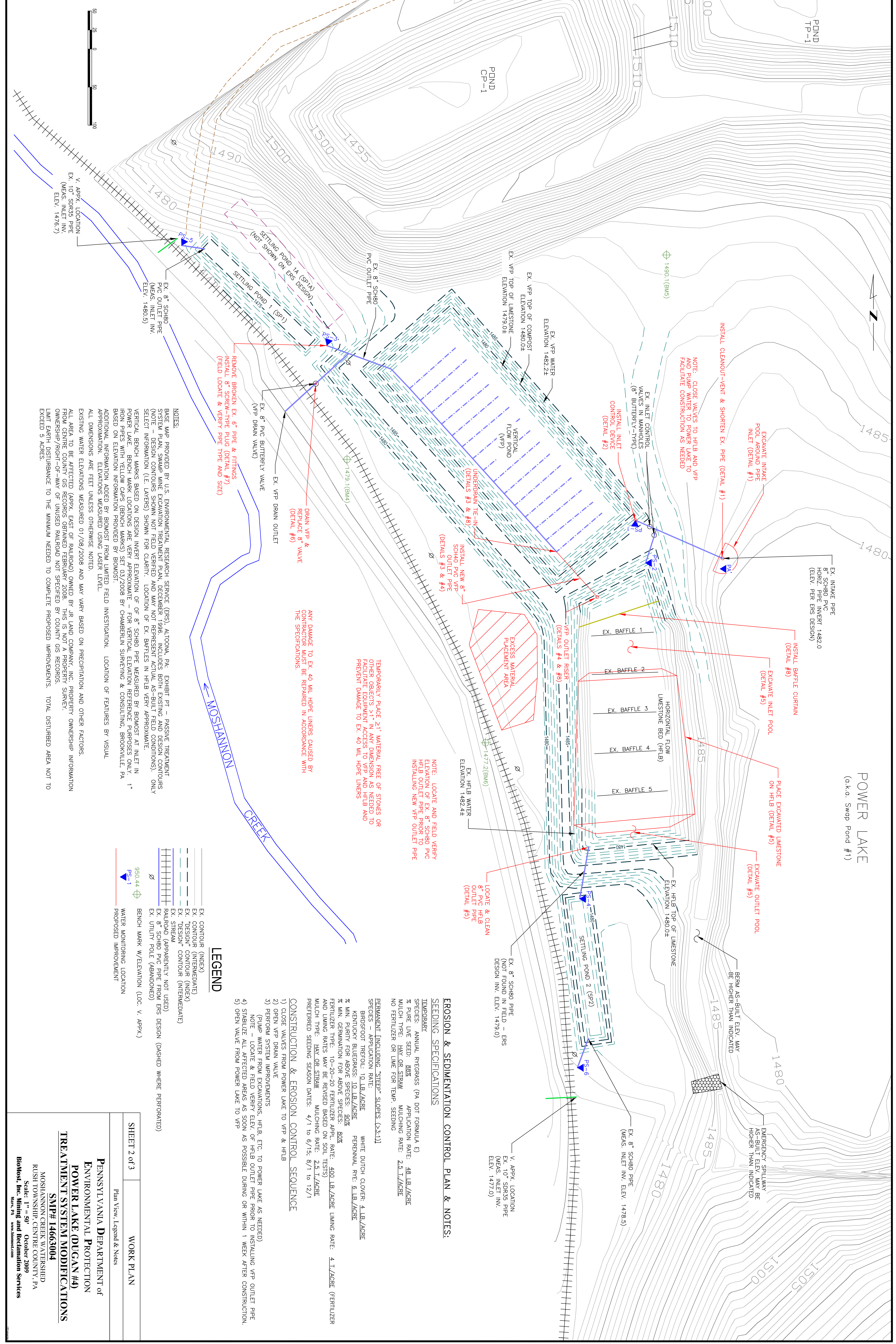


POWER LAKE (a.k.a. Swap Pond #1)



EROSION & SEDIMENTATION CONTROL PLAN & NOTES:

- ### SEEDING SPECIFICATIONS
- TEMPORARY**
 SPECIES: ANNUAL RYEGRASS (PA DOT FORMULA E)
 % PURE LIVE SEED: 88% APPLICATION RATE: 48 LB./ACRE
 MULCH TYPE: HAY OR STRAW MULCHING RATE: 2.5 T./ACRE
 NO FERTILIZER OR LIME FOR TEMP. SEEDING
- PERMANENT (INCLUDING "STEER" SLOPES (2:3:1))**
 SPECIES - APPLICATION RATE:
 BIGSFOOT TREFOLI: 10 LB./ACRE WHITE DUTCH CLOVER: 4 LB./ACRE
 KENTUCKI BLUEGRASS: 10 LB./ACRE PERENNIAL RYE: 8 LB./ACRE
 % MIN. PURITY FOR ABOVE SPECIES: 90%
 % MIN. GERMINATION FOR ABOVE SPECIES: 90%
 FERTILIZER TYPE: 10-20-20 FERTILIZER APPL. RATE: 400 LB./ACRE LIMING RATE: 4 T./ACRE (FERTILIZER AND LIMING RATES MAY BE REVISED BASED ON SOIL TESTS)
 MULCH TYPE: HAY OR STRAW MULCHING RATE: 2.5 T./ACRE
 PREFERRED SEEDING SEASON DATES: 4/1 to 6/15; 8/1 to 12/1

CONSTRUCTION & EROSION CONTROL SEQUENCE

- 1) CLOSE VALVES FROM POWER LAKE TO VFP & HFLB
- 2) OPEN VFP DRAIN VALVE
- 3) PERFORM SYSTEM IMPROVEMENTS (PUMP WATER FROM EXCAVATIONS, HFLB, ETC. TO POWER LAKE AS NEEDED)
- 4) STABILIZE ALL AFFECTED AREAS AS SOON AS POSSIBLE DURING OR WITHIN 1 WEEK AFTER CONSTRUCTION.
- 5) OPEN VALVE FROM POWER LAKE TO VFP

LEGEND

- EX. CONTOUR (INDEX)
- EX. CONTOUR (INTERMEDIATE)
- EX. "DESIGN" CONTOUR (INDEX)
- EX. "DESIGN" CONTOUR (INTERMEDIATE)
- EX. STREAM
- RAILROAD (APPARENTLY NOT USED)
- EX. 8" SCH80 PVC PIPE FROM ERS DESIGN (DASHED WHERE PERFORATED)
- EX. UTILITY POLE (ABANDONED)
- 950.44 BENCH MARK W/ELEVATION (LOC. V. APPX.)
- PS-1 WATER MONITORING LOCATION
- PROPOSED IMPROVEMENT

SHEET 2 of 3 WORK PLAN

Plan View, Legend & Notes

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
**POWER LAKE (DUGAN #4)
 TREATMENT SYSTEM MODIFICATIONS**
SMP# 14663004

MOSHANNON CREEK WATERSHED
 RUSH TOWNSHIP, CENTRE COUNTY, PA
 Scale: 1" = 50' October 2009
Blottsof, Inc. Mining and Reclamation Services
 Harris, PA www.blottsof.com

NOTES:
 BASE MAP PROVIDED BY U.S. ENVIRONMENTAL RESEARCH SERVICE (ERS), ALTOONA, PA. EXHIBIT PT - PASSIVE TREATMENT SYSTEM PLAN, SWAMP MINE EXCAVATION TREATMENT PLAN, DECEMBER 1996. INCLUDES BOTH EXISTING AND DESIGN CONTOURS (NOTE - DESIGN CONTOURS SHOWN NOT FIELD VERIFIED AND MAY NOT REPRESENT ACTUAL AS-BUILT FIELD CONDITIONS). ONLY SELECT INFORMATION (I.E. LAYERS) SHOWN FOR CLARITY. LOCATION OF EX. BAFFLES IN HFLB VERY APPROXIMATE.
 VERTICAL BENCH MARKS BASED ON DESIGN INVERT ELEVATION OF OF 8" SCH80 PIPE MEASURED BY BIOMOST AT INLET IN POWER LAKE. BENCH MARK LOCATIONS ARE VERY APPROXIMATE - FOR VERTICAL ELEVATION REFERENCE PURPOSES ONLY. 1" IRON PIPES WITH YELLOW CAPS (BENCH MARKS) SET 03/2008 BY CHAMBERLIN SURVEYING & CONSULTING, BROOKVILLE, PA. BASED ON ELEVATION INFORMATION PROVIDED BY BIOMOST.
 ADDITIONAL INFORMATION ADDED BY BIOMOST FROM LIMITED FIELD INVESTIGATION. LOCATION OF FEATURES BY VISUAL APPROXIMATION. ELEVATIONS MEASURED USING LASER LEVEL.
 ALL DIMENSIONS ARE FEET UNLESS OTHERWISE NOTED.
 EXISTING WATER ELEVATIONS MEASURED 01/08/2008 AND MAY VARY BASED ON PRECIPITATION AND OTHER FACTORS.
 ALL AREA TO BE AFFECTED (APPX. EAST OF RAILROAD) OWNED BY JIR LAND COMPANY, INC. PROPERTY OWNERSHIP INFORMATION FROM CENTRE COUNTY GIS RECORDS OBTAINED FEBRUARY 2008. THIS IS NOT A PROPERTY SURVEY.
 OWNERSHIP/RIGHT-OF-WAY OF UNUSED RAILROAD NOT SPECIFIED BY COUNTY GIS RECORDS.
 LIMIT EARTH DISTURBANCE TO THE MINIMUM NEEDED TO COMPLETE PROPOSED IMPROVEMENTS. TOTAL DISTURBED AREA NOT TO EXCEED 5 ACRES.

