

CONSTRUCTION/BMP ACTIVITY SEQUENCING PLAN

BMP Stage	CONSTRUCTION ACTIVITIES	BMP MEASURES
1	1) Mobilization	<ul style="list-style-type: none"> •Fabricate, Deliver, And install Contact Water Treatment System/Frac Tanks •Construct decontamination pad with filter fabric fence and straw bale barriers as perimeter BMP's •Deliver BMP materials
	2) Gravity Sewer and storm line relocation	<ul style="list-style-type: none"> • Straw bale barrier and silt fence installation • Collection, pumping, treatment, and discharge of contact water
	3)Excavation, Backfill, and Restoration in area A5A	<ul style="list-style-type: none"> •Straw bale barrier and silt fence installation •Installation of sheet pile wall No.3 •Collection, pumping, treatment, and discharge of contact water •Stockpile management (see detail 2-18-24)
2	1) Excavation, Backfill and Restoration in areas A1, B1, C1, and D1	<ul style="list-style-type: none"> •Straw bale barrier and silt fence installation •Construction and implementation of sediment basin No.1 •Collection, pumping, treatment, and discharge of contact water •Stockpile management (see detail 2-18-24) •Installation of sheet pile wall Nos. 1 and 2 (fabric filter fence will be installed on creek side during installation and removal) •Removal of sheet pile wall No. 3 •Installation of Drainage Channel Nos. 1, 1a, 2, and 3 including basins, piping, pumps, and filter bags. •Installation of rock construction entrances
	2) Sanitary force main relocation	<ul style="list-style-type: none"> •Straw bale barrier and silt fence installation •Collection, pumping, and treatment of contact water
3	1) Excavation, Backfill, and Restoration in areas A2, A3, A4, and B2	<ul style="list-style-type: none"> •Straw bale barrier and silt fence installation •Construction and implementation of sediment basin No.1 •Collection, pumping, treatment, and discharge of contact water •Stockpile management (see detail 2, 18, 24) •Removal of sheet pile wall along west side of area A1 (fabric filter fence will be installed on creek side during installation and removal) •Earthen Berm construction along east side of Area A1 (fabric filter fence will be installed on creek side during installation and removal) •Installation of drainage channels 4-5-6, and 7 including collection basins, piping, pumps, and filter bags.
	2) Restoration	<ul style="list-style-type: none"> •Removal of straw bale barriers, sheet piling, drainage channels, rock construction entrances, earthen berms, and filter bags. •Backfill/restoration of sedimentation berms. •Stream Bank Restoration •Clean fill placement, grading, and final landscaping •Following sheet pile removal, install fabric filter fence and straw bales on top of creek bank. •Maintain perimeter fabric filter fence and straw bales until final restoration is achieved for each area.
4	1) Excavation, Backfill, and Restoration in Areas A5, A6, B3, B4, B5, and C2	<ul style="list-style-type: none"> •Straw bale barrier and silt fence installation •Collection, pumping, treatment, and discharge of contact water •Stockpile management (see detail 2-18,-24) •Installation of drainage channels 8, 9, 10, and 11 including collection basins, piping, pumps, and filter bags.
	3) Demobilization	<ul style="list-style-type: none"> • Removal of treatment system and all other equipment located on-site.

BMP MAINTENANCE PLAN

- 1) Inspect and document all areas listed below at least once every seven (7) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater:
 - Disturbed areas of the construction site that have not been finally stabilized;
 - Areas used for storage of materials (e.g., products and waste materials) that are exposed to precipitation, and
 - Best management practices and other erosion and sediment control measures
- 2) Inspect and document disturbed areas and areas used for storage of materials that are exposed to precipitation for evidence of, or the potential for, pollutants entering a drainage system.
- 3) Routinely observe and document BMPs and other erosion and sediment controls to verify that they are operating correctly.
- 4) Routinely inspect and document accessible discharge locations or other points to ascertain whether BMPs and other erosion and sediment controls are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, inspect nearby downstream locations to the extent that such inspections are practicable.
- 5) Routinely inspect and document sediment basins for depth of sediment accumulation, liner tears, ice build up, and discharge obstructions. Remove all ice build-up and discharge obstructions immediately. Remove accumulated sediment when it reaches 2 feet in Sedimentation Basin No. 1 and 1.5 feet in Sediment Basin No. 2.
- 6) Routinely inspect and document silt fence for depth of sediment and tears; determine if the fabric is securely attached to the fence posts and that the fence posts and silt fence fabric are firmly in the ground. Remove accumulated sediment from silt fence when sediment has reached one-third the height of the silt fence. Dispose of accumulated material off-site as radiologically impacted if located in Areas A or B, or as MGP-tar impacted if located in Areas C and D.
- 7) Monitor locations where vehicles enter and exit the construction site to verify off-site vehicle tracking of sediments, mud, dirt, or rock are minimized and, as needed, such material is removed from adjacent paved roads.
- 8) Following an inspection that identifies ineffective best management practices and other erosion and sediment control, immediately complete repairs, modifications, maintenance, and/or additions.
- 9) Dewater sediment basins following rain events.
- 10) Sediment within the basins shall not exceed sediment cleanout elevation. Contractor shall utilize vacuum system as approved by the Remediation Construction Manager for all sediment cleanout operations.

User:SHAFFER_Specs:PIRNIE_STANDARD File:1:\ACAD\PROJ\4812014\CONFORMED-DESIGN\M-28A.DWG Scale:1:1 Date:11/14/2005 Time:14:02 Layout:Layout1

D-25



REVISIONS			
NO.	BY	DATE	REMARKS
1	TCS	11/15/05	REVISED PER POST BID CHANGE (ADDED SHEET)

DES _____
DWN _____
CKD _____

MOLYCORP, INC
WASHINGTON, PA

SITE REMEDIATION CONSTRUCTION

BEST MANAGEMENT PRACTICE
DETAILS

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MALCOLM PIRNIE, INC.
DATE JUNE 2005
M SHEET 28A OF 46
CAD REF. NO. M-28A