

Appendix XII
Proposed Reclamation Financial Assurance
for Phase 2 through Phase 4

Phase 2 Proposed Reclamation Financial Assurance – plus Processing Area and Mine Road Removal

Reclamation Item	Item Description	Item Unit Cost	Units	Number of Units	Reclamation Cost
Earthwork	A Horizon (Phase 2 plus Phase 1 berms)	\$1.90	cubic yard	40,500	\$76,950
	B Horizon (Phase 2 plus Phase 1 berms)	\$1.90	cubic yard	104,300	\$198,170
	Overburden	\$1.90	cubic yard	219	\$416
	Process Reject (Phase 2)	\$1.90	cubic yard	142,600	\$270,940
Revegetation 21.1 acres + remainder of Processing Area = 39 acres reclaimed to Conservation Lands - Grassland/Prairie/Forest Savannah	Revegetation (soil prep and discing)	\$600	acre	39	\$23,400
	Weed-free mulch, approximately 5 tons/acre	\$150	ton	39	\$5,850
	Prairie Seed Mix (with nurse crop) Per conceptual mix in Section 3.4	\$1,400	acre	39	\$54,600
	No-till drill seeding	\$200	acre	39	\$7,800
	Mowing (twice in Years 1 and 2, once in Year 3)	\$500	acre	39	\$19,500
	Oak Saplings, installed and staked, 25/acre	\$125	each	975	\$121,875
	Invasive species removal	\$300	acre	39	\$11,700
Length of Slope Factor	Acres at 3:1 gradient	\$5,000	acre	0.4	\$2,000
Abandon High Capacity Well		\$4,300	each	1	\$4,300
Removal of Processing Plant and Office Building	Approximately 54,000 square feet	\$58,000	each	1	\$58,000
Access Road Demolition	½-mile paved road	52,800	square feet	0.35	\$18,480
Storm Water Ponds	Landowner would like 2 ponds left on Phase 1 site	\$3,400	each	7	\$23,800
Erosion Control Materials	Silt Fencing, Sediment Bale Barriers	\$200	acre	39	\$7,800
Total Proposed Reclamation Cost:					\$905,581
Chippewa County Administration Fees (8% of Reclamation Cost):					\$72,446
Total Proposed Financial Assurance for Phase 2 and Processing Area:					\$978,028

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Phase 3 Proposed Reclamation Financial Assurance – plus Processing Area and Mine Road Removal

Reclamation Item	Item Description	Item Unit Cost	Units	Number of Units	Reclamation Cost
Earthwork	A Horizon (Phase 3 plus Phase 1 berms)	\$1.90	cubic yard	39,300	\$74,670
	B Horizon (Phase 3 plus Phase 1 berms)	\$1.90	cubic yard	101,200	\$192,280
	Overburden	\$1.90	cubic yard	34,500	\$65,550
	Process Reject	\$1.90	cubic yard	201,100	\$382,090
Revegetation 17.9 acres + Processing Area = 37.9 acres reclaimed as Conservation Lands - Grassland/ Prairie/Forest Savannah	Revegetation (soil prep and discing)	\$600	acre	37.9	\$22,740
	Weed-free mulch, approximately 5 tons/acre	\$150	ton	190	\$28,500
	Prairie Seed Mix (with nurse crop) Per conceptual list in Section 3.4	\$1,400	acre	37.9	\$53,060
	No-till drill seeding	\$200	acre	37.9	\$7,580
	Mowing (twice in Years 1 and 2, once in Year 3)	\$500	acre	37.9	\$18,950
	Oak Saplings, installed and staked, 25/acre	\$125	each	948	\$118,500
	Invasive species removal	\$300	acre	37.9	\$11,370
Length of Slope Factor	Acres at 3:1 gradient	\$5,000	acre	3.1	\$15,500
Abandon High Capacity Well		\$4,300	each	1	\$4,300
Removal of Processing Plant and Office Building	Approximately 54,000 square feet	58,000	each	1	\$58,000
Access Road Demolition	½-mile paved road	52,800	square feet	0.35	\$18,480
Storm Water Ponds	Landowner would like 2 ponds left on Phase 1	\$3,400	each	7	\$23,800
Erosion Control Materials	Silt Fencing, Sediment Bale Barriers	\$200	acre	37.9	\$7,580
Total Proposed Reclamation Cost:					\$1,102,950
Chippewa County Administration Fees (8% of Reclamation Cost):					\$88,236
Total Proposed Financial Assurance for Phase 3 and Processing Area:					\$1,191,186

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Phase 4 Proposed Reclamation Financial Assurance – plus Processing Area and Mine Road Removal

Reclamation Item	Item Description	Item Unit Cost	Units	Number of Units	Reclamation Cost
Earthwork	A Horizon (Phase 4 plus Phase 1 berms)	\$1.90	cubic yard	35,600	\$67,640
	B Horizon (Phase 4 plus Phase 1 berms)	\$1.90	cubic yard	91,600	\$174,040
	Overburden	\$1.90	cubic yard	0	\$0
	Process Reject	\$1.90	cubic yard	42,200	\$80,180
Revegetation 15.8 acres + Processing Area = 35.8 acres reclaimed to Conservation Lands - Grassland/ Prairie/Forest Savannah	Revegetation (soil prep and discing)	\$600	acre	35.8	\$21,480
	Weed-free mulch, approximately 5 tons/acre	\$150	ton	179	\$26,850
	Prairie Seed Mix (with nurse crop) Per conceptual list in Section 3.4	\$1,400	acre	35.8	\$50,120
	No-till drill seeding	\$200	acre	35.8	\$7,160
	Mowing (twice in Years 1 and 2, once in Year 3)	\$500	acre	35.8	\$17,900
	Oak Saplings, installed and staked, 25/acre	\$125	each	895	\$111,875
	Invasive species removal	\$300	acre	35.8	\$10,740
Length of Slope Factor	Acres at 3:1 gradient	\$5,000	acre	1.4	\$7,000
Abandon High Capacity Well		\$4,300	each	1	\$4,300
Removal of Processing Plant and Office Building	Approximately 54,000 square feet	58,000	each	1	\$58,000
Access Road Demolition	½-mile paved road	52,800	square feet	0.35	\$18,480
Storm Water Ponds	Landowner would like 2 ponds left on Phase 1	\$3,400	each	7	\$23,800
Erosion Control Materials	Silt Fencing, Sediment Bale Barriers	\$200	acre	35.8	\$7,160
Total Proposed Reclamation Cost:					\$686,725
Chippewa County Administration Fees (8% of Reclamation Cost):					\$54,938
Total Proposed Financial Assurance for Phase 4 and Processing Area:					\$741,663

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