



DIVISION PROFILE

REMOTE SITE / ENVIRONMENTAL



SEI INDUSTRIES LTD.

Remote Site/Environmental Division Profile

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About SEI Industries

SEI has cultivated a unique capability not readily found elsewhere in the world by designing, engineering and manufacturing products from innovative industrial fabrics. These fabrics solve specific problems for customers and provide advantages not available with products made from traditional rigid materials.

SEI was incorporated in May, 1978, and, since 1982, the company has focused its expertise on creating solutions most often used by the military and by exploration, utility, industrial, decontamination and humanitarian industries. SEI has a global agent network with two international offices and seven international repair facilities. SEI products are in use in 110 countries around the world.

SEI operates from a full-service 48,000 sq. ft. (4,460 sq. m.) manufacturing facility located in Delta, BC, Canada, which houses an impressive collection of industrial equipment including electronic RF welding equipment for industrial coated fabrics; metal welding, sewing and machining equipment; an in-house fabrics testing laboratory and an 11,000 gallon (50,000 litre) test tank with crane. SEI is ISO 9001:2008 certified and has been ISO certified since 1994.

Awards

- BC Export Awards Finalist in 2002, 2003 and 2009
- BC Export Award for Manufactured Products in 2003



Proprietary Fabric Technology

Many SEI products use the latest in manufacturing technology and industrial fabric design. By working with a select group of suppliers, SEI has developed proprietary fabrics that make its products unique as well as more durable and cost-effective. Today, as an industry leader, the following list of fabrics illustrate how SEI has adapted to meet customer needs through innovation.

Proprietary Fabric Technology (continued)





- Arctic-Shield™ Fabric — Arctic-Shield fabric was purposely engineered by SEI specifically for above-ground secondary containment of fuels in arctic climates at remote sites. Arctic-Shield has a high strip tensile and adhesion strength, a low cold crack temp below -50° C and low diffusion rates well below CCME and ULC requirements. Arctic-Shield fabric was designed for long duration fuel exposure that may occur if a fuel spill were to happen at a remote site that is unmanned for the winter. It is fire resistant as per NFPA 701.
- Arctic King™ Fabric — This proprietary fabric was designed to withstand extreme cold and is used in all SEI Arctic King fuel storage tanks. Arctic King fabric exceeds US military specifications, can be deployed in temperatures as low as -50 C, has the lowest diffusion rates in the industry and meets Environment Canada's Technical Requirements for Collapsible Fabric Storage Tanks (Bladders).
- Desert King™ Fabric — Proprietary Desert King fabric was engineered to endure climates with high levels of UV exposure and high temperatures. This fabric is used in all SEI Desert King fuel storage tanks and exceeds US military specifications.
- Jungle King™ Fabric — Jungle King fabric design created a revolutionary new material that takes on tough tropical climates and their accompanying high levels of UV exposure, temperature and humidity. This fabric is used in all SEI Jungle King fuel storage tanks and exceeds US military specifications. Jungle King fabric resists hydrolysis and is constructed with exclusive SEI PetroH2Ohesive.
- FRAC Tank™ Fabric — SEI's newest proprietary fabric is engineered specifically for the petroleum industry and is ideal for use in winter temperatures as low as -50 C and with heated fluids up to +72 C. Another feature of this unique fabric is its high resistance to abrasion — an important aspect when tanks are continually moved from site to site. Typical mil spec fabrics have abrasion resistance of 6,000-13,000 cycles (ASTM #D3884) while the FRAC tank fabric has a 73,000 cycle abrasion resistance to handle the wear and tear of continual movements.

Remote Site/Environmental Division Overview

The remote site/environmental division is primarily focused on the design, engineering and manufacturing of products that transport, transfer, filter and store fuel, water and sewage. Often, these products are combined together to create complete turnkey liquid management systems.

Remote site products are typically field-tested by users under extreme conditions and, from those outcomes, product lines have evolved to become some of the best in the world. In addition, SEI's industrial fabric, some of which is proprietary, allows for easier and more cost-effective transportation and set-up which can help companies save money since products can be folded, crated, shipped and unrolled, as required.

SEI is the first manufacturer to offer four key technologies that, when combined, greatly enhance the performance and dependability of its industrial fabric product lines. No other company offers competitively-priced products made with all-RF welds, cross-seam design (no lap seams), encapsulated seams and double-offset fabric coating.

Key Remote Site/Environmental Products



The Arctic King™ collapsible fuel tank bladder is designed to store fuels in arctic environments. It can be deployed in temperatures as low as -50° C and withstand high levels of ultra-violet (UV). This tank meets Environment Canada's *Technical Requirements for Collapsible Fabric Storage Tanks (Bladders)* published in 2009. Arctic King tanks are lightweight and fully collapsible, offering liquid containment many times larger than their transportable size. Arctic King tanks are made from proprietary materials and are 100% radio frequency welded, seam sealed and pressure tested. Sizes range from 500 USG to 30,000 USG (2000-113,000 L).



The Desert King™ collapsible fuel tank bladder is designed for storage of liquid fuels in high temperatures and high levels of ultra-violet (UV) or for fuels that have a high aromatic content such as jet, diesel or gasoline fuels. The tanks are lightweight and fully collapsible, offering liquid containment many times larger than their transportable size. Desert King tanks are made from proprietary materials and are 100% radio frequency welded, seam sealed and pressure tested. Sizes range from 500 USG to 30,000 USG (2000-113,000 L).



The Jungle King™ collapsible fuel tank bladder is designed for storage of liquid fuels in tropical climates with high temperatures, high levels of ultra-violet (UV) and high humidity. The tanks are lightweight and fully collapsible, offering liquid containment many times larger than their transportable size. Jungle King tanks are made from proprietary materials and are 100% radio frequency welded, seams sealed and pressure tested. Sizes range from 500 USG to 30,000 USG (2000-113,000 L).

Terra Tank®

Terra Tanks are tough, durable bladder tanks used for stationary storage of potable water, grey water, black water or other liquids. These tanks are typically deployed by industrial and military customers whose operations require portable, high-volume, collapsible ground storage capabilities in remote areas.



SEI's new Bulk Aviation Transport Tank (BATT) is the world's first collapsible, double-walled, baffled fabric tank that allows users to safely transport fuel to remote sites via aircraft. Each BATT is customized to fit the interior of the client's aircraft choice, allowing users to maximize the craft's load-carrying capacity. The BATT can be used by any operator under SEI's Transport Canada Equivalency Certificate #SA10638.

FRAC Tank™

Designed specifically for the petroleum industry, the FRAC tank is used for storing large volumes of water, needed in hydraulic fracturing. The FRAC tank is easy to set-up and can be used immediately with almost no site preparation required. The lightweight tanks are fully collapsible, offering liquid containment capacity many times larger than their size.



Double Drum Tank™

The Double Drum tank is designed to transport fuel by helicopter to remote locations or, by using its attachment rings, it can be secured as cargo in a boat, barge or truck for ground transport. It's an ideal replacement for metal drums, folds up for quick transport when empty and protects fuel from condensation.

Heli-Pump™

SEI's Heli-Pump line offers a complete turnkey electric aviation fuel pumping system in a tiny package. When not in use, the Heli-Pump can be easily packed and stored. Ideal for remote site operations, it fits inside the cargo area of most helicopters. Flow rates of 10-20 USGPM (37-76 LPM) are typical. AC and DC models available.

Fuel-Easy®

In use on five continents, this fully collapsible, lightweight, flyable fuel container for helicopters is a convenient and cost-effective alternative to fuel drums. The Fuel-Easy conforms to Transport Canada transportation of dangerous goods Part 12, Section 12.9, Paragraph 5(c).

Onion Tank™

Militaries rely on the fully collapsible and transportable Onion Tank for storage of potable drinking water in remote locations. The Onion Tank is constructed of heavy duty urethane coated fabric which comes complete with a top cover and combined carrying bag/ground sheet.

Insta-Berm (L-Rod and Frame)™

Made of industrial-strength fabric, the Insta-Berm is a durable and easy-to-install environmental safeguard that allows companies to meet today's strict guidelines. It comes in two styles; one with frame support and one with L-rod support. Designed as secondary containment under collapsible fuel tanks, the Insta-Berm may also be used to store toxic materials.

Mini-Berm™

The Mini-Berm is an ultra-lightweight and convenient spill tray for clean-up operations and spill containment during fuel and chemical transfer. Mini-Berm trays are easily placed under valves and fittings, vehicles or machinery. Totally reusable and compact, the Mini-Berm withstands most liquids and is designed to take standard-sized sorbent pads.

Ride-Side Berm™

Specifically designed for vehicles, the Ride-Side berm's collapsible entrance and exit walls easily withstands the heaviest wheeled and tracked vehicles while containing leaking vehicle fluids or other hazardous materials.

RainDrain™

The RainDrain uses gravity to filter hydrocarbons out of rainwater, allowing operators to safely drain rainwater from their berms. With its go-no-go filter, the RainDrain will automatically shut off when full. Featuring rugged construction and an easy-to-use filter cartridge replacement, the RainDrain is an essential addition for berms. This product meets EPA regulation 40CFR112.7



Hazmat Tank™

Designed to meet the most rigorous demands of today's safety personnel, the Hazmat Tank is an effective solution to problems associated with remote spills and inadequate temporary containment.

Drip Defender™

The Drip Defender is a rugged easy-to-use, all-purpose spill collection pad designed for use with all types of vehicles, industrial machinery or any other potential source for leaks. Able to withstand all climates and conditions, the Drip Defender is an economical and efficient solution for spill collection.

Custom Fuel Transfer Systems

SEI custom designs and assembles self-priming fuel pump systems according to customer specifications. Filters and hose assemblies are also available. Typical flow rates are 50-250 USGPM (189-946 LPM) with diesel, gasoline or electric-powered models available.

Customers

SEI's customer base includes oil and mineral exploration companies, aviation companies, government agencies, military forces in more than 50 countries, the United Nations, relief agencies, original equipment manufacturers and Fortune 500 companies. Some examples include:

USA

Conoco Inc.
Sandell Aviation Inc.
Amoco, Mobil Oil
Chevron Overseas Intl.
Shell Oil Co.
Exxon
Western Geophysical

Foreign

Repsol
BHP
InterOil
CGGVertias
BP Oil

Canada

Agnico-Eagle
Canadian Helicopters
Petro-Canada
Nexen Gas
Baffinland Iron Ore
Bema Gold (Kinross)
Atco
SNC-Lavalin

Government, Military and Paramilitary

U.S. Marine Corps, U.S. Army, U.S. Navy and
U.S. Air Force
U.S. Forest Service
U.S. National Guard
Ministry Of Natural Resources
Canadian Coast Guard
Department of National Defence
Ministry of Defence: Colombia, Brazil, Poland,
Bahrain, Turkey, Malaysia, Taiwan, United Arab
Emirates, Egypt, Japan

Serving the Military

More than 20 years ago, SEI began working with the military to create a line of products that would eventually be used around the world in NATO and UN peacekeeping activities, combat operations, disaster relief and humanitarian missions.

Since the early 1990s, SEI has been the Canadian Forces primary supplier of temporary mobile liquid handling products for fuels, water and chemicals. Today, SEI supplies more than 50 military forces around the world and continues to count the military as one of its biggest inspirations for new product development.





High Profile Projects

Over the past three decades, SEI has been fortunate to support many high-profile projects including:

- **Siberia's Bema Gold:** During winter conditions, SEI delivered, installed and connected a huge two million gallon diesel fuel tank farm for exploration activities in one of the world's largest gold deposits.
- **Peru's Repsol:** Supplied 26 Jungle King fuel tanks, featuring a new proprietary fabric that is far more resistant to humidity, temperature and sunlight than any other tank on the market.
- **Taiwan's National Fire Agency:** Assisted in reducing fire response times from 24 hours to less than four hours through the delivery of a multi-faceted collection of equipment and services.
- **Yukon's Selwyn Resources:** At the top of two raw mountain sites, SEI provided a complete turnkey 400,000 litre fuel system that allowed the establishment of two airstrips and base camps for mining exploration.
- **Canada's Armed Forces:** As a long-term defence supplier, SEI created a new high-pressure aviation refuelling system that is in use around the world.
- **Oak Ridge National Laboratory:** SEI provided containers for heavy water storage to enable Oak Ridge National Laboratory to perform nuclear-related maintenance on their equipment.
- **Operation Grizzly:** When the G8 summit was held in Alberta's Kananaskis area, SEI provided dozens of berms to support the security and operations team's fuel logistics for vehicles and equipment.
- **BAE Systems:** Over a five year period, SEI delivered hundreds of berms to BAE Systems to support military forward operating area refueling systems. Each berm had to be custom-made, lightweight and very rugged to withstand the conditions of use.
- **DEW-Line:** SEI products are being used in the DEW-Line clean-up effort. This initiative is mandated to remove and dispose of abandoned fuel drums.