



Q&D CONSTRUCTION

est. 1964

January 31, 2023

Aggregate Submittal
Recycled Sand
Q&D – Mustang Recycle Yard
12005 I-80 E, Sparks NV 89434

Project Name:

Q&D is pleased to provide our AASHTO accredited laboratory test results for Recycled Sand. The material was tested using the applicable test methods cited on the Submittal Document. The material meets all SSPWC specifications listed on the Submittal Document.

We trust this is the information you require at this time. If you have any questions, please do not hesitate to contact me at (775) 342-6000.

Sincerely,

Norm Davis
Quality Control Manager

SERVICE. INTEGRITY. QUALITY.

P.O. Box 10865, Reno, Nevada 89510 | Main Office: 775.786.2677 | Fax: 775.786.5136
www.qdconstruction.com | NCL: 8197 A & B



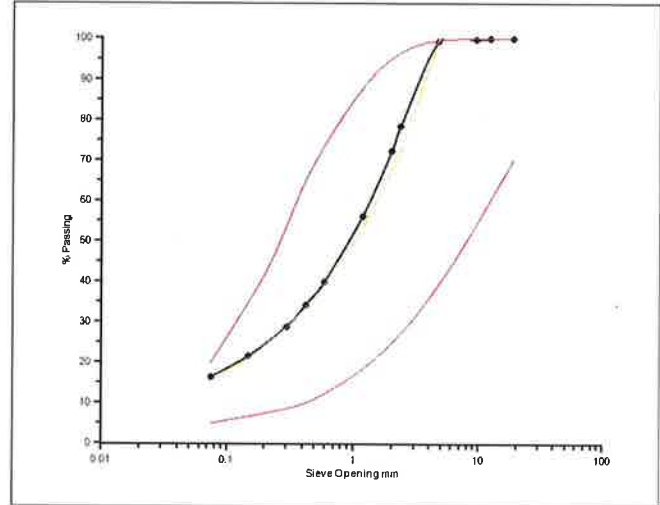
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Compliance Summary

Product Information

Plant Id 42
 Plant Name Q & D Mustang Yard
 Product Id 3
 Product Name Sand
 Specification Structural Fill

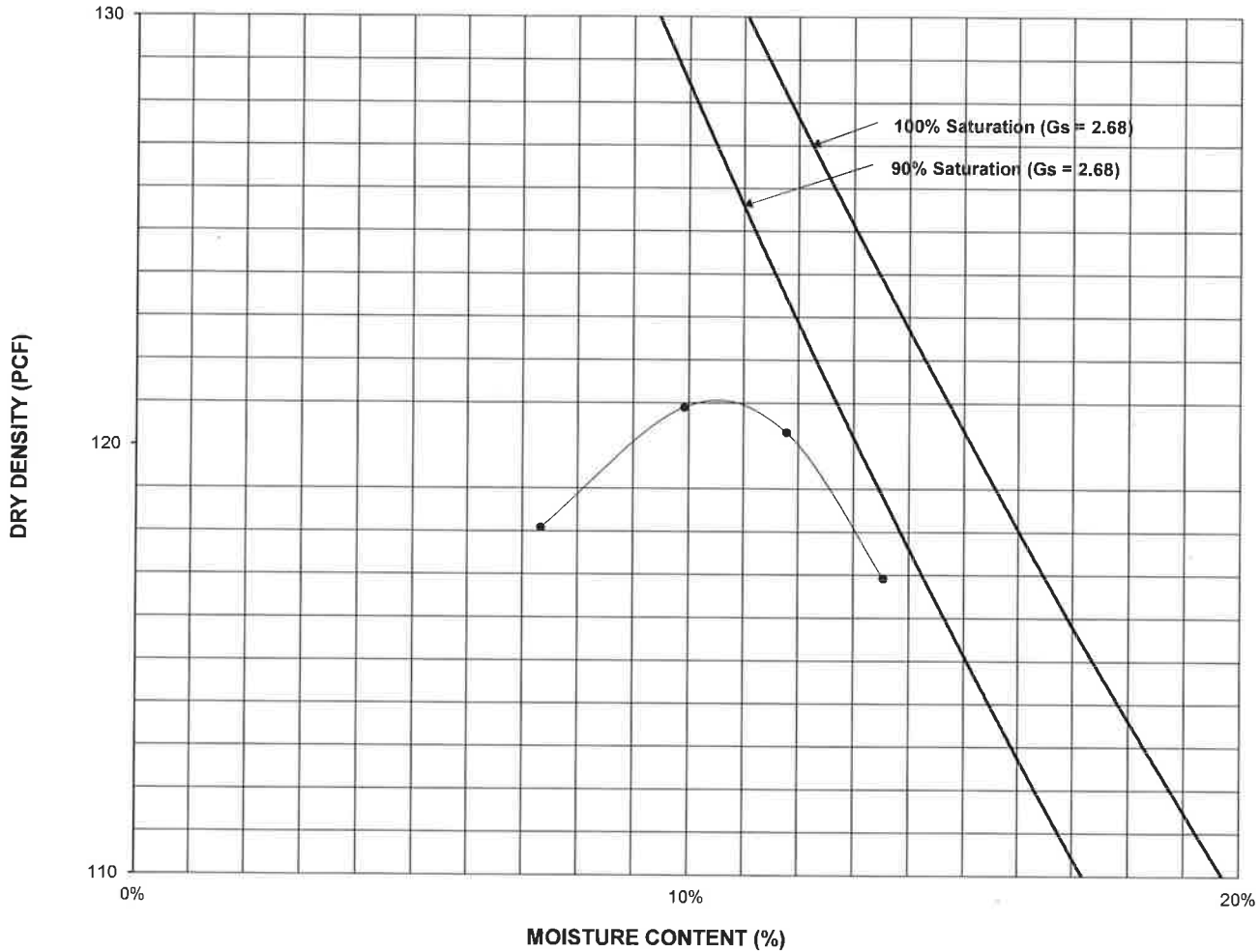
Period 12/15/2022 - 12/15/2022



Gradation Results

Quality Results

Sieve	% Passing	Tolerances	Test	Result	Unit	Tolerances	Method
3/4" (19mm)	100.0	70-100	-#200 (75um)	16.41	%		AASHTO T11
1/2" (12.5mm)	100.0		R Value	74.0		≥30	ASTM D1559
3/8" (9.5mm)	99.7		Liquid Limit	26.0		≤35	
#4 (4.75mm)	99.2		Plastic Limit	22.9			
#8 (2.36mm)	78.4		Plasticity Index	3.1		≤12	
#10 (2mm)	72.1		Max Dry Density (Proctor-Mod)	121			ASTM D 1557
#16 (1.18mm)	56.1		Opt Moisture (Corrected)	11	%		
#30 (.6mm)	40.0						
#40 (.425mm)	34.2	10-65					
#50 (.3mm)	28.8						
#100 (.15mm)	21.6						
#200 (75µm)	16.41	5-20					



D1557 Symbol	Sample Source	Classification (Description)	Optimum Water Content (%)	Maximum Dry Density (pcf)
°	Mustang Recycle Yard	Recycled Sand	10.6	121.1

TEST METHOD: <u>D1557</u>	MOLD (in): <u>4</u>	MANUAL COMPACTION: <u>X</u>	POINT #	MOISTURE	DRY DENSITY (PCF)
METHOD: <u>B</u>	HAMMER (LBS.): <u>10</u>	MECHANICAL COMPACTION: _____	1	<u>7.3%</u>	<u>118.1</u>
LAYERS: <u>5</u>	FALL (in): <u>18</u>		2	<u>9.9%</u>	<u>120.9</u>
BLOWS: <u>25</u>			3	<u>11.8%</u>	<u>120.3</u>
			4	<u>13.5%</u>	<u>116.9</u>
% PASSING	SPECIFIC GRAVITY	ABSORPTION (%): _____	5	_____	_____
3/4" _____	ASSUMED: <u>2.68</u>	ESE BULK NO.: <u>6233</u>	6	_____	_____
3/8" <u>> 95</u>	ASTM C-127 _____	DATE SAMPLED: <u>12/15/2022</u>			
#4 _____					



**EASTERN
SIERRA
ENGINEERING**

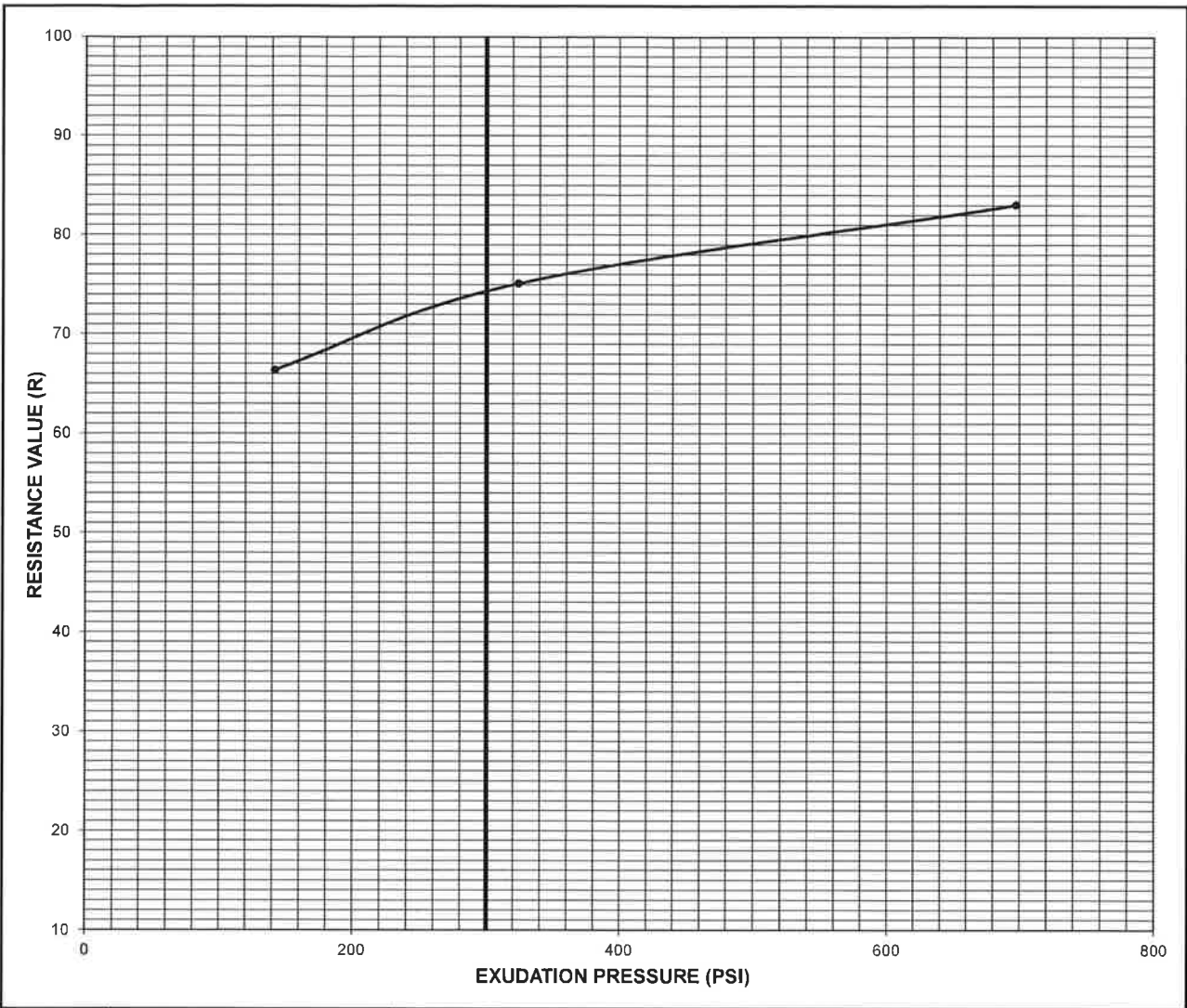
CIVIL ENGINEERING & CONSTRUCTION SERVICES

COMPACTION TEST DATA
Q&D Construction
2023 QC Services

FIGURE


1

DRAWN DB	JOB NUMBER 23.1.01	APPROVED SJ	DATE 12/20/2022	REVISED	DATE
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D 2844 Symbol	Sample Source	Classification	Expansion Pressure (psf)	R-value
o	Mustang Recycle Yard - 12/15/2022	Recycled Sand	0.0	74

POINT #	WATER CONTENT (%)	DRY DENSITY (PCF)	EXUDATION PRESS. (PSI)	EXPANSION PRESS. (PSF)	RESISTANCE VALUE (R)
1	10.4	118.3	697	0	83
2	11.1	118.2	324	0	75
3	12.5	115.7	142	0	66
4					
5					
6					

 EASTERN SIERRA ENGINEERING <small>CIVIL ENGINEERING & CONSTRUCTION SERVICES</small>	RESISTANCE VALUE TEST DATA Q&D Construction 2023 QC Services			FIGURE 2		
	DRAWN DB	ESE BULK # 6233	JOB NUMBER 23.1.01	APPROVED SJ	DATE 12/21/2022	REVISED