



OGMCOAL DNR <ogmcoal@utah.gov>

Fwd: Requested Documents from 4/29/15 inspection (RE Task 4814 UG Mining Air Quality AO; Excess Spoils Compaction tests; current mining/reclamation status map)

Priscilla Burton <priscillaburton@utah.gov>
To: OGMCOAL DNR <ogmcoal@utah.gov>

Mon, May 11, 2015 at 2:19 PM

----- Forwarded message -----

From: **Kirk Nicholes** <knicholes@altoncoal.com>
Date: Thu, Apr 30, 2015 at 9:59 AM
Subject: Requested Documents from 4/29/15 inspection
To: "Priscilla Burton (priscillaburton@utah.gov)" <priscillaburton@utah.gov>

Thank You

Kirk Nicholes

Environmental Specialist

Alton Coal Development, LLC

463 N 100 W, Suite 1

Cedar City, Ut 84721

T [435-867-5331](tel:435-867-5331)

M [435-691-1551](tel:435-691-1551)

3 attachments



Week 9 Overview.pdf

552K



All Spoils Pile Compaction Test.pdf

1054K



04-21-2015 Air Approval Order.pdf

89K



State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN140470004-15

April 21, 2015

B. Kirk Nicholes
Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, UT 84721

Dear Mr. Nicholes:

Re: Approval Order: Modification to AO DAQE-AN140470003-14 for Installation of Two
Generators and Stacker Belt
Project Number: N14047-0004

The attached document is the Approval Order for the above-referenced project. Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Jon Black, who may be reached at (801) 536-4047.

Sincerely,

Bryce C. Bird
Director

BCB:JB:jc

cc: Mike Owens
Southwest Utah Public Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

APPROVAL ORDER: Modification to AO DAQE-AN140470003-14 for Installation of Two Generators and Stacker Belt

**Prepared By: Jon Black, Engineer
Phone: (801) 536-4047
Email: jlblack@utah.gov**

APPROVAL ORDER NUMBER

DAQE-AN140470004-15

Date: April 21, 2015

**Alton Coal Development, LLC
Coal Hollow Mine**

Source Contact:

**B. Kirk Nicholes, Environmental Specialist
Phone: (435) 867-5331
Email: knicholes@altoncoal.com**

**Bryce C. Bird
Director**

Abstract

Alton Coal Development, LLC (ACD) has requested a modification to AO DAQE-140470003-14 to add two (2) diesel generators and a stacker belt at the Coal Hollow Surface Coal Mine. ACD will use the new generators to power underground mining equipment, an underground beltline, stacker belt, and fan for underground operations. ACD will be circumventing the surface mining of coal from pits 11 through 15 and extracting coal from these pit locations through underground mining. The Coal Hollow surface coal mine is classified as a minor source. The mine is located in Kane County near the town of Alton, Utah. Kane County is an attainment area of the National Ambient Air Quality Standards (NAAQS) for all pollutants.

NSPS 40 CFR 60 Subparts A (General Provisions), Y (Standards of Performance for Coal Processing Plants) and IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) regulations apply to this source. NESHAPs 40 CFR 63 Subparts A (General Provisions) and ZZZZ (Stationary Reciprocating Internal Combustion Engines) regulations apply to this source. Title V of the 1990 Clean Air Act applies to this area source.

The emission changes from surface mining changes and underground equipment power generators, in tons per year (tpy), will be as follows: $PM_{10} = -4.98$, $PM_{2.5}$ (subset of PM_{10}) = -0.21, $NO_x = 12.22$, $SO_2 = 0.13$, $CO = 23.90$, $VOC = 3.91$, $HAPs = 0.88$ and $CO_2e = 10,995.74$. The potential source emissions, in tpy, are as follows: $PM_{10} = 68.68$ (fugitive & point source), $PM_{2.5}$ (subset of PM_{10}) = 8.29, $NO_x = 31.31$, $SO_2 = 4.11$, $CO = 33.02$, $VOC = 5.82$, $HAPs = 0.96$ and $CO_2e = 12,341.95$.

This air quality AO authorizes the project with the following conditions and failure to comply with any of the conditions may constitute a violation of this order. This AO is issued to, and applies to the following:

Name of Permittee:

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, UT 84721

Permitted Location:

Alton Coal Development, LLC-Coal Hollow
Mine
County Road 136
Alton, UT

UTM coordinates: 371534 m Easting, 4140699 m Northing, UTM Zone 12
SIC code: 1221 (Bituminous Coal & Lignite Surface Mining)

Section I: GENERAL PROVISIONS

- I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
- I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401-8]
- I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with

good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]

- I.6 The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]
- I.7 The owner/operator shall comply with UAC R307-150 Series. Inventories, Testing and Monitoring. [R307-150]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

- II.A.1 **Surface Coal Mine**
Coal Hollow Mine
- II.A.2 **Product Transfer Equipment**
Loaders, Dozers, Power Shovels, Excavators, Haul and Water Trucks, etc.
- II.A.3 **Stacker Belt**
Maximum Equipment Rating: 1000 tph
- II.A.4 **Associated Material Processing Equipment**
Conveyors, Stackers, Drills, etc.
- II.A.5 **Feeder Breaker**
Maximum Equipment Rating: 1000 tph
- II.A.6 **Secondary Crusher**
Maximum Equipment Rating: 1000 tph
- II.A.7 **Generator #1**
Maximum Equipment Rating: 25 hp
Fuel type: Diesel
Location: Water Well/Block Heater
- II.A.8 **Generator #2**
Maximum Equipment Rating: 45 hp
Fuel type: Diesel
Location: Back-up Generator
- II.A.9 **Generator #3**
Maximum Equipment Rating: 70 hp
Fuel type: Diesel
Location: Maintenance Area
- II.A.10 **Generator #4**
Maximum Equipment Rating: 190 hp
Fuel type: Diesel
Location: Office/Load Out Area

- II.A.11 **Generator #5**
Maximum Equipment Rating: 250 hp
Fuel type: Diesel
Location: Crusher Operation
- II.A.12 **Highwall Miner**
Note: This source is a mobile source and is listed for information purposes only.
- II.A.13 **Fuel Tank #1**
Maximum Capacity: 12,000 gallons
Fuel type: Diesel

Note: Listed for informational purposes only.
- II.A.14 **Fuel Tank #2**
Maximum Capacity: 12,000 gallons
Fuel type: Diesel

Note: Listed for informational purposes only.
- II.A.15 **Fuel Tank #3**
Maximum Capacity: 4,000 gallons
Fuel type: Gasoline

Note: Listed for informational purposes only.
- II.A.16 **Underground Mining Facility**
- II.A.17 **Generator #6**
Maximum Equipment Rating: 2220 hp
Fuel type: Diesel
Location: Underground Mining Portal
- II.A.18 **Generator #7**
Maximum Equipment Rating: 190 hp
Fuel type: Diesel
Location: Underground Fan
- II.A.19 **Stacker Belt**
Maximum Equipment Rating: 1,000 tph

II.B Requirements and Limitations

II.B.1 **The Coal Hollow Mine shall be subject to the following:**

- II.B.1.a The owner/operator shall notify the Director in writing when the new equipment listed in Conditions II.A.16, II.A.17, II.A.18, and II.A.19 have been installed and are operational. To ensure proper credit when notifying the Director, send your correspondence to the Director, attn: Compliance Section. If the construction and/or installation have not been completed within 18 months from the date of this AO, the Director shall be notified in writing on the status of the construction and/or installation. At that time, the Director shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO. [R307-415-6a]
- II.B.1.b The owner/operator shall not exceed the following production limits:
- A. 2,000,000 tons total of facility coal production per rolling 12-month period.

- B. 725,000 tons of coal processed from underground mining per rolling 12-month period.
- C. 19,145,000 tons of overburden material moved per rolling 12-month period.
- D. 373,750 tons of topsoil removed per rolling 12-month period.
- E. 7,488 hours of operation for the mine per rolling 12-month period.

[R307-401-8]

II.B.1.b.1 To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. The records of production shall be kept on a daily basis. Production shall be determined by scale house records, vendor receipts or other approved method determined by the Director. Hours of operation and production shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.1.c Unless otherwise specified in this AO, visible emissions from the following emission points shall not exceed the following values:

- A. All crushers - 15% opacity
- B. All conveyor transfer points - 10% opacity
- C. All stacker/conveyor drop points - 20% opacity
- D. All diesel engines - 20% opacity
- E. All other points - 20% opacity.

[R307-401-8]

II.B.1.c.1 Unless otherwise specified in this AO, opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-201-3]

II.B.1.d All storage piles and unpaved operational areas shall be water sprayed to minimize generation of fugitive dust. Water shall be applied as dry conditions warrant or as determined necessary by the Director. [R307-401-8]

II.B.1.e Blasting may be utilized if conditions warrant. Blasting shall be limited to one (1) blast per day and 32 blasts per rolling 12-month period. Blasting shall be conducted in a manner to prevent overshooting (blasting which loosens solid rock formations outside the limits of the planned slopes) and to minimize the area to be blasted. [R307-401-8]

II.B.1.f The owner/operator shall abide by all applicable requirements of R307-205 for Fugitive Emission and Fugitive Dust sources. To be in compliance, this facility must operate in accordance with the most current version of R307-205. [R307-205]

II.B.1.g The owner/operator shall abide by a fugitive dust control plan acceptable to the Director for control of all dust sources associated with the Coal Hollow Mine. The owner/operator shall abide by the most current fugitive dust control plan approved by the Director. [R307-401-8]

II.B.2 **All Unpaved Haul Roads shall be subject to the following:**

II.B.2.a The owner/operator shall not allow visible emissions from unpaved roads used by mobile equipment to exceed 20 percent opacity. [R307-201]

- II.B.2.b Visible emission determinations for fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-201]
- II.B.2.c All unpaved roads that are used by mobile equipment, that are located within the pit footprint, shall be water sprayed to control fugitive dust. If annual production of coal exceeds 1.5 million tons per rolling 12-month period, water sprays will continue to be used on short-term roads (same location for less than one month) within the pit footprint while chemical suppressant treatments shall be used on in-pit roads that will remain in place for more than one month, including in-pit ramps.
- All unpaved roads that are outside of the pit footprint shall be water sprayed and/or chemically treated to control fugitive dust. The application of water or chemical treatment shall be used except when the ambient temperature is below freezing (32 degrees). Chemical treatment shall be applied two (2) times, or more if necessary, per rolling 12-month period and watering shall be initiated daily dependent upon observed fugitive dust generation. [R307-401-8]
- II.B.2.d Records of water/chemical treatment application shall be kept for all periods when the plant is in operation. The records shall include the following items:
- A. Date and time treatments were made
 - B. Number of treatments made and quantity of water applied
 - C. Rainfall amount received, if any
 - D. Records of temperature, if the temperature is below freezing.
- [R307-401-8]
- II.B.2.e Each coal haul road shall not exceed 7975 feet in length and each overburden haul road shall not exceed 2500 feet in length. The vehicle speed on the haul roads shall be posted, at minimum, on-site at the beginning of each haul road so that it is clearly visible from the haul road. [R307-401-8]
- II.B.3 **The Diesel fired Generators on-site shall be subject to the following:**
- II.B.3.a The owner/operator shall limit the operation of the stationary diesel generator engines to the following:
- A. Generators #1 (Water Well/Block Heaters) and #2 (Back-up) shall operate 5,112 hours each per rolling 12-month period.
 - B. Generators #3 (Maintenance) and #5 (Crusher) shall operate 7,488 hours each per rolling 12-month period.
 - C. Generators #4 (Office/Loadout), #6 (Underground Mining), and #7 (Underground Fan) shall operate 8,760 hours per rolling 12-month period.
- [R307-401-8]

- II.B.3.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. To determine the total generator hours of operation for the surface mine, the owner/operator shall sum the operating hours of each engine. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]
- II.B.3.b The owner/operator shall abide by all applicable provisions of 40 CFR 60, NSPS Subpart A (General Provisions), 40 CFR 60.1 to 60.18 and Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), 40 CFR 60.4200 to 60.4219 for all stationary diesel engines on site as specified in 40 CFR 60.4200(a). [40 CFR 60 Subpart IIII]
- II.B.3.c The owner/operator shall abide by all applicable provisions of 40 CFR 63 Subpart A (General Provisions), 40 CFR 63.1 to 63.16 and 40 CFR 63 Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), 40 CFR 63.6580 to 63.6675 for all stationary diesel engines on site as specified in 40 CFR 63.6585. [40 CFR 63 Subpart ZZZZ]
- II.B.4 **On-Site Fuel Limitations**
- II.B.4.a The owner/operator shall use #1, #2 or a combination of #1 and #2 diesel fuel in the on-site equipment. [R307-401-8]
- II.B.4.b The sulfur content of any fuel oil or diesel burned in the on-site equipment shall not exceed 15 ppm by weight. [R307-401-8]
- II.B.4.c The sulfur content shall be determined by ASTM Method D2880-71, D4294-89, or approved equivalent. Certification of fuel sulfur content shall be by test reports from the fuel oil or diesel fuel marketer. [R307-401]
- II.B.5 **Ambient Monitoring Requirements**
- II.B.5.a The owner/operator shall operate an ambient monitoring network as described in this AO document. The monitoring plan will be periodically reviewed by the DAQ and revised if necessary. [R307-401]
- II.B.5.b The air monitoring installation and set-up shall be completed within 90 days of the final permit issuance date. The owner/operator shall complete the calibration and equipment testing within 30 days of the final set-up and installation date. [R307-401]
- II.B.5.c The owner/operator shall operate and maintain two (2) air monitoring sites in the vicinity of the Coal Hollow mine and facilities. The first air monitor shall be sited in a location impacted by the modeled highest concentration of emissions. This site is along the western portion of the mine's northern property line and is defined below. The second air monitor shall be sited outside of the property boundary near the southeastern corner of the property and is defined below. The exact locations of the monitoring sites shall be approved by the DAQ and meet all of the siting requirements established by the DAQ. [R307-401-8]
- II.B.5.d The owner/operator shall utilize air monitoring and quality assurance procedures which are equal to or exceed the requirements described in the EPA Quality Assurance Manual including revisions 40 CFR Parts 53 and 58. [R307-401]
- II.B.5.e The air monitoring shall track the long-term impacts of emissions from the facility. Should monitoring data indicate that project emissions are producing ambient air quality impacts that could produce an exceedance of the National Ambient Air Quality Standards, additional air monitoring or analyses will be required. If this situation occurs, an additional data assessment plan shall be developed that is mutually acceptable to both UDAQ and ACD. [R307-401]

II.B.5.f ACD shall monitor the following parameters at the sites and frequencies described below:

Site Name	UTM Coordinates	Parameter	Frequency
Northern Boundary	Zone 12 N 4,139,594.2 E 373,175.2	PM ₁₀	Every 6th Day
Southeastern Corner	Zone 12 N 4,140,903.8 E 373,113.4	PM ₁₀	Every 6th Day

Note: PM₁₀ is defined as particulate matter less than 10 microns.

[R307-401-1]

II.B.5.g Any ambient air monitoring changes proposed by ACD must be approved, in writing, by the Director or Director's representative. [R307-401]

II.B.5.h The owner/operator shall submit quarterly data reports within 45 days after the end of the calendar quarter and an annual data report within 90 days after the end of the calendar year. [R307-401]

II.B.5.i The quarterly report shall consist of a narrative data summary and a submittal of all data points in EPA-AIRS record format. The data shall be submitted in compact disc (CD) format. The narrative data summary shall include:

- A. A topographic map of appropriate scale with UTM coordinates and a true north arrow showing the air monitoring site locations in relation to the mine and facilities and the general area;
- B. A hard copy of the individual data points;
- C. The quarterly and monthly means for PM₁₀ and wind speed;
- D. The first and second highest 24-hour concentrations for PM₁₀;
- E. The quarterly and monthly wind roses;
- F. A summary of the data collection efficiency;
- G. A summary of the reasons for missing data;
- H. A precision and accuracy (audit) summary;
- I. A summary of any ambient air standard exceedances; and
- J. Calibration information.

[R307-401]

II.B.5.j The annual data report shall consist of a narrative data summary containing:

- A. A topographic map of appropriate scale with UTM coordinates and a true north arrow showing the air monitoring site locations in relation to the mine and facilities and the general area;
- B. A pollution trend analysis;

- C. The annual means for PM₁₀ and wind speed;
- D. The first and second highest 24-hour concentrations for PM₁₀;
- E. The annual wind rose;
- F. An annual summary of data collection efficiency;
- G. An annual summary of precision and accuracy (audit) data;
- H. An annual summary of any ambient standard exceedance; and
- I. Recommendations for future monitoring.

[R307-401]

II.B.5.k The DAQ may audit, or may require ACD to contract with an independent firm to audit, the air monitoring network, the laboratory performing associated analyses, and any data handling procedures at unspecified times. On the basis of the audits and subsequent reports, the DAQ may recommend or require changes in the air monitoring system and associated activities in order to improve precision, accuracy, and data completeness. [R307-401]

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

NSPS (Part 60), A: General Provisions

NSPS (Part 60), Y: Standards of Performance for Coal Preparation and Processing Plants

NSPS (Part 60), IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Title V (Part 70) Area Source

PERMIT HISTORY

This AO is based on the following documents:

Replaces	DAQE-AN140470003-14 dated March 10, 2014
Is Derived From	Notice of Intent Document dated November 17, 2014
Incorporates	Additional Information dated December 18, 2014
Is Derived From	Additional Information dated January 14, 2015

ADMINISTRATIVE CODING

The following information is for UDAQ internal classification use only:

Kane County

CDS SM

NSR, Title V (Part 70) Area Source, Synthetic minor, Attainment Area, NSPS (Part 60), MACT (Part 63)

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent - 40 CFR Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - 40 CFR 52.21 (b)(49)(i)
GWP	Global Warming Potential - 40 CFR Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/HR	Pounds per hour
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds

PROJECT: Alton Coal Mine

PROJECT NUMBER: 7101184

CONTRACTOR: Alton Coal Development LLC

DATE: 1-25-11

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry _____

PERMIT NUMBER: _____

P.O. NUMBER: _____

MILEAGE TO PROJECT SITE: _____

SITE VISITS:
 START TIME: 7:45 AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:

Cloudy Partly Cloudy Clear
 Rain Snow _____

Temperature Range: _____ ° F to _____ ° F

Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Reinforced Concrete	_____	Concrete Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Sample Pick-up	_____	Grout Samples	_____	Grout Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Soils	_____	Masonry Prisms	_____	Mortar Type <u>N / S / M</u> Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Structural Masonry	_____	Mortar Samples	_____	Prisms <u>Hollow / Grouted</u> Req. psi _____	ORIGINAL DATE: _____
Structural Steel	_____	Soil Series	_____		
	_____	Soil Series	_____		
Total Hrs.	_____				

Observations: AGEC was on site as requested to perform in place density tests on culverts at Sta 16+00 west to Eagle Fork a road. Finish grade and at Sta 16+30 pipe zone and finish grade. Pipe zone soil is silty sand. Finish grade soil is 1/2" max 13L17 stock pile. Tests met job specs.
Also tested culvert at 9+00 project entrance. 2' below finish grade. Soil is 1/2" max 13L17 stockpile. Tests met job specs. Finish grade will be placed as roadway fill.
Larry Johnson with Alton Coal Development was giving results.

RECEIVED BY 1 COMPANY _____

Robert Royal
CONSTRUCTION OBSERVER

161740
CERTIFICATION NUMBER

Reviewed by: _____

Date: _____

THIS FIELD MEMO CONTAINS INFORMATION RELATED TO THE REFERENCED PROJECT. THE INFORMATION CONTAINED HEREIN SHOULD BE CONSIDERED PRELIMINARY. ALL TEST RESULTS OR OTHER DATA CONTAINED HEREIN ARE SUBJECT TO REVIEW PRIOR TO INCLUSION IN OUR PROJECT REPORT(S). THE INFORMATION PROVIDED DOES NOT CONSTITUTE AN ENGINEERING EVALUATION OR OPINION REGARDING THE SUITABILITY OF THE SUBJECT WORK OR MATERIALS. IF YOU HAVE ANY QUESTIONS OR REQUIRE CLARIFICATION, PLEASE CONTACT AGEC AT THE PHONE NUMBER PROVIDED BELOW.



FILL OBSERVATION AND TESTING REPORT

Applied GeoTech

PROJECT NAME: Alton Coal Mine
 PROJECT NO.: 200104 DATE: 10/10/01
 DESCRIPTION OF LOCATION: Alton

NUCLEAR GAUGE: SERIAL NO. 10005 MODEL NO. 3002
 CALIBRATION DATE: 10/10/01
 STANDARD COUNTS: DENSITY: 760 MOISTURE: 100
 PAGE: 1 of 1

TEST ID	CODE <small>Per back of form</small>	LOCATION	TEST		LABORATORY			FIELD					Retest Needed
			Depth (Inches)	Elevation (Feet)	Proctor ID	MDD (PCF)	OMC (%)	Density		Moisture Content	Compaction %		
								Wet	Dry		Field	Spec.	
1		1' Sub to L E	10'	FG	A	1395	5.5		130.7	4.1	93	40	N
2		1' R. 1' R. E	1'	1'	1	1	1		132.7	4.5	95	1	1
3		1' Sub to L E	5'	PZ	B	1760	11.0		110.2	17.7	91	30	N
4		1' R. E	1'	1'	1	1	1		111.9	11.9	93	1	1
5		1' Q E	6'	FG	A	1395	5.5		77.1	4.8	91	1	N
6		1' R. E	1'	1'	1	1	1		131.7	5.0	94	1	1
7		1' Sub to L E	1'	1'	1	1	1		128.7	4.8	91	1	N
8		1' Sub to L E	1'	1'	1	1	1		127.5	4.7	91	1	1

Remarks: Fill is compacted
As per spec BE 1000000
 Testing Requested By: _____

 FIELD OBSERVER REVIEWED BY

Proctor ID	ASTM Test Method	Soil Description
A	D1557	1/2" RIM shank pile
B	"	3/4" Sand

This report presents opinions formed as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgement. Test data are not the sole basis for opinions on whether the fill meets specifications.

The services referred to herein were performed in accordance with the standard of care practiced locally for the referenced method(s) and relate only to the condition(s)

PROJECT: Alton Coal Mine
Alton

PROJECT NUMBER: 7101184

CONTRACTOR: Alton Coal Development LLC

DATE: 1-26-11

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry

PERMIT NUMBER: _____

P.O. NUMBER: _____

MILEAGE TO PROJECT SITE: _____

SITE VISITS:
START TIME: 6:30 AM / PM FINISH TIME: _____ AM / PM
START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:

Cloudy Partly Cloudy Clear
 Rain Snow

Temperature Range: 30 ° F to 40 ° F

Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	NON-COMPLIANCE ITEM(S) FOLLOW UP: <input type="checkbox"/> YES / <input type="checkbox"/> NO
Reinforced Concrete	_____	Concrete Cores	_____	Grout Mix # _____ Req. psi _____	
Sample Pick-up	_____	Grout Samples	_____	Mortar Type <u>N / S / M</u> Req. psi _____	ORIGINAL DATE: _____
Soils	_____	Masonry Prisms	_____	Prisms <u>Hollow / Grouted</u> Req. psi _____	
Structural Masonry	_____	Mortar Samples	_____		
Structural Steel	_____	Soil Series	_____		
	_____	Soil Series	_____		
Total Hrs.	_____		_____		

Observations: AGEC was on site as requested to perform
in place density tests on Facility Rd Sta 9100 to Sta 10100.
Finish grade soil is 1 1/2" min BLM stockpile. Tests met job
spec.
Density tests on wash basin pad south half 1 below
finish grade. Soil is 1 1/2" min BLM. Tests met job spec.
Density tests on coal pad, North half finish grade.
Soil is 1 1/2" min BLM. Tests met job spec. Verry Johnson
with Alton Coal Development was given results.

RECEIVED BY _____ COMPANY _____

Robert Reid
CONSTRUCTION OBSERVER

161240
CERTIFICATION NUMBER

Reviewed by: _____

Date: _____

THIS FIELD MEMO CONTAINS INFORMATION RELATED TO THE REFERENCED PROJECT. THE INFORMATION CONTAINED HEREIN SHOULD BE CONSIDERED PRELIMINARY. ALL TEST RESULTS OR OTHER DATA CONTAINED HEREIN ARE SUBJECT TO REVIEW PRIOR TO INCLUSION IN OUR PROJECT REPORT(S). THE INFORMATION PROVIDED DOES NOT CONSTITUTE AN ENGINEERING EVALUATION OR OPINION REGARDING THE SUITABILITY OF THE SUBJECT WORK OR MATERIALS. IF YOU HAVE ANY QUESTIONS OR REQUIRE CLARIFICATION, PLEASE CONTACT AGEC AT THE PHONE NUMBER PROVIDED BELOW.



FILL OBSERVATION AND TESTING REPORT

Applied GeoTech

PROJECT NAME: Allen Road Main

NUCLEAR GAUGE: SERIAL NO 20202 MODEL NO. 3442

PROJECT NO: 210114 DATE: 1-20-11

CALIBRATION DATE: 10-24-10

DESCRIPTION OF LOCATION: Allen

STANDARD COUNTS: DENSITY: 7160 MOISTURE: 7.33

PAGE: _____ of _____

TEST ID	CODE <small>Per back of form</small>	LOCATION	TEST		LABORATORY			FIELD					
			Depth (Inches)	Elevation (Feet)	Proctor ID	MDD (PCF)	OMC (%)	Density		Moisture Content	Compaction %		Retest Needed
								Wet	Dry		Field	Spec.	
1	15	Point 21.76 400 P 9	6"	FG	A	1395	5.5	134.4	5.6	96	90	N	
2	1	74 30 6 P 9	1	1	1	1	1	122.4	6.3	91	1	1	
3	1	74 40 8 L 9	1	1	1	1	1	126.1	4.8	90	1	1	
4	1A	30 S 40 E 25 SW Rd corner	6"	516	A	1395	5.5	126.7	4.8	91	90	N	
5	1	104 30 S 100 E 100' Rd	1	1	1	1	1	129.9	5.3	93	1	1	
6	1A	30 S 50 E 10' SW NW corner	6"	FG	A	1395	5.5	130.0	4.6	93	90	N	
7	1	15 S 130 E	1	1	1	1	1	129.5	4.8	93	1	1	
8	1	40 S 700 E	1	1	1	1	1	133.5	4.3	96	1	1	
9	1	80 S 180 E	1	1	1	1	1	127.1	4.7	91	1	1	
10	1	70 S 100 E	1	1	1	1	1	127.5	4.7	91	1	1	
11	1	100 S 75 E	1	1	1	1	1	130.2	4.1	93	1	1	

Remarks: A=10111C

Testing Requested By: _____

P. P. J.
FIELD OBSERVER

REVIEWED BY

Proctor ID	ASTM Test Method	Soil Description
A	D1557	1/2" BLM stock p. 1/2"

This report presents opinions formed as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgement. Test data are not the sole basis for opinions on whether the fill meets specifications.

The services referred to herein were performed in accordance with the standard of care practiced locally for the referenced method(s) and relate only to the condition(s)



Applied Geotechnical
Engineering Consultants, Inc.

DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: North Canyon

PROJECT NUMBER: 2101004

CONTRACTOR: Agge Construction

DATE: 10/22/11

- SERVICES REQUESTED:
- Soils
 - Reinforced Concrete
 - Structural Steel
 - Concrete
 - Asphalt
 - Fireproofing
 - Masonry
 - _____

PERMIT NUMBER: _____

P.O. NUMBER: _____

SITE VISITS:

START TIME: 7:00 AM / PM FINISH TIME: _____ AM / PM

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:

Cloudy Partly Cloudy Clear

Rain Snow _____

Temperature Range: 50° F to 60° F

Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	NON-COMPLIANCE ITEM(S) FOLLOW UP: <input type="checkbox"/> YES / <input type="checkbox"/> NO
Reinforced Concrete	_____	Concrete Cores	_____	Grout Mix # _____ Req. psi _____	
Sample Pick-up	_____	Grout Samples	_____	Mortar Type _____ N / S / M Req. psi _____	ORIGINAL DATE: _____
Soils	_____	Masonry Prisms	_____	Prisms _____ Hollow / Grouted Req. psi _____	
Structural Masonry	_____	Mortar Samples	_____		
Structural Steel	_____	Soil Series	_____		
	_____	Soil Series	_____		
Total Hrs.	_____		_____		

Observations: Discussed with Agge Construction on site regarding the test results for the concrete and grout samples. The results are within the required strength ranges. No further action is required at this time.

RECEIVED BY _____ COMPANY _____

AGEC CONSTRUCTION OBSERVER: Michael P. Smith CERTIFICATION NUMBER: 101170

Reviewed by: _____ Date: _____

03/05/2007

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 1420 South 270 East • St. George, Utah 84790 • (435) 673-6850 • FAX (435) 673-1044
 429 North 2150 West, Suite 1 • Cedar City, Utah 84721 • (435) 586-8387 • FAX (435) 586-8582



Applied Geotechnical
Engineering Consultants, Inc.

DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: Alma Coal Development

PROJECT NUMBER: 210004

CONTRACTOR: Northwest Development

DATE: 9/20/11

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry _____

PERMIT NUMBER: _____

P.O. NUMBER: _____

NA/CAL

SITE VISITS:

START TIME: 7:00 AM / PM FINISH TIME: _____ AM / PM

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:

Cloudy Partly Cloudy Clear

Rain Snow _____

Temperature Range: 60 to 65 ° F

Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____		<input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	
Reinforced Concrete	_____	Concrete Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Sample Pick-up	_____	Grout Samples	_____	Grout Mix # _____ Req. psi _____	
Soils	_____	Masonry Prisms	_____	Mortar Type <u>N / S / M</u> Req. psi _____	ORIGINAL DATE: _____
Structural Masonry	_____	Mortar Samples	_____	Prisms <u>Hollow / Grouted</u> Req. psi _____	
Structural Steel	_____	Soil Series	_____		
Total Hrs.	_____	Soil Series	_____		

Observations: PERFORMED IN PLACE DENSITY TESTS ON T. AND OTHER SERVICES. LOCATION 1

2. LOCATION INFO OBTAINED VIA GPS. AREA V. 1 / ALMA COAL DEVELOPMENT, ST. GEORGE, UTAH

WHAT WOULD YOU DO TO CORRECT THIS ISSUE?

RECEIVED BY _____ COMPANY _____

W. D. Thomas
AGEC CONSTRUCTION OBSERVER

101428
CERTIFICATION NUMBER

Reviewed by: _____

Date: _____

03/05/2007

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Applied Geotechnical
Engineering Consultants, Inc.

DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: Armed Guard House

PROJECT NUMBER: 211154

CONTRACTOR: Armed Guard Detachment

DATE: 9/19/11

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry _____

PERMIT NUMBER: _____

P.O. NUMBER: _____

SITE VISITS:
START TIME: 7:00 AM / PM FINISH TIME: _____ AM / PM
START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:
 Cloudy Partly Cloudy Clear
 Rain Snow _____
Temperature Range: 80.9° F to 65° F
Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	NON-COMPLIANCE ITEM(S) FOLLOW UP: <input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Reinforced Concrete	_____	Concrete Cores	_____	Grout Mix # _____ Req. psi _____	
Sample Pick-up	_____	Grout Samples	_____	Mortar Type <u>N / S / M</u> Req. psi _____	ORIGINAL DATE: _____
Soils	_____	Masonry Prisms	_____	Prisms <u>Hollow / Grouted</u> Req. psi _____	
Structural Masonry	_____	Mortar Samples	_____		
Structural Steel	_____	Soil Series	_____		
Total Hrs.	_____		_____		

Observations: Performed in place density tests on the concrete. Results & location were noted via GPS. Area King of Armed Guard Detachment. Work was performed on 9/19/11.

RECEIVED BY _____ COMPANY _____
AGEC CONSTRUCTION OBSERVER: Scott Thomas CERTIFICATION NUMBER: 101928
Reviewed by: _____ Date: _____

03/05/2007

THIS FIELD MEMO CONTAINS INFORMATION RELATED TO THE REFERENCED PROJECT. THE INFORMATION CONTAINED HEREIN SHOULD BE CONSIDERED PRELIMINARY. ALL TEST RESULTS OR OTHER DATA CONTAINED HEREIN ARE SUBJECT TO REVIEW PRIOR TO INCLUSION IN OUR PROJECT REPORT(S). THE INFORMATION PROVIDED DOES NOT CONSTITUTE AN ENGINEERING EVALUATION OR OPINION REGARDING THE SUITABILITY OF THE SUBJECT WORK OR MATERIALS. IF YOU HAVE ANY QUESTIONS OR REQUIRE CLARIFICATION, PLEASE CONTACT AGEC AT THE PHONE NUMBER PROVIDED BELOW.

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Applied GeoTech

FILL OBSERVATION AND TESTING REPORT

PROJECT NAME: ALTON COAL MINE

NUCLEAR GAUGE: SERIAL NO. _____ MODEL NO. _____

PROJECT NO.: 2100-1 DATE: 11/11/07

CALIBRATION DATE: _____

DESCRIPTION OF LOCATION: _____

STANDARD COUNTS: DENSITY: 7246 MOISTURE: 97

PAGE: _____ of _____

TEST ID	CODE Per back of form	LOCATION	TEST		LABORATORY			FIELD					
			Depth (Inches)	Elevation (Feet)	Proctor ID	MDD (PCF)	OMC (%)	Density		Moisture Content	Compaction %		Retest Needed
								Wet	Dry		Field	Spec.	
1-3-74			6"		1	100	100	7	70	112	17	05	1
2-3-74			12"		1	100	100	7	70	112	17	05	1
3-3-74			18"		1	100	100	7	70	112	17	05	1
4-3-74			24"		1	100	100	7	70	112	17	05	1
5-3-74			30"		1	100	100	7	70	112	17	05	1
6-3-74			36"		1	100	100	7	70	112	17	05	1
7-3-74			42"		1	100	100	7	70	112	17	05	1
8-3-74			48"		1	100	100	7	70	112	17	05	1
9-3-74			54"		1	100	100	7	70	112	17	05	1
10-3-74			60"		1	100	100	7	70	112	17	05	1

Remarks: 10' PLAZA
24' 6" 10' 10' 10'
 Testing Requested By: _____
 FIELD OBSERVER: _____ REVIEWED BY: _____

Proctor ID	ASTM Test Method	Soil Description
1	100	100

This report presents opinions formed as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgement. Test data are not the sole basis for opinions on whether the fill meets specifications.

The services referred to herein were performed in accordance with the standard of care practiced locally for the referenced method(s) and relate only to the condition(s)

PROJECT NAME: Altamont Coal Mine
 PROJECT NO.: 31001 DATE: 11/15/07
 DESCRIPTION OF LOCATION: Area 1

NUCLEAR GAUGE: SERIAL NO. _____ MODEL NO. _____
 CALIBRATION DATE: _____
 STANDARD COUNTS: DENSITY: 73.0% MOISTURE: 2.9%
 PAGE: _____ of _____

TEST ID	CODE <small>Per back of form</small>	LOCATION	TEST		LABORATORY			FIELD						
			Depth (Inches)	Elevation (Feet)	Proctor ID	MDD (PCF)	OMC (%)	Density		Moisture Content	Compaction %		Retest Needed	
								Wet	Dry		Field	Spec.		
1-3-74			15"		A	73.0	12.6	73.0	12.6	73.0	12.6	73.0	12.6	
2-3-74			15"		A	73.0	12.6	73.0	12.6	73.0	12.6	73.0	12.6	
3-3-74			15"		A	73.0	12.6	73.0	12.6	73.0	12.6	73.0	12.6	
4-3-74			15"		A	73.0	12.6	73.0	12.6	73.0	12.6	73.0	12.6	
5-3-74			15"		A	73.0	12.6	73.0	12.6	73.0	12.6	73.0	12.6	
6-3-74			15"		A	73.0	12.6	73.0	12.6	73.0	12.6	73.0	12.6	

Remarks: A) 11/15/07
31001 Coal Mine

Testing Requested By: _____

 FIELD OBSERVER

Proctor ID	ASTM Test Method	Soil Description
A)	7	Clay

REVIEWED BY _____

This report presents opinions formed as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgement. Test data are not the sole basis for opinions on whether the fill meets specifications.

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DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: San Juan County, New Mexico

PROJECT NUMBER: 2101124

CONTRACTOR: AGC

DATE: 11/23/02

PERMIT NUMBER: _____

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry _____

P.O. NUMBER: _____

MILEAGE TO PROJECT SITE: _____

SITE VISITS:

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:

Cloudy Partly Cloudy Clear

Rain Snow _____

Temperature Range: _____ ° F to _____ ° F

Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	
Reinforced Concrete	_____	Concrete Cores	_____	Grout Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Sample Pick-up	_____	Grout Samples	_____	Mortar Type _____ N / S / M Req. psi _____	
Soils	_____	Masonry Prisms	_____	Prisms _____ Hollow / Grouted Req. psi _____	ORIGINAL DATE: _____
Structural Masonry	_____	Mortar Samples	_____		
Structural Steel	_____	Soil Series	_____		
	_____	Soil Series	_____		
Total Hrs.	_____				

Observations: Area was inspected for concrete strength and quality. No deficiencies noted.

11/23/02

San Juan County, New Mexico

[Signature]
RECEIVED BY COMPANY

[Signature]
CONSTRUCTION OBSERVER

[Signature]
CERTIFICATION NUMBER

Reviewed by: _____

Date: _____

THIS FIELD MEMO CONTAINS INFORMATION RELATED TO THE REFERENCED PROJECT. THE INFORMATION CONTAINED HEREIN SHOULD BE CONSIDERED PRELIMINARY. ALL TEST RESULTS OR OTHER DATA CONTAINED HEREIN ARE SUBJECT TO REVIEW PRIOR TO INCLUSION IN OUR PROJECT REPORT(S). THE INFORMATION PROVIDED DOES NOT CONSTITUTE AN ENGINEERING EVALUATION OR OPINION REGARDING THE SUITABILITY OF THE SUBJECT WORK OR MATERIALS. IF YOU HAVE ANY QUESTIONS OR REQUIRE CLARIFICATION, PLEASE CONTACT AGEC AT THE PHONE NUMBER PROVIDED BELOW.



FILL OBSERVATION AND TESTING REPORT

Applied GeoTech

PROJECT NAME: Coxe Hollow - Interchange
 PROJECT NO.: 210904 DATE: 1-25-12
 DESCRIPTION OF LOCATION: Area

NUCLEAR GAUGE: SERIAL NO 29351 MODEL NO. 3110
 CALIBRATION DATE: March 1, 2012
 STANDARD COUNTS: DENSITY: 2339 MOISTURE: 6.43

PAGE: 1 of 1

TEST ID	CODE Per back of form	LOCATION	TEST		LABORATORY			FIELD					
			Depth (Inches)	Elevation (Feet)	Proctor ID	MDD (PCF)	OMC (%)	Density		Moisture Content	Compaction %		Retest Needed
								Wet	Dry		Field	Spec.	
1		N 37° 23.749' W 112° 27.610' 6897.6	6		100	110	7	139	130	70	35	72	
2		N 37° 23.749' W 112° 27.589' 6896.2						71.5	132	36			
3		N 37° 23.736' W 112° 27.581' 6896.0						113	143	90			
4		N 37° 23.722' W 112° 27.574' 6900.5						124	159	91			
5		N 37° 23.709' W 112° 27.563' 6900.5						126	159	39			
6		N 37° 23.705' W 112° 27.580' 6899.7						125	142	35			
7		N 37° 23.703' W 112° 27.599' 6898.6						124	143	39			
8		N 37° 23.717' W 112° 27.603' 6899.2						124	140	70			
9		N 37° 23.716' W 112° 27.586' 6900.2						121	134	73			
10		N 37° 23.787' W 112° 27.516' 6882.6						121	130	39			
11		N 37° 23.779' W 112° 27.501' 6884.8						129	134	33			
12		N 37° 23.769' W 112° 27.493' 6889.4						121	140	39			
13		N 37° 23.758' W 112° 27.482' 6891.8						127	130	70			
14		N 37° 23.741' W 112° 27.478' 6891.8						128	137	44			
15		N 37° 23.733' W 112° 27.491' 6891.3						126	132	72			
16		N 37° 23.742' W 112° 27.502' 6890.2						110	147	73			
17		N 37° 23.751' W 112° 27.492' 6891.1						124	130	97			
18		N 37° 23.761' W 112° 27.506' 6890.9						129	143	74			

Remarks: (A) - 112-27.4

Testing Requested By: _____

J. A. Thompson

FIELD OBSERVER

REVIEWED BY

Proctor ID	ASTM Test Method	Soil Description
100	D-1559	2.0% Clay

This report presents opinions formed as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgement. Test data are not the sole basis for opinions on whether the fill meets specifications.

The services referred to herein were performed in accordance with the standard of care practiced locally for the referenced method(s) and relate only to the condition(s)



Applied Geotechnical
Engineering Consultants, Inc.

DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: Construction of 1000' x 1000' foundation

PROJECT NUMBER: 24434

DATE: 6/9/12

CONTRACTOR: AGEC Construction

PERMIT NUMBER: _____

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry _____

P.O. NUMBER: _____

SITE VISITS:
 START TIME: 7:00 AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:
 Cloudy Partly Cloudy Clear
 Rain Snow _____
 Temperature Range: 50 ° F to 70 ° F
 Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____ Conc. Mix # _____ Req. psi _____ Grout Mix # _____ Req. psi _____ Mortar Type _____ N / S / M Req. psi _____ Prisms _____ Hollow / Grouted Req. psi _____	<input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____		NON-COMPLIANCE ITEM(S) FOLLOW UP:
Reinforced Concrete	_____	Concrete Cores	_____		<input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Sample Pick-up	_____	Grout Samples	_____		ORIGINAL DATE:
Soils	_____	Masonry Prisms	_____		_____
Structural Masonry	_____	Mortar Samples	_____		_____
Structural Steel	_____	Soil Series	_____		_____
Total Hrs.	_____	Soil Series	_____		_____

Observations: Performed 1000' x 1000' foundation inspection. The site was inspected by Joe King and I. We used GPS to locate the foundation. The foundation was found to be in good condition. There were no signs of settlement or other issues. The foundation was found to be in good condition. There were no signs of settlement or other issues. The foundation was found to be in good condition. There were no signs of settlement or other issues.

RECEIVED BY _____ COMPANY _____
 AGEC CONSTRUCTION OBSERVER: Joe King
 CERTIFICATION NUMBER: 10428
 Reviewed by: _____ Date: _____

03/05/2007

THIS FIELD MEMO CONTAINS INFORMATION RELATED TO THE REFERENCED PROJECT. THE INFORMATION CONTAINED HEREIN SHOULD BE CONSIDERED PRELIMINARY. ALL TEST RESULTS OR OTHER DATA CONTAINED HEREIN ARE SUBJECT TO REVIEW PRIOR TO INCLUSION IN OUR PROJECT REPORT(S). THE INFORMATION PROVIDED DOES NOT CONSTITUTE AN ENGINEERING EVALUATION OR OPINION REGARDING THE SUITABILITY OF THE SUBJECT WORK OR MATERIALS. IF YOU HAVE ANY QUESTIONS OR REQUIRE CLARIFICATION, PLEASE CONTACT AGEC AT THE PHONE NUMBER PROVIDED BELOW.

600 West Sandy Parkway • Sandy, Utah 84070 • (801) 566-6399 • FAX (801) 566-6493
 1420 South 270 East • St. George, Utah 84790 • (435) 673-6850 • FAX (435) 673-1044
 429 North 2150 West, Suite 1 • Cedar City, Utah 84721 • (435) 586-8387 • FAX (435) 586-8582

DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: West Valley Community Center PROJECT NUMBER: 712484

CONTRACTOR: Miller Construction DATE: 3-6-05

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel PERMIT NUMBER: _____

Concrete Asphalt Fireproofing P.O. NUMBER: _____

Masonry _____ MILEAGE TO PROJECT SITE: _____

SITE VISITS:

START TIME: 7:30 AM / PM FINISH TIME: _____ AM / PM

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER: Cloudy Partly Cloudy Clear

Rain Snow _____

Temperature Range: 40 ° F to 50 ° F

Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input checked="" type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	NON-COMPLIANCE ITEM(S) FOLLOW UP:
Reinforced Concrete	_____	Concrete Cores	_____	Grout Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Sample Pick-up	_____	Grout Samples	_____	Mortar Type _____ N / S / M Req. psi _____	ORIGINAL DATE: _____
Soils	_____	Masonry Prisms	_____	Prisms _____ Hollow / Grouted Req. psi _____	
Structural Masonry	_____	Mortar Samples	_____		
Structural Steel	_____	Soil Series	_____		
	_____	Soil Series	_____		
Total Hrs.	_____		_____		

Observations: Work was on site as requested to perform a phase
density tests on ~~state~~ soils site B + D and the
shovel road surface pile B/C. Elevation is noted on
soils form soil is sandy loam clay. Tests were lab spec.
for soil after that Development was given results.

RECEIVED BY _____ COMPANY _____ CONSTRUCTION OBSERVER: Robert Reid CERTIFICATION NUMBER: 15720

Reviewed by: _____ Date: _____

03/05/2007

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FILL OBSERVATION AND TESTING REPORT

Applied GeoTech

PROJECT NAME: 600 West Sandy Parkway
 PROJECT NO.: 700154 DATE: 8/15
 DESCRIPTION OF LOCATION: _____

NUCLEAR GAUGE: SERIAL NO. 150 MODEL NO. _____
 CALIBRATION DATE: _____
 STANDARD COUNTS: DENSITY: 150 MOISTURE: 15

PAGE: _____ of _____

TEST ID	CODE <small>Per back of form</small>	LOCATION	TEST		LABORATORY			FIELD					
			Depth (inches)	Elevation (Feet)	Proctor ID	MDD (PCF)	OMC (%)	Density		Moisture Content	Compaction %		Retest Needed
								Wet	Dry		Field	Spec.	
1	74	600 West Sandy Parkway	8	2.0	1	115	11	150	15	100	90	No	
2		50 West Sandy Parkway						100	15	90			
3		60 West Sandy Parkway						100	15	90			
4		60 West Sandy Parkway						100	15	90			
5		60 West Sandy Parkway						100	15	90			
6		60 West Sandy Parkway						100	15	90			
7		60 West Sandy Parkway						100	15	90			
8	7	37/21/4.00 4/17/1.00	8	2.0	1	115	15	150	15	90	85		
9		37/21/4.00 4/17/1.00						100	15	90			
10		37/21/4.00 4/17/1.00						100	15	90			
11		37/21/4.00 4/17/1.00	6	2.0				100	15	90			
12		37/21/4.00 4/17/1.00	6	2.0				100	15	90			
13		37/21/4.00 4/17/1.00	6	2.0				100	15	90			
14		37/21/4.00 4/17/1.00	8	2.0				100	15	90			

Remarks: 1.00/100 100/100
MC 100/100
 Testing Requested By: _____
 FIELD OBSERVER: _____ REVIEWED BY: _____

Proctor ID	ASTM Test Method	Soil Description

This report presents opinions formed as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgement. Test data are not the sole basis for opinions on whether the fill meets specifications.

The services referred to herein were performed in accordance with the standard of care practiced locally for the referenced method(s) and relate only to the condition(s)

DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: Coalition for US and 9/11
Project

PROJECT NUMBER: 2161-01

CONTRACTOR: Airport Development

DATE: 5/15/13

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry _____

PERMIT NUMBER: _____

P.O. NUMBER: _____

MILEAGE TO PROJECT SITE: 111

SITE VISITS:
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:
 Cloudy Partly Cloudy Clear
 Rain Snow _____
 Temperature Range: 90 ° F to 75 ° F
 Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____		<input type="checkbox"/> YES / <input type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	
Reinforced Concrete	_____	Concrete Cores	_____	Conc. Mix # _____ Req. psi _____	NON-COMPLIANCE ITEM(S) FOLLOW UP: <input type="checkbox"/> YES / <input type="checkbox"/> NO
Sample Pick-up	_____	Grout Samples	_____	Grout Mix # _____ Req. psi _____	
Soils	_____	Masonry Prisms	_____	Mortar Type <u>N / S / M</u> Req. psi _____	ORIGINAL DATE: _____
Structural Masonry	_____	Mortar Samples	_____	Prisms <u>Hollow / Grouted</u> Req. psi _____	
Structural Steel	_____	Soil Series	_____		
_____	_____	Soil Series	_____		
Total Hrs.	_____				

Observations: AGEC was on site as required to perform in place density tests
at 100' ± to base of pile and 10' above. 10' - 15' - 20' - 25' - 30' - 35' - 40' - 45' - 50' - 55' - 60' - 65' - 70' - 75' - 80' - 85' - 90' - 95' - 100'
to get 100% of 100' ± to base of pile. 10' - 15' - 20' - 25' - 30' - 35' - 40' - 45' - 50' - 55' - 60' - 65' - 70' - 75' - 80' - 85' - 90' - 95' - 100'
was done. No problems were found. All tests were successful.

RECEIVED BY: _____ COMPANY: _____ CONSTRUCTION OBSERVER: Carol Taylor CERTIFICATION NUMBER: 161450
 Reviewed by: _____ Date: _____

03/05/2007

THIS FIELD MEMO CONTAINS INFORMATION RELATED TO THE REFERENCED PROJECT. THE INFORMATION CONTAINED HEREIN SHOULD BE CONSIDERED PRELIMINARY. ALL TEST RESULTS OR OTHER DATA CONTAINED HEREIN ARE SUBJECT TO REVIEW PRIOR TO INCLUSION IN OUR PROJECT REPORT(S). THE INFORMATION PROVIDED DOES NOT CONSTITUTE AN ENGINEERING EVALUATION OR OPINION REGARDING THE SUITABILITY OF THE SUBJECT WORK OR MATERIALS. IF YOU HAVE ANY QUESTIONS OR REQUIRE CLARIFICATION, PLEASE CONTACT AGEC AT THE PHONE NUMBER PROVIDED BELOW.

DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: 1000 E 1000 S 1000 W 1000 N 1000 E

PROJECT NUMBER: 210164

CONTRACTOR: 1000 E 1000 S 1000 W 1000 N 1000 E

DATE: 4/20/13

PERMIT NUMBER: _____

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry _____

P.O. NUMBER: _____

MILEAGE TO PROJECT SITE: 111

SITE VISITS:
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:
 Cloudy Partly Cloudy Clear
 Rain Snow _____
 Temperature Range: _____ ° F to _____ ° F
 Winds: Strong Moderate Light Calm

TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	NON-COMPLIANCE ITEM(S) FOLLOW UP:
Reinforced Concrete	_____	Concrete Cores	_____	Conc. Mix # _____ Req. psi _____	<input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO
Sample Pick-up	_____	Grout Samples	_____	Grout Mix # _____ Req. psi _____	ORIGINAL DATE:
Soils	_____	Masonry Prisms	_____	Mortar Type <u>N / S / M</u> Req. psi _____	<u>4/20/13</u>
Structural Masonry	_____	Mortar Samples	_____	Prisms <u>Hollow / Grouted</u> Req. psi _____	
Structural Steel	_____	Soil Series	_____		
	_____	Soil Series	_____		
Total Hrs.	_____		_____		

Observations: AGEC was on site as requested to perform in-place density tests on the 1000 E 1000 S 1000 W 1000 N 1000 E. Tests and results were met job specs. Test results was reviewed and all were within spec and the results passed. Payment was left in check.

RECEIVED BY 1 COMPANY _____ CONSTRUCTION OBSERVER Christ Taylor CERTIFICATION NUMBER 16430
 Reviewed by: _____ Date: _____

03/05/2007

THIS FIELD MEMO CONTAINS INFORMATION RELATED TO THE REFERENCED PROJECT. THE INFORMATION CONTAINED HEREIN SHOULD BE CONSIDERED PRELIMINARY. ALL TEST RESULTS OR OTHER DATA CONTAINED HEREIN ARE SUBJECT TO REVIEW PRIOR TO INCLUSION IN OUR PROJECT REPORT(S). THE INFORMATION PROVIDED DOES NOT CONSTITUTE AN ENGINEERING EVALUATION OR OPINION REGARDING THE SUITABILITY OF THE SUBJECT WORK OR MATERIALS. IF YOU HAVE ANY QUESTIONS OR REQUIRE CLARIFICATION, PLEASE CONTACT AGEC AT THE PHONE NUMBER PROVIDED BELOW.

FILL OBSERVATION AND TESTING REPORT

PROJECT NAME: 600 West Sandy Parkway
 PROJECT NO.: 200904 DATE: 6/25/13
 DESCRIPTION OF LOCATION: Area

NUCLEAR GAUGE: SERIAL NO. 3177 MODEL NO.
 CALIBRATION DATE:
 STANDARD COUNTS: DENSITY: 31 MOISTURE: 19
 PAGE: 2 of 2

TEST ID	CODE <small>Per back of form</small>	LOCATION	TEST		LABORATORY			FIELD					
			Depth (Inches)	Elevation (Feet)	Proctor ID	MDD (PCF)	OMC (%)	Density		Moisture Content	Compaction %		Reast. Needed
								Wet	Dry		Field	Spec.	
21		350 W. SANDY PKWY. 10' N. OF 1000	5	3.4	A	12.4	11	10.1	10.5	19	91	10	N
22		425 W. SANDY PKWY. 10' N. OF 1000		4.2				10.8	14	19			
23		500 W. SANDY PKWY. 10' N. OF 1000		3.0				12.1	14	19			
24		575 W. SANDY PKWY. 10' N. OF 1000		1.7				10.3	15.8	19			
25		650 W. SANDY PKWY. 10' N. OF 1000	6	1.0				1.4	1.5	19			
26		725 W. SANDY PKWY. 10' N. OF 1000	8	1.6				1.3	1.6	19			
27		800 W. SANDY PKWY. 10' N. OF 1000	1	2.0				10.9	11	19			

Remarks: A 10' N. OF 1000
10' N. OF 1000

Testing Requested By: _____

Proctor ID	ASTM Test Method	Soil Description
A	2007	10' N. OF 1000 (A)

FIELD OBSERVER: _____ REVIEWED BY: _____

This report presents opinions formed as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgement. Test data are not the sole basis for opinions on whether the fill meets specifications.

The services referred to herein were performed in accordance with the standard of care practiced locally for the referenced method(s) and relate only to the condition(s)



Applied GeoTech

FILL OBSERVATION AND TESTING REPORT

PROJECT NAME: Greenwood
 PROJECT NO.: 2000 DATE: 4/25/13
 DESCRIPTION OF LOCATION: 100

NUCLEAR GAUGE: SERIAL NO. 100 MODEL NO. 3-30
 CALIBRATION DATE: 1/27/13
 STANDARD COUNTS: DENSITY: 1500 MOISTURE: 67
 PAGE: of

TEST ID	LOCATION		TEST		LABORATORY			FIELD					
	CODE <small>Per back of form</small>		Depth (Inches)	Elevation (Feet)	Proctor ID	MDD (PCF)	OMC (%)	Density		Moisture Content	Compaction %		Retest Needed
								Wet	Dry		Field	Spec.	
1	24	SE corner of DN	6	10.0	A	11.5	11	103.4	13.5	96	90	No	
2		15 S. W. of NE cor.	6					104.5	12.3	91			
3		130 W. 2 N of NE cor.	6					104.7	12.5	90			
4		150 W. 8 S of NE cor.	6					104.3	12.7	91			
5		75 W. 2 S of SE cor.	6					106.5	12.1	93			
6		240 W 5 S of SE cor.	6					104	12.8	91			
7		340 W 5 S of SE cor.	6					96.9	2.3	85		Yes	
8		400 W 4 S of SE cor.	6					102.2	21.2	90		No	
9		475 W 10 S of SE cor.	6					103.3	15.1	90		1	
10		550 W 7 S of SE cor.	6					96.2	16.8	84		Yes	
11		800 W 5 (10) S of SE cor.	6					104.1	12.0	91		No	
12		550 W 4 NE cor 5 N of cor.	6					104.7	12.1	91			
13		475 W 15 S of NE cor.	6					114.3	8	100			
14		400 W 10 S of NE cor.	6					115	15.5	97			
15		375 W 5 S of NE cor.	6					128	14.8	94			
16		290 W 6 S of NE cor.	6					102	20.6	70			

Remarks: As 10/10/13
24-10

Testing Requested By: Chris Taylor

Proctor ID	ASTM Test Method	Soil Description
A	D930	CL

FIELD OBSERVER

REVIEWED BY

This report presents opinions formed as a result of our observation of fill placement. We have relied on the contractor to continue applying the recommended compactive effort and moisture to the fill during times our observer is not observing operations. Tests are made of the fill only as believed necessary to calibrate our observer's judgement. Test data are not the sole basis for opinions on whether the fill meets specifications.

The services referred to herein were performed in accordance with the standard of care practiced locally for the referenced method(s) and relate only to the condition(s)

575-4269

DAILY REPORT OF OBSERVATIONS, SPECIAL INSPECTION and TESTING

PROJECT: Coal Mine - 1st level - 2nd level - 3rd level

PROJECT NUMBER: 2-01184

CONTRACTOR: Mr. C. D. ...

DATE: 6-23-3

SERVICES REQUESTED: Soils Reinforced Concrete Structural Steel
 Concrete Asphalt Fireproofing
 Masonry _____

PERMIT NUMBER: _____

P.O. NUMBER: _____

MILEAGE TO PROJECT SITE: 77

SITE VISITS:
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM
 START TIME: _____ AM / PM FINISH TIME: _____ AM / PM

WEATHER:
 Cloudy Partly Cloudy Clear
 Rain Snow _____
 Temperature Range: 35 ° F to 45 ° F
 Winds: Strong Moderate Light Calm

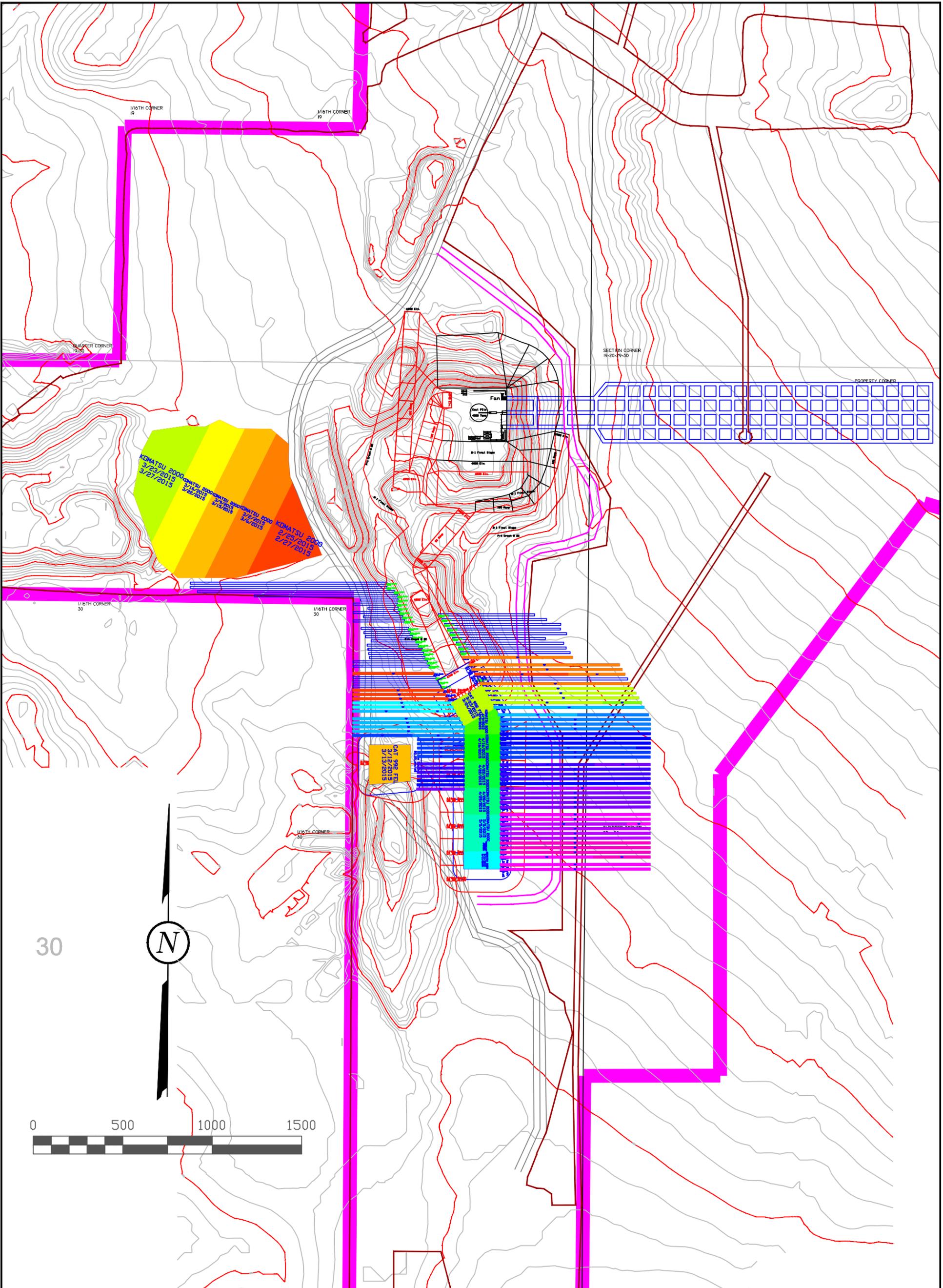
TYPE OF SERVICE:	HRS	MATERIAL SAMPLED:	QTY.	MATERIAL DESCRIPTION:	NON-COMPLIANCE ITEM(S) THIS REPORT:
Asphalt	_____	Asphaltic Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Concrete	_____	Concrete Cylinders	_____	Conc. Mix # _____ Req. psi _____	
Reinforced Concrete	_____	Concrete Cores	_____	Conc. Mix # _____ Req. psi _____	<input type="checkbox"/> YES / <input type="checkbox"/> NO
Sample Pick-up	_____	Grout Samples	_____	Grout Mix # _____ Req. psi _____	
Soils	_____	Masonry Prisms	_____	Mortar Type <u>N / S / M</u> Req. psi _____	ORIGINAL DATE: <u>6-23-15</u>
Structural Masonry	_____	Mortar Samples	_____	Prisms <u>Hollow / Grouted</u> Req. psi _____	
Structural Steel	_____	Soil Series	_____		
_____	_____	Soil Series	_____		
Total Hrs.	_____				

Observations: AGEC was on site as required to perform a quality check on the job. The contractor Joe was in control of the work. (1st level) During the inspection, Joe was with me at job site with Joe.

RECEIVED BY: 1 COMPANY: _____ CONSTRUCTION OBSERVER: Charles Taylor CERTIFICATION NUMBER: 161430
 Reviewed by: _____ Date: _____

03/05/2007

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LEGEND:

	PERMIT BOUNDARY
	PRIVATE COAL OWNERSHIP
	COAL LINE BOUNDARY
	COAL RECOVERY
	SECTION LINE
	FOUND SECTION CORNER
	FOUND PROPERTY CORNER

DRAWN BY:	xx
DRAWING:	XX
JOB NUMBER:	XX

CHECKED BY:	xx
DATE:	xx
SCALE:	1" = 500'
SHEET	

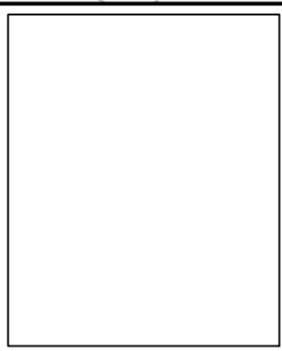
REVISIONS	
DATE:	BY:
xxx	xx

2/23/2015
 Weekly Plan - Week 9

Overview

COAL HOLLOW PROJECT
 ALTON, UTAH

DRAWING: xxx



Alton Coal Development
Coal Hollow Project

463 North 100 West, Suite 1
 Cedar City, Utah 84721
 Phone (435)867-5331
 Fax (435)867-1192