



"Safety as a Value"

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

June 30, 2017

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

Attention: Rob Zuber, Environmental Protection Specialist II

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

Mr. Zuber:

Attached is a report by Trautner Geotech documenting results of compaction tests performed on May 8, 2017 at the King I Refuse Pile.

Please disregard the report submitted June 16, 2017, as it had the compaction results attached from the previous year.

Please call Tom Bird at (970) 385-4528 x 6503 if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tom Bird', with a large, stylized loop at the end.

Tom Bird
Manager, Coal Services
GCC Energy, LLC

TRAUTNER GEOTECH LLC

GEOTECHNICAL ENGINEERING, MATERIAL TESTING
AND ENGINEERING GEOLOGY

DAILY FIELD REPORT AND TEST RESULTS

PROJECT NAME: *GOB Pile at GCC 2017*

PROJECT NO.: *54707MT*

DATE: *5/8/17*

TECHNICIAN: *See Below*

REQUESTED SERVICE: *Nuclear Field Density Test*

CONTRACTOR: *GCC*

FOREMAN: *Mr. Tom Bird*

Technician field notes and comments:
results were verbally given to Mr. Tom Bird.

I arrived on-site as requested. I performed six (6) nuclear field density tests on previously placed and compacted coal GOB. All test

NUCLEAR FIELD DENSITY TEST RESULTS

Date	Test No.	Test Location	Probe Depth (in)	Test Elevation	Proctor Density (PCF)	Optimum Moisture (%)	Field Density (PCF)	Field Moisture (%)	Relative Compaction (%)	Material Type	Technician
5/8/17	1	Reclamation pad - 75ft. W. of Huntington Pond access driveway	8	TBD	92.4	12.5	90.5	6.5	98	Coal GOB	C. Campbell
5/8/17	2	Reclamation pad - 27ft. W. of lath RP01 - 2016 - TH04	8	TBD	92.4	12.5	83.0	7.4	90	Coal GOB	C. Campbell
5/8/17	3	Reclamation pad - 100ft. E. and 50ft. S. of W. corner of pad	8	TBD	92.4	12.5	92.5	7.8	100	Coal GOB	C. Campbell
5/8/17	4	Reclamation pad - 50ft. N./NE of top of driveway at S. corner of pad	8	TBD	92.4	12.5	90.3	7.8	98	Coal GOB	C. Campbell
5/8/17	5	Reclamation pad - approximate center of pad, 20ft. S. of E. corner to W. corner line	8	TBD	92.4	12.5	85.1	6.4	92	Coal GOB	C. Campbell
5/8/17	6	Reclamation pad - 75ft. N./NE of bottom of Huntington Pond access driveway	8	TBD	92.4	12.5	90.2	7.4	98	Coal GOB	C. Campbell

THE CHARACTERISTICS REPORTED ABOVE ARE ONLY APPROPRIATE FOR THE ELEVATIONS AND LOCATIONS TESTED DURING OUR FIELD WORK.