					
1185																					
1370																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing				
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard			Ex Hard	B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1192	PEGMATITE DIKE																				
1195.95																					
1198.1																					
1200																					
1203.4																					
1205																					
1208.1																					
1208.2																					
1209.9																					
1210.7																					
1211.8																					
1212.9																					
1214.5																					
1215.7																					
1216																					
1220																					
1221																					
1223																					
1225																					
1227																					
1229																					
1231																					
1233																					
1235																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1330																		C	100	19	
1230																1230.2': 41° Undulating rough					
1325																1231.9': 10° Irregular					
1235																From 1233' to 1234.5': 84° Undulating rough					
1320																From 1236.2' to 1236.5': (2) 42° J. planar smooth		C	100	43	
1240																From 1237' to 1238.3': 90° Stepped rough					
1245																1239': 57° Planar smooth					
1315																From 1241' to 1246': 90°-70° Undulating stepped smooth rubble					
1250																1248': 48° Undulating smooth		C	100	51	
1310																1249.3': 2° Planar smooth					
1255																1250': (2) 45°-47° Planar smooth					
1305																1253.75': 45° Undulating smooth		C	60	33	
1255																1255': 38° Planar smooth					
1300																From 1256' to 1262': Rubble					
1258	CORE LOSS																				

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1295	1262																				
1265																					
1290																					
1270																					
1285																					
1275																					
1280																					
1280																					
1275																					
1285																					
1270																					
1290																					
1265																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1225																1328.4': 39° Planar smooth		C	100	34	
1335																1330.4': 45° Planar smooth					
1338	PEGMATITE DIKE															From 1333.9' to 1335': (2) 0°-4° Planar rough					
1340																1335': 90° Undulating rough		C	100	48	
1343																1342': 69° Undulating rough		C	100	33	
1345																1342.75': 74° Undulating rough					
1345.75	PEGMATITE DIKE															1343.8': 90° Vertical fracture					
1347																1345.8': Irregular					
1350																From 1346.5' to 1347': Rubble		C	100	86	
1355																1348.3': 21° Undulating smooth					
1360																1351.3': 39° Planar smooth					
1360	QTZ MONZONITE, light gray, phaneritic, massive															From 1353.7' to 1354': 50° Planar smooth					
																1357.8': 45° Planar smooth		C	100	38	
																1359.3': Planar smooth					
																1360.7': 82° S.					
																From 1361' to 1361.9': Multiple breaks, J.					
																From 1362' to 1364.7': Multiple breaks					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ☐)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1190																					
1370																					
1185																					
1375																					
1180																					
1380																					
1175																					
1385																					
1170																					
1390																					
1165																					
1395																					
1160																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS: _____

DRILLER: Cruz
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)

CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

[illegible]

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)
		SLK	Slake durability test (Type _____)
		TRI	Triaxial stress test (psi)
		UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1120																smooth					
1439.4																1436.3': Planar rough					
1440	CORE LOSS															1436.9': 30° Planar rough					
1440.4																From 1437' to 1439.4': Rubble		C	71	0	
1115																1442': Undulating rough		C	100	79	
1445																1444.7': J.					
																1445.3': 40° Planar smooth					
1110																From 1446' to 1447': Decomposed					
1450																1447.7': J.					
																1448.6': 40° Undulating rough		C	100	54	
1105																1449.2': 25° Undulating rough					
1455																From 1449.7' to 1450': Rubble					
																1451.8': Planar rough					
1455																1453.4': 30° Planar smooth					
1100																1454.6': 35° Planar smooth					
1460																From 1456' to 1461': Highly fractured, decomposed		C	100	0	
																From 1461' to 1462.5': Rubble		C	85	0	
1095	CORE LOSS															From 1463' to 1471.6': Multiple fractures		C	100	0	
1463																					
1465																		C	100	0	
1090																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

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Agapito Associates, Inc.
ENGINEERS & GEOLOGISTS

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CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

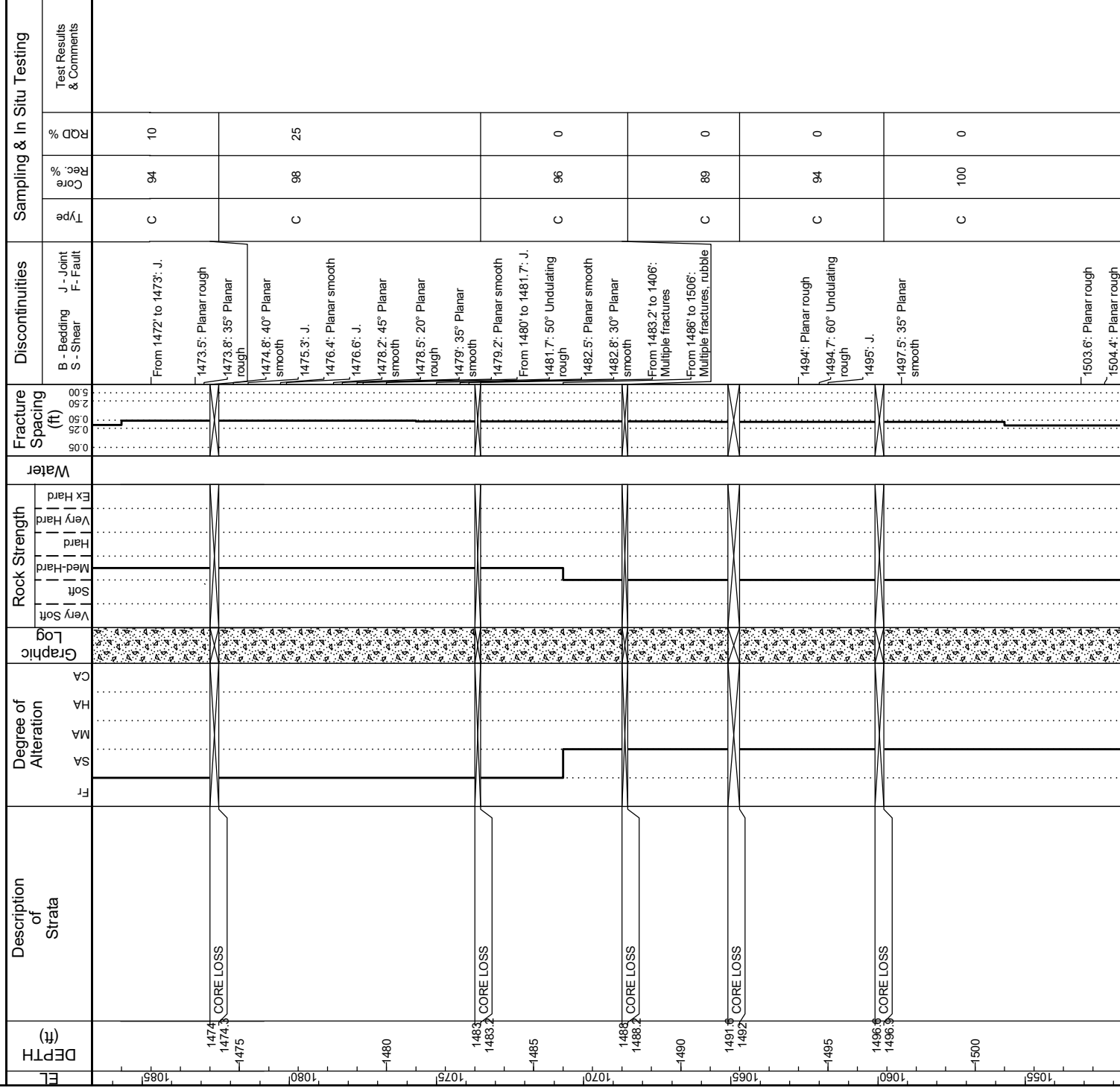
NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /



BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian test (psi))	SLK	Slake durability test (Type)
W	Water seep	PL(A)	Point load axial test (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)		Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		0.05 0.25 0.50 2.50 5.00	B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %	Test Results & Comments	
1506	QTZ MONZONITE, light gray to white, phaneritic, massive, with plagioclase and K feldspar, quartz, and biotite																					
1050																						
1510																						
1045																						
1515																						
1040																						
1520																						
1035																						
1525																						
1030																						
1530																						
1025																						
1535																						
1020																						

PL(A) = 104

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec.	RQD %	Test Results & Comments
1015	QTZ MONZONITE, light gray to white, phaneritic, massive, with Na-Ca-K rich feldspar, quartz, and biotite, trace muscovite, pyrite, and chlorite																				
1545																					
1010																					
1550																					
1551																					
1005																					
1555																					
1000																					
1560																					
995																					
1565																					
990																					
1570																					
985																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
980'																From 1575' to 1578': (5) 20°-38° Planar smooth					PL(A) = 1,288
1580																-1578': 27° Undulating smooth		C	100	49	
975'																From 1578.1' to 1581': (5) 35°-45° Planar smooth		C	100	30	
1585																-1582': 42° Planar smooth, rubble					
970'																1584.1': 31°		C	100	73	
1590																-1587': 38° Planar smooth					
965'																-1588': 61° Stepped smooth					
																-1588.9': 52° Undulating rough		C	100	49	UCS = 24,992
																-1589.9': 7° Planar smooth					
1595																From 1591' to 1594': (5) 27°-42° Planar smooth					
960'																From 1594.1' to 1596': Rubble		C	100	37	
1600																From 1596.1' to 1598.75': (8) 17° Planar smooth					PL(A) = 824
955'																-1600': 38° Planar smooth					
1605																-1602': 42° Undulating					
950'																-1603.1': 32° Planar smooth					
																From 1604.6' to 1605': (2) 41° Planar smooth		C	100	46	
																From 1609' to 1611': 90° Vertical planar rough					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
945																					
1615																					
940																					
1620																					
935																					
1625																					
930																					
1630																					
925																					
1635																					
920																					
1640																					
915																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
910																					
1650																					
905																					
1654	QTZ MONZONITE, light gray to white to pink, phaneritic, massive																				
1655																					
900																					
1660																					
895																					
1665																					
890																					
1670																					
885																					
1675																					
880																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
875																		C	100	49	PL(A) = 1,282 PL(A) = 717
1685																					
870																		C	100	30	
1690																					
865																		C	100	55	
1695																					PL(A) = 1,282 PL(A) = 717
860																					
1700																		C	100	58	
855																					PL(A) = 1,282 PL(A) = 717
1705																					
850																					
1710																		C	100	30	PL(A) = 1,282 PL(A) = 717
845																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities B - Bedding S - Shear J - Joint F - Fault	Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard				Type	Core Rec. %	RQD %	Test Results & Comments
840																				
1720																				
835																				
1725																				
830																				
1730																				
825																				
1735																				
820																				
1740																				
815																				
1745																				
810																				

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
805																		C	100	17	
1755																					
800																		C	100	0	
1760																		C	100	0	
795																					
1765																					
790																					
1770																		C	100	0	
785																					
1775																		C	100	0	
780																		C	100	37	PL(A) = 900
1780																					
775																					
1784	CORE LOSS																	C	77	0	

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
L	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength					Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard		B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
1785															From 1776.5' to 1777': Multiple fractures					
770															1777.6': 10° Undulating smooth					
															1778': 30° Planar rough					
															1778.2': 25° Planar rough		C	100	0	
1790															1779.2': Planar rough		C	100	0	
765															1779.4': 45° Planar smooth					
															From 1781.6' to 1784.9': Rubble					
1793.5	CORE LOSS														From 1785.9' to 1786.6': Rubble					
1795															1787': J.		C	20	100	
760															1787.6': 25° Planar smooth					
															1787.7': 30° Planar smooth					
1799	QTZ MONZONITE, light gray to white, massive														From 1787.8' to 1788.2': Multiple breaks					
1800															1788.2': 35° Planar rough		C	0	100	
755															From 1788.4' to 1785': Rubble		C	100	0	
															1789.3': 50° Planar rough					
															1789.9': 40° Planar rough		C	100	50	
1805															From 1791' to 1792.6': Rubble, multiple fractures		C	100	0	
750															1792.9': 60° Planar rough		C	100	0	
															From 1793.7' to 1794': J.					
															1794.5': 50° Undulating rough		C	100	0	
1810															From 1795' to 1795.6': Multiple breaks					
745															1795.9': 60° Planar rough		C	100	41	
															From 1796' to 1797': Multiple breaks, (1) at 53°					
															From 1797' to 1799': Rubble					
1815															From 1799' to 1799.7': Decomposed					
740															From 1799.8' to 1802': Rubble, multiple fractures		C	100	8	
															1803': 60° Planar rough					
															1803.2': J.					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
735																					
1825																					
730																					
1830																					
725																					
1835																					
720																					
1840																					
715																					
1845																					
710																					
1850																					
705																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
700																					
1860																					
695																					
1865																					
690																					
1870																					
685																					
1873	CORE LOSS																				
1873																					
1875																					
680																					
1880																					
1881	QTZ MONZONITE, light gray to white, massive, with plagioclase, K feldspar, quartz, and biotite, trace chlorite, pyrite, and muscovite																				
675																					
1885																					
1886																					
670																					

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type _____)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
665																					
1896.95																					
660																					
1900																					
655																					
1905																					
650																					
1910																					
645																					
1915																					
640																					
1920																					
635																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
630'	QTZ MONZONITE, light gray to white to pink, phaneritic, massive															Undulating rough, rubble					
																1926': 79° Planar rough					
																1927': 82° Planar smooth		C	100	17	
																From 1927.6' to 1931': (5) 70°-80° Short planar rough J.					
1930																		C	100	39	
625'																From 1932.4' to 1933': (2) 51°-63° Planar smooth		C	100	74	
																1933.1': 17° Planar rough					
1935																1934.1': 0° Planar rough					
620'																From 1935' to 1936': (2) 80°-90° Planar smooth					
																From 1937.3' to 1938.2': 71° K infilled smooth		C	100	42	
1940																From 1941' to 1956': Rubble					
1941																		C	100	20	
1945																					
610'																		C	100	22	
1950																					
605'																1957.9': 45° Planar smooth		C	100	30	
1955																From 1958' to 1963': Multidirectional					
600'																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS: _____

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
595	QTZ MONZONITE, light gray to white, phaneritic, massive, with Ca-Na-K rich feldspar, biotite, and quartz, trace pyrite, chlorite, and muscovite															fractures, rubble					
1965																		C	100	9	
590																		C	100	45	
1965																					
590																					
1970																					
1971																					
585																					
1975																					
580																					
1980																					
575																					
1985																					
570																					
1990																					
565																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing				Test Results & Comments	
								Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F- Fault	Type	Core Rec. %	RQD %			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			0.05	0.25	0.50	1.00	2.50	5.00		
560'																		1994.6': 44° Planar smooth					
																		1996.3': 45° Planar rough	C	100	93		
																		1997.2': 61° Planar rough					
																		1998.78': 52° Planar smooth	C	100	25		
2000																		From 1999.6' to 2011': Rubble					
555'																							
																			C	100	25		
2004.9 2005.3	CORE LOSS																		C	81	0		
550'																							
2006.9 2007.4	CORE LOSS																		C	76	0		
																			C	100	9		
2010																							
545'																							
																			C	100	0		
																			C	100	31		
2015																							
540'																							
2020																							
535'																							
2025																			C	100	0		
530'																							

UCS = 20,362
ITS = 1,028
PL(A) = 1,034
SLK = Type I

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions

SURFACE ELEVATION (ft): 2556.7

PROJECT No: 951-20

PROJECT: Hydrostor Zevsar

NORTHING: 2154809.152

DATE: 8/5/2023 - 10/21/2023

PROJECT LOCATION: Rosamod, CA

EASTING: 6514431.756

DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
525'																		C	100	0	
																		C	100	71	
2035																		C	100	0	
520'																					
2040																		C	100	0	
515'	QTZ MONZONITE, light gray to white to pink to green, phaneritic																	C	100	38	
2045																					
510'																		C	100	0	
2050																		C	100	0	
505'																					
2055																		C	100	0	
500'																		C	100	0	
2060																		C	100	0	
495'																		C	100	42	

From 2040' to 2061':
Rubble

2062': 67° Undulating
smooth

BORING TYPE: HQ3

DRILLER: Crux

LOGGED BY: Chris Messenger

HOLE DEPTH (ft): 3014.7

WATER OBSERVATIONS: 711 ft.

CASING: HW to 171 ft.

REMARKS: _____

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type <u> </u>)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
WL	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)

(Continued Next Page)



CLIENT: Lane Power & Energy Solutions
PROJECT: Hydrostor Zevsar
PROJECT LOCATION: Rosamod, CA

SURFACE ELEVATION (ft): 2556.7
NORTHING: 2154809.152
EASTING: 6514431.756

PROJECT No: 951-20
DATE: 8/5/2023 - 10/21/2023
DIP/AZIMUTH: -90 /

EL DEPTH (ft)	Description of Strata	Degree of Alteration					Graphic Log	Rock Strength						Water	Fracture Spacing (ft)	Discontinuities		Sampling & In Situ Testing			
		Fr	SA	MA	HA	CA		Very Soft	Soft	Med-Hard	Hard	Very Hard	Ex Hard			B - Bedding S - Shear	J - Joint F - Fault	Type	Core Rec. %	RQD %	Test Results & Comments
490																					
2070																					
2070.7	CORE LOSS																				
2071.2																					
485																					
2075																					
480																					
2080																					
475																					
2085																					
470																					
2090																					
465																					
2095																					
460																					

BORING TYPE: HQ3
HOLE DEPTH (ft): 3014.7
REMARKS:

DRILLER: Crux
WATER OBSERVATIONS: 711 ft.

LOGGED BY: Chris Messenger
CASING: HW to 171 ft.

SAMPLING & IN SITU TESTING LEGEND					
C	Core drilling	ITS	Indirect tensile strength (Brazilian) test (psi)	SLK	Slake durability test (Type ___)
W	Water seep	PL(A)	Point load axial test Is(50) (psi)	TRI	Triaxial stress test (psi)
W	Water level	PL(D)	Point load diametral test Is(50) (psi)	UCS	Uniaxial stress test (psi)