

## Partial Listing of Rubber Lined Piping Systems

Customers	Pipe Diameter Inches	Product Transport	Lengths	Installed Linear Feet
LTV Steel	14"	Taconite/Tailings	40'	155,160
Cleveland Cliffs	24" and 26"	Taconite/Tailings	20' to 40'	58,310
Iron Ore Co. of Canada	20'	Taconite/Tailings	38'	56,824
Eveleth Mine	16" and 18"	Taconite/Tailings	40'	35,000
National Steel	22"	Taconite/Tailings	40'	51,040
Homestake Gold Mine	4", 5", 6"	Gold	10', 20', 40'	45,000
MN Power and Light	12" and 18"	Power Generation	Various	12,000
Wabush Mines Canada	3" to 18"	Taconite/Tailings	Various	5,000
Unimin	10"	Aggregate	40'	10,000
US Steel	4" to 12"	Taconite/Tailings	Various	75,000
Cheme (for MN Power)	6" to 30"	Power Generation	Various 20'	25,000
SMARCO	20"	Iron Ore	Various	10,000
Butler Tac	14"	Taconite/Tailings	Various	100,000
Misc. Power Plants	3" to 30"	Power Generation	Various	200,000
Chino Mines	12" to 22"	Copper/Tailings	Various	10,000
Azco	3" to 30"	Gold / Copper	Various	25,000
Allegheny Power Harrison Station, WV	4" to 36"	Power Generation	Various	25,000
Kennecott Utah Copper	12", 28", 38", 54", 60", 66"	Copper/Tailings	60'	175,000
BHP Nevada Mining	30"	Gold / Copper	50', 60'	7,850
NY State Electric & Gas Corporation	6" and 8"	Power Generation	Various	1,000
BATU HIJAU Newmont Gold	3" to 44"	Gold/Tailings	1" to 60'	23,970
ROYAL OAK MINES Kemess Site	24" to 36"	Copper/Tailings	40', 60'	60,000
Duro Felguera Venezuela	3" to 30"	Iron Ore	Various	20,000
FMI Bagdad Arizona	34"	Copper	40'	8,000
Hibbing Taconite Minnesota	16" and 18"	Taconite/Tailings	40', 50'	35,000
Suncor Alberta, Canada	8"	Gypsum Slurry	20', 40'	12,000

**Note: The above listed major jobs also included fittings, elbows, etc., which are not included in total linear feet lined.**

### Partial Listing of Polyurethane Lined Piping Projects

Customer Location	Pipe Dia Inches	Lining Thk Inches	Installed Linear Feet	Product Transport	Solids (%)	Particle Size	Velocity F/S	Material
Simplott Idaho, USA	7	3/8	26,000	Phosphate	60%	-15mm	10	Urethane
Asarco/Troy Montana, USA	8	1/4	73,000	Copper Tailings	56%	-200 Mesh	7	Urethane
Kennecott New Mexico, US	16	1/2	5,000	Copper Tailings	48%	4% +4 Mesh 48% - 325 Mesh	7-9	Urethane
Cities Service Arizona, USA	4	1/2	3,000	Sand Fill		-250 Mesh -125 Mesh		Urethane
Inland Steel Minnesota, USA	8	1/4	2,000	Taconite Tailings	56%			Urethane
Kennecott Utah, USA	8	1/4	20,000	Smelter Slag				Urethane
Cyprus/Thompson Creek Idaho, USA	8	1/4	5,000	Moly Tailings				Urethane
Asarco/Troy Montana, USA	8	1/4	5,000	Copper Tailings	56%	-200 Mesh	7-9	Urethane
U.S. Steel West Virginia, USA	4	1/4	10,000	Coal Refuse	35%	-28 Mesh		Urethane
Kennecott New Mexico, USA	16	3/8	48,000	Copper Tailings	48%	4% +4 Mesh 48% - 325 Mesh	7-9	Urethane
Codelco Chile, SA	34	1/2	7,700	Copper Tailings	55%	-35 Mesh	8-13	Urethane
New Zealand Steel New Zealand	8	3/8	64,000	Iron Sands	49%		8	Urethane
National Steel Minnesota, USA	22	1/4	7,000	Taconite Tailings	43%	-6mm	8	Urethane
Hanna Steel Minnesota, USA	22	1/4	4,000	Taconite Tailings	43%	-6mm	8	Urethane
Falconbridge Ontario, Canada	9	1/2	6,000	Copper Tailings	-10%	-1mm	16	Urethane
Kennecott New Mexico, USA	16	3/8	2,000	Copper Tailings	48%	4% +4 Mesh 48% - 325 Mesh	7-9	Urethane
Bougainville Copper Bougainville PNG	34	3/8	120,000	Taconite Tailings	53-62%	-2.4mm	11	Urethane
Samarco Brazil, SA	8	1/2	16,000	Iron Ore Slurry	60%	4% 65 Mesh 50% -200 Mesh	10	Urethane
Asarco Ray, Hayden Arizona, USA	20	3/8	5,500	Copper Tailings	35-50%	16% -20 +100 Mesh	9-13	Urethane
Pinto Valley Miami, AZ	28	3/8	12,600	Copper/Ore Tailings	52%	11 % - 20 Mesh 65% - 325 Mesh	7.9	Urethane
LaCandelaria Chile. SA	22	3/8	8,000	Copper Tailings				Urethane
Kennecott Utah, USA	48	1/2	2,000	Copper Tailings	36%		7.8	Urethane
FMI Climax Colorado USA	4 to 24	3/8	10,000	Molybdenum Tailings				Urethane
FMI Sierrita Arizona USA	36	1/2	6,000	Copper Tailings	56%	-200 Mesh	7-9	Urethane
Suncor Alberta, Canada	30	1"	270,000	Oil Sands Tailings	30%	51mm	10.5	Urethane Iracore
Syncrude Alberta, Canada	30 to 36	1" to 1.425"	65,000	Oil Sands Hydrotransport	35%	200mm	13.5	Urethane Iracore
CNRL - Albian Sands Alberta, Canada	4 to 24	1.375"	82,000	Oil Sands Tailings	35%	51mm	15.5	Urethane Iracore

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