Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5311 Fax (435) 867-1192

November 20, 2019

Steve Christensen
Coal Program Manager
Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Re: **Alt. K1 Exploration Plan, Alton Coal Development, LLC, Coal Hollow Mine, Kane County, Utah, C/025/0005**

Dear Mr. Christensen:

Alton Coal Development, LLC (ACD) is submitting the enclosed exploration plan for the Alton Coal Lease UTU-81895. The exploration plan involves 19 drill site locations located in the Alton Coal Lease UTU-81895. 18 drill sites are located on BLM managed property (surface/ mineral), however one location (19DH004) is located within the existing South Private Lease (SPL) of ACD's current Coal Hollow Mine permit with the mineral rights being managed by the BLM.

ACD submitted the enclosed exploration plan to the Bureau of Land Management, Kanab Field Office (BLM-KFO) on October 9, 2019 for review and subsequent license to execute the exploration activities within their responsibility. For coordination with the BLM, the primary contact at the BLM-KFO is James Holland and he can be contacted at (435) 644-1277 or jholland@blm.gov.

Drill site location 19DH004, as stated, is sited within the SPL and will be accessed from the bonded disturbance of the permitted Coal Hollow Mine and thus falls under the responsibilities of the Division of Oil, Gas & Mining to permit.

Please do not hesitate to contact me if you have any questions 435-691-1551.

Very truly yours,

B. Kirk Nicholes
Environmental Specialist
Alton Coal Development

EXPLORATION PLAN

2019

TO ACCOMPANY AN

APPLICATION FOR A FEDERAL MINOR COAL

EXPLORATION LICENSE

Coal Hollow Mine

Kane County, Utah

Exploration Plan

10/9/2019

Alton Coal Development, LLC
Coal Hollow Project
463 N. 100 W.
Cedar City, Utah 84721
(435)867-5331

Introduction

Alton Coal Development, LLC (ACD) is hereby submitting this Application for Federal Coal Exploration License to the United States Bureau of Land Management (BLM) as required in 43 CFR 3482, in order to obtain approval to conduct minor coal exploration and reclamation activities during the summer of 2019. The type of exploration proposed will be bore hole drilling, pneumatic push probe and backhoe pit excavation. 19 drill holes are proposed for drilling in coal managed by BLM with surface management by both BLM and Private interest. Also, for the purpose of acquiring baseline information to prepare an Order II Soil Survey, a combination of up to 40 pneumatic push probe and 24 backhoe pit excavations will be performed. This plan is formatted to address the specific requirements of 43 CFR 3482.

43 CFR 3482 (3) (i)

Applicant

Alton Coal Development, LLC
Coal Hollow Project
463 N. 00 W.
Cedar City, Utah 84721
Attn: Clark Atwood
(work) 435-867-5331 (cell) 435-691-4071

The applicant is the same as the operator of the proposed exploration plan. Correspondence regarding this exploration license should be addressed to:

Clark Atwood
Alton Coal Development, LLC
Coal Hollow Project
463 N. 100 W.
Cedar City, Utah 84721
(work) 435-867-5331 (cell) 435-691-4071

At times a consulting geologist and soil scientist may act as a representative of the applicant. The BLM will be notified of the consulting soil scientist's name and address if one is used. The consulting geologist:

Erik C. Petersen, P.G.
Petersen Hydrologic, LLC
2695 North 600 East
Lehi, Utah 84043
Phone: 801-766-4006

43 CFR 3482 (3) (iii)

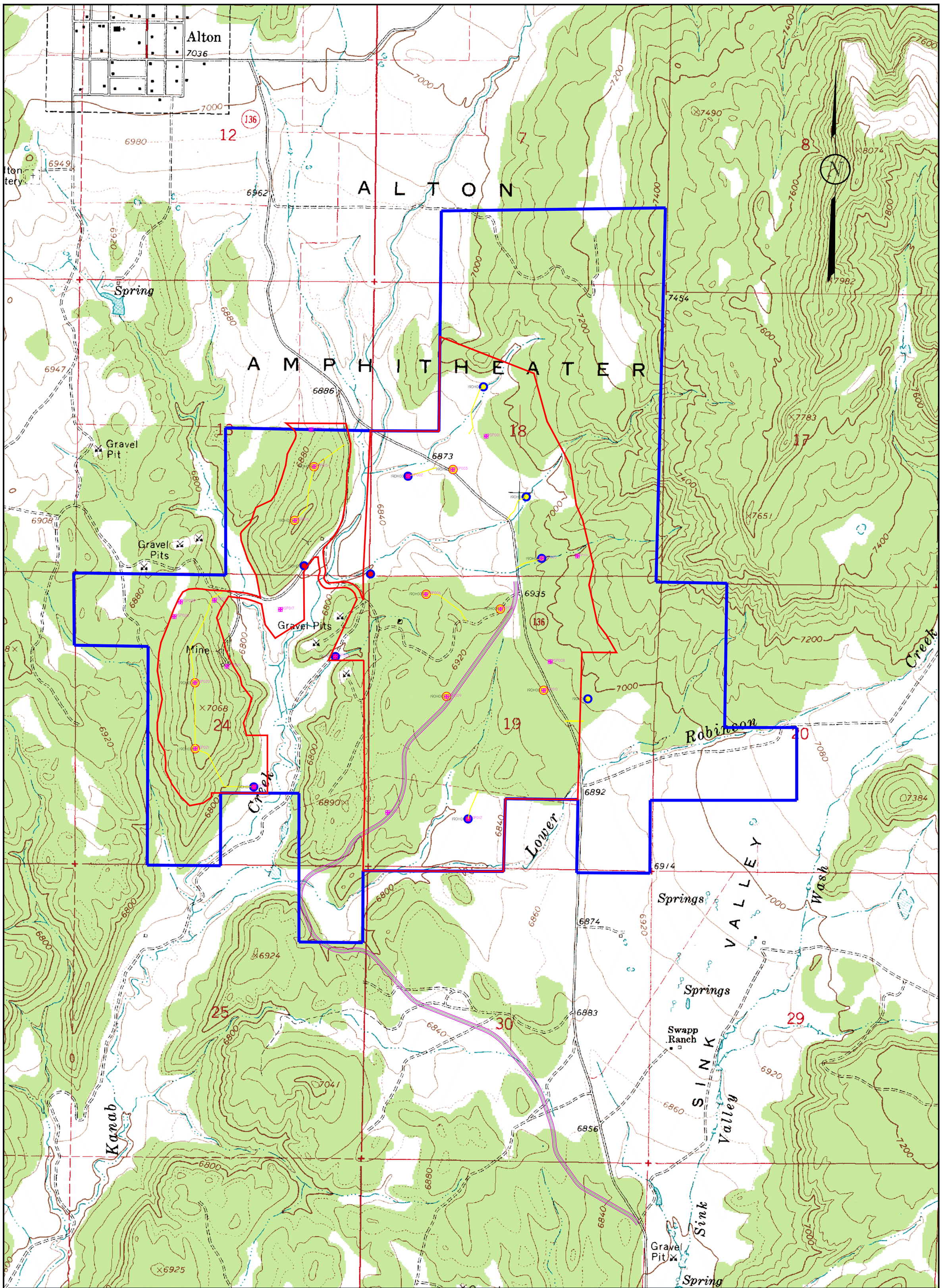
Description

The exploration plan involves Federal and Private surface and Federal coal rights in the Alton Coal Lease UTU-81895 southeast of Alton in Kane County, Utah. The required license area encompasses 2,108.71 acres, more or less. The coal is managed by the U.S. Department of the Interior, Bureau of Land Management and the surface is managed by the U.S. Department of the Interior, Bureau of Land Management and ACD through leases held by ACD for all private surface ownership. Map 1 depicts the boundary of the proposed exploration license area. The area included within the license application is tabulated as follows:

T. 39 S., R. 5 W., SLM
- sec. 7, SE1/4SW1/4, S1/2SE1/4;
- sec. 18, lots 3 and 4, E1/2, E1/2NW1/4, E1/2SW1/4;
- sec. 19, lots 1 to 4, NE1/4, E1/2NW1/4, E1/2SW1/4, N1/2SE1/4, SE1/4SE1/4;
- sec. 20, lots 4 and 5, N 1/2SW1/4.

T. 39 S., R. 6 W., SLM
- sec. 13, SE1/4;
- sec. 24, NE1/4, N1/2NW1/4, SE1/4NW1/4, E1/2SW1/4, N1/2SE1/4, SE1/4SE1/4;
- sec. 25, NE1/4NE1/4.

Total: 2,108.71 acres (more or less)



LEGEND:

- Alt. K1 PERMIT BOUNDARY
- APE BOUNDARY
- SECTION LINE
- FOUND SECTION CORNER
- 19SP014 SOILS PIT
- 19DH007 CORE HOLE/OVERBURDEN CHARACTERIZATION
- 19DH008 CORE HOLE/OVERBURDEN CHARACTERIZATION/ MONITOR WELL LOCATION
- 19DH009 MONITOR WELL LOCATION

DRAWN BY:	CHECKED BY:
K. NICHOLES	
DRAWING: MAP 1	DATE: 02/07/19
	SCALE: 1" = 1000' Printed on 24" x 36"
JOB NUMBER: 0001	SHEET

REVISIONS

DATE:	BY:
XX/XX/XX	XX

2019

EXPLORATION PLAN

Atl. K1
COAL HOLLOW
PROJECT
ALTON, UTAH

MAP 1

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

Geology and Topography

The proposed exploration license is located within the Alton Coal Lease Tract. The tract is characterized by bench and slope topography. Topographic relief in the region is approximately 3,000 feet, with elevations ranging from approximately 9,300 feet on top of the Paunsaugunt Plateau to approximately 6,500 feet in the Kanab Creek valley bottoms.

The tract is southwest of the Paunsaugunt Plateau in the Alton Amphitheater, which is typified by broad, gently rolling hills and valleys and landforms with isolated bedrock outcrops. The west portion of the tract is transected by Kanab Creek, which runs north to south. The tract also includes the Robinson Creek drainage, which runs east to west.

The stratigraphy in and immediately adjacent to the tract includes the Naturita (Dakota) Formation, the Tropic Shale, the Straight Cliffs Formation, and various Quaternary deposits. In the Naturita (Dakota) Formation, two regionally important coal zones are present. These include the Smirl Coal Zone, which is near the upper formational contact with the Tropic Shale, and the Bald Knoll Coal Zone, which is approximately 200 feet below the Smirl Coal Zone near the base of the Naturita (Dakota) Formation. The Bald Knoll Coal Zone is not of interest in this proposed exploration plan.

No valuable minerals other than the coal are known to occur within the boundary of the proposed exploration license area.

Surface Water

The Alton Coal Tract is in the upper reaches of the Kanab Creek watershed, a sub-drainage to the Colorado River. Kanab Creek and two of its tributaries—Lower Robinson Creek and Simpson Hollow Creek—are the dominant surface-water features in the tract. The exploration area is drained by Kanab Creek.

Ground Water

Groundwater systems in and adjacent to the exploration area are present in alluvial sediments, the Tropic Shale, and the Naturita (Dakota) Formation. Aquifer properties and groundwater resources beneath the Alton Coal Field have been investigated through extensive drilling, hydrogeologic characterization, and surface and groundwater monitoring (Doelling and Graham 1972; Petersen Hydrologic 2007, 2013; UII 1987). Detailed investigations of groundwater systems in Sink Valley (where substantial alluvial groundwater systems are present) have been performed in conjunction with permitting activities for the existing Coal Hollow Mine. In conjunction with these activities, many monitoring wells have been constructed in the tract and adjacent area (Table 3.16.4).

Groundwater naturally discharges to the surface as springs and seeps from alluvial deposits, the Naturita (Dakota) Formation, and weathered Tropic Shale. Thirteen springs and seeps on and immediately adjacent to the exploration area have been monitored for water quantity and quality. At most locations in the exploration area, discharge rates from these springs and seeps are

meager, and water quality is often poor (with TDS concentrations commonly exceeding 2,000 mg/L). As a consequence, the potential for use of this groundwater resource is limited. Accordingly, no water production wells are present in the exploration area.

Soils

Soils in the exploration area are derived primarily from sedimentary geologic deposits that occur throughout the region, including the Tropic Shale and Dakota Sandstone deposits (UII 1987). A variety of soil types exists in the exploration area, including highly saline and highly erodible soils (UII 1987). Soils that are highly saline, highly erodible, and have low water-holding capacity (drought intolerant) may be especially vulnerable to impacts and may be harder to reclaim or restore after disturbance. No soils in the tract exhibit levels of boron, selenium, molybdenum, chloride, zinc, lead, or other heavy metals that are potentially toxic to plant or animal growth (UII 1987). Care will be taken in locating the drill sites to ensure soil conditions will not be a limiting factor for site reclamation potential. Minimal disturbance to soil will occur. ACD's preference is to use predominately the pneumatic push probe for soil sample collection due to its less intrusive nature, but will utilize a small wheeled or track hoe backhoe in locations inappropriate to access with the pneumatic push probe.

Erosion and Sedimentation

The proposed drill sites, pneumatic push probe and backhoe locations do not occur in any significant slump areas, and the proposed program will not adversely affect erosion and sedimentation in the area.

Biology

The exploration area occurs in the semiarid foothills of the Colorado Plateau Semidesert Province of south-central Utah. Vegetation communities on the exploration area are typical of what is found in the surrounding Colorado Plateau region, namely pinyon-juniper woodlands, sagebrush shrublands, and mountain brush communities.

Surveys for suitable habitat for special status plant species were conducted in November 2007, August 2008, September 2008 and June 2012. Of the special status species with potential habitat to occur in the tract, no habitat or individuals were found.

Crucial summer, crucial winter, substantial value winter, and substantial value year-long habitats for mule deer, and substantial value summer, substantial value winter, and year-long substantial habitats for Rocky Mountain elk are present on the exploration area. Suitable habitat for fish, amphibians, raptors, other resident birds, neotropical migratory birds, and insects is also present on or adjacent to the exploration area.

Threatened, endangered and special status species with the potential to be present in the exploration area identified in the Alton Coal Tract Lease by Application FEIS include pygmy rabbits, kit fox, Allen's big-eared bat, big free-tailed bat, fringed myotis, spotted bat and Townsend's big-eared bat, Bald Eagle, Burrowing Owl, California Condor, Ferruginous Hawk,

Golden Eagle, Northern Goshawk, Short-eared Owl, Black Swift, Lewis's Woodpecker, Long-billed Curlew, Arizona toad, western toad, and Greater Sage-Grouse. No special status fish species are known to occur on the proposed exploration area.

ACD plans to contract any required site-specific biologic surveys such as raptor and/or threatened and endangered species prior to commencement of exploration activities. This work would be accomplished in late spring/early summer 2019 upon approval of the BLM.

Historic Places

There are no known districts, sites, buildings, structures, or objects listed on, or eligible for listing on the National Register of Historic Places in the proposed exploration area.

Cultural or Archeological

There are known archaeological resources in the vicinity of the proposed exploration license area. Investigations to identify and evaluate cultural resources in the Alton Coal Tract were conducted in 2005 and 2008 by Montgomery Archaeological Consultants, Inc. on behalf of ACD (Stavish 2007, 2008a), and supplemental work was conducted by the BLM-KFO in 2007 (Zweifel 2007). The cultural resources identified on the tract during these investigations consist of prehistoric and historic archaeological sites. A programmatic agreement (PA) that defines the area of potential effects (APE) for the Alton Coal Tract LBA (proposed exploration area) and that details the processes by which BLM will consider the effects of the undertaking on historic properties has been developed.

The proposed exploration activities will avoid all eligible cultural resource sites, if avoidance cannot be accomplished, then ACD will follow the PA to avoid or mitigate disturbance to the eligible site. Also, if disturbance is to occur in relatively close proximity to an eligible site, cultural resource specialist will be employed to aid in avoiding the site.

Exploration

Drilling site locations and projected depths are tabulated as follows:

Site	Lat.	Long.	Projected TD	Coal Sample (Y/N)	Retained for Monitoring Well (Y/N)	Disturbance (sqft)
19DH001	4142690	370709	170	Y	Y	1200
19DH002	4142083	370940	185	Y	Y	1200
19DH003	4141745	371023	190	Y	Y	1200
19DH004	4140971	371273	195	Y	Y	1200
19DH005	4142236	370538	95	Y	N	1200
19DH006	4141468	370796	127	Y	N	1200
19DH007	4141021	371030	130	Y	N	1200
19DH008	4142201	370291	47	Y	Y	1200

19DH009	4141551	370389	80	Y	N	1200
19DH010	4140989	370497	74	Y	N	1200
19DH011	4140315	370612	150	N	Y	1200
19DH012	4141664	370084	150	N	Y	1200
19DH013	4141212	369888	150	N	Y	1200
19DH014	4142255	369776	135	Y	N	1200
19DH015	4141961	369668	166	Y	N	1200
19DH016	4141711	369719	150	N	Y	1200
19DH017	4141071	369116	190	Y	N	1200
19DH018	4140709	369116	165	Y	N	1200
19DH019	4140497	369436	150	N	Y	1200

Drilling

Exploration will be conducted using a truck mounted drill rig. The anticipated drilling methods are as follows:

- Hollow stem auger drills the alluvium layer
- Air rotary drill the shale formation
- Core drill the coal bed
- Core drill the Dakota Formation under burden as determined by the geologist.

Wet drilling is not anticipated. However, drill pads have been sized to allow for “mud pits” if needed. Whenever possible, existing roads and trails will be used to access the core hole sites. Logs will be kept of activities associated with the drilling process and will be provided to BLM. The company selected to perform the drilling will be determined and the information provided to the BLM when available. The onsite geologist for the Exploration Project will be Erik Petersen of Petersen Hydrologic, LLC. Mr. Petersen (Register Utah Professional Geologist #53 73615-2250) will provide oversight for proper collecting of material samples and core hole logging.

Generally, samples for geochemical analysis will be collected at every two-foot interval. In the lithologic units that are thicker than 10 feet, where practical, the samples will be composited into intervals no greater than 10 feet for analysis purposes. Levels at which appreciable water is contacted will be documented and provided to BLM.

Support equipment will consist of two pickups trucks used to transport supplies and personnel.

Amount of Coal to be Removed: Coal will be removed in a 2" diameter core from one intercept of the seam per hole with an average intercept thickness of 14 feet, resulting in 0.0127 short tons of coal to be removed per hole and 0.127 short tons of coal for 14 holes of the project per the following calculations:

Volume of coal in ft^3 in one corehole = $\pi r^2 h$

$3.14*0.0833^2*14 = 0.305\ ft^3$

Where:	constant	$\pi = 3.14$
	radius of core	$r = 0.0833$ ft

height of core h = 14 feet

Density of coal relative to density of water = 1.34

▶ 1.34*62.349 = 83.55 lbs/ft^3

Where: density of water = 62.439 lbs/ft^3

Short Tons of Coal in one hole = (volume in ft^3*density of coal in ft^3)/2000

▶ (0.305*83.55)/2000 = 0.0127 short tons

Total Short Tons removed from 14 holes = 0.0127*14 = 0.18

Alton Coal will employ the following practices to protect the area from adverse impacts of exploration:

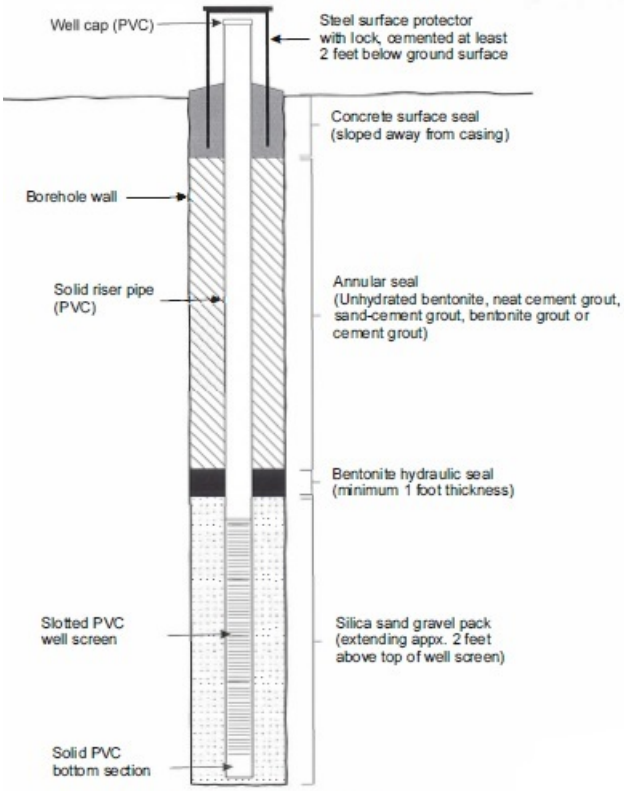
- minimize off-road activities;
- coreholes are located near pre-existing access routes or disturbed ground to minimize disturbance.
- coreholes are located in areas that are relatively flat grades (not greater than a 4% slope) thus eliminating the need for excavation at drill pads;
- Wet drilling is not anticipated to be utilized however pads will accommodate “mud pits”
- use industry standards for drilling boreholes;
- use of a spill prevention plan and protocol to prevent and contain spills;
- drill locations will be seeded using the seed mix provided in Table 2 to further promote a diverse, effective and permanent vegetative cover.
- sealing and abandonment of holes will be accomplished by filling the open borehole with unhydrated bentonite. Soil pits excavated near the Exploration Area have confirmed that sufficient formation water will be present to hydrate the bentonite for sealing the hole and minimizing disturbance to the hydrologic balance. Reference for utilizing unhydrated bentonite for sealing and abandonment is found in R655-4-2 Definitions.
- All equipment will be promptly removed from the Exploration Area when they are no longer needed for exploration.

Drill Hole Plugging

The exploration drill holes not identified to be utilized for monitoring wells will be plugged with a cement, cement/bentonite slurry or Abandonite (or equivalent) to their full depth. The completion method includes pulling surface casing when possible; but when not possible, cutting it flush with the ground, and then pumping the cement/bentonite slurry through the drill pipe starting at the bottom of the hole. Plugging will then be done in stages by tripping-out of the hole 8-10 joints (160-200 ft) and pumping again. This process will be repeated to the surface. A brass identification tag will be placed in the concrete at the top of the drill hole stating the operator's name, drill hole number and legal description. The plugged hole will be flush with the ground surface.

Water Monitor Wells

Ten of the exploration holes have been identified to be retained for monitoring wells. Exploration holes that are converted to monitoring wells will have 2” pvc casing installed with screened intervals in sections anticipated to produce water. They will be designed to prevent contamination of groundwater and surface-water resources and to protect the hydrologic balance. Monitoring wells will include a protective hydraulic seal immediately above the screened interval, an annular seal plugging the borehole above the hydraulic seal to near the ground surface, and a concrete surface seal extending from the top of the hydraulic seal to the ground surface which is sloped away from the well casing to prevent the entrance of surface flows into the borehole area. Well casings will protrude above the ground surface a sufficient height so as to minimize the potential for the entrance of surface water or other material into the well.



Typical monitoring well construction.

Not to scale

Water Rights

Water for drilling will be obtained from the Coal Hollow mine site. Water for road maintenance will be obtained from the Coal Hollow mine site as well. ACD has sufficient

primary water rights at the water well at Coal Hollow for the project. Approval for each monitor well installed will also be obtained from Utah Division of Water Rights.

Site Preparation

By utilizing dry drilling methods, a truck mounted drill rig and locating the boreholes in relatively flat areas, the need for removing topsoil is not necessary. The disturbance to the ground surface and vegetation will be minimal using these practices. This disturbance will occur from the rubber tire (truck) mounted drill rig, pick-up trucks and possibly pallets containing bags of bentonite. The approximate disturbance at each drill site will be an area 30 feet wide by 40 feet in length. The drill pad sites are located near preexisting routes that have been previously disturbed wherever possible, with new 10-foot wide access roads being constructed as necessary (shown on Map 1). Activities outside of these previously disturbed routes will be minimized and access roads will be reclaimed and re-seeded following completion of the drilling sites.

Soil Sampling

Soil sampling will utilize both backhoe pits or a pneumatic push probe to obtain soil samples. Sampling site locations are shown on Map 1 and projected depths and locations are tabulated as follows:

Backhoe Pits Locations

Site	Northing	Easting	Projected TD	Disturbance (sqft)
19SP001	4142418.00	370722.00	6’	200
19SP002	4142200.00	370292.00	6’	200
19SP003	4142235.00	370537.00	6’	200
19SP004	4141757.00	371220.00	6’	200
19SP005	4141745.00	371023.00	6’	200
19SP006	4141551.00	370386.00	6’	200
19SP007	4141468.00	370796.00	6’	200
19SP008	4141177.00	371067.00	6’	200
19SP009	4140988.00	370496.00	6’	200
19SP010	4141019.00	371031.00	6’	200
19SP011	4140353.00	370170.00	6’	200
19SP012	4140315.00	370612.00	6’	200
19SP013	4141211.00	369887.00	6’	200
19SP014	4142459.00	369760.00	6’	200
19SP015	4142256.00	369775.00	6’	200
19SP016	4141960.00	369669.00	6’	200
19SP017	4141471.00	369586.00	6’	200
19SP018	4141524.00	369224.00	6’	200
19SP019	4141161.00	369291.00	6’	200
19SP020	4141071.00	369115.00	6’	200
19SP021	4140709.00	369115.00	6’	200
19SP022	4140497.00	369436.00	6’	200

19SP023	4141516.00	369037.00	6’	200
19SP024	4141436.00	369003.00	6’	200

Site Preparation

By utilizing a small wheeled backhoe or a Mini Excavator, soil sampling locations can be accessed without the need to build roads, thus disturbance associated with soil pits will be minimized to the smallest extent. The disturbance to the ground surface and vegetation will be minimal using these practices. This disturbance will occur from the rubber tire backhoe or tracks of the mini excavator. The approximate disturbance at each soil pit will be an area 10 feet wide by 20 feet in length. As shown on Map 1, soil pits have also been co-located with the drilling sites wherever possible to minimize disturbance.

Pneumatic Push Probe Locations

Pneumatic Push Probe Locations will be determined by a soil scientist dependent on the determination of the need for additional soil information within a soil unit.

Site Preparation

By utilizing a small wheeled tractor with a pneumatic push probe mounted on the rear of the tractor, soil sampling locations can be accessed without the need to build roads, thus disturbance associated with the pneumatic push probe will be minimized to the smallest extent. The disturbance to the ground surface and vegetation will be minimal using these practices. This disturbance will occur from the rubber tire tractor that the pneumatic push probe is mounted on. There will be virtually no disturbance at each push probe location

Surveying

The drill hole, soil pit and pneumatic push probe locations will be surveyed to a 0.01-foot horizontal location and a 0.1 ft vertical elevation. Locations will be expressed in NAD 83 state plane coordinates adjusted to sea level datum.

43 CFR 3482.1 (3)(v) Estimated Timetable

The total plan including reseeding should be completed in l0 to 12 weeks depending on weather or other delays.

Reclamation

Exploration Seed Mix			
		Pure Live Seed/Acre	Seeds/Square foot
Bromus carinatus	Mountain Brome	6	13.77
Elymus lanceolatus	Thickspike Wheatgrass	4	14.14
Elymus smithi	Western wheatgrass	5	14.46

Elymus spicatus	Bluebunch wheatgrass	6	19.28
Poa pratnsis	Kentucky bluegrass	0.4	19.99
Total		21.4	81.64

The seed mix shall be 99% pure live seed containing a maximum of 1 % weeds, none of which are toxic. Prior to any seeding, the USFS will be consulted to ensure the proper seed mixture is used. The vegetative cover resulting from this seed mix is considered to be capable of stabilizing the soil surface from erosion.

Safety

Drilling and construction contractors as well as ACD employees will be required to wear hard hats, steel toed boots, and safety glasses when working at drill sites.or handling equipment at the staging area/landing zone.

Appropriate fire-fighting equipment and adequate water supply will be maintained at the drill sites and the staging area as well as any water pumping locations. USFS fire stipulations will be followed.
Internal combustion engines will be equipped with appropriate mufflers and/or spark arrestors. All vehicles will carry a readily available and fully charged fire extinguisher, a first aid kit and fire-fighting tools.

Large equipment will not be moved when the roads are excessively muddy. Personnel will not be allowed to drive onto the area when excessively muddy roads occur, but may leave the area at the end of the work day or drill period. Any rutting that occurs will be repaired by the dirt contractor when conditions permit.

Other Permits

No other permits are anticipated.

Reclamation Bond

ACD has provided estimated reclamation costs for this exploration plan in Appendix A. The estimate tabulates the costs associated with the reclamation activities described in the sections above for hole plugging, surface disturbance, soil pit backfill and re-seeding of disturbed soils. These calculations are an estimate only, and actual bond requirements will be calculated and determined by the BLM. Bonding will be secured by the BLM.

Data Use

Data will be transferred to the BLM within a reasonable time period after exploration. ACD request that all data be kept confidential.

Appendix A – Reclamation Cost Estimate

Alton Coal Development Federal Block 2 Exploration Plan Reclamation Cost Estimate

Exploration Site Reclamation Costs

All cost data is from the 2018 editions of either the RS Means Heavy Construction or Building Construction Cost Data Manuals except where specifically noted (Total Cost Including O&P)

Site	Latitude	Longitude	Coal Sample (Y/N)	Monitoring Well (Y/N)	Soil Pit ID (N/A if None)	Item	Unit	Quantity	Unit Cost ($)	Cost	Cost Data Reference
19DH001	4142690	370709	Y	Y	N/A	Hole Depth	ft	170	$ 18.00	$ 3,060.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	9330			
						Access Road Surface Disturbance - Roughening	yd3	691.1	$ 2.62	$ 1,810.71	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	9.33	$ 22.40	$ 208.99	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 5,339.47**	
19DH002	4142083	370940	Y	Y	N/A	Hole Depth	ft	185	$ 18.00	$ 3,330.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	5620			
						Access Road Surface Disturbance - Roughening	yd3	416.3	$ 2.62	$ 1,090.70	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	5.62	$ 22.40	$ 125.89	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 4,806.35**	
19DH003	4141745	371023	Y	Y	SP005	Hole Depth	ft	190	$ 18.00	$ 3,420.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	4990			
						Access Road Surface Disturbance - Roughening	yd3	369.6	$ 2.62	$ 968.43	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	4.99	$ 22.40	$ 111.78	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 4,876.42**	
19DH004	4140971	371273	Y	Y	N/A	Hole Depth	ft	195	$ 18.00	$ 3,510.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	0			
						Access Road Surface Disturbance - Roughening	yd3	-	$ 2.62	$ -	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 3,769.77**	
19DH005	4142236	370538	Y	N	SP003	Hole Depth	ft	95	$ 9.00	$ 855.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	0			
						Access Road Surface Disturbance - Roughening	yd3	-	$ 2.62	$ -	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 1,231.21**	
19DH006	4141468	370796	Y	N	SP007	Hole Depth	ft	127	$ 9.00	$ 1,143.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	0			
						Access Road Surface Disturbance - Roughening	yd3	-	$ 2.62	$ -	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 1,519.21**	
19DH007	4141021	371030	Y	N	SP010	Hole Depth	ft	130	$ 9.00	$ 1,170.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	0			
						Access Road Surface Disturbance - Roughening	yd3	-	$ 2.62	$ -	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 1,546.21**	
19DH008	4142201	370291	Y	Y	SP002	Hole Depth	ft	47	$ 18.00	$ 846.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	5320			
						Access Road Surface Disturbance - Roughening	yd3	394.1	$ 2.62	$ 1,032.47	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	5.32	$ 22.40	$ 119.17	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 2,373.86**	
19DH009	4141551	370389	Y	N	SP006	Hole Depth	ft	80	$ 9.00	$ 720.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	9240			
						Access Road Surface Disturbance - Roughening	yd3	684.4	$ 2.62	$ 1,793.24	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	9.24	$ 22.40	$ 206.98	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 3,096.43**	

Site	Latitude	Longitude	Coal Sample (Y/N)	Monitoring Well (Y/N)	Soil Pit ID (N/A if None)	Item	Unit	Quantity	Unit Cost ($)	Cost	Cost Data Reference
19DH010	4140989	370497	Y	N	SP009	Hole Depth	ft	74	$ 9.00	$ 666.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	0			
						Access Road Surface Disturbance - Roughening	yd3	-	$ 2.62	$ -	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 1,042.21**	
19DH011	4140315	370612	N	Y	SP012	Hole Depth	ft	150	$ 18.00	$ 2,700.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	5440			
						Access Road Surface Disturbance - Roughening	yd3	403.0	$ 2.62	$ 1,055.76	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	5.44	$ 22.40	$ 121.86	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 4,253.83**	
19DH012	4141664	370084	N	Y	N/A	Hole Depth	ft	150	$ 18.00	$ 2,700.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	0			
						Access Road Surface Disturbance - Roughening	yd3	-	$ 2.62	$ -	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 2,959.77**	
19DH013	4141212	369888	N	Y	SP013	Hole Depth	ft	150	$ 18.00	$ 2,700.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	0			
						Access Road Surface Disturbance - Roughening	yd3	-	$ 2.62	$ -	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 3,076.21**	
19DH014	4142255	369776	Y	N	SP015	Hole Depth	ft	135	$ 9.00	$ 1,215.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	6820			
						Access Road Surface Disturbance - Roughening	yd3	505.2	$ 2.62	$ 1,323.59	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	6.82	$ 22.40	$ 152.77	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 3,067.57**	
19DH015	4141961	369668	Y	N	SP016	Hole Depth	ft	166	$ 9.00	$ 1,494.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	10730			
						Access Road Surface Disturbance - Roughening	yd3	794.8	$ 2.62	$ 2,082.41	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	10.73	$ 22.40	$ 240.35	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 4,192.98**	
19DH016	4141711	369719	N	Y	N/A	Hole Depth	ft	150	$ 18.00	$ 2,700.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	0			
						Access Road Surface Disturbance - Roughening	yd3	-	$ 2.62	$ -	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 2,959.77**	
19DH017	4141071	369116	Y	N	SP020	Hole Depth	ft	190	$ 9.00	$ 1,710.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	18370			
						Access Road Surface Disturbance - Roughening	yd3	1,360.7	$ 2.62	$ 3,565.14	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	18.37	$ 22.40	$ 411.49	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 6,062.84**	
19DH018	4140709	369116	Y	N	SP021	Hole Depth	ft	165	$ 9.00	$ 1,485.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	11860			
						Access Road Surface Disturbance - Roughening	yd3	878.5	$ 2.62	$ 2,301.72	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	11.86	$ 22.40	$ 265.66	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 4,428.60**	

Site	Latitude	Longitude	Coal Sample (Y/N)	Monitoring Well (Y/N)	Soil Pit ID (N/A if None)	Item	Unit	Quantity	Unit Cost ($)	Cost	Cost Data Reference
19DH019	4140497	369436	N	Y	SP022	Hole Depth	ft	150	$ 18.00	$ 2,700.00	RSMeans Heavy Constr., 02 41 13.76 0900 for Exploration Hole RSMeans Heavy Constr., 02 41 13.76 1000 for Monitoring Well
						Soil Pit Backfill from Embankment	yd3	44.44	$ 2.62	$ 116.44	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding (included in pad)	M.S.F.	0	$ 22.40	$ -	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Pad Surface Disturbance	sq. ft	1200			
						Pad Surface Disturbance - Roughening	yd3	88.9	$ 2.62	$ 232.89	RSMeans Heavy Constr., 31 23 16.32 2310
						Pad Surface Disturbance - Seeding	M.S.F.	1.2	$ 22.40	$ 26.88	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
						Access Road Surface Disturbance	sq. ft	14400			
						Access Road Surface Disturbance - Roughening	yd3	1,066.7	$ 2.62	$ 2,794.67	RSMeans Heavy Constr., 31 23 16.32 2310
						Access Road Surface Disturbance - Seeding	M.S.F.	14.4	$ 22.40	$ 322.56	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 6,193.44**	
		Soil Pits Only									
					SP001						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP004						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP008						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP011						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP014						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP017						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP018						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP019						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP023						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
					SP024						
						Soil Pit Backfill from Embankment	yd3	44.44	$ 22.40	$ 995.56	RSMeans Heavy Constr., 31 23 23.17 0020
						Soil Pit Suface Disturbance - Seeding	M.S.F.	0.2	$ 22.40	$ 4.48	Local Supplier Quote 3 yr. average - ACD Interim Seed Mix
Subtotal										**$ 10,000.36**	
Total										**$ 76,796.52**	