Storm Water Management Plan

Project Name:							
SITE DESCRIPTION							
Project Name and Location: (PARCEL #, Section, Township, & Range; and Address)	P East utility boreholes (2) (~1050" depth cach, ~100" (Opien #1) to 1750" (Opien #2); long access read and 200" by 200" dillip and lebit options), parcels 45513001 and 94514001, Section 11, TSN, ROW. Note hart only one Option will be constructed, with Opien #3 protented.	OWNER Nam and Phone #:	e, Address,	455 Emerson Street, Cr. Parcel 945114001, own Street, Suite 862, St. Lo.	ed by Sage Creek Land & Reserves, LLC, 701 Market uls, MO 63181, sister company of Twentymile Coal, LLC. us surface and sub-surface rights based on the stached		
Description: (Purpose and Types of Soil Disturbing Activities)	Construction of a 1000 to 1760 x 24 wide finitional and 200 x 200 finished drift pad for 2 util Twentymile underground workings. The borel utility services and as an exhauster borehole.	lity boreholes into the	CONTACT N Address & P	A CONTRACTOR OF THE PARTY OF TH	Michael Berdno Tventhymilo Coal, LLC 28616 Rout County Roed #27 Cal, Creok, CC 80487 970-970-978, 970-464989 mbordine ∰posbodyonotyy.com		
# Cubic Yards of soil cut/fill and/or amount of surface area moved:	1000" to 1760" access road - ~680 YD3 (Option #1) to 850 YD3 (Option #2) balanced cut and fill, refer to the attached .bxt access road report document. 200" x 200" drill pad - ~2360 YD3 (Option #2) to 3680 (Option #1) YD3 balanced cut and fill, refer to the attached .bxt pad report document About 2.5-3.0 acres will be disturbed.						
Site Area:	The site is approximately 6	acres of whi	ch 3 acres will	be disturbed l	by construction activities.		
Sequence of Major Activities The order of activities will be as follows: 1 Please refer to the attached Scope of work for the access road and dril pad dated 2 Establishment of temporary drainage and sediment control measures. 3 Access Road - Removal of up to 1700' of access road bruch and topped and placement in temporary effectives. 4 Construction of a 24' wide by up to 1760' long access road. 5 Construction of a 200' x 200' finished drill pad. 7 Construction of a 950' long perimeter ditch with four rock check dams on the north, west and south aides of borehole pad. 8 8 9							
4 Orli Pad - Romoval of 226" x 226" (1.2 acros) of k stockollos. Name_of Receiving Waters:		l'					
Name of Receiving Waters.	rish creek	CONTRO	DLS				
	Frosion a	waaruu areesa kaasaan areesa kasa ka	nt Practices				
Stabilization Practices							
Temporary Stabilization - Refer to the attached Exhibit 49EE-F1. Temporary stabilization includes wattles or equivalent devices at all soil stockpiles and along the west and north sides of the access road. Three (Option #1) to four (Option #2) 24" diameter CMP culverts will be placed as per the Exibit 49EE-F1 and the attached SedCAD report.							
Permanent Stabilization -	Refer to the attache ditch will be constuc	d Exhibit 49 ted on the	EE-F1, Opnorth, west	otions #1 ar , east and	nd #2. A run-off diversion south sides of the drill pad.		
Weed Control -	Refer to the attac	hed Wee	d Manage	ement Pla	n dated October 2011.		
		Structural P	ractices				
Refer to the attached application to the Routt County Planning Dept. for an administrative use permit.							
Storm Water Management							
Drainage and sediment from disturbed areas will be controlled by an integrated system, using grading and berms to limit and control surface runoff, mud pits excavated within the footprint of the pad to contain all drilling fluids, and either rock check-dams, silt fence, or straw bales/wattles installed at the low point of the drill- pad to contain sediment and control any discharge.							
Maintenance:	pit run and 3" of con	npacted roa	ad base or	screened re	roxiamtely 8" of compacted ock applied. The access edded by a road blade.		

Storm Water Management Plan

OTHER CONTROLS					
Waste Disposal: Waste will be disposed of at other Twentmile trash collection sites.					
Waste Materials: Minor amounts of cardboard, wooden stakes, misc. steel pipe that will be removed as construction progresses.					
Hazardous Waste None, except fuels and oils used to operate and service construction equipment.					
Sanitary Waste A rented portable toilet will be on site during construction activities. The toilet will be inspected and cleaned weekly.					
TIMING OF CONTROLS/MEASURES					
The proposed drill pad and access road construction will be initiated as soon as possible after receipt of permit approvals, with completion of the boreholes occurring during the 3rd quarter of 2016.					
CERTIFICATION OF COMPLIANCE WITH FEDERAL STATE AND LOCAL REGULATIONS					
On April 19, 2016 Twentymile Coal, LLC submitted Minor Revision (MR16-296) to the Colorado State Division of Reclamation, Mining and Safety (CDRMS) requesting CDRMS approval of the Minor Revision to our existing approved Permit for the installation, operation, and reclamation of this 9 East utility borehole site. CDRMS approval is expected any day. A copy of the cover letter to the CDRMS is attached.					
MAINTENANCE/INSPECTION PROCEDURES					
Erosion and Sediment Control Inspection and Maintenance Practices					
1 The installed wattles and diversion ditch erosion controls will be inspected approximately twice annualy in the spring after the spring run-off and again in the fall.					
2 Culverts wil be cleaned as needed after the spring run-off and again in the fall.					
³ The soil piles wil be seeded in the fall of 2016.					
A rock check dam constructed of 8-12" fractured rock will be maintained at four locations along the proposed diversion ditch.					
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Storm Water Management Plan

INVENTORY FOR POLLUTION PREVENTION PLAN								
The materials or substances listed below are expected to be present onsite during construction:								
Straw or equivalent wattles		9	Wooden stakes or equivalent for the stabilization of the wattles.					
 8-12" fractured limestone for the 4 rock checks. 		ø	Steel pipe for the borehole surface casings and borehole casing and misc.					
Pit run, roed base and 3/4" screened rock.		9	Small telephone cable attached to the borehole casing, grouted in place with a flowable canned annel					
Spill Control F	ractice?	S						
in addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:								
° Please refer to the attached Twentymile SPCC plan.								
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◎								
STORM WATER MANAGEMENT PLAN CERTIFICATION								
certify under penalty of law that this document and all attachments were prepared under my direction or								
supervision in accordance with a system designed to assure that qualified personnel properly gathered and								
evaluated the information submitted. Based on my inquiry of the person or persons who manage the system,								
or of those persons directly responsible for gathering the information, the information submitted is, to the best of								
my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for								
submitting false information, including the possibility of fine and impris	onment fo	or kr	nowing violations.					
signed: Michael A. Beidins								
Date: 5-12-14	n=							