

PROJECT CONSTRUCTION SEQUENCING

GENERAL CONDITIONS:

- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. ANY DEVIATION FROM THE FOLLOWING SEQUENCE MUST BE APPROVED IN WRITING FROM THE JURISDICTIONAL COUNTY CONSERVATION DISTRICT.
- CONSTRUCTION WILL TAKE PLACE IN SEVERAL SPREADS. WITHIN EACH SPREAD, PIPELINE CONSTRUCTION CREWS WILL BE IN CLOSE PROXIMITY TO EACH OTHER AND WILL BE ABLE TO EFFICIENTLY COMMUNICATE DURING THE ENTIRE CONSTRUCTION PHASE OF THE PROJECT. THE MINIMAL LENGTH OF EACH CONSTRUCTION SPREAD WILL NOT REQUIRE CONSTRUCTION CREWS TO BE SEPARATED BY SIGNIFICANT DISTANCES DURING PIPELINE CONSTRUCTION.
- WORK EFFORT WILL BE SUB DIVIDED INTO CATEGORIES AND PERFORMED BY SPECIALIZED CREWS (E.G., SITE PREPARATION/CLEARING, TRENCHING, PIPE CONSTRUCTION, TOPSOILING, SEEDING, ETC.) EACH CREW WILL PROGRESS IN A LOGICAL MANNER, GENERALLY FROM THE BEGINNING TO END OF THE PIPELINE. THE TIME PERIOD BETWEEN TRENCH EXCAVATION AND THE START OF SITE STABILIZATION SHALL NOT EXCEED 30 CALENDAR DAYS. RESTORATION WILL BE COMPLETED AS SOON AS POSSIBLE AFTER GRADING. CESSATION OF ACTIVITY FOR 4 DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.
- SOIL DISTURBANCE (E.G., GRUBBING, AND TOPSOIL STRIPPING) SHALL BE MINIMIZED PRIOR TO INSTALLING EROSION AND SEDIMENT CONTROLS IN THE VICINITY OF THE DISTURBANCE IN ACCORDANCE WITH THIS EROSION & SEDIMENT CONTROL PLAN (E&SCP). SIGNIFICANT DEVIATION FROM THE FOLLOWING SEQUENCE OF CONSTRUCTION MUST BE APPROVED IN WRITING (E.G. VIA E-MAIL) BY THE COUNTY CONSERVATION DISTRICT.
- MINIMIZE TOTAL AREA OF DISTURBANCE. MAINTAIN TEMPORARY SOIL STOCKPILES WITHIN EXISTING SOIL EROSION AND SEDIMENT CONTROLS. SHOULD EXCAVATION ENTER STREAMS, FOLLOW SPECIFIC DETAILS FOR THESE AREAS SHOWN ON THE DRAWINGS AND INCLUDE THE STEPS DETAILED IN THE SPECIFIC SECTIONS BELOW. PULLBACK AREAS FOR HDDS WILL BE CLEARED AND PREPARED AS NEEDED TO SUPPORT STAGING, WELDING AND TESTING OF THE HDD PIPE SECTIONS. AREAS NOT UTILIZED FOR CONSTRUCTION ACTIVITIES SHOULD BE AVOIDED TO MINIMIZE IMPACTS
- TEMPORARY WATERBARS/BROAD-BASED DIPS SHALL BE INSTALLED AT THE END OF EACH WORKDAY AS DETERMINED BY PENNEAST ENVIRONMENTAL INSPECTORS.
- STAGING AREAS, ASSEMBLY AREAS, TEMPORARY EQUIPMENT AND NON-HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET BACK FROM THE TOP OF THE STREAM BANK, WATER BODY, OR WETLAND AND OUTSIDE OF THE 100 YEAR FLOODWAY. HAZARDOUS OR POLLUTIVE MATERIAL STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 100 FEET BACK FROM THE TOP OF THE STREAM BANK, WATER BODY, OR WETLAND AND OUTSIDE OF THE 100-YEAR FLOODWAY.
- THE GENERAL CONTRACTOR SHALL BE IDENTIFIED TO BECOME A CO-PERMITTEE IN THE EROSION AND SEDIMENT CONTROL GENERAL PERMIT (ESCGP) AND ARE RESPONSIBLE FOR THE DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY. THE GENERAL CONTRACTOR SHALL BE JOINTLY AND INDIVIDUALLY RESPONSIBLE TOGETHER WITH PENNEAST (PERMITTEE) FOR COMPLIANCE WITH ALL CONDITIONS OF THIS PERMIT AND APPLICABLE LAWS. PRIOR TO CONSTRUCTION, PENNEAST AND THE GENERAL CONTRACTOR SHALL NOTIFY THE PADEP OR THE CONSERVATION DISTRICT BY SUBMITTING AN APPLICATION FOR "CO-PERMITTEE ADDITION TO THE ESCGP AUTHORIZATION".
- FOR OPEN-CUT AREAS, THE LENGTH OF TIME REQUIRED TO EXCAVATE THE TRENCH, INSTALL THE PIPELINES, AND BACKFILL THE TRENCH WILL NOT EXCEED 30 CALENDAR DAYS FOR MOST INSTALLATIONS. LONGER TIME PERIODS MAY BE APPROVED ON A CASE-BY-CASE BASIS.

CONSTRUCTION PREPARATION ACTIVITIES:

- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&SCP PREPARER, AND A REPRESENTATIVE FROM THE APPLICABLE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMP'S AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.
- AT LEAST 3 DAYS PRIOR TO START ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THE SEQUENCE MUST BE APPROVED BY THE APPLICABLE COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED.
- ESTABLISH CONSTRUCTION SUPPORT FACILITIES.
- IDENTIFY UTILITIES AND OTHER CRITICAL SITE FEATURES TO BE PROTECTED
- FLAG AND/OR STAKE WETLANDS AND OTHER SENSITIVE AREAS TO BE PROTECTED.
- FLAG AND/OR STAKE PROPOSED CONSTRUCTION LIMITS OF DISTURBANCE.
- ORANGE CONSTRUCTION FENCE WILL BE PROVIDED AND INSTALLED AT WETLAND AREAS ADJACENT TO THE LOD AND NOT PLANNED TO BE IMPACTED TO IDENTIFY AND DETER CONSTRUCTION EQUIPMENT, VEHICLES AND PERSONNEL FROM ENTERING WETLAND.
- INSTALL ROCK CONSTRUCTION ENTRANCES AND INSTALL TEMPORARY ACCESS ROADS. THE INSTALLATION OF TEMPORARY ACCESS ROADS MAY REQUIRE SELECTIVE TREE LIMB CLEARING AND PLACEMENT OF TEMPORARY STONE.

SITE CLEARING (TREE CUTTING) & GRUBBING:

- INITIATE CLEARING OF THE CONSTRUCTION WORK AREA (CWA). INSTALL ALL PERIMETER CONTROLS AND CLEAN WATER DIVERSIONS IN ACCORDANCE WITH THIS PLAN AS PART OF SITE CLEARING. EROSION AND SEDIMENT CONTROL INSTALLATION, SIMILAR TO OTHER ACTIVITIES, MAY BE CONDUCTED AS PIPELINE CONSTRUCTION ACTIVITIES PROGRESS. HOWEVER, SOIL DISTURBANCE SHALL BE MINIMIZED UNTIL THE APPROPRIATE TEMPORARY EROSION AND SEDIMENT CONTROLS HAVE BEEN INSTALLED IN THE PROPOSED WORK AREA.
- ONCE PERIMETER CONTROLS HAVE BEEN INSTALLED, INITIATE GRUBBING OF CWA AS NEEDED. LIMIT CLEARING AND GRUBBING TO CUTTING EXISTING VEGETATION RATHER THAN BULLDOZING THE VEGETATION.
- ALL BRUSH AND TREES WILL BE FELLED INTO THE CWA TO MINIMIZE DAMAGE TO TREES AND STRUCTURES ADJACENT TO THE CWA. TREES THAT INADVERTENTLY FALL BEYOND THE EDGE OF THE CWA WILL BE IMMEDIATELY MOVED ONTO THE CWA AND DISTURBED AREAS WILL BE IMMEDIATELY STABILIZED.
- BRUSH HOG/MOW EXISTING VEGETATION TO FACILITATE INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROLS.
- AS CLEARING PROGRESSES, INSTALL VEHICULAR TEMPORARY EQUIPMENT BRIDGES AT STREAMS AND TEMPORARY TIMBER MATS AT WETLANDS AS SHOWN ON THE E&S PLANS. GRUBBING SHALL NOT TAKE PLACE WITHIN WETLAND AREAS TO BE USED FOR TEMPORARY ACCESS ROADS.
- WOODY VEGETATION CLEARING OF THE CWA AND STAGING AREAS WILL TAKE PLACE IN A SINGLE PASS WITHIN EACH SPREAD. CONTRACTOR/PENNEAST TO DETERMINE WHETHER TIMBER WILL BE HAULED OFF SITE OR CHIPPED AND SPREAD EVENLY WITHIN THE CWA. REMOVED FROM SITE, STOCKPILED AT STAGING AREAS OR BLOWN OFF-SITE WITH LANDOWNER APPROVAL. WOOD CHIPS WILL NOT BE LEFT WITHIN AGRICULTURAL LANDS, WETLANDS, OR WITHIN 50 FEET OF WETLANDS. WOOD CHIPS WILL NOT BE STOCKPILED IN A MANNER THAT THEY MAY BE TRANSPORTED INTO A WETLAND.
- GRUB TREE STUMPS IN CLEARED CWA. GRIND STUMPS AND REMOVE FROM ROW AND HAUL OFF SITE OR STOCKPILE AT STAGING AREAS FOR USE AS MULCH STABILIZATION AFTER EARTH DISTURBING ACTIVITIES ARE COMPLETED.
- IN WETLANDS, CUT VEGETATION JUST ABOVE GROUND LEVEL AND GRIND STUMPS TO GROUND LEVEL, LEAVING EXISTING ROOT SYSTEMS IN PLACE. IMMEDIATELY REMOVE ALL CUT TREES, CHIPS FROM GRINDING OPERATIONS AND BRANCHES FROM THE WETLANDS.
- LIMIT PULLING OF TREE STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE. DO NOT GRADE OR REMOVE STUMPS OR ROOT SYSTEMS FROM THE REST OF THE CWA IN WETLANDS UNLESS THE CHIEF INSPECTOR AND EI DETERMINE THAT SAFETY-RELATED CONSTRUCTION CONSTRAINTS REQUIRE REMOVAL OF TREE STUMPS FROM UNDER THE WORKING SIDE OF THE CWA.
- GRUBBING SHALL NOT TAKE PLACE WITHIN 10 FEET OF TOP OF STREAM BANKS UNTIL ALL MATERIALS REQUIRED TO COMPLETE THE CROSSING ARE ON SITE AND PIPE IS READY FOR INSTALLATION.
- NOTIFY THE COUNTY CONSERVATION DISTRICT AFTER INSTALLATION OR STABILIZATION OR ALL PERIMETER SEDIMENT CONTROL BMP'S (INCLUDING TOPSOIL PILES) WITHIN EACH WORK AREA AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH BULK EARTH DISTURBANCE ACTIVITIES.
- TREE CLEARING ESTIMATED TO BE IN ALL "U" CLASSIFICATION AREAS AS SHOWN ON THE LAND USE BAND AND ALL PFO WETLANDS.
- EXISTING SURFACE DRAINAGE PATTERNS WILL NOT BE ALTERED BY THE PLACEMENT OF TIMBER OR BRUSH PILES AT THE EDGE OF THE CONSTRUCTION ROW.

ROUGH GRADING AND STOCKPILING:

- RE-STAKE THE CWA TO REPLACE ANY SIGNAGE OR FLAGGING THAT WAS REMOVED OR DAMAGED DURING CLEARING ACTIVITIES.
- STRIP TOPSOIL. STOCKPILE TOPSOIL ALONG THE EDGE OF THE CWA AND TEMPORARILY STABILIZE.
- ROUGH GRADE SITE. VERIFY COMPOST FILTER SOCK AROUND STOCKPILED TOPSOIL.
- THE MIXING OF TOPSOIL WITH SUBSOIL SHALL BE PREVENTED BY STRIPPING TOPSOIL FROM THE WORK AREA WITHIN DESIGNATED AREAS AND IN COORDINATION WITH THE APPLICABLE ACCESS AGREEMENTS.
- SEGREGATE AT LEAST 12 INCHES OF TOPSOIL IN DEEP SOILS WITH MORE THAN 12 INCHES OF TOPSOIL. IN SOILS WITH LESS THAN 12 INCHES OF TOPSOIL, MAKE EVERY EFFORT TO SEGREGATE THE ENTIRE TOPSOIL LAYER.
- INSTALL WATERBARS AS SHOWN ON E&S DRAWINGS. WATERBARS SHALL BE ALIGNED SO THAT DISCHARGES DO NOT FLOW BACK ONTO THE RIGHT-OF-WAY OR INTO THE OPEN TRENCH. RUNOFF SHOULD BE DIRECTED TO THE DOWNSLOPE SIDE OF THE DISTURBED AREA MAINTAINING A 2% MAXIMUM GRADIENT. INSTALL A SUMP AND COMPOST FILTER SOCK AT THE OUTLET END OF EACH WATERBAR.
- UTILIZE WOOD CHIPS IN HEAVILY TRAFFICKED AREAS TO REDUCE THE POTENTIAL FOR RUTTING. WOOD CHIPS WILL NOT BE SPREAD IN WETLANDS OR STREAMS.

THE FOLLOWING SECTIONS FURTHER DEFINE THE WORK TO BE PERFORMED FOR CERTAIN ACTIVITIES AND ASSUMES THAT CONSTRUCTION PREPARATION ACTIVITIES, SITE CLEARING (TREE CUTTING) & GRUBBING, AND ROUGH GRADING AND STOCKPILING WORK HAS BEEN COMPLETED.

PIPELINE CONSTRUCTION:

UPLAND LOCATIONS:

- VERIFY THE APPROPRIATE UPLAND EROSION AND SEDIMENT CONTROLS ARE IN PLACE.
 - EXCAVATE PIPELINE TRENCH. LIMIT TRENCH WIDTH TO WHAT IS NECESSARY TO INSTALL PIPE. STOCKPILE SUITABLE SUBSOIL MATERIAL ADJACENT TO TOPSOIL STOCKPILE AND ENSURE NO MIXING. FLAG DRAINAGE TILES DAMAGED DURING DITCHING ACTIVITIES FOR REPAIR.
 - DELIVER PIPE TO SITE, STRING PIPE, BEND PIPE AND PREPARE THE PIPE JOINTS FOR WELDING.
 - WELD PIPE JOINTS AND PERFORM NDT (NON-DESTRUCTIVE TESTING).
 - DISCHARGE ALL WATER FROM TRENCH USING PUMPED WATER FILTER BAGS. PUMPED WATER FILTER BAGS TO BE LOCATED ON THE DOWNSLOPE SIDE OF THE CWA, PREFERABLY ADJACENT TO A WELL VEGETATED AREA. DOUBLE CONTAINMENT WILL BE REQUIRED IN HQ/EV AREAS AS SHOWN IN THE DETAILS.
 - INSTALL THE PIPELINE IN THE TRENCH.
 - INSTALL TRENCH PLUGS.
 - BACKFILL THE PIPELINE TRENCH. BACKFILL MATERIAL SHOULD BE MOUNDING OVER THE TRENCH TO ALLOW FOR SETTLING EXCEPT IN AGRICULTURAL FIELDS AND MANICURED LAWNS. RESTORE TEMPORARY AND PERMANENT WATERBARS.
 - GRADE AREAS AS CLOSELY AS POSSIBLE TO ORIGINAL CONTOURS. TEMPORARY WATERBARS WILL BE REMOVED AT THIS POINT.
 - REPLACE TOPSOIL.
 - PERFORM PERMANENT STABILIZATION, INCLUDING:
 - APPLY PERMANENT SEEDING, SOIL AMENDMENTS AND MULCH OR EROSION CONTROL BLANKET.
- ROADWAY, DRIVEWAYS AND RAILROADS CROSSINGS:**
- STRING PIPE OUTSIDE OF ROAD/DRIVEWAY AND PREPARE THE PIPE JOINTS FOR WELDING AND NON-DESTRUCTIVE TESTING.
 - EXCAVATE PIPELINE TRENCH FOR THE OPEN TRENCH CROSSING OR EXCAVATE BORE PITS FOR CONVENTIONAL BORED CROSSING.
 - DISCHARGE ALL WATER FROM TRENCH USING PUMPED WATER FILTER BAGS. PUMPED WATER FILTER BAGS TO BE LOCATED ON THE DOWNSLOPE SIDE OF THE CWA, PREFERABLY ADJACENT TO A WELL VEGETATED AREA. DOUBLE CONTAINMENT WILL BE REQUIRED IN HQ/EV AREAS AS SHOWN IN THE DETAILS.
 - MOVE THE PIPE SECTIONS TO THE TRENCH OR PERFORM CONVENTIONAL BORE.
 - INSTALL THE PIPELINE IN THE TRENCH.
 - INSTALL TRENCH PLUGS.
 - BACKFILL THE PIPELINE TRENCH.

STREAM, RIVER, OR OTHER WATERBODY UTILITY CROSSINGS THAT WILL BE OPEN CUT:

- NO WORK SHALL COMMENCE THROUGH A STREAM, RIVER, OR OTHER WATERBODY DURING INCLEMENT WEATHER. PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES FOR A STREAM CROSSING INSTALLATION, AN ASSESSMENT OF CURRENT WEATHER CONDITIONS, WEATHER FORECAST, AND FLOWS OF THE STREAM CHANNEL FOR CROSSING FEASIBILITY WILL BE CONDUCTED. THIS DETERMINATION WILL BE CAPTURED IN A DOCUMENT REQUIRING SIGN-OFF FROM THE ENVIRONMENTAL INSPECTOR, CONTRACTOR, AND PENNEAST REPRESENTATIVE THAT A CROSSING CAN BE ACHIEVED IN THE PROJECTED TIMEFRAME. WATERBODIES WILL BE CROSSED ACCORDING TO APPROVED CONSTRUCTION WINDOWS IF OUTSIDE OF TIMING RESTRICTIONS.
- A UTILITY LINE CROSSING OF A STREAM CHANNEL 10 FEET IN WIDTH OR LESS SHALL BE COMPLETED WITHIN 24 HOURS FROM START TO FINISH INCLUDING TRENCH BACKFILL, STABILIZATION OF STREAM BANKS AND STABILIZATION OF THE AREA 50 FEET (100 FEET IN HQ / EV WATERSHEDS) BACK FROM THE TOP OF EACH STREAM BANK.
- A UTILITY LINE CROSSING OF A STREAM CHANNEL BETWEEN 10 FEET AND 100 FEET IN WIDTH SHALL BE COMPLETED WITHIN 48 HOURS FROM START TO FINISH INCLUDING TRENCH BACKFILL, STABILIZATION OF STREAM BANKS AND STABILIZATION OF THE AREA 50 FEET (100 FEET IN HQ / EV WATERSHEDS) BACK FROM THE TOP OF EACH STREAM BANK UNLESS OTHERWISE APPROVED BY PADEP/USACE.
- BMP'S (I.E. PUMPED WATER FILTER BAGS) FOR REMOVING SEDIMENT FROM PUMPED WATER SHOULD BE AVAILABLE AT THE STREAM CROSSING SITE BEFORE TRENCHING COMMENCES AND MAINTAINED UNTIL TRENCH BACKFILLING IS COMPLETED. ASSEMBLY AREAS, TEMPORARY EQUIPMENT AND NON-HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 50 FEET BACK FROM THE TOP OF ANY BANK.
- FOR DRY STREAM CROSSINGS INSTALL DAM AND PUMP, DRY FLUME, OR COFFERDAM IN ACCORDANCE WITH NOTES AND DETAILS.
- DEWATER WORK AREA; WATER FROM THE EXCAVATION SHALL BE PUMPED TO A SEDIMENT FILTER BAG, WHERE POSSIBLE, EXCAVATION SHALL BE FROM THE TOP OF THE STREAM BANK, WHERE TECHNICALLY FEASIBLE.
- REMOVE EXISTING STREAMBED MATERIAL AND STOCKPILE SEPARATELY.
- INSTALL THE PIPELINE IN THE TRENCH WITH SADDLE BAGS OR OTHER NEGATIVE BUOYANCY MEASURES (CONCRETE WEIGHT COATING). CONCRETE WEIGHT COATING TO BE APPLIED AT PIPEYARD OR OTHER APPROVED LOCATION.
- INSTALL TRENCH PLUGS.
- ONCE PIPELINE IS INSTALLED, REPLACE SUBSTRATE BACK IN STREAMBED AND RESTORE TO EXISTING CONDITION.
- INSTALL EROSION CONTROL BLANKETS AS SHOWN ON THE E&S PLANS, FROM TOP OF BANK OUTWARD 50 FEET (100 FEET IN HQ/EV).
- STABILIZE CHANNEL EXCAVATION AND STREAM BANKS PRIOR TO REDIRECTING STREAM FLOW. REFER TO E&S TYPICAL DETAILS FOR STREAMBED AND BANK STABILIZATION WITH REINFORCEMENT BLANKET.

WETLAND CROSSINGS:

- LOCATE STAGING AREA AND ACCESS POINTS. STAGING AREAS SHOULD BE LOCATED AT LEAST 50 FEET FROM THE EDGE OF THE WETLAND. VERIFY PLACEMENT OF SEDIMENT BARRIERS DOWN SLOPE OF THESE AREAS.
- VERIFY ORANGE FLAGGING AROUND PERIMETER OF WETLAND AND SEDIMENT BARRIERS ALONG THE PERIMETERS OF THE SITE AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- TIMBER MATS SHALL BE USED DURING THE CROSSINGS OF WETLANDS. ORIGINAL GRADES THROUGH WETLANDS MUST BE RESTORED AFTER TRENCHING AND BACKFILLING. ANY EXCESS FILL MATERIALS MUST BE REMOVED FROM THE WETLAND AND NOT SPREAD ON-SITE.
- EXCAVATE TRENCH. CAREFULLY REMOVE SOIL FROM WETLAND WITH THE ROOTS INTACT. THIS SOIL SHOULD BE PLACED IN A SEPARATE STOCKPILE TO BE REUSED DURING THE WETLAND SURFACE RESTITUTION.
- DEWATER WORK AREA; WATER FROM THE EXCAVATION SHALL BE PUMPED TO A FILTER BAG.
- INSTALL THE PIPELINE IN THE TRENCH WITH SADDLE BAGS OR OTHER NEGATIVE BUOYANCY MEASURES (CONCRETE WEIGHT COATING). CONCRETE WEIGHT COATING TO BE APPLIED AT PIPEYARD OR OTHER APPROVED LOCATION.
- INSTALL TRENCH PLUGS AT WETLAND BOUNDARIES AND AT 100-FT INTERVALS WITHIN THE WETLAND, WHERE APPLICABLE, TO PREVENT THE TRENCH FROM DRAINING THE WETLAND OR CHANGING ITS HYDROLOGY.
- BACKFILL PIPE TRENCH. BACKFILL THE TOP 12-INCHES OF THE EXCAVATED TRENCH WITH THE STOCKPILED WETLAND SOIL TO MATCH ORIGINAL SURFACE GRADES. ELEVATION OF WETLAND WILL BE SURVEYED. AFTER POST CONSTRUCTION SURVEY ELEVATION HAS BEEN CONFIRMED TO MATCH PRE-CONSTRUCTION CONDITIONS, THE WETLAND WILL BE SEEDING USING THE WETLAND SEED MIX.
- NO SOIL AMENDMENTS SUCH AS AGRICULTURAL LIME, FERTILIZER, ETC. WILL BE USED WITHIN WETLAND AREAS.
- MAINTAIN ALL EROSION SEDIMENTATION CONTROL DEVICES UNTIL SITE WORK IS COMPLETE AND A UNIFORM 70% VEGETATIVE COVER OVER THE DISTURBED AREA, RE-GRADE AND REVEGETATE AREAS DISTURBED DURING THE REMOVAL OF THE SOIL AND SEDIMENT CONTROLS.

FOR CONVENTIONAL BORE AND HDD CROSSINGS:

CONVENTIONAL BORES

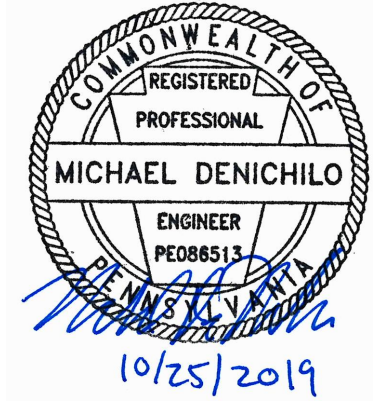
- VERIFY PLACEMENT OF COMPOST FILTER SOCKS DOWNGRADIENT OF THE BORE AND RECEIVING PITS.
- EXCAVATE PITS. STOCKPILE MATERIAL FROM THE PIT EXCAVATION IN THE CWA.
- BORE BENEATH STREAMS WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.
- WATER FROM THE BORE PITS AND WORK AREAS SHALL BE PUMPED TO A PUMPED WATER FILTER BAG.
- UPON COMPLETION, BACKFILL ALL PITS.

HDD

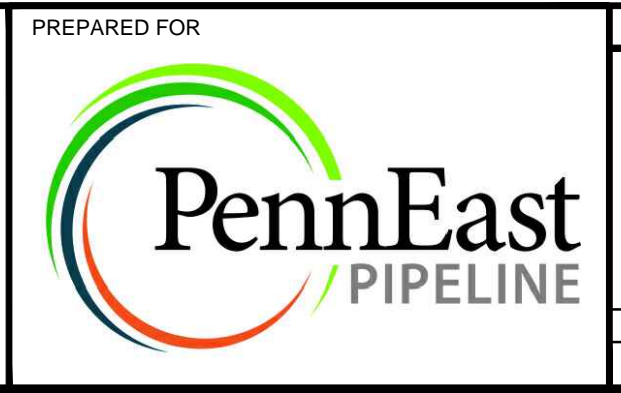
- INSTALL COMPOST FILTER SOCKS AT STAGING AND PULLBACK AREAS IN ACCORDANCE WITH E&S PLAN SHEETS. WHERE APPLICABLE TEMPORARY GRADING IS PROVIDED ON HDD EXHIBIT PLAN SHEETS.
- BORE AND PULLBACK AREAS SHALL BE LOCATED A MINIMUM OF 50 FT BACK FROM EACH TOP OF STREAM BANK UNLESS AUTHORIZED BY PADEP.
- THE HDD BORE ALIGNMENT SHALL BE MONITORED FOR INADVERTENT RETURNS. AN INADVERTENT RETURN PLAN HAS BEEN DEVELOPED FOR THIS PROJECT. THIS PLAN IS TO BE REVIEWED ON SITE, AND IMPLEMENTED FOR EACH DRILL CONDUCTED.
- UPON COMPLETION OF HDD BORE, RESTORE BORE AND PULLBACK AREAS TO PRE-CONSTRUCTION CONDITIONS IN ACCORDANCE WITH E&S PLANS AND DETAILS.

HYDROSTATIC TESTING:

- THE EI SHALL NOTIFY THE AGENCIES OF THE INTENT TO USE SPECIFIC TEST WATER SOURCES AT LEAST 48 HOURS BEFORE TESTING ACTIVITIES.
- PUMPS USED FOR HYDROSTATIC TESTING WITHIN 100 FEET OF ANY WATERBODY OR WETLAND SHALL BE OPERATED AND REFUELED IN ACCORDANCE WITH THE SPOC PLAN.
- USE ONLY THE WATER SOURCES IDENTIFIED IN THE CLEARANCE PACKAGE/PERMIT BOOK.
- LOCATE HYDROSTATIC TEST MANIFOLDS OUTSIDE WETLANDS AND RIPARIAN AREAS TO THE GREATEST EXTENT PRACTICAL.
- FOR AN OVERLAND DISCHARGE OF TEST WATER, DEWATER INTO AN ENERGY DISSIPATION DEVICE CONSTRUCTED OF STRAW BALES AND ABSORBENT BOOMS.
- DEWATER ONLY AT THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS OR LOCATIONS IDENTIFIED IN THE HYDROSTATIC TEST PACKAGE.
- LOCATE ALL DEWATERING STRUCTURES IN A WELL-VEGETATED AND STABILIZED AREA, IF PRACTICAL, AND ATTEMPT TO MAINTAIN AT LEAST A 50-FOOT VEGETATED BUFFER FROM ADJACENT WATERBODY/WETLAND AREAS. IF AN ADEQUATE BUFFER IS NOT AVAILABLE, BMP'S OR SIMILAR EROSION CONTROL MEASURE MUST BE INSTALLED.
- REGULATE DISCHARGE RATE. USE ENERGY DISSIPATION DEVICE(S), AND INSTALL BMP'S, AS NECESSARY, TO PREVENT EROSION, STREAMBED SCOUR TO AQUATIC RESOURCES, SUSPENSION OF SEDIMENTS, FLOODING OR EXCESSIVE STREAM FLOW.
- THE EI SHALL SAMPLE AND TEST THE SOURCE WATER AND DISCHARGE WATER IN ACCORDANCE WITH THE PERMIT REQUIREMENTS.



REVISIONS					
	REVISIONS	DATE	DRAWN	CK	APPR
A	ISSUED FOR PADEP	10/2018	JL (MM)	AJD (MM)	MDN (MM)
B	REVISED FOR PADEP	10/2019	JL (MM)	AJD (MM)	MDN (MM)



PENNEAST PIPELINE PROJECT		
SOIL EROSION AND SEDIMENTATION CONTROL PLAN E&S GENERAL NOTES		
SCALE	DRAWING NO.	REVISION
AS SHOWN	000-01-01-003D	B

PROJECT CONSTRUCTION SEQUENCING (CONTINUED)

DEMobilIZATION AND SITE CLEAN UP:

1. COMPLETE PERMANENT STABILIZATION OF ALL REMAINING AREAS OF DISTURBANCE, INCLUDING:
 - A. GRADE AREAS AS CLOSELY AS POSSIBLE TO ORIGINAL CONTOURS.
 - B. REPLACE TOPSOIL
 - C. APPLY PERMANENT SEEDING, SOIL AMENDMENT, AND MULCH OR EROSION CONTROL BLANKET.
2. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER OR OPERATOR SHALL CONTACT THE COUNTY CONSERVATION DISTRICT AND PADEP FOR AN INSPECTION PRIOR TO THE REMOVAL/CONVERSION OF THE EROSION AND SEDIMENT CONTROL BMPs.
3. REMOVE TEMPORARY CONTROL MEASURES UPON APPROVAL OF THE COUNTY CONSERVATION DISTRICT AGENT OR PADEP.
4. ANY AREA THAT USED STONE AND/OR TIMBER MATS FOR TEMPORARY STABILIZATION AND/OR ACCESS WILL BE COMPLETELY REMOVED AND SOIL WILL BE DE-COMPACTED BY USING TRACKED EQUIPMENT MAKING MULTIPLE PASSES OVER AREAS. REESTABLISH PRECONSTRUCTION CONTOURS AND REPLACE TOPSOIL TO A MINIMUM OF 4-8 INCHES DEEP AND SEED AND MULCH AREAS. VEHICULAR TRAFFIC SHOULD BE RESTRICTED FROM AREAS TO PREVENT SOIL COMPACTION.
5. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY BMPs, INSTALLATIONS OF ALL PERMANENT PCSM BMPs, AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE COUNTY CONSERVATION DISTRICT FOR A FINAL INSPECTION. TEMPORARY WORKSPACE WILL BE RESTORED AS CLOSELY AS POSSIBLE TO ORIGINAL CONTOURS.
6. ANY MATERIALS NOT INCORPORATED AS TRENCH BACKFILL OR GENERAL GRADING (E.G. UNCONTAMINATED SOIL, ROCK, STONE, GRAVEL, BRICK AND BLOCK, CONCRETE AND USED ASPHALT, AND WASTE FROM LAND CLEARING, GRUBBING AND EXCAVATION, INCLUDING TREES, BRUSH, STUMPS AND VEGETATIVE MATERIAL) WILL BE REUSED, RECYCLED OR REMOVED FROM THE CONSTRUCTION WORK LIMITS IN ACCORDANCE WITH PADEP'S SOLID WASTE MANAGEMENT AT 25 PA CODE.260.1 ET SEQ., 271.1 AND 287.1 ET SEQ.
7. CONTRACTOR DEMOBILIZATION.

POST-CONSTRUCTION:

1. CONTINUE TO CONDUCT INSPECTIONS UNTIL THE SITE HAS REACHED PERMANENT STABILIZATION.
2. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
3. TEMPORARY WATERBARS WILL BE REMOVED AS PART OF THE REGRADING BACK TO ORIGINAL CONTOURS STAGE. ALL OTHER TEMPORARY E&S BMPs MAY BE REMOVED AFTER THE ENTIRE CONTRIBUTORY AREA TO EACH BMP REACHES PERMANENT STABILIZATION.
4. REMOVE ANY REMAINING TEMPORARY WATERBODY AND WETLAND EQUIPMENT CROSSINGS.
5. REMOVE ANY REMAINING STABILIZED CONSTRUCTION ENTRANCES.
6. PRIOR TO APPLICATION OF THE SEED IN ALL SUPPORT & STAGING AREAS, THE SEEDBED WILL BE PREPARED TO A DEPTH OF 3 TO 4 INCHES USING APPROPRIATE EQUIPMENT TO PROVIDE A FIRM, SMOOTH SEEDBED THAT IS FREE OF DEBRIS AND SCARIFIED TO ENSURE SEEDS LODGE AND GERMINATE. THE SEED MIXTURE WILL BE APPLIED UNIFORMLY PER PADEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL, MARCH 2012, CHAPTER 11 STABILIZATION FOR SEEDING RECOMMENDATIONS.
7. IN ACCORDANCE WITH 25 PA CODE 102.7, UPON COMPLETION OF ALL CONSTRUCTION ACTIVITIES, A NOTICE OF TERMINATION FORM WILL BE SUBMITTED TO TERMINATE THE AUTHORIZATION OF COVERAGE INDICATING ALL ACTIVITIES UNDER THIS PERMIT HAVE BEEN COMPLETED.

SITE RESTORATION AND POST CONSTRUCTION STORMWATER MANAGEMENT:

FOR MAINLINE PIPELINE SITE RESTORATION REFER TO THE SITE RESTORATION PLAN PACKAGE. FOR POST CONSTRUCTION STORMWATER MANAGEMENT OF PERMANENT FACILITY SITES REFER TO EACH POST CONSTRUCTION STORMWATER MANAGEMENT PLAN PACKAGE.

RECYCLING AND DISPOSAL METHODS

RECYCLING AND DISPOSAL METHODS

THE RESTORATION OF THE PIPELINE RIGHT-OF-WAY WILL REQUIRE THE REMOVAL OF THE TEMPORARY MATERIALS. THE TEMPORARY MATERIALS INCLUDE, BUT MAY NOT BE LIMITED TO, STONE SURFACES AND ASSOCIATED GEOTEXTILES. THE CONTRACTORS ARE REQUIRED TO DISPOSE OF THE MATERIALS AT SUITABLE DISPOSAL OR RECYCLING SITES AND IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

CONTRACTORS ARE REQUIRED TO INVENTORY AND MANAGE THEIR CONSTRUCTION SITE MATERIALS. THE GOAL IS TO BE AWARE OF THE MATERIALS ON-SITE, ENSURE THEY ARE PROPERLY MAINTAINED, USED, AND DISPOSED OF, AND TO MAKE SURE THE MATERIALS ARE NOT EXPOSED TO STORMWATER.

MATERIALS COVERED

THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION (NOTE: THIS LIST IS NOT AN ALL-INCLUSIVE LIST AND THE MATERIALS MANAGEMENT PLAN CAN BE MODIFIED TO ADDRESS ADDITIONAL MATERIALS USED ON-SITE):

- ACIDS
- DETERGENTS
- FERTILIZERS (NITROGEN/PHOSPHORUS)
- HYDROSEEDING MIXTURES
- PETROLEUM BASED PRODUCTS
- SANITARY WASTES
- SOIL STABILIZATION ADDITIVES
- SOLDER
- SOLVENTS
- OTHER (LIST HERE): _____

THESE MATERIALS MUST BE STORED AS APPROPRIATE AND SHALL NOT CONTACT STORM OR NON-STORMWATER DISCHARGES. CONTRACTOR SHALL PROVIDE A WEATHER PROOF CONTAINER TO STORE CHEMICALS OR ERODIBLE SUBSTANCES THAT MUST BE KEPT ON THE SITE. CONTRACTOR IS RESPONSIBLE FOR READING, MAINTAINING, AND MAKING EMPLOYEES AND SUBCONTRACTORS AWARE OF MATERIAL SAFETY DATA SHEETS (MSDSs).

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

1. GOOD HOUSEKEEPING PRACTICES

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING CONSTRUCTION:

 - STORE ONLY ENOUGH MATERIAL REQUIRED TO DO THE JOB.
 - STORE MATERIALS IN A NEAT, ORDERLY MANNER.
 - STORE CHEMICALS IN WATERTIGHT CONTAINERS OR IN A STORAGE SHED, UNDER A ROOF, COMPLETELY ENCLOSED, WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT SPILL OR LEAKAGE. DRIP PANS SHALL BE PROVIDED UNDER DISPENSERS.
 - SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
 - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
 - INSPECTIONS WILL BE PERFORMED TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
 - COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, ETC.).
 - MINIMIZE EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION.
 - MINIMIZE THE POTENTIAL FOR OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS.
2. HAZARDOUS PRODUCTS

THESE PRACTICES WILL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. MSDSs FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE(S) WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. A MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN A FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

 - PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS WITH THE ORIGINAL LABELS IN LEGIBLE CONDITION.
 - ORIGINAL LABELS AND MSDSs WILL BE PRODUCED AND USED FOR EACH MATERIAL.
 - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL/STATE/FEDERAL RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.
3. HAZARDOUS WASTES

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF BY THE CONTRACTOR IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. SITE PERSONNEL WILL BE INSTRUCTED.

4. CONCRETE AND OTHER WASH WATERS

PREVENT DISPOSAL OF RINSE, WASH WATERS, OR MATERIALS ON IMPERVIOUS OR PERVIOUS SURFACES, INTO STREAMS, WETLANDS, OR OTHER WATERBODIES.

CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE, BUT ONLY IN EITHER (1) SPECIFICALLY DESIGNATED DIKED AREAS WHICH HAVE BEEN PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASHOUT AND SOIL AND STORMWATER HAVING THE POTENTIAL TO BE DISCHARGED FROM THE SITE OR (2) IN LOCATIONS WHERE WASTE CONCRETE CAN BE POURED INTO FORMS TO MAKE RIPRAP OR OTHER USEFUL CONCRETE PRODUCTS.

THE HARDENED RESIDUE FROM THE CONCRETE WASHOUT DIKED AREAS WILL BE DISPOSED OF IN THE SAME MANNER AS OTHER NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS OR MAY BE BROKEN UP AND USED ON THE SITE AS DEEMED APPROPRIATE BY THE CONTRACTOR AND GEOTECHNICAL ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

ALL CONCRETE WASHOUT AREAS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE AREA CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. IF REQUIRED, ADDITIONAL BMPs MUST BE IMPLEMENTED TO PREVENT CONCRETE WASTES FROM CONTRIBUTING TO STORMWATER DISCHARGES. THE LOCATION OF THE CONCRETE WASHOUT AREA(S) MUST BE IDENTIFIED BY THE CONTRACTOR/JOB SITE SUPERINTENDENT, ON THE JOB SITE COPY OF THE EROSION AND SEDIMENT CONTROL PLAN(S) IN THIS ESCP.
5. SANITARY WASTES

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGES IS NEGLIGIBLE.
6. SOLID AND CONSTRUCTION WASTES

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL COMPLY WITH ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER/CONTAINER LIDS SHALL BE CLOSED AT THE END OF EVERY BUSINESS DAY AND DURING RAIN EVENTS. APPROPRIATE MEASURES SHALL BE TAKEN TO PREVENT DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE RECEIVING WATER.
7. CONSTRUCTION ACCESS

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED ROADS ADJACENT TO THE SITE ENTRANCE WILL BE INSPECTED DAILY AND SWEEP AS NECESSARY TO REMOVE ANY EXCESS OF MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN AS NECESSARY.
8. PETROLEUM PRODUCTS

ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. PETROLEUM STORAGE TANKS ON SITE WILL HAVE A DIKE OR BERM CONTAINMENT STRUCTURE CONSTRUCTED AROUND IT TO CONTAIN SPILLS WHICH MAY OCCUR (CONTAINMENT VOLUME TO BE 110% OF VOLUME STORED). THE DIKE OR BERMED AREA SHALL BE LINED WITH AN IMPERVIOUS MATERIAL SUCH AS A HEAVY-DUTY PLASTIC SHEET. DRIP PANS SHALL BE PROVIDED FOR ALL DISPENSERS. ANY ASPHALT SUBSTANCES USED ON THE SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
9. FERTILIZERS AND LANDSCAPE MATERIALS

FERTILIZERS WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO MINIMIZE THE POTENTIAL FOR EXPOSURE TO STORMWATER. STORAGE WILL BE UNDER COVER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO MINIMIZE THE POTENTIAL FOR SPILLS. THE BIN SHALL BE LABELED APPROPRIATELY.

CONTAIN STOCKPILED MATERIALS, SUCH AS BUT NOT LIMITED TO, MULCHES, TOP SOIL, ROCKS AND GRAVEL, AND DECOMPOSED GRANITE, WHEN THEY ARE NOT ACTIVELY BEING USED.

APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURER RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL. DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN TWO DAYS PRIOR TO A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.
10. PAINTS, PAINT SOLVENTS AND CLEANING SOLVENTS

CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT AND SOLVENTS WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR LOCAL/STATE/FEDERAL REGULATIONS.
11. CONTAMINATED SOILS

ANY CONTAMINATED SOILS (RESULTING FROM SPILLS OF MATERIALS WITH HAZARDOUS PROPERTIES) WHICH MAY RESULT FROM CONSTRUCTION ACTIVITIES WILL BE CONTAINED AND CLEANED UP IMMEDIATELY IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
12. OFF-SITE WASTE AND BORROW AREAS

ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL COUNTY CONSERVATION DISTRICT OF PADEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND TO DEVELOP A PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102, NPDES PERMIT CONDITIONS, AND/OR OTHER STATE AND FEDERAL REGULATIONS.



REVISIONS					
	REVISIONS	DATE	DRAWN	CK	APPR
A	ISSUED FOR PADEP	10/2018	JL (MM)	AJD (MM)	MDN (MM)
B	REVISED FOR PADEP	10/2019	JL (MM)	AJD (MM)	MDN (MM)

PREPARED FOR

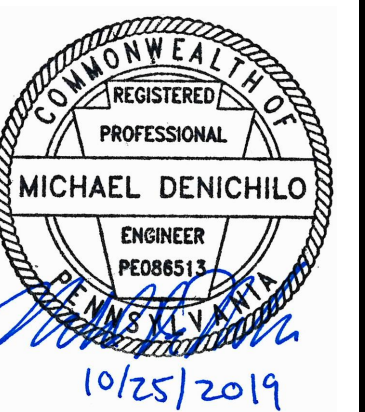
PENNEAST PIPELINE PROJECT		
SOIL EROSION AND SEDIMENTATION CONTROL PLAN E&S GENERAL NOTES		
SCALE	DRAWING NO.	REVISION
AS SHOWN	000-01-01-003E	B

SMALL WATERSHED CLASSIFICATIONS

BEGIN MP*	END MP*	WATERSHED NAME	CLASSIFICATION
PENNEAST MAINLINE PIPELINE			
0.0R1	1.6R2	TROUT BROOK	CWF, MF
1.6R2	2.0	ABRAHAMS CREEK	CWF, MF
2.0	3.1	ABRAHAMS CREEK	CWF, MF
3.1	3.4	TOBY CREEK	CWF, MF
3.4	3.7	ABRAHAMS CREEK	CWF, MF
3.7	3.9R2	TOBY CREEK	TSF, MF
3.9R2	6.5R2	ABRAHAMS CREEK	CWF, MF
6.5R2	6.9	UNT SUSQUEHANNA RIVER	CWF, MF
6.9	9.1R2	SUSQUEHANNA RIVER	WWF, MF
9.1R2	9.5R3	MILL CREEK	CWF, MF
9.5R3	9.9R2	GARDNER CREEK	CWF, MF
9.9R2	14.4	MILL CREEK	CWF, MF
14.4	15.4	LITTLE BEAR CREEK	HQ-CWF, MF
15.4	16.6	BEAR CREEK	HQ-CWF, MF
16.6	17.3	MEADOW RUN	HQ-CWF, MF
17.3	19.6	LITTLE SHADES CREEK	HQ-CWF, MF
19.6	20.9	SHADES CREEK	HQ-CWF, MF
20.9	21.3	STONY RUN	HQ-CWF, MF
21.3	21.6	BEAR CREEK	HQ-CWF, MF
21.6	21.7	STONY RUN	HQ-CWF, MF
21.7	22.1	BEAR CREEK	HQ-CWF, MF
22.1	22.8	STONY RUN	HQ-CWF, MF
22.8	24.0	LEHIGH RIVER	HQ-CWF, MF
24.0	24.8	LIME HOLLOW	HQ-CWF, MF
24.8	25.1	PORTER RUN	HQ-CWF, MF
25.1	28.0R2	BLACK CREEK	HQ-CWF, MF
28.0R2	28.8R2	FOURTH RUN	HQ-CWF, MF
28.8R2	30.1R2	HICKORY RUN	HQ-CWF, MF
30.1R2	30.6R2	HAWK RUN	HQ-CWF, MF
30.6R2	31.4R2	LAUREL RUN	HQ-CWF, MF
31.4R2	31.9R2	HAWK RUN	HQ-CWF, MF
31.9R2	32.0R2	LAUREL RUN	HQ-CWF, MF
32.0R2	34.2R3	MUD RUN	HQ-CWF, MF
34.2R3	34.4R3	PANTHER CREEK	HQ-CWF, MF
34.4R3	35.5	STONY CREEK	EV, MF
35.5	37.1R3	YELLOW RUN	EV, MF
37.1R3	39.2	WILD CREEK	EV, MF
39.2	40.6R2	PINE RUN	EV, MF
40.6R2	41.8	WHITE OAK RUN	EV, MF

BEGIN MP*	END MP*	WATERSHED NAME	CLASSIFICATION
PENNEAST MAINLINE PIPELINE			
41.8	42.5R2	WILD CREEK	EV, MF
42.5R2	42.6R2	POHOPOCO CREEK	CWF, MF
42.6R2	43.7R3	WILD CREEK	EV, MF
43.7R3	44.6R2	POHOPOCO CREEK	CWF, MF
44.6R2	46.6	HUNTER CREEK	HQ-CWF, MF
46.6	46.8	BORGER CREEK	CWF, MF
46.8	47.2	HUNTER CREEK	CWF, MF
47.2	47.3	BORGER CREEK	CWF, MF
47.3	48.6R2	BUCKWHA CREEK	CWF, MF
48.6R2	51.7R3	AQUASHICOLA CREEK	HQ-CWF, MF
51.7R3	55.3	INDIAN CREEK	CWF, MF
55.3	57.9R2	HOKENDAUQUA CREEK	CWF, MF
57.9R2	61.1	MONOCACY CREEK	HQ-CWF, MF
61.1	62.0R3	EAST BRANCH MONOCACY CREEK	HQ-CWF, MF
62.0R3	65.1	EAST BRANCH MONOCACY CREEK	HQ-CWF, MF
65.1	65.6	MONOCACY CREEK	HQ-CWF, MF
65.6	66.4	SHOENECK CREEK	WWF, MF
66.4	67.3	MONOCACY CREEK	HQ-CWF, MF
67.3	68.0R3	BUSHKILL CREEK	HQ-CWF, MF
68.0R3	69.5R4	NANCY RUN	CWF, MF
69.5R4	70.7	UNT LEHIGH RIVER	CWF, MF
70.7	71.2	LEHIGH RIVER	WWF, MF
71.2	71.9	UNT LEHIGH RIVER	CWF, MF
71.9	73.1	BULL RUN	CWF, MF
73.1	75.5	FRYA RUN	HQ-CWF, MF
75.5	75.8	COOKS CREEK	EV, MF
75.8	77.7	DELAWARE RIVER	WWF, MF
BLUE MOUNTAIN LATERAL			
0.0R3	0.51R3	AQUASHICOLA CREEK	HQ-CWF, MF
HELLERTOWN LATERAL			
0.0	0.0	UNT LEHIGH RIVER	CWF, MF
0.0	0.8	BULL RUN	CWF, MF
0.8	2.14R2	EAST BRANCH SAUCON CREEK	CWF, MF

*MILEPOSTS ARE APPROXIMATE. ALL ROUTE DEVIATIONS IMPLEMENTED AFTER THE SEPTEMBER 2015 FERC FILING ARE DENOTED WITH AN "R" AND INDICATE A MILEPOST EQUATION. MILEPOSTS WITH AN "R1" INDICATE ROUTE DEVIATIONS IMPLEMENTED AND PROVIDED TO FERC PRIOR TO THE ISSUANCE OF THE DRAFT ENVIRONMENTAL IMPACT STATEMENT. MILEPOSTS WITH AN "R2" INDICATE ROUTE DEVIATIONS IMPLEMENTED AS PART OF THE SEPTEMBER 2016 SUPPLEMENTAL FILING. MILEPOSTS WITH AN "R3" INDICATE ROUTE DEVIATIONS IMPLEMENTED POST-FERC CERTIFICATE ISSUANCE. MILEPOSTS WITH AN "R4" INDICATE ROUTE DEVIATIONS IMPLEMENTED SINCE THE PREVIOUS PADEP SUBMISSION. ALL MILEPOSTS WITHOUT AN "R" INDICATE THAT THE ROUTE HAS NOT CHANGED SINCE THE SEPTEMBER 2015 APPLICATION.



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