

## NFMU5

### Construction Cost Estimate

	<u>QTY</u>	<u>UNIT</u>	<u>COST</u>	<u>TOTAL</u>	<u>CATEGORY TOTAL</u>
<b><u>CONSTRUCTION</u></b>					
E&S Controls	3	AC	\$1,312	\$3,936	
Clear and Grubb	3	AC	\$1,463	\$4,389	
Access Road	100	LF	\$8.27	\$827	
Revegetation	2	AC	\$609	\$1,218	
Mobilization/Demob	1	LS	\$6,500	\$6,500	
Fence	400	LF	\$17.16	\$6,864	
Construction Equipment & Labor	1	JOB	\$98,847	\$98,847	
	<b><i>TOTAL CONSTRUCTION COST:</i></b>				<b><u>\$122,581</u></b>
<b><u>CONSTRUCTION MATERIALS</u></b>					
Geotextiles	4400	SY	\$0.50	\$2,200	
Pipe - Solid, Perf, Fittings, Etc.				\$20,506	
Stone - AASHTO #1	2200	T	\$12.50	\$27,500	
Stone - AASTHO #57	200	T	\$11.50	\$2,300	
Stone - Rip Rap	300	T	\$12.50	\$3,750	
	<b><i>TOTAL CONSTRUCTION MATERIALS COST:</i></b>				<b><u>\$56,256</u></b>
<b><u>CONTRACTUAL</u></b>					
Permitting				\$20,300	
Design				\$24,400	
Survey				\$4,500	
Analysis				\$3,500	
	<b><i>TOTAL CONTRACTUAL COST:</i></b>				<b><u>\$52,700</u></b>
<b><u>LAND ACQUISITION COSTS</u></b>					
Estimated Cost	3	ac	\$2,500	\$7,500	
	<b><i>TOTAL LAND ACQUISITION COST:</i></b>				<b><u>\$7,500</u></b>
	<b><i>TOTAL INSTALLATION COSTS:</i></b>				<b><u>\$239,037</u></b>

Estimated Annual Operation and Maintenance Costs: **\$240 - \$2,480**

### **Permits & Approvals Anticipated to be Required for System Construction**

HOP	Road Bonds (state)	PA One Call	PNDI
GIF	PHMC	NPDES	E&S
PPC	Joint Permit	EA	GP-4

Estimated total time to obtain all necessary permits and approvals: **6-12 months**

Permits & Approvals: The list of anticipated Permits & Approvals and estimated timeframe is based on current regulations and experience with similar projects. This list and estimated time frame is subject to change based on revised regulations and other factors. Please see the Permit and Approval Section of this report for a more detailed description of the permits listed.

Cost estimate basis: Average BAMR Cost (Daniel Sammarco, PE, PA DEP, 2nd Annual Southwest Watershed Workshop, Greensburg, PA 10/21/00) adjusted for inflation (5 years) at 3.1% per year; AMD Treat 3.1, 2002, (US Dept. of Interior, Office of Surface Mining); representative contractual and construction costs from recent grants awarded through the PA DEP Growing Greener Program; other available information including vendor quotes/invoices and internet sites. All costs are estimates and are subject to change based on further project development, inflation, and other factors.