



Q&D CONSTRUCTION

est. 1964

January 27, 2023

Aggregate Submittal

Fill

Q&D – Mustang Plant

12050 I-80 E, Sparks NV 89434

Project Name:

Q&D is pleased to provide our AASHTO accredited laboratory test results for Fill. 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



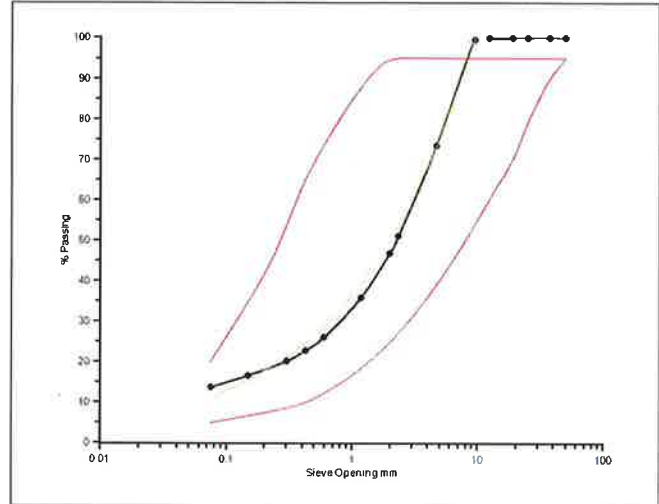
Q&D CONSTRUCTION
est. 1954

Compliance Summary

Product Information

Plant Id 36
 Plant Name Mustang Facility
 Product Id [TEMP10]
 Product Name Fill Primary
 Specification Fill Primary

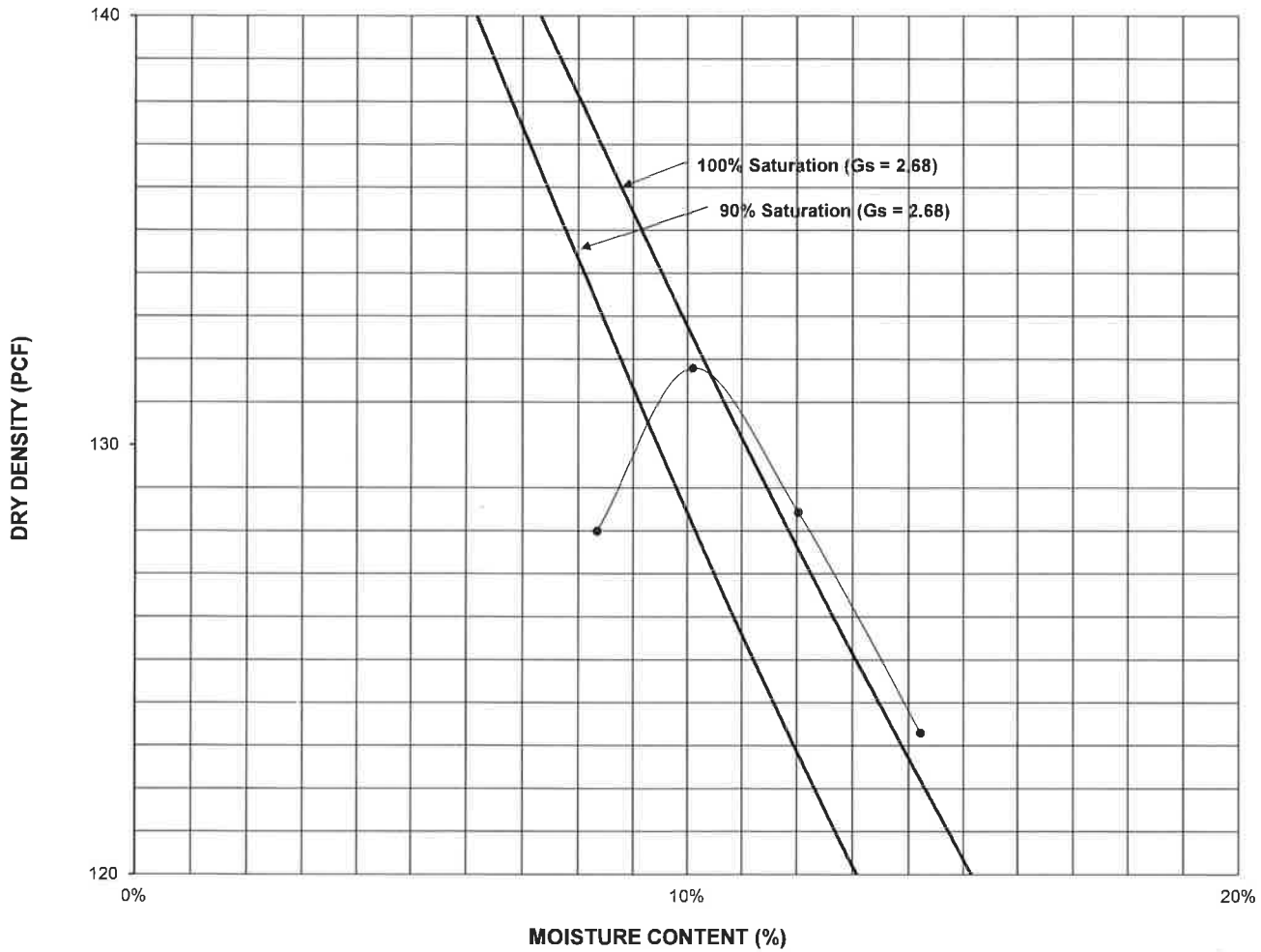
Period 01/31/2021 - 01/31/2023



Gradation Results

Quality Results

Sieve	% Passing	Tolerances	Test	Result	Unit	Tolerances	Method
2" (50mm)	100.0		-#200 (75µm)	13.70	%		AASHTO T11
1 1/2" (37.5mm)	100.0		R Value	70.0		≥30	ASTM D1559
1" (25mm)	100.0		Liquid Limit	35.5		≤35	
3/4" (19mm)	100.0	70-100	Plastic Limit	23.8		≤35	
1/2" (12.5mm)	99.9		Plasticity Index	11.7		≤12	
3/8" (9.5mm)	99.6		Max Dry Density (Proctor-Mod)	132			ASTM D 1557
#4 (4.75mm)	73.5		Opt Moisture (Corrected)	10	%		
#8 (2.36mm)	51.1						
#10 (2mm)	46.7						
#16 (1.18mm)	35.8						
#30 (.6mm)	26.1						
#40 (.425mm)	22.8	10-65					
#50 (.3mm)	20.1						
#100 (.15mm)	16.6						
#200 (75µm)	13.70	5-20					



D1557 Symbol	Sample Source	Classification (Description)	Optimum Water Content (%)	Maximum Dry Density (pcf)
°	Mustang Pit	Fill	10.1	131.8

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>8.3%</u>	<u>128.0</u>
LAYERS: <u>5</u>	FALL (in): <u>18</u>		2	<u>10.1%</u>	<u>131.8</u>
BLOWS: <u>25</u>			3	<u>12.0%</u>	<u>128.4</u>
			4	<u>14.2%</u>	<u>123.3</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**

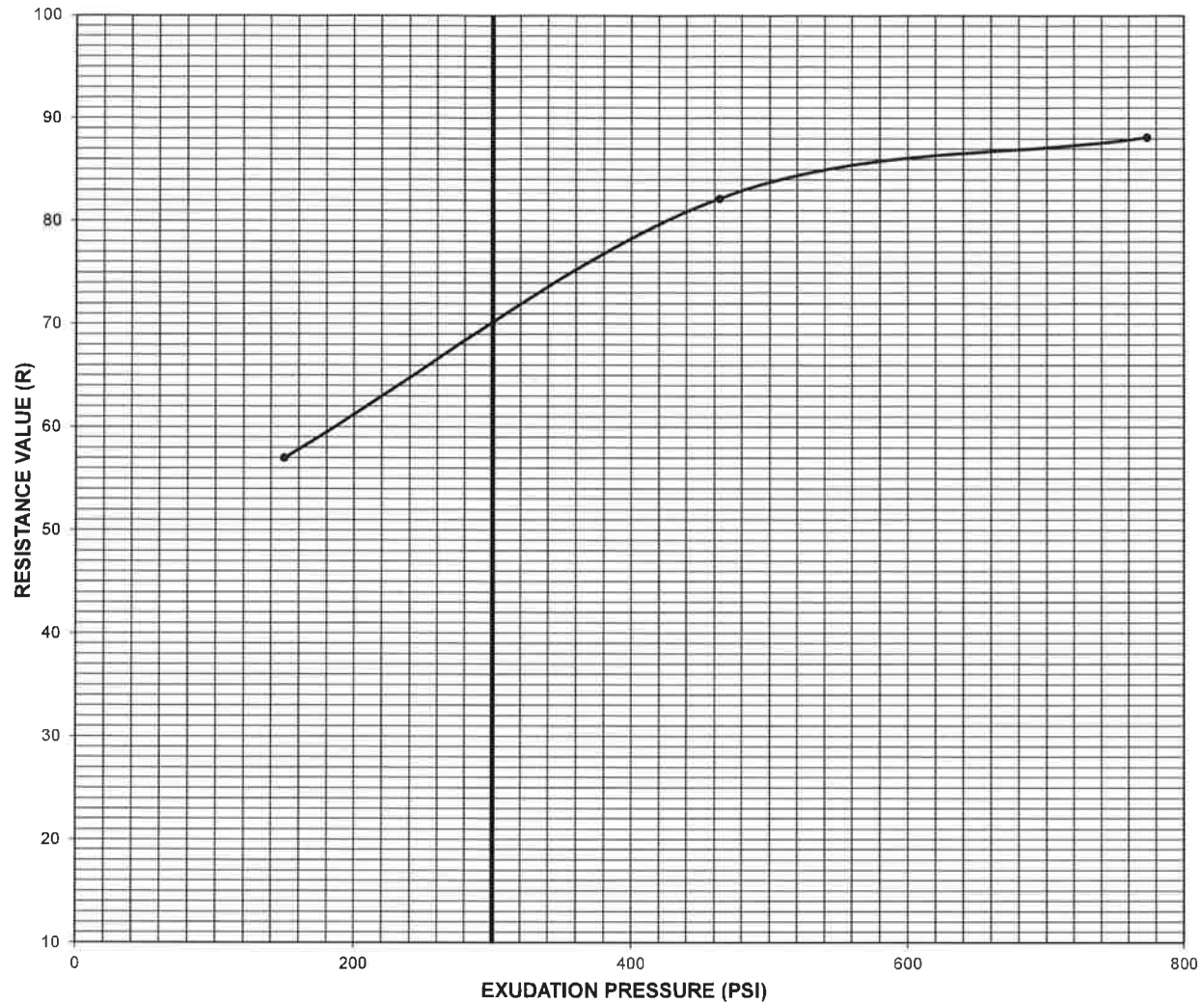
COMPACTION TEST DATA
Q&D Construction
2023 QC Services

FIGURE

1

CIVIL ENGINEERING & CONSTRUCTION SERVICES

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 Pit - 12/15/2022	Fill	0.0	70

POINT #	WATER CONTENT (%)	DRY DENSITY (PCF)	EXUDATION PRESS. (PSI)	EXPANSION PRESS. (PSF)	RESISTANCE VALUE (R)
1	11.2	123.3	773	0	88
2	11.6	124.8	464	0	82
3	12.2	122.0	150	0	57
4					
5					
6					



CIVIL ENGINEERING & CONSTRUCTION SERVICES

RESISTANCE VALUE TEST DATA

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FIGURE

2

DRAWN	ESE BULK #	JOB NUMBER	APPROVED	DATE	REVISED	DATE
DB	6235	23.1.01	SJ	12/21/2022		