

October 31, 2022

State of Colorado Division of Reclamation, Mining & Safety 1313 Sherman St, Room 215 Denver, CO 80203

Attention: Janet Binns, Environmental Protection Specialist II

Re: C-1981-035, King I Refuse Pile 2022 Compaction Test Results

"Safety as a Value"

Mr. Binns:

Attached is a report by Geomat, Inc. documenting results of the annual compaction tests performed on 10/18/2022 at the King I Refuse Pile.

Please call Jordan McCourt at (970) 385-4528 x 6531 if you have any questions or comments.

Sincerely,

Jordan McCourt Project Coordinator

Jordan McCourt

GCC Energy, LLC



915 Malta Avenue Farmington, NM 87401 Phone: 505-327-7928 Fax: 505-326-5721

Daily Observation Report

Client:

Project:

GCC Energy, LLC 6473 County Road 120 Hesperus, CO 81326 201-3529 Refuse Pile Density Testing 6473 CR 120 Hesperus, CO 81326

Daily Project Summary

Activity Number: 3

Date: 10/18/2022

Arrival Time: 09:35

GEOMAT Technician: Kevin Yazzie

Client / Project Representative: Wade

Travel Time: 1.50

Test Time: 2.50

Standby Time: 0.00

Reason For Standby: N/A

Total Time: 4.00

Observations

Specific Location: King Coal I & II

Weather Conditions: Partly Cloudy / Dry / Calm / Sunny

Unexpected Site Conditions: None

Equipment On-site: None

Work in Progress / Remarks:

Tech arrived at King Coal II, for check-in at the dispatch building with Wade. Escorted to building to obtain hazard training for mine. Upon completion of hazard training, escorted to King Coal I for FDT's on refuse piles. 6 FDT's total were performed (3 on bottom refuse and 3 on upper refuse piles) Wade informed technician, the elevation has not changed from the last visit. No protor taken, technician reported test results to Wade. No other testing was needed. End

Preliminary Test Results

Field Density Test Results (Earthwork or Hot Mix Asphalt):

Pass: 6

Fail: 0

Pending: 0

Total: 6

Cementitious Test Results (Concrete, Grout, etc.): None Performed

Soil Nuclear Gauge SOII NUCIEAL GAUS

915 Matta Avenue Farmington, NM 87401 Phone: 505-327-7928 | Fax: 505-326-5721

Client: GCC Energy, LLC 6473 County Road 120 Hesperus, CO 81326

Project:
201-3529
Refuse Pile Density Testing 6473 CR 120
Hesperus, CO 81326

							Test R	Test Results							
						Optimum	Maximum	In Place	In Place	In Place Wet	Probe			Optimum	
Test#	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Moisture (%)	Dry Density (pcf)	_		Density	Depth (in)	Percent	Min Comp.	Tolerance	Pomork
14		10/18/22	4873	ပ	1	11.0	80.8	37.2	75.2	103.2	8	93	06	(ex)	DP DP
15		10/18/22	4873	ပ	1	11.0	80.8	38.6	75.0	104.0	00	93	6	AN N	2
16		10/18/22	4873	ပ	ī	11.0	80.8	29.8	75.1	97.5		93	8	₹ N	2
17		10/18/22	4873	၁	3	11.0	80.8	29.1	7.77	100.3	8	96	06	Z Z	2
18		10/18/22	4873	၁	7440	11.0	80.8	29.9	77.0	100.0	8	95	06	AN	2
19		10/18/22	4873	S	(11)	11.0	80.8	29.5	77.5	100.4	80	96	06	ž	<u>a</u>
							Test Information	rmation							
Test #	Test # Test Location	ation						Florintian	Doforce			Gauge			
5	Othor C	North D 241 F	CANO		1.000			✝	מוכופוורפ		Make / I	Model / SN / C		Field Technician	ian
<u>t</u>	cc .auro	Other 55 North & 31 East of SWC of Bottom GOB Pit	ast of swc.	of Bottom C	30B Pit			18.0	Feet above native subgrade	ive	Troxler / 3	Troxler / 3440 / 31098 / 02/14/2022		Kevin Yazzie	
15	Other: 95	Other: 95' North & 88' East of SWC of Bottom GOB Pit	ast of SWC	of Bottom C	SOB Pit			20.0 Si	Feet above native subgrade	ive	Troxler / 3	Troxler / 3440 / 31098 / 02/14/2022	T	Kevin Yazzie	
16	Other: 12	Other: 122' North & 150' East of SWC of Bottom GOB Pit)' East of SW	'C of Botton	n GOB Pit			28.0 Fi	Feet above native subgrade	ive	Troxler / 3	Troxler / 3440 / 31098 / 02/14/2022	Т	Kevin Yazzie	
17	Other: 65	Other: 65' North & 45' East of SWC of Upper GOB Pit	ast of SWC o	of Upper G	OB Pit			10.0 F	Feet below top of fill	of fill	Troxler / 3	Troxler / 3440 / 31098 / 02/14/2022	Т	Kevin Vazzie	
18	Other: 85	Other: 85' North & 110' East of SWC of Upper GOB Pit	East of SWC	of Upper C	3OB Pit			10.0	Feet below top of fill	of fill	Troxler / 3	Troxler / 3440 / 31098 / 02/14/2022	Т	Kevin Yazzie	
19	Other: 13	Other: 135' North & 205' East of SWC of Upper GOB Pit	S East of SW	C of Upper	GOB Pit			10.0 Fe	Feet below top of fill	of fill	Troxler / 3	Troxler / 3440 / 31098 / 02/14/2022	Т	Kevin Yazzie	
		Remarks	S)				Comments						1		
OP: De	DP: Density Pass	6			Tests are "Direc "Backscatter". G	ct Transmission Sauge calibratio	ect Transmission" (Method A) unless probe depth is noted as Gauge calibration data on file with the testing agency.	ess probe de	pth is noted as agency.						
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