EROSION & SEDIMENTATION CONTROL PLAN NOTES

1. Only limited disturbance will be permitted to provide access to install silt fence barriers. 2. Erosion and sediment control Best Management Practices (BMPs) must be constructed, stabilized, and functional before site disturbance begins within the BMP contributory drainage

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3. After final site stabilization has been achieved (uniform 70% perennial vegetative cover or better where revegetated), temporary erosion and sediment control BMPs must be removed. Areas disturbed during removal of BMPs must be stabilized immediately.

4. Stockpile heights must not exceed 35 feet. Stockpile slopes must be 2:1 or flatter. 5. Until the site is stabilized, all erosion and sediment control BMPs must be maintained

properly. Maintenance must include inspection of all erosion and sediment control BMPs after each runoff event and on at least a weekly basis (see details for additional requirements). All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, remulching and renetting must be performed within 48 hours or sooner if so specified for a given BMP. If erosion and sediment control BMPs fail to perform as expected, replacement BMPs or modifications of those installed will be required. The site Construction Foreman or his designee must insure that weekly and post-runoff inspections are completed and shall oversee any required preventative and remedial maintenance work.

6. Sediment removed from BMPs must be placed within the limits of disturbance in an area protected by BMPs and promptly stabilized to avoid future re-entrainment. 7. Any waste materials generated by (including wastes associated with the operation and

maintenance of earthmoving equipment and construction materials such as geotextile, pipe, revegetation supplies, etc.) or encountered during construction will be recycled, scrapped, or disposed of in permitted facilities in accordance with all applicable state and federal regulations as needed.

8. With the exception of those areas draining to silt fence, all stormwater runoff shall be routed through existing treatment components during construction that will serve as sediment removal facilities during construction activities.

9. Though all cut and fill material will be used and/placed on site, it is the responsibility of the operator to perform due diligence and determine if any fill material imported from off site is Clean Fill. Clean Fill is defined as: Uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the waters of the commonwealth unless otherwise authorized. (The term "used asphalt" does not include milled asphalt or asphalt that has been processed for re-use.).

TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS

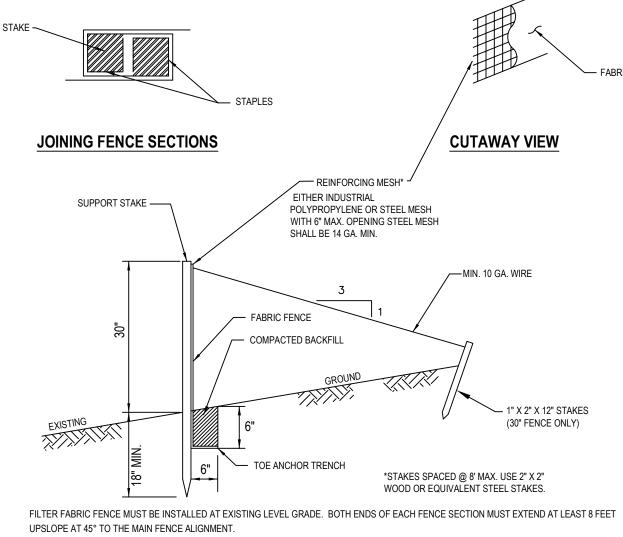
Temporary

cies: Annual Ryegrass (PA DOT Formula E) Pure Live Seed: 88% Application Rate: 48 LB./AC. Fertilizer Type: None Liming Rate: 0 T./AC. Mulch Type: Hay or Straw Mulching Rate: 3.0 T./AC. Permanent

(Species - Application Rate): Orchard Grass - 10 LB./AC.; Timothy - 10 LB./AC.; White Dutch Clover - 3 LB./AC.; Alsike Clover - 3 LB./AC.; Ladino Clover 3 LB./AC.; Birdsfoot Trefoil (Empire Variety) - 13 LB./AC.; Winter Wheat - 60 LB./AC. (Winter wheat for fall planting or spring oats at 34 LB./AC. for spring planting. Winter rye or annual rye grass at 25 LB./AC. may also be used.) Kentucky 31 Tall Fescue shall not be used. Min. Purity: 90% Min. Germination: 80%

Fertilizer Type: 10-20-20 Fertilizer Appl. Rate: 500 LB./AC. Liming Rate: 5.0 T./AC. Mulch Type: Hay or Straw

Mulching Rate: 3.0 T./AC. Preferred Seeding Season Dates: 3/15 to 6/1; 8/1 to 10/15



SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE REPLACED WITH A ROCK FILTER OUTLET WITHIN 24 HOURS. FOR WOOD STAKES, 2" X 2" (+/- 3/8") ACTUAL SIZE, NOT NOMINAL. PADOT CLASS 3, TYPE B, SEDIMENT CONTROL

30" HIGH REINFORCED FILTER FABRIC FENCE Horizontal Scale: None Vertical Scale: None

10. Excess earth fill material shall be placed within the existing treatment system footprint i.e. into the existing settling pond and 11. Grade all affected areas to blend with surrounding topography, loosely spread best on-site soil and revegetate treatment system area per permanent seeding specifications as soon as possible or within 1 week after construction is complete. 12. Remove all temporary BMPs upon establishing permanent uniform 70% perennial vegetative cover .

CONSTRUCTION SCHEDULE & BMP INSTALLATION SEQUENCE

PmA

EX. ~31,000 SQ FT SETTLING POND -

12

BAFFLE CURTAIN (1FT HEIGHT)

PLACE / SPREAD SPENT MEDIA +

LOW PERMEABILITY LINER

IN SETTLING POND

EVENLY IN EXISTING POND AS

GcF

Bł

64 LB/DAY FE @ 10 G/SM/D

EXISTING 12" HPDE N-12 OUTLET PIPE -

TOP OF 6" PIPE

ELEV. 1260.75

RECONFIGURE / ENLARGE EX. VFP AS JVFP (JVFP 1)

28% OF FLOW @ 300 GPM = 84 GPM

370 CY SPENT MUSHROOM COMPOST

TOTAL AS-PLACED VOLUME: 1667 CY MAX ACID LOAD @ 0.15 LB/D/CY = 250 LB/DAY 1 FT U'DRAIN STONE: 374 CY = + 56 LB/DAY

TOTAL ACID LOAD TREATED: 306 LB/DAY

EXISTING MINE DRAIN LOCATION -

INSTALL MINERAL CSA LINER

1500 TONS LIMESTONE

740 CY WOODCHIPS

BENCHMARK 1

ROCK CONSTRUCTION -

EXISTING 6" -

CLEAN EXISTING 12" -

PVC SYSTEM INLET

PIPE (AS NEEDED)

ENTRANCE (SECONDARY)

TERRACOTTA PIPE

LEAVE AS AUXILIARY OUTLET

INLET INV. 1260.7

OUTLET INV. 1261.1

I. Install filter fence barriers #1 & 2 along the existing mine water conveyance channel, down-gradient of the proposed crossing. 2. Clear and grubb areas to be affected during construction, while maintaining drainage to existing treatment components. 3. Install the seep collection drain. Construct a temporary coffer dam to allow for the mine water discharge to be pumped around the

s active construction of the seep drain. 4. While the mine water discharge is being pumped around the area, install the 36" culvert for the channel crossing at the location shown on the Drawings. This will allow for the crossing to be constructed in predominantly 'dry' conditions to achieve proper

compaction around the culvert pipe. 5. Remove spent organic treatment media (to be placed in existing settling pond and or existing treatment wetland).

6. Wash and recover existing limestone to be stockpiled on-site for use in proposed underdrain construction of rebuilt Jennings-Type Vertical Flow Ponds (JVFPs).

7. Enlarge Ex VFP2A & VFP2B into a single structure and rebuild the treatment component (JVFP2) using new materials. > 8. Expand the existing sludge pond to the dimensions shown on the Drawings and convert the component into JVFP3. 9. Expand the existing VFP to the lines and grades shown on the Drawing and rebuild the treatment component (JVFP1) using new materials

treatment wetland (or along existing embankments as needed).

