

Practice: 521B - Pond Sealing or Lining, Soil Dispersant

Scenario # 1 Soil Dispersant

Scenario Description:

Missouri

Construction of a compacted soil liner, treated with a soil dispersant, to reduce seepage from ponds or waste storage impoundment structures. Practice implementation includes incorporation of the dispersant with the soil liner under proper moisture conditions and compaction to the designed liner thickness. Practice implementation may require filter compatibility with the subgrade (graded filter or geotextile). Associated practice PS378, PS313.

Before Practice Situation:

In-place soils at site exhibit seepage rates in excess of acceptable limits. Soils are suitable for treatment with dispersants.

After Practice Situation:

Water conservation and environmental protection provided by limiting seepage losses from ponds or waste storage impoundments.

Scenario Feature Measure:

Volume of Liner Material

Scenario Typical Size:	1613	Cubic Yard	Tot Unit Cost	\$6.23
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Soil Dispersant	6.53	Ton	\$464.70	\$3,034.49
Equip./Install.	Earthfill, Roller Compacted	1613	Cubic yard	\$3.62	\$5,839.06
Equip./Install.	Tractor, agricultural, 120 HP	6	Hour	\$47.06	\$282.36
Labor	Specialist Labor	2	Hour	\$79.60	\$159.20
Labor	Supervisor or Manager	8	Hour	\$37.21	\$297.68
Labor	Equipment Operators, Light	6	Hour	\$20.92	\$125.52
Mobilization	Mobilization, Light Equipment Operator	1	Hour	\$20.73	\$20.73
Mobilization	Mobilization, medium equipment	1	Each	\$200.43	\$200.43
Mobilization	Mobilization, Material, distance > 50 miles	1	Dollar	\$1.00	\$1.00
Mobilization	Mobilization, Specialist Labor	1	Hour	\$81.97	\$81.97

Total Cost: \$10,042.44

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$4.67	EQIP-HU	\$5.60
EQIP-MRBI	\$4.67	EQIP-HUMRBI	\$5.60
EQIP-NOI	\$4.67	EQIP-HUNOI	\$5.60