

CoMatrix Filter Projects

Solvent Extraction & Mining Industry

Client: CVRD Usina

Location: Brazil

System: One (1) CM-1035 (7.5 ft) 2.3 m

Engineer: Kvaerner

Application: Filter/Coalesce 567 gpm (129 m³/hr) of Solvent Extraction Electrolyte

Client: BHP-Billiton (Escondida)

Location: Chile

System: Four (4) CM-1095 (13.5 ft) 4.1 m

Engineer: Fluor

Application: Filter/Coalesce 7,500 gpm (1700 m³/hr) of Solvent Extraction Electrolyte

Client: Spence

Location: Chile

System: Six (6) CM-1085 (12.5 ft) 3.8 m

Engineer: Kvaerner

Application: Filter/Coalesce 10,500 gpm (2400 m³/hr) of Solvent Extraction Electrolyte

Client: Goro Nickel

Location: New Caledonia

System: Four (4) CM-1095 (13.5 ft) (4.1 m)

Engineer: Bechtel

Application: Filter/Coalesce 7700 gpm (1750 m³/hr) of Solvent Extraction Raffinate

Client: Goro Nickel

Location: New Caledonia

System: Two (2) CM-1015 (5.5 ft) (1.7 m)

Engineer: Bechtel

Application: Filter/Coalesce 400 gpm (90 m³/hr) of Solvent Extraction SX 1 strip

Client: Goro Nickel

Location: New Caledonia

System: Two (2) CM-1015 (5.5 ft) (1.7 m)

Engineer: Bechtel

Application: Filter/Coalesce 400 gpm (90 m³/hr) of Solvent Extraction SX 2 extract

Client: Goro Nickel

Location: New Caledonia

System: Two (2) CM-980 (3.0 ft) (0.9 m)

Engineer: Bechtel

Application: Filter/Coalesce 130 gpm (90 m³/hr) of Solvent Extraction SX 2 extract

Client: Gunpowder

Location: Mount Isa, Australia

System: Two (2) CM-1045

Engineer: Bateman-Kinhill

Application: Filter/Coalesce 1760 gpm (400 m³/hr) of Solvent Extraction Electrolyte

Client: Western Mining
Location: Roxby Downs, Australia
System: Three (3) CM-1025 (5.5 ft) (m)
Engineer: Halliburton
Application: Filter/Coalesce 924 gpm (210 m³/hr) of copper electrolyte

Client: Magma Copper Company
Location: San Manuel, Arizona
System: Two (2) CM-1001 (12") (300 mm)
Engineer: CMPS&F
Application: Filter/Coalesce 40 gpm (9.1 m³/hr) of Solvent Extraction Electrolyte

Client: Kennecott Copper
Location: Bingham Canyon, Utah
System: One (1) CM-1002 (16") (410 mm)
Engineer: Davy International
Application: Filter/Coalesce 30 gpm (6.8 m³/hr) of Solvent Extraction Electrolyte

Client: Mines Gaspé - Noranda Inc.
Location: Murdochville, Quebec, Canada
System: One (1) CM-0070 (10") (250 mm)
Engineer: Davy International
Application: Filter/Coalesce 15 gpm (57 lpm) of Solvent Extraction Electrolyte

Client: Copper Range Co.
Location: White Pines, Michigan
System: One (1) CM-0080 (24") (610 mm)
Engineer: Davy International
Application: Filter/Coalesce 35 gpm (8 m³/hr) of Solvent Extraction Electrolyte

Client: Copper Range Co.
Location: White Pines, Michigan
System: One (1) CM-0090 (36") (910 mm)
Engineer: Davy International
Application: Filter/Coalesce 150 gpm (34 m³/hr) of Solvent Extraction Raffinate

Client: COMINCO
Location: Canada
System: One (1) CoMatrix CM -0080
Engineer: C.E.S.L. Engineering
Application: Filter/Coalesce 24 gpm (90 lpm) of Solvent Extraction Electrolyte

Client: Zeneca Specialties
Location: Brazil
System: One (1) CoMatrix CM-0075 (20") (500 mm)
Engineer: None
Application: Filter/Coalesce 15 gpm (57 lpm) of Solvent Extraction Electrolyte

Client: Met Mex Penoles, S.A. De C.V.
Location: Coahuila, Mexico
System: One (1) CM-1002 Filter 36" diameter (.91M)
Engineer: None
Application: Zinc SX Electrolyte Filter 120 GPM (454 lpm)

SX Dual-Media Filter Projects

Solvent Extraction & Mining Industry - SX Filter Projects

Client: Nkana Leach
Location: Zambia
System: Three (3) SX-1025 (6.4 ft) (1.95 m)
Engineer: GRA
Application: Filter/Coalesce 640 gpm (145 m³/hr) Electrolyte

Client: Mufilira Expansion SX2
Location: Zambia
System: Four (4) SX-1095 (6.4 ft) (1.95 m)
Engineer: GRA
Application: Filter/Coalesce 640 gpm (145 m³/hr) Electrolyte

Client: Kansanshi Copper Expansion
Location: Zambia
System: Three (3) SX-1110 (15.0 ft) (4.6 m)
Engineer: GRD Minproc
Application: Filter/Coalesce 2175 gpm (494 m³/hr) Electrolyte

Client: Sable Zinc
Location: Zambia
System: Three (3) SX-1020 (6.2 ft) (1.85 m)
Engineer: GRA
Application: Filter/Coalesce 440 gpm (100 m³/hr) Electrolyte

Client: Nkana Calcin Leach
Location: Zambia
System: Three (3) SX-1025 (6.4 ft) (1.95 m)
Engineer: GRA
Application: Filter/Coalesce 640 gpm (145 m³/hr) Electrolyte

Client: Nkana Oxide Leach
Location: Zambia
System: Three (3) SX-1025 (6.4 ft) (1.95 m)
Engineer: GRA
Application: Filter/Coalesce 640 gpm (145 m³/hr) Electrolyte

Client: Mufilira Expansion SX1
Location: Zambia
System: Four (4) SX-1095 (6.4 ft) (1.95 m)
Engineer: GRA
Application: Filter/Coalesce 640 gpm (145 m³/hr) Electrolyte

Client: Kansanshi Copper
Location: Zambia
System: Three (3) SX-1110 (15.0 ft) (4.6 m)
Engineer: GRD Minproc
Application: Filter/Coalesce 2175 gpm (494 m³/hr) Electrolyte

Client: Skorpion Zinc
Location: Namibia
System: Five (5) SX-1125 (16.5 ft) (5.04 m)
Engineer: Bateman
Application: Filter/Coalesce 2175 gpm (494 m³/hr) Electrolyte

Location: Namibia
System: Six (6) SX-1115 (15.5 ft) (4.7 m)
Engineer: Bateman
Application: Filter/Coalesce 4667 gpm (1060 m³/hr) Raffinate

Client: Skorpion Zinc
Location: Namibia
System: Three (3) SX-1115 (15.5 ft) (4.7 m)
Engineer: Bateman
Application: Manganese reduction of electrolyte 2215 gpm (503 m³/hr) Electrolyte

Client: Skorpion Zinc
Location: Namibia
System: Two (2) SX-1000 (4.0 ft) (1.2 m)
Engineer: Bateman
Application: Filter/Coalesce 43 gpm (9.8 m³/hr) HCl solution

Client: El Tesoro
Location: Santiago, Chile
System: Five (5) SX-1105 (14.5 ft) (4.4m)
Engineer: Fluor Daniel
Application: Filter/Coalesce 4120 gpm (863 m³/hr) of Solvent Extraction Electrolyte

Client: Lomas Bayas
Location: Santiago, Chile
System: Four (4) SX-1115 (15.5ft) (4.7m)
Engineer: Fluor Daniel
Application: Filter/Coalesce 3800 gpm (863 m³/hr) of Solvent Extraction Electrolyte

Client: Cerro Colorado
Location: Cerro Colorado, Chile
System: Three (3) SX-1085 (12.5ft) (3.81m)
Engineer: Bechtel
Application: Filter/Coalesce 1800 gpm (410 m³/hr) of Solvent Extraction Electrolyte

Client: Girilambone Copper Company
Location: Girilambone, Australia
System: Three (3) SX-1035 (7.5ft) (2.29m)
Engineer: CMPS&F
Application: Filter/Coalesce 660 gpm (150 m³/hr) of Solvent Extraction Electrolyte

Client: Southern Peru Copper
Location: Toquepala, Peru
System: Three (3) SX-1095 (13.5ft) (4.11m)
Engineer: Bechtel/Cosapi
Application: Filter/Coalesce 1400 gpm (318 m³/hr) of Solvent Extraction Electrolyte

Client: Mantos Blancos
Location: Mantoverde, Chile
System: Three (3) SX-1090 (13ft) (3.96m)
Engineer: Bechtel BSK-MV
Application: Filter/Coalesce 2000 gpm (454 m³/hr) of Solvent Extraction Electrolyte

Client: Mantos Blancos
Location: Santa Barbara, Chile
System: Three (3) SX-1090 (13ft) (3.96m)
Engineer: Bechtel-ARA
Application: Filter/Coalesce 2000 gpm (454 m³/hr) of Solvent Extraction Electrolyte

Client: Cyprus Minerals
Location: El Abra, Chile
System: Twelve (12) SX-1105 (14.5ft) (4.42m)
Engineer: Bechtel-ARA
Application: Filter/Coalesce 8250 gpm (1,875 m³/hr) of Solvent Extraction Electrolyte

Client: Western Mining
Location: Nifty Copper, Australia
System: Three (3) SX-108 (7.5ft) (2.29m)
Engineer: Western Engineering Company
Application: Filter/Coalesce 660 gpm (150 m³/hr) of Solvent Extraction Electrolyte

Client: Cerro Colorado (Expansion)
Location: Cerro Colorado, Chile
System: One (1) SX-1085 (12.5ft) (3.81m)
Engineer: Davy International
Application: Filter/Coalesce 610 gpm (138 m³/hr) of Solvent Extraction Electrolyte

Client: Great Australian Copper Co.
Location: Cloncurry, Australia
System: One (1) SX-1035 (7.5 ft.) (2.29m)
Engineer: Ausenco Engineers
Application: Filter/Coalesce 220 gpm (50 m³/hr) of Solvent Extraction Electrolyte

Client: Skouriotissa Copper Project
Location: Cyprus, Greece
System: Two (2) SX-1050 (9 ft.) (2.74m)
Engineer: Davy International
Application: Filter/Coalesce 220 gpm (50 m³/hr) of Solvent Extraction Electrolyte

Location: South Africa
System: Two (2) SX-1000 (4 ft) (1.22m)
Engineer: Bateman
Application: Filter/Coalesce 125 gpm (29 m³/hr) of Solvent Extraction Electrolyte

Client: Escondida Coloso Plant
Location: Antofagasta, Chile
System: Three (3) SX-1085 (12.5 ft)
Engineer: BHP Minerals/Bechtel
Application: Filter/Coalesce 1650 gpm (3.75 m³/hr) of PLS

Client: Empresa Cemin/Dos Amigos
Location: Chile
System: One (1) SX-1000 (4 ft.) (1.22m)
Engineer: TERRAL
Application: Filter/Coalesce 154 gpm (35 m³/hr) of Solvent Extraction Electrolyte

Client: BHP Minerals - Salton Sea
Location: California
System: One (1) SX-0065 (6") (150 mm)
Engineer: None
Application: Filter/Coalesce 1 gpm (4 lpm) of Solvent Extraction Electrolyte

Client: BHP Minerals - Salton Sea
Location: California
System: One (1) SX-0070 (12") (300 mm)
Engineer: None
Application: Filter/Coalesce 5 gpm (19 lpm) of Solvent Extraction Raffinate

Client: Collahuasi Project
Location: Chile
System: Three (3) SX-1100 filters 14' diameter (4.27M)
Engineer: Bechtel - Davy
Application: Filter/Coalesce 2300 GPM (525M₃/hr) of Solvent Extraction Electrolyte

Client: Cia Minera Gibraltar Limiltada
Location: Chile
System: Four (4) SX-1115 Filters 15-1/2' diameter (4.65M)
Engineer: Flour Daniel Wright LTD
Application: Filter/Coalesce 3700 GPM (84000 lpm) of Solvent Extraction Electrolyte

Client: Myanmar Ivanhoe Copper Company
Location: Monywa, Indonesia
System: Three SX-1040 Filters 108" diameter (2.74M)
Engineer: CMPS&F
Application: Copper Electrolyte Filter 889 GPM (3365 lpm)

Client: Cawse Nickel
Location: Kalgoorlie, W. Australia
System: One (1) SX-1040 Filter 8' diameter (2.44M)
Engineer: Minproc-Davy International

Client: Cawse Nickel
Location: Kalgoorlie, W. Australia
System: One (1) SX-1075 Filter 11.5' diameter (3.51M)
Engineer: Minproc-Davy International
Application:

Location: Thailand
System: One (1) SX-1000 Filter 4' diameter (1.22M)
Engineer: Kvaerner Davy
Application: Filter/Coalesce 57 gpm (216 lpm) of Solvent Extraction Electrolyte

Client: California Energy Operating Company
Location: Calipatria, CA
System: One (1) SR-4004 System
Engineer: None
Application: 6.7 gpm (25.39 lpm) reverse osmosis for mineral recovery.

Client: Bulong Nickel Project
Location: Australia
System: Three (3) SX-1080 Filter, 12' Diameter (3.7M)
Engineer: Bateman-Kinhill, J.V. Kilborn
Application: 1678 gpm (6351.2 lpm) of Solvent Extraction Electrolyte.

Client: Equatorial Tonopah, Inc.
Location: Tonopah, NV
System: Two (2) SX-1080 (12ft) (3.65m)
Engineer: Kvaerner Metals
Application: Filter Coalesce (1074gpm) (244 m₃/hr) Of Solvent Extraction Electrolyte

Client: Southern Peru Copper Corporation
Location: Lima, Peru
System: Two (2) SX 1095 (13.5ft) (4.11m)
Engineer: Bechtel International
Application: Filter/coalesce (1132gpm) (257m³/hr) Of Solvent Extraction Electrolyte

Client: Collahuasi
Location: Chile
System: Backwash pumps
Engineer: Bechtel International
Application: Backwash h₂O for SpinTek Solvent Extraction Filters

Client: Murrin Murrin
Location: Western Australia
System: Matrix Tower MT-980
Engineer: Minproc Ltd
Application: Nickel

Client: Cal Energy
Location: Calipatria, CA USA
System: Two
Engineer: Kvaerner Metals
Application: Zinc Oxide Recovery

Aqueous Coalescer Projects Solvent Extraction & Mining Industry –

Location: Russia
System: One (1) MT-1050 (9.ft) (2.74m)
Engineer: Minproc
Application: Filter/Coalesce 1400 gpm (318 m³/hr) of Loaded Organic

Client: Andacollo
Location: Chile
System: One(1) MT-2308
Engineer: Davy
Application: Filter/Coalesce 4600 gpm (1045 m³/hr) of Loaded Organic

Client: Gunpowder
Location: Australia
System: Two (2) AC-1013
Engineer: Bateman-Kinhill
Application: Coalescing Aqueous from organic 3200gpm (722m³/hr)

Client: Cawse Nickel
Location: Australia
System: Two (2) MT-2308
Engineer: Davy
Application: Coalesce 4600gpm (1045m³/hr) of loaded organic

Client: Cawse Nickel
Location: Kalgoorlie, W. Australia
System: Two (2) CF-1040 Filters 8' diameter (2438mm)
Engineer: Minproc-Davy International
Application: Nickel Electrolyte 250 gpm (57m³/hr)

Carbon Filters and Ion Exchanger Systems

Solvent Extraction & Mining Industry Continued

Client: Cawse Nickel

Location: Kalgoorlie, W. Australia 11.5' diameter (3505mm)

System: Two (2) CF-1075 Filters

Engineer: Minproc-Davy International

Application: Nickel Raffinate 519 gpm (118 m³/hr)

Client: Bulong Nickel Project

Location: Australia

System: Two (2) CF-1035, 7.5' Diameter (2286mm)

Engineer: Bateman-Kinhill, J.V. Kilbourn

Application: 221 gpm (50 m³/hr)

Client: Eichrom

Location: Cananea, Sonora, Mexico

System: Three (3) Column Ion Exchange Unit

Engineer: Mexicana de Cananea

Application: Iron removal copper electrolyte

Client: Eichrom

Location: Various Locations

System: Three (3) Column Ion Exchange Pilot

Engineer: Eichrom

Application: Iron removal copper electrolyte

Client: Murrin Murrin

Location: Western Australia

System: Carbon Filters

Engineer: Minproc Ltd

Application: Nickel