

NE RESPONSE EQUIPMENT FACTSHEET

AARDVAC 800 VACUUM SKIMMER

Description- The AARDVAC 800 is a self-contained, high capacity suction skimming system for beach and shoreline areas. This skid mounted vacuum system can be loaded onto a flatbed truck for mobility, or located on a beach or pier. The suction manifold allows up to three skimmer heads to operate at the same time. These skimmer heads are interchangeable to accommodate the weight of oil being recovered. The unit can simultaneously skim oil from the water and transfer the recovered oil to a separate storage tank.

Quantity - 2 Systems

Location - Regional Response Center and Norfolk, Virginia

Specifications-

Rated	BBLs/HR = 800	Dimensions:	Draft = 4 in.
Derated 80%	BBLs/HR = 160		Length = 12.5 ft.
Weight = approx.	5,000 lbs. (complete skid mounted system)		Width = 7.5 ft.
Hydraulic Oil Type -	Shell Telius T46		Height = 8.0 ft.
			Deck area = 94 sq ft.

Packaging-Per system

<u>Type</u>	<u>Qty</u>	<u>Weight (lbs)</u>	<u>Dimensions</u>	<u>Deck Area</u>
Job Box	1	750	2.6' x 5 x 3.2'	13 sq. ft.
Large Wire basket - Suction Hose	1	600	4' x 3.4' x 3.10'	13.6 sq. ft.
Large Wire Basket -Suction Hose	1	600	4' x 3.4' x 3.10'	13.6 sq. ft.
Small Wire Basket - 6" Layflat	1	850	4' x 3.4' x 2.6'	13.6 sq. ft.
Small Wire Basket - Heads/Floats	1	390	4' x 3.4' x 2.6'	13.6 sq. ft.

Total System Weight - 8,190 lbs

Total System Required Deck Area - 161.4 sq. ft.

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Handling - The AARDVAC 800 skimmer is designed for beach or shoreline collection/recovery point operations. It is not likely to be used offshore as a VOSS, but the AARDVAC system could become a valuable tool in shallow water spills when it is worked off a barge type platform.

Operation - The AARDVAC skimming system will require the operator to be proficient in diesel engine operations in addition to having knowledge of vacuum skimming and transfer pump procedures.

SEAWOOLF SKIMMER

Description - The Seawoolf is a low capacity skimmer that is used primarily to recover debris laden oil. It is capable of skimming very heavy oil, including oil that is emulsified or "weathered." The unit draws surface floating oil, tar, and contaminated debris into a clamshell type bucket through two double vertical disk banks. A Desmi DOP-250 Pump with a weir lip inside the bucket provide normal skimming capability. When the debris inside the bucket builds up, the unit is hoisted from the water and the clamshell dumps the debris into an open barge along side the vessel or operating platform.

Quantity - 1 System

Location - Regional Response Center

Specifications - Rated BBLs/HR = 193
 Derated 80% BBLs/HR = 38.5
 Weight = approx. 2,464 lbs.
 Hydraulic Oil Type - Shell Tellus T46

Dimensions: Draft = 51 in.
 Length = 8.9 ft.
 Width = 10.2 ft.
 Height = 10.8 ft.
 Deck area = 91 sq. ft.

Packaging -Per system

Type	Qty	Weight	Dimensions	Deck Area
Aluminum Skimmer Pallet	1	900	10.8 x 8' x 1'	86.4 sq. ft.
Hydraulic Power Pack Type II	1	4622	6.5' x 3' x 6'	19.5 sq. ft.
Vikoma Control Stand	1	320	4.6' x 1.7' x 3'	7.82 sq. ft.
Job Box	1	750	2.6' x 5 x 3.2'	13 sq. ft.
Large Wire basket - Vendor Hose	1	600	4' x 3.4' x 3.10'	13.6 sq. ft.
Large Wire Basket - Hose Floats/Line	1	470	4' x 3.4' x 3.10'	13.6 sq. ft.
Small Wire Basket - 6" Layflat	1	850	4' x 3.4' x 2.6'	13.6 sq. ft.
Small Wire Basket - Hydraulic Hose	1	770	4' x 3.4' x 2.6'	13.6 sq. ft.

Total System Weight - 11,746 lbs

Total System Required Deck Area - 181.2 sq ft.

Handling - The Seawoolf is a relatively large, heavy skimmer that will require an on board crane capable of hoisting the skimmer full of oil laden debris, and spotting the unit over a collection barge along side to dump the clamshell.

Operation - The Sea Woolf skimmer is usually used late in the spill clean up when viscous, emulsified, and debris laden oil cannot be recovered with conventional skimming systems.

TRANSREC 350 OIL RECOVERY SYSTEM

Description - The Transrec 350 is a high capacity skimming system designed to handle most oils and recovery conditions. MSRC's Off Shore Response Vessels (OSRV's) were designed with the Transrec 350 positioned aft on the starboard quarter for maximum skimming efficiency when used in conjunction with the (FIOCS) 800 Norwegian Oil Trawl. The Transrec system consists of a skimming head, a telescoping crane, and a hose reel. The skimming head is connected to the hose reel through a hose trunk that contains both the hydraulic and discharge hoses. Three types of skimmer heads are available to be used with the Transrec 350, a weir lip, a disc, and a belt skimming head.

Quantity - 4 Systems

Location - Installed on board the New Jersey Responder, Maine Responder, Delaware Responder and Virginia Responder.

Specifications-	Rated	BBLs/HR = 2200	Dimensions:	Draft = 48 in.
	Derated 80%	BBLs/HR = 440		Length = 17.4 ft.
	Weight = approx.	30,800 lbs.		Width = 13.8 ft.
	Hydraulic Oil Type - Shell Tellus T46			Height = 17.4 ft.
				Deck area = 240 sq ft.

Total System Weight- 30,800 lbs

Total System Required Deck Area- 240 sq ft.

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Handling- Because the skimmer is permanently mounted on board the OSRV's, this skimmer will only be used in areas where the OSRV can operate. The skimmer's hydraulic power is supplied by the OSRV's central hydraulic system.

Operation - The Transrec 350 will require at least 2 men for skimming operations, one equipment operator and one tankerman to monitor tank levels and operate the oily water separator. Transfer operations may require a third man to be present.

During Transrec operations, the skimmer will discharge to the OSRV's storage tanks where the recovered oil and water mixture can be decanted and then purified by the on board oily water separators. The separated oil will then be discharged to a barge on station for transport to a shore side collection facility.

23-44 SEA SENTRY II OIL CONTAINMENT BOOM

Description - The 23-44 Sea Sentry II is a heavy duty offshore oil containment boom manufactured by Engineered Fabrics Corporation. It is deployed from a reel or pallet to provide offshore spill containment in heavy wind and wave conditions. The freeboard/inflation chamber above the water line has a height of 23 inches and the draft/skirt below the water line has a depth of 44 inches. A chain is attached to the bottom of the skirt for ballast and tensile strength.

Quantity - 30,360 Feet

Location - Regional Response Center (6600'), Portland (6600'), Boston (1320'), Narragansett (2640'), Delaware Bay (6600') and Norfolk (6600').

Specifications - Dimensions: Freeboard = 23 in.
Draft = 44 in.
Boom section length = 110 ft.
Individual Air chamber length = 15 ft.
Weight = 8.5 lbs/ft or 935 lbs. per 110' section w/o connection plate.

Packaging - Per Boom system (660 feet of boom per reel or pallet)

<u>OSRV System</u>	<u>Qty</u>	<u>Weight</u>	<u>Dimensions</u>	<u>Deck Area</u>
Hydraulic Boom Reel w/Boom	1	8,800	8' x 9.10' x 8'	72.8 sq ft.
Pallet w/ Boom	3	19,500	8.7' x 7.6' x 3.6	132.24 sq ft.
Large Wire Basket - Support	1	600	4' x 3.4' x 3.10'	13.6 sq ft.

Total System Weight - 32,800 lbs

Total System Required Deck Area - 235.44 sq. ft.

<u>Reel System</u>	<u>Qty</u>	<u>Weight</u>	<u>Dimensions</u>	<u>Deck Area</u>
Hydraulic Boom Reel w/Boom	1	8,800	8' x 9.10' x 8'	72.8 sq ft.
Pallet w/ Boom	2	13,000	8.7' x 7.6' x 3.6	132.24 sq ft.
Hydraulic Power Pack Type III	1	3,900	5.6' x 3' x 6'	16.8 sq ft.
Large Wire Basket - Support	1	600	4' x 3.4' x 3.10'	13.6 sq ft.

Total System Weight - 26,300 lbs

Total System Required Deck Area - 235.44 sq. ft.

<u>Non-Reel System</u>	<u>Qty</u>	<u>Weight</u>	<u>Dimensions</u>	<u>Deck Area</u>
Pallet w/ Boom	2	13,000	8.7' x 7.6' x 3.6	132.24 sq ft.
Large Wire Basket - Support	1	600	4' x 3.4' x 3.10'	13.6 sq ft.

Total System Weight - 19,000 lbs

Total System Required Deck Area - 145.84 sq. ft.

Handling - Precautions should be taken to not over-inflate the air chambers since they have a maximum pressure rating of 1.5 psig. This boom requires a tow vessel with at least a 5000 lb. bollard pull capability at a tow speed of 0.75 - 1 knots. Vessel deployment of this offshore boom will require that the working deck of the VOSS vessels meet two criterion: the vessel must have adequate deck space and deck load capacity to safely stow the equipment and it must also have enough deck space to inflate at least one air chamber (15 feet) before that chamber goes over the side.

Operation - The Sea Sentry 23-44 Boom is likely to be used with two vessels towing the boom in a "J" formation in conjunction with a skimmer in the boom's apex. In this scenario, the VOSS vessel will require substantial open deck space to stow the boom and skimmer equipment and still have enough deck space to deploy the gear.

SLICKBAR MARK 7 - 24" HEAVY DUTY BOOM

Description - The Mark 7 boom is a rigid floatation type boom which is very durable, stores compactly, and is easily deployed from a container. This boom contains oil by providing a barrier in shore line areas with moderate to heavy seas. The boom has an overall width of 24 inches: a freeboard of 8 inches and a draft of 16 inches.

Quantity - 12,000 Feet

Location - Regional Response Center (2000'), Portland (2000'), Boston (2000'), Narragansett (2000'), Delaware Bay (1000'), Baltimore (2000'), and Norfolk (1000')

Specifications - Dimensions: Freeboard = 8 in.
 Draft = 16 in.
 Boom section length = 100 ft.
 Individual Poly floatation length = 10.5 in x 24 in
 Weight = 6 lbs/ft or 600 lbs. per 100' section w/ connection plate
 Type connector plate = Mark 3 meets ASTM F-962 standards

Packaging - 1000 Feet of Slickbar MK-7 per system

Type	Qty	Weight	Dimensions	Deck Area
Open Top ISO Container	1	5,250	20' x 8' x 8.6'	160 sq. ft.
System Slickbar MK-7	1	6,000	1000 feet	N/A
Plastic Basket - Support Equipment	1	560	3.8' x 4.1' x 5'	15.58 sq. ft.

Total System Weight - 11,810 lbs

Total System Required Deck Area - 175.58 sq ft.

Handling - This medium weight boom was selected by MSRC for deployment from storage containers by either VOSS vessels or from beach locations. The weight of the boom allows it to be stowed manually with two to three people minimum. The relatively compact size of the containers makes them transportable to the site by truck, boat or air.

Operation - The strength and flexibility of the Mark 7 gives it the ability to follow wave contours, making it the ideal boom to use in exposed shore line waters where its high freeboard and deep skirt are particularly effective against severe wave action.

The Mark 7 boom can be connected to other types of boom, such as the Intertidal boom. This configuration establishes a complete boom system to provide protective coverage around environmentally sensitive areas or marinas.

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TEXAS BOOM / INTER-TIDAL STXB-26 (modified) BOOM

Description - The Inter-Tidal STXB-26 Boom is designed to provide spill containment in the most difficult and sensitive areas to protect; shallow tidal waters on sandy shorelines and coastal marsh lands. The inter-tidal boom is comprised of an air filled chamber on the top, coupled with large twin water chambers on the bottom. At high tide the boom floats like a standard containment boom. At low tide, the weight of the water in the bottom chambers forms a seal between the boom and the exposed tidal flat or beach contours. This dike effect prevents the spilled oil from spreading across the inter tidal zone.

Quantity - 8,000 Feet

Location - Regional Response Center (2000'), Portland (1000'), Boston (1000'), Narragansett (500'), Delaware Bay (1500') and Norfolk (1000')

Specifications - Dimensions: Freeboard = 10 in.
Draft = 16 in.
Boom section length = 100 ft.
Individual Air chamber size = 50 ft. x 10 in.
Individual Water chamber size = 50 ft. x 16 in.
Weight = 154 lbs. per 50 ft. bagged section/ 3,100 lbs per system
Type connector plate = ASTM F-962 Quick Clip w/pin

Packaging - Per Boom system (1,000 ft Boom per system, 50 ft Boom per bag = 20 bags)

Type	Qty	Weight	Dimensions	Deck Area
Closed Top ISO Container	1	5,560	20' x 8' x 8.6'	160 sq. ft.
System of Texas Boom	1	3,100	1,000'	N/A
Plastic Basket - Support	1	560	3.8' x 4.1' x 5'	15.58 sq. ft.

Total System Weight - 9,222 lbs

Total System Required Deck Area - 175.58 sq ft.

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Handling - This light weight Inter-tidal boom is designed for repeated emergency operations. When not in use the boom rolls up and fits into a cylindrical bag with rope straps for easy handling. Extreme care must be taken when positioning the boom because heavy abrasions will cause failures of the air and water chambers.

Operation - Intertidal boom must be positioned with the air chamber inflated and the water chambers empty, because once the water chambers are filled, the boom cannot be moved unless it's floating. Water chambers are filled by cascading water through jumper hoses between adjacent water chambers on abutting sections of boom. It is recommended to cascade a maximum of 3 boom sections at a time, because the water pressure will build up and exceed the manufacturers safe limit of 4 psi in the lower chambers. The Intertidal boom is not a rapid deployment type boom and is best deployed at low tide to provide maximum protection. The deployment process is extremely time consuming; adequate preparation time is a must. In a complete shore barrier boom system, the intertidal boom might be used in conjunction with the Slickbar Mark-7 boom to cover tidal flats and open water areas.

VIKOMA 3-WEIR BOOM

Description - The Vikoma 3-Weir boom is a transportable skimming system with three (3) weir skimmers located in the boom. The boom is deployed in a "J or V" formation alongside of the OSRV or VOSS vessel. It concentrates and collects large quantities of oil in the boom's apex, and recovers the oil through the three (3) skimmers installed within the boom at the oil/water interface. The Vikoma 3-weir boom is capable of recovering up to 1,158 barrels per hour.

Quantity - 2 Systems

Location - Regional Response Center

Specifications - Rated BBLS/HR = 1,158
 Derated 80% BBLS/HR = 232
 Weight = approx. 13,700 lbs. (total system)
 Hydraulic Oil Type - Shell Tellus T46
 Hydraulic Hose Size = 1"
 Discharge Hose Size = 6" camlock

Dimensions: Draft = 1.4 ft.
 Length = 1320 ft.
 Width = 1.02 ft.

Packaging - Per system (Port or Starboard)

Type	Qty	Weight	Dimensions	Deck Area
Boom Reel	1	18,000	12.6' x 9' x 8.10'	113.4 sq. ft.
Boom Roller	1	660	Attaches to reel	N/A
Hydraulic Power Pack Type I	1	5000	7.25' x 3' x 6'	21.75 sq. ft.
Vikoma Control Stand	1	260	4.6' x 1.7' x 3'	7.82 sq. ft.
Transfer Pump	1	3,000	7' x 3.3' x 7'	23.1 sq. ft.
Water Pump/Buoy	1	500	Towed in water	N/A
Job Box	1	750	2.6' x 5' x 3.2'	13 sq. ft.
Large Wire basket - Hydraulic Hose	1	1480	4' x 3.4' x 3.10'	13.6 sq. ft.
Large Wire basket - Air Fan	1	560	4' x 3.4' x 3.10'	13.6 sq. ft.
Small Wire basket - 6" Layflat	1	850	4' x 3.4' x 3.10'	13.6 sq. ft.
Small Wire basket - Tube/St By fan	1	580	4' x 3.4' x 3.10'	13.6 sq. ft.

Total System Weight - 31,640 lbs

Total System Required Deck Area - 233.47 sq. ft.

Handling - The Three Weir boom system and support equipment will require considerable deck space and deck load capacity on board the VOSS Vessel. The equipment will most likely be loaded with a shore side crane. The 3-weir boom will be used on VOSS vessels or as a back-up system to the (FIOCS)- 800 Norwegian Oil Trawl and Transrec 350 on the OSRV.

Operation - Operation of the 3 Weir Boom over-the-side of the OSRV or a VOSS vessel will require the coordinated effort of 2 vessels. The mother ship holds the "J" formation and the support boat tows the leading edge of the sweep boom. In addition to the 2 vessels, the 3-weir boom will also require close attention on the deck of the mother ship to tend the blower for the boom and the hydraulic power pack. Loss of blower air pressure will sink this boom. Back-up systems include a battery powered air pump and a spare HPU.

(FIOCS) 800 NORWEGIAN OIL TRAWL

Description - The Fully Integrated Oil Containment Systems (FIOCS) 800 Norwegian Oil Trawl is a boom containment system with bottom netting across a "V" shaped apex. Oil layers can build up to a thickness of 1-2 feet to provide optimal skimming conditions for the Transrec 350 skimmer. This boom system will only be used aboard MSRC's Off Spill Response Vessels.

Quantity - 4 Systems

Location - New Jersey Responder, Maine Responder, Delaware Responder and Virginia Responder

Specifications - **Dimensions:** Draft = 5-8 ft. Weight = approx. 19,800 lbs. (total system)
 Length = 15 ft.
 Width = 8 ft.
 Height = 8.5 ft
 Deck area = 120 sq ft

Packaging - Per system

Type	Qty	Weight	Dimensions	Deck Area
Boom Reel	1	19,800	15' x 8' x 8.5"	120 sq. ft
Job Box	1	800	5' x 2.6' x 5'	13 sq. ft.

Total System Weight - 20,600 lbs

Total System Required Deck Area - 133 sq. ft

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Handling- The (FIOCS) - 800 Norwegian Oil Trawl on board the OSRV will work in conjunction with the Transrec 350 skimmer. The Oil Trawl has 3 integral components which make up the system: the 110m trawl with bottom nets, the 95m of guide boom with a tow bridle, and the cross bridle outrigger.

Operation - The Norwegian Oil Trawl, when used in conjunction with the Transrec 350, will provide MSRC with its maximum recovery production system. This evolution will require the OSRV's support boat to work in coordination with the OSRV for deployment and operation of this boom. Manning requirements for the 800 Norwegian Oil Trawl will include several equipment operators on board the OSRV to handle the boom deployment and two operators aboard the support boat.

EUREKA CCN-150 OFF LOADING PUMP

Description - The Eureka CCN-150 is a portable high capacity, light weight pump typically used for emergency off loading or lightering of cargo tanks. The capacity of the pump ranges from 1,500 to 3,500 barrels per hour depending on the viscosity of the product being pumped. The Eureka CCN-150 Pump is not recommended for the pumping of heavy or weathered oil. The pump is designed to be an extremely compact and narrow unit so that it may pass through the 12.5" Butterworth plates of tankers for transferring cargo.

Quantity - 5 Pumps

Location - Regional Response Center (2), Portland (1), Boston (1), Delaware Bay (1) and Virginia (1)

Specifications - Rated BBLS/HR = 1,500 - 3,500 **Dimensions:** Draft = 2 in.
 Weight = approx. 175 lbs. (dry pump) Length = 2.2 ft.
 Hydraulic Oil Type - Shell Tellus T46 Width = 1.02 ft.
 Hydraulic Hose Size = 1" Deck area = 2.2 sq ft.
 Discharge Hose Size = 6" camlock

Packaging - Per system

Type	Qty	Weight	Dimensions	Deck Area
Hydraulic Power Pack Type I	1	5000	7.25' x 3' x 6'	21.75 sq ft.
Large Wire basket - 6" Layflat	1	875	4' x 3.4' x 3.10'	13.6 sq. ft.
Large Wire basket - Hydraulic Hose	1	700	4' x 3.4' x 3.10'	13.6 sq. ft.

Total System Weight - 6,575 lbs

Total System Required Deck Area - 48.95 sq ft.

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Handling - Use of this pump will be dictated by conditions present at a given spill incident. Although MSRC at the present time does not plan on providing lightering services, these pumps may be necessary for emergency purposes. The Eureka CCN-150 can also be used in the discharge line to overcome head pressure when pumping up a steep embankment or over a distance in excess of 150 feet.

Operation - The operator of the CCN-150 pump must be thoroughly familiar with the hydraulic operating pressures and limits of this pump to prevent inadvertent damage to it. Extreme care must be taken to ensure that the pump is not operated in reverse, as this may result in damaged hydraulic seals.

DESMI DOP 250 PUMP

Description - The DESMI DOP 250 pump is a general purpose, positive displacement, Archimedes screw pump with a capacity of 400-1200 barrels per hour while pumping oils of viscosities up to 1,000,000 centistokes. The DOP 250 pump will be used in skimming systems and in transfer operations.

Quantity - 18 Pumps

Location - Regional Response Center (5), Portland (1), Boston (3), Delaware Bay (4) and Norfolk (5)

Specifications - Rated BBLs/HR = 400 - 1200
 Weight = approx. 160 lbs. (dry pump)
 Hydraulic Oil Type - Shell Tellus T46
 Hydraulic hose size = 1" & 3/8" drain line
 Discharge hose size = 6" camlock

Dimensions: Draft = 2 in.
 Length = 2 ft.
 Width = 1.2 ft.
 Deck area = 2.4 sq. ft.

Packaging - Per system

Type	Qty	Weight	Dimensions	Deck Area
Hydraulic Power Pack Type II	1	4622	6.5' x 3' x 6'	19.5 sq. ft.
Large Wire basket - 6" Layflat	1	875	4' x 3.4' x 3.10'	13.6 sq. ft.
Large Wire basket - Hydraulic Hose	1	700	4' x 3.4' x 3.10'	13.6 sq. ft.

Total System Weight- 6,197 lbs

Total System Required Deck Area - 46.7 sq ft.

Handling - The DOP 250 pump is relatively small and light weight, two men can easily carry and deploy it. This pump is used with several of the skimmers in the MSRC inventory, but it is also a versatile pump on its own. The minimum diameter opening required to lower this pump into a tank is 23 inches.

Operation - As with all hydraulic powered equipment, it is essential for the operator to know all the operating pressures and limits to prevent damage to the equipment. This pump also has a 3/8" hydraulic case drain line which must be used to prevent damage to the hydraulic seals. The DOP 250 pump is a component part of the following MSRC skimmers: the Desmi Ocean Skimmer, the Walosep W-4, and the WP-1 skimmer. A DOP-250 Pump on a Desmi Ocean Skimmer can be changed out in 15-30 minutes.

PORTABLE HYDRAULIC POWER UNITS TYPES I, II, III

Description - Virtually all of MSRC's oil recovery equipment uses hydraulic power for their deployment and operation. All HPU's are independent, self contained power sources consisting of the hydraulic pump and hydraulic system, the diesel engine, the hydraulic reservoir, the heat exchanger, the fuel tank, and the frame/weather enclosure. MSRC's portable hydraulic power units come in three sizes or types, but all have the same major components. All of MSRC's HPU diesel engines are manufactured by John Deere.

Quantity - Type I 15
 Type II 16
 Type III 11

Location - Regional Response Center (20), Portland (4), Boston (5), Delaware Bay (7), Baltimore (1) and Norfolk (7)

Specifications -	<u>Weight</u>	<u>Dimensions</u>	<u>Deck Area</u>
Type I	5000	7.25' x 3' x 6'	21.75 sq ft.
Type II	4622	6.5' x 3' x 6'	19.55 sq ft.
Type III	3900	5.75' x 3' x 5.75'	16.8 sq. ft.

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Handling - All three sizes of MSRC's HPU's are of similar design with common interchangeable parts. Three sizes have been purchased relative to the power required to drive the different systems or combinations of systems. All power units will have forklift slots and hoisting points built into the skid frames to facilitate handling and hoisting.

Operation - All responders will become thoroughly familiar with the operations of each type of hydraulic power unit and the various response equipment that they can power. As with all hydraulically powered equipment, pressure limits and manufacturers guidelines should be closely followed.

MSRC TOWABLE STORAGE BLADDERS

Description - MSRC's Towable Storage Bladders (TSB), are intended for use as storage and transportation containers for recovered oil during spill operations. The TSB is a cylindrical shaped rubberized fabric container. During skimming operations, skimmer system pumps transfer the recovered oil/water/debris mixture either directly or indirectly (via tanks or separator systems) to the TSB towed close astern of the support vessel. Recovered oil is offloaded from the Towable Storage Bladder by DOP 250 Pump.

Quantity - 4 Towable Storage Bladders

Location - Regional Response Center

Specifications - Dimensions: Flat
 Length - 65'
 Width - 14'
 Weight (dry) - 4400 LBS

Loaded
 Length - 65'
 Width - 10'
 Max Draft - 5' 9"
 Storage Capacity - 500 BBLS

Packaging

<u>Type</u>	<u>Qty</u>	<u>Weight</u>	<u>Dimensions</u>
TSB with Pallet	1	5000	8.7' x 7.5' x 4'
Support Basket	1	600	4' x 3.4' x 3.8'

Handling - The TSB can be deployed directly into the water by a vessel or from a platform by a crane. A crane with at least a 5 ton capacity may be necessary when recovering. When working with the TSB strict adherence to load and operating limits must be followed.

Operation - MSRC plans to use Towable Storage Bladders in conjunction with OSRV, VOSS, and OSRB operations. A TSB tender vessel will be needed to assist on TSB operations.

SHUTTLE BARGE SYSTEM

Description - The MSRC Shuttle Barge System (SBS) is intended to provide storage for recovered product in shallow water. Two pontoons locked together make up one shuttle barge. A Shuttle Barge System consists of 4 barges: 1 barge has Thrustmaster, power pack and crane aboard in order to deploy a skimmer. The other three barges are used for storage and each of these can hold 428 barrels of recovered product.

Quantity - 2 Shuttle Barge Systems

Location - Regional Response Center and Norfolk, Virginia.

Characteristics	<u>Propelled Unit</u>	<u>Non-Propelled</u>
Length	47'10"	47'10"
Beam	16'	16'
Depth (mld)	3'10"	3'10"
Draft, light	1'1" mean	0'11" mean
Draft, operational	2'8" mean	2'10" mean
Weight (dry)	18,000 lbs	18,000 lbs

Auxiliary Equipment

Thrustmaster	Power Plant	3208 Caterpillar
	Weight	11,000 pounds

Crane	Maximum Lift
	690 lbs with grapple
	2400 lbs with jib
	3125 lbs without jib

Packaging - Per System

<u>Type</u>	<u>Qty</u>	<u>Weight</u>	<u>Dimensions</u>
Two Pontoons per trailer	4	49,000	48' x 8.6' x 13.5'
Thrustmaster and support Equipment	1	30,000	48' x 8.5' x 13.2'

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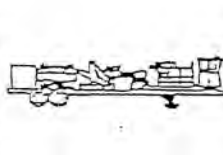
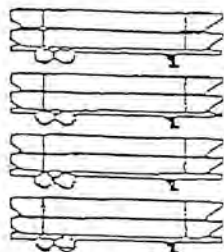
Handling - The shallow barges are to only be used within one mile of shore. Each shuttle barge is composed of two identical pontoon sections which are joined together by means of a locking mechanism. Pontoons may not operate independently

Operation - The Shuttle Barge System will be an integral part of MSRC's shallow water response.



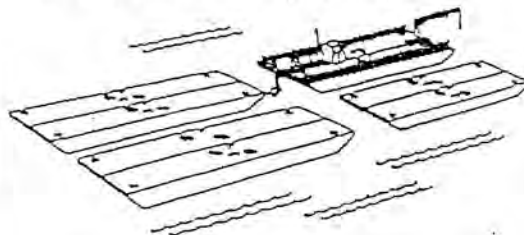
Shuttle Barge System (SBS) For Shallow Water Response

MSRC's Shuttle Barge System (SBS) is designed to provide a clean-up capability in shallow water. Each receptor barge has a 420 barrel capacity.

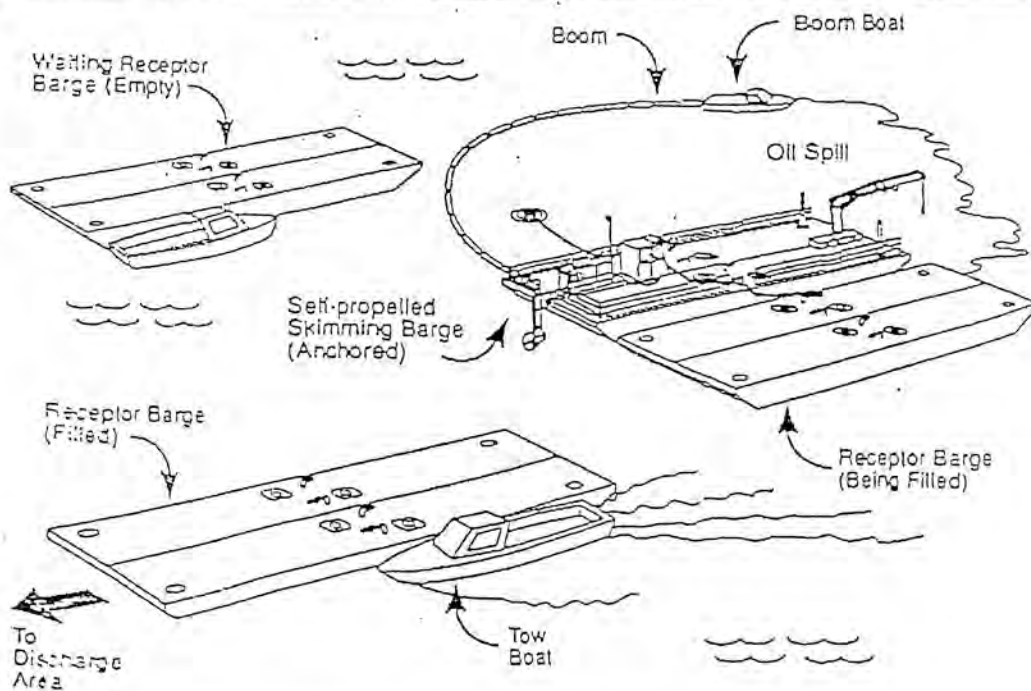


Pre-lashed trailers with a complete SBS can be moved unrestricted over highways to the spill site, then off-loaded.

MSRC will preposition 17 Shuttle Barge Systems along the coastal United States, as well as Hawaii and the Virgin Islands. Each site will have a complete SBS with barges, boats, booms and ancillary equipment.



Eight (8) pontoons are assembled in the water to form four (4) barges. (One skimming barge with equipment and propulsion motor; 3 empty receptor barges.)





MARINE SPILL RESPONSE CORPORATION
OFF SHORE RESPONSE VESSEL (OSRV)

CHARACTERISTICS

LENGTH OVER ALL (MLD)	208'-6"
BEAM (MLD)	44'-0"
DEPTH (MLD)	17'-0"
DESIGN DRAFT	13'-0"
FREEBOARD @ DESIGN DRAFT	4'-0"
QUARTERS	38 PERSONS
FUEL CAPACITY	83,000 GALS.
FRESH WATER CAPACITY	20,200 GALS.
RECOVERED OIL CAPACITY	4,000 BBLs.
POWER PLANT	MAINS: 2- CAT 3512 1500 BHP BOW THRUSTER: 1- CAT 3408 GENSETS: 3- CAT 3406
SUSTAINED SPEED	12 KNOTS

AUXILIARY EQUIPMENT:

- 2 - DECK CRANES, 100% AFT DECK COVERAGE CAPACITY: 20T @ 10'/2.5T @ 60'
- 2 - 32' SUPPORT BOATS- STERN LAUNCHED
- 2 - 18' RHIBs* SEARCH AND RESCUE BOATS- DAVIT LAUNCHED
- 1 - HELICOPTER LANDING PAD
- 1 - TRANSREC 350 SKIMMER- STERN MOUNTED

* RHIB- RIGID HULL INFLATABLE BOAT

OSRV 32' SUPPORT BOAT

CHARACTERISTICS

LENGTH OVER ALL (MLD)	32'-0"
BEAM (MLD)	12'-0"
DEPTH (MLD)	6'-7"
DRAFT	5'-0"
CREW	2
FUEL CAPACITY	2 TANKS @ 200 GALS. 400 GALS.
POWER PLANT	MAINS: 2- CAT 3208 TA
BOLLARD PULL	10,000 LB. MINIMUM
ELECTRICAL	12 VDC
TOW GEAR	1- DOUBLE POST BIT AFT / 10,000 LB. WORKING LOAD (SAFETY FACTOR=4)

12 POWER PACK

Model	STULTZ 12K AD1
Type	Diesel/Hydraulic – Transfer pump
Hydraulic output	4.17 gpm @ 1000 psi
Transfer Pump output	77 gpm
Dimensions	41" L x 24" W x 32"H
Weight	435#
Quantity	1
Location	MSRC warehouse, 14 Union Wharf
Shipping	Mounted in steel frame on wheels

Description

The 12 K Power Pack supplies the hydraulic power to drive the Vikoma 12 K Skimmer. It also houses the suction pump for transferring recovered oil via a 3" discharge line.



30K POWER PACK

Model	STULTZ 30K LPA3
Type	Diesel/Hydraulic – Transfer pump
Hydraulic output	6.5 gpm @ 1000 psi
Transfer Pump output	333 gpm
Dimensions	60" L x 36" W x 34"H
Weight	1050#
Quantity	1
Location	MSRC warehouse, 14 Union Wharf
Shipping	Mounted in steel frame

Description

The 30 K Power Pack supplies the hydraulic power to drive the Vikoma 30 K Skimmer. It also houses the suction pump for transferring recovered oil via a 4" discharge line.



AGAMENTICUS/CADILLAC

Location	Dry stored on trailers at Portland Pipeline, S.Portland, ME		
Length	30'	Beam	10'4" Draft 31"
Displacement	9,000 lbs.		
Engine	Twin turbo-charged 200 H.P. Volvo diesel engines		
Operating Range	6 hours at cruising speed; 12 hours at idle		
Cruising speed	24 knots		
Fuel Capacity	85 gallons at 95%		

Description

The AGAMENTICUS and CADILLAC are 30' aluminum boats designed for rapid response. They each have 464 cu.ft. of open deck and a heated pilot house. They are currently stored on trailers, ready for over the road transport.

Deck Equipment & accessories

♦800# lifting davit; ♦4' bow door; ♦2'6" port side door; ♦6" towing bitt

Standard complement of marine electronics; including GPS, RADAR, depth sounder & marine radios



ALUMINUM STORAGE BARGES

ASB 1 & 2		
Capacity	100 bbls each	
Dimension	32'L X 8'W X 8'H	
Weight	4,000 #	
Location	Dry stored at 55 Union Wharf	
	Portland, Maine	
Quantity	Components	
4	4" fill/discharge removable vent	
1 each	Job Box with running lights, ratchet binders, tie up lines, tank vents, manifold with two 4" ball valves to use when filling the barges. Stage in the warehouse on the shelf.	
1	Lifting bridle	
	Description	
Each of these aluminum barges is designed for the temporary on-water storage of 100 barrels of recovered oil in 2 separate tanks. Each tank is fitted with 1 1/2" schedule 80 steam coils.		
	Handling / Operation	
Towing speed is 8 knots when empty, 5 knots fully loaded.		
ASB 3		
Capacity	200 bbls	
Dimension	36'L X 12'W X 4' depth	
Weight	8,000 #	
Location	Made up to SADDLEBACK berthed at PPLC Pier 1	
	South Portland, Maine	
Quantity	Components	
4	4 " fill/discharge removable vent	
1	Job Box with running lights, ratchet binders, tie up lines, tank vents, manifold with two 4" ball valves to use when filling the barges. Stage on the Saddleback	
1	Lifting bridle	
This aluminum barge is designed for the temporary on-water storage of 200 barrels of recovered oil in 2 separate tanks.		
	Handling / Operation	
Towing speed is 7 knots when empty and 5 knots when fully loaded.		

ALUMINUM STORAGE BARGES, cont.



DESMI 250 SKIMMER

EDRC	2112 bbls/day
Pump	
Capacity	310 gpm
Dimension	6.5'L X 5.7'W X 2.5'H
Weight	375#
Container	Staged on board the SADDLEBACK, berthed at PPLC Pier 1, South Portland

Quantity	Component
1	Desmi 250 Skimmer
1	Integrated Desmi DS250 Archimedes screw pump
1	Hydraulic Power Pak – 26 gpm
100'	Layflat 4" Discharge hose
2	Hydraulic hose 50' x 3/8"
4	Hydraulic hose 50' x 1"
1	Tool kit

Description

The DESMI 250 Skimming system is a high volume weir skimmer for use in light oil as well as heavy oil and debris. The DESMI 250 can be deployed from a response vessel or from a pier or shore in relatively shallow water.

Handling / Operation

The vertical weir lip of the DESMI 250 is controlled pneumatically from the hydraulic/pneumatic power pack. The skimmer pump can be dismantled easily from the float system and used in a wide range of emergency and auxiliary pumping operations.

DESMI 250 SKIMMER, cont.



DIESEL AMERICA POWER PAK

Model	Diesel America
Type	Diesel/Hydraulic
Hydraulic output	10 gpm @ 1500 psi
Dimensions	36" L x 24" W x 34"H
Weight	350#
Quantity	2
Hoses	6 x 25' x 3/8" custom hydraulic hoses
Location	MSRC warehouse, 14 Union Wharf, Portland, ME
Shipping	Mounted in marine aluminum roll cage frame

Description

Two Diesel America Power Packs supply the hydraulic power to drive the LORI Skimmer brushes and Desmi DPO 250 offloading pump.



ELASTIC TDS 136 DRUM SKIMMER

EDRC	211.4 bbls/day-light oil 288 bbls/day-medium oil 480 bbls/day-heavy oil
Pump capacity	100 gpm
Dimension	3'1" L X 7'7" W X 1'6" H
Weight	90#
Shipping	Portable
Location	Dry stored @ MSRC warehouse 14 Union Wharf, Portland, ME

Quantity	Component
1	Oleophilic drum
1	Diesel power pack w/ attached air compressor
4	50' x 2 1/2" suction/discharge hoses
1	Job box

Operators Required	1
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Description

The ELASTEC TDS 136 self-bouyant drums rotate on the water surface collecting oil onto the drums. Wipers scrape oil into troughs housed in the aluminum frame. A suction hose transfers the recovered oil to a temporary storage device.

Handling / Operation

The ELASTEC TDS 136 is a highly efficient oleophilic drum which rotates in the oiled water. The ELASTEC skimmer is effective in a wide range of oils and can be deployed for a response vessel, a pier, or from shore.

ELASTIC TDS 136 DRUM SKIMMER, cont.



HERITAGE BOOM

STORED LOCATION	SIZE	LENGTH	Comments	TOTALS
PPLC Pier 2 Marine Terminal	27"	1600'	ISO box #1-202342	
S.Portland, ME	19"	3200'	ISO box #2 202326	
				4800'
Pre-loaded on 35' Response boats moored at Union Wharf, Portland, ME				
CROCKER	27"	950'	pallet #2 on foredeck	
KATAHDIN	27"	1000'	pallet #1 on foredeck	
				1950
MAINE RESPONDER parking area	27"	950'	Pallet #4 ISO #5/201744	
55 Union Wharf	27"	1000'	Pallet #3 MSRC Trailer # 31	
Portland, ME				
				1950
				8'700

KATAHDIN/CROCKER

Location	Moored on Union Wharf, Portland, ME		
Length	35'6"	Beam	12'6"
Displacement	9,900 lbs.	Draft	2'6"
Engine	Twin turbo-charged 200 H.P. Volvo diesel engines		
Operating Range	12 hours at cruising speed; 40 hours at idle		
Cruising speed	24 knots		
Fuel Capacity	237 gallons at 95%		

Description

The KATAHDIN and CROCKER are aluminum 35 foot Winninghoff OSRVs designed for rapid response. They each have 828 cu.ft. open deck space – currently outfitted with 2000' of 27" harbor boom on pallets and ready for immediate deployment.

Deck Equipment & accessories

♦1000# lifting davit; ♦ 6' bow door; ♦ 3'9" port side door; ♦ 6" towing bitt

Standard complement of marine electronics; including GPS, RADAR, depth sounder & marine radios



LSC LORI SIDE COLLECTOR

EDRC	1357 bbls/day-per side-Total 2,714
Pump capacity	440 gpm each DOP 250
Dimension	3'1"L X 7'7"W X 1'6"H
Weight	1100# total
Shipping	KATAHDIN
Location	Dry stored @ MSRC warehouse 14 Union Wharf, Portland, ME

Quantity	Component
2	Lori Side Collector w/DOP 250 pumps
2	boom arms
2	50' boom sections stowed on pallets
2	diesel/hydraulic power packs w/ custom hoses
2	50' x 4" lay flat discharge hose w/ reducers
1	job box

**Operators
Required** 4

Description

The LORI SIDE Collector System includes three bristle brush units, a side collector box, jib arm with float, collection boom and a Desmi DOP 250 off-loading pump. The side booms sweep oil into the collector boxes where recovered product is directed through a hydraulically operated Lori bristle aggregate which separates oil and debris from the water. Brush chains lift the recovered material to a receiving sump which feeds the collecting station by gravity.

Handling / Operation

The LORI LSC Side Collector system is a removable side mounted system specifically adapted to the KATAHDIN. When not in use the system is removed from the vessel and stored in the warehouse.

LSC LORI SIDE COLLECTOR, cont.



RO-CLEAN OIL MOP 260

EDRC	362 bbls/day
Pump capacity	53 gpm
Dimension	5'9"l x 2'8"w x 4' h
Weight	1022#
TSC	106 gallons
Shipping	Portable
Location	Dry stored @ MSRC warehouse 14 Union Wharf, Portland, ME

Quantity	Component
1	Oleophilic Rope Mop
1	diesel direct drive engine integrated in unit
2	floating rope guides

Operators Required	1
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Description

The OM 260 utilizes oleophilic rope mops in continuous loops which float on the surface, oil adheres to the mops and then is removed by passing through a wringer/drive roller system. The recovered oil drops into a holding sump for removal by transfer pump or vac truck. The OM 260 can work effectively in debris laden conditions, floating ice, shallow water and fast current.

Handling / Operation

The OM 260 Rope Mop, while useful when recovering lighter oils, is most effective recovering heavy oil. It can be deployed from a pier, the shore, or a response vessel.

RO-CLEAN OIL MOP 260, cont.



SADDLEBACK

Location	Berthed at Portland Pipeline Pier 1, S.Portland, ME		
Length	46 '	Beam	20' Draft 4'6"
Displacement	30 tons		
Engine	Single turbo-charged 325 Caterpillar diesel with dry exhaust		
Operating Range	12 hours at cruising speed; 60 hours at idle		
Cruising speed	7 knots		
Fuel Capacity	380 gallons at 95%		

Description

The SADDLEBACK is a highly versatile, self-propelled, steel work barge. It is currently fitted with the Desmi 250 Skimming system and A-TSB-3, ready for rapid response to a tland Harbor oil spill. The Saddleback has 2,500 cu.ft. of open deck space, 6,500 lbs of ard pull from a 4' towing bitt and a 10' x 12' pilot house.

Deck Equipment & accessories

- ♦ Boom arm attachment w/float, rigging & 50' x 27" boom
- ♦ Sea Crane—hydraulically operated; 5300# capacity at 10'extension
- ♦ Central hydraulic system with 28 gpm output @ 2,500 psi

Standard complement of marine electronics; including GPS, RADAR, depth sounder & marine radios



SKIM-PAK 1800 WEIR SKIMMER

EDRC	2,054 bbls/day
Pump capacity	328 gpm
Dimension	3'6"L X 2'1"W X 1'1"H
Weight	28#
Shipping	Portable
Location	Dry stored @ MSRC warehouse 14 Union Wharf, Portland, ME

Quantity	Component
1	Skimmer head
1	3" centrifugal diesel trash pump
50'	4" lay flat discharge hose
50'	3" non-flexible suction hose
1	control wand

Operators Required	1
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Description

The SKIM-PAK operates by allowing liquid to flow over a floating inlet gate. The gate performs as a weir and causes a flow of the surface liquids.

Handling / Operation

The SKIM-PAK 18000 is a high volume skimmer with limited wave tolerance for use in tanks, ponds, harbors, and vacuum trucks. The SKIM-PAK can be deployed from a response vessel, a dock or from shore.



UNIVERSAL POWER PAK

Model	STULTZ UNIVERSAL 4BT3, 9-P
Type	Diesel/Hydraulic/Compressed Air
Hydraulic output	42 gpm @ 2500 psi
Air Compressor	9.5 cfm
Dimensions	6' L x 4'6" W x 4'6"H
Weight	4430#
Quantity	2
Location	MSRC warehouse, 14 Union Wharf
Shipping	Mounted in a steel frame on wheeled dolly

Description

The Universal Power Pack supplies the hydraulic power to drive the Desmi and Sea Devil Skimmers. It also houses an air compressor for adjusting the weir. This power pack is designed for simultaneous operation of 4 pieces of response equipment.



VIKOMA KOMARA SKIMMERS

	30K	12K
EDRC	905 bbls/day	362 bbls/day
Pump capacity	396 gpm	77 gpm
Dimensions	4'6" diameter X 2'2"H	4' diameter X 1'6"H
Weight	220#	123#
Shipping	Portable	Portable
Location	Dry stored @ MSRC warehouse 14 Union Wharf, Portland, ME	

Quantity	Component	
1 each	Oleophilic disc skimmer	
1 each	Diesel/Hydraulic power pak w/diaphragm transfer pump	
1 each	Job box	
2 sets of 4	50' x 3/8" hydraulic hoses	
2 x 50'	4" suction hose	3" suction hose
2 x 50'	4" layflat discharge hose	3" layflat discharge hose
Operators Required	2	

Description

The VIKOMA Skimmers incorporate 36 pick-up discs rotating within a floating head. Hydraulic drive is supplied by a diesel power pack which houses the suction pump for transferring recovered oil. Oil adhering to the rotating discs is scraped off into the oil collection sump and pumped to a recovery tank. All fluid floating oil of any viscosity will adhere to the rotating discs.

Handling / Operation

The KOMARA 30K and 12K are portable oil skimmers which can be deployed from a response vessel, a dock or from shore.

VIKOMA KOMARA 12K & 30K SKIMMERS/ POWER PACKS



VIKOMA SEA DEVIL

EDRC	2,290 bbls/day
Pump capacity	334 gpm
Dimensions	7'4" L X 4.5' W X 2.9' H
Weight	734#
Location	Pre-staged on board MSRC 620 barge berthed at PPLC Pier 1, S,Portland, ME

Quantity	Components
1	Sea Devil disc/weir skimmer head
1	Diesel/Hydraulic power pak
1	Integrated Desmi DS250 Archimedes screw pump
1	Sea Devil Control Stand
5	50' x 3/8" hydraulic hoses
1	4" x 50' hard discharge hose

Operators Required	2
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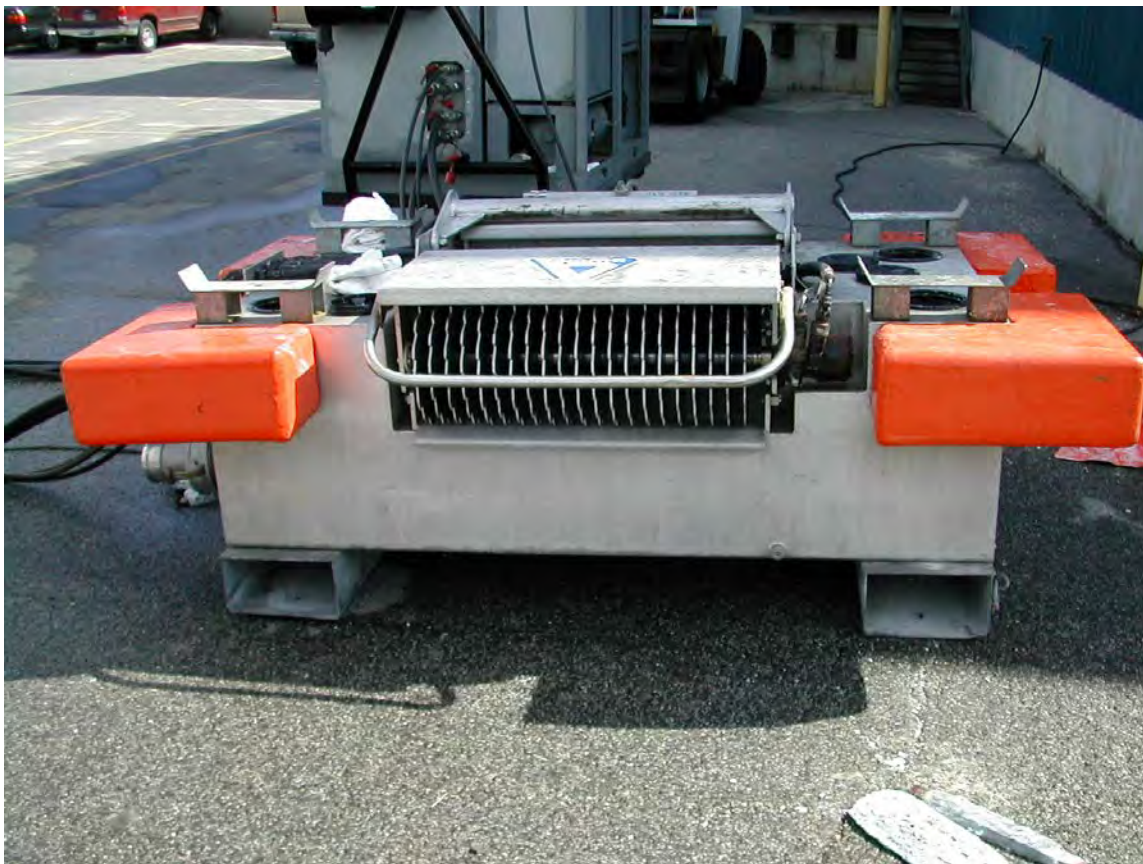
Description

The Sea Devil has two banks of 21 hydraulically driven, star shaped discs that claw heavy oil into the center of the skimmer. The recovered oil is transferred to temporary storage by a vertical Archimedes screw pump. The Sea Devil's disc banks are hinge-mounted to allow large floating debris to pass through the skimmer without impeding oil recovery.

Handling / Operation

The Sea Devil is a high volume skimmer designed for use in recovering debris laden heavy oil. It can be deployed from a response vessel into a boom configuration, or from a pier or shore in relatively shallow water.

VIKOMA SEA DEVIL, cont.



CLEAN HARBORS ENVIRONMENTAL SERVICES
Letter of Commitment to Respond
Equipment and Resources



17 Main Street
South Portland, ME 04106
207.799.8111
Fax 207.799.0349
www.cleanharbors.com

August 29, 2012

Nick Payeur
Portland Pipeline Corporation
30 Hill Street
P.O. Box 2590
South Portland, ME 04106

Dear Nick:

Pursuant to our conversation, I am writing this letter to inform you that Clean Harbors Environmental Services, Inc. will provide emergency response services. Clean Harbors is one of the Nations leading environmental service companies, along with being recognized as New England's premier emergency response contractor.

Our Bangor and South Portland, Maine locations are staffed with expert emergency response personnel, including Health and Safety professionals, Field Chemists and Engineers. These two locations ensure an expeditious response time for incidents throughout the State of Maine. Both locations are thoroughly equipped for incidents requiring EPA Personal Protection Levels "D" through "B". Level "A" can be obtained through our Weymouth, MA. office.

Our local resources in South Portland, Maine can respond to an emergency in the Portland area within 2 hours. For other support we can have resources from our Bangor office in 3-4 hours as well as our Weymouth, MA and Bow, N.H. offices within 4 hours.

Emergency services will be provided at the request of, or under the direction of, an authorized representative, on a time and material basis in accordance with our prevailing rates.

Our 24-hour emergency response phone number is 207-799-8111 or 1-800-OIL-TANK. We appreciate your business and look forward to servicing you in the future. Should you have any further questions please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Matthew A. Quinn", is written over a horizontal line.

Matthew A. Quinn
General Manager

 "People and Technology Creating a Better Environment"

SOUTH PORTLAND, ME SERVICE CENTER 17 Main Street South Portland, ME 04106	43.64 N 70.29 W	24-Hr. # 207.799.8111 24-Hr. # 800.645.8265 Fax # 207.799.0349
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(b) (6)	EPA / Federal ID #:	N/A
Personnel Authorized to release equipment / materials / manpower, etc:		

(b) (6)

40-Hour OSHA Trained Personnel:

Supervisor	6
Foreman	6
Field Technician	12
Equipment Operator	11
Site Safety Officer	1

Equipment List							
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T	P	D
(1) Vessels & Marine Support Equipment							
Power Workboat, Workskiff	South Portland	21', 115HP, V329	1	Y	Y	N	N
Power Workboat, Pointer	South Portland	21', 120 HP, ME 207SY, V120	1	Y	Y	N	N
Jon Boat w/ Motor, Alumaline	South Portland	12', 9.9 HP, ME 107CH, V201	1	Y	Y	N	N
Jon Boat w/ Motor	South Portland	12', 5 HP, SEAP7313M84G	1	Y	Y	N	N
Power Workboat, Trailboss	South Portland	20', 30 HP, ME10ZMM, V148	1	Y	Y	N	N
Power Workboat, Monarch	South Portland	22', 150 HP, ME 10ZML, V107	1	Y	Y	N	N
Power Workboat, Alumaline	South Portland	21', 130 HP, ME 2228Z, V201	1	Y	Y	N	N
(2) Motor Vehicles & Vacuum Equipment							
Vacuum Truck Straight	South Portland	3,000 gal.	2	Y	Y	N	N
Vacuum Split Trailers	South Portland	6,000 gal	1	Y	Y	N	N
Vacuum Trailer	South Portland	6,000 gal	3	Y	Y	N	N
High Powered Vacuum Loader, Cusco	South Portland	3,000 gal / 10 cu. yd.	1	Y	Y	N	N
Vacuum Skid	South Portland	3,000 gal	1	Y	Y	N	N
Vacuum Skid	South Portland	300 gal	1	Y	Y	N	N
Box Trailer	South Portland	40'	2	Y	Y	N	N
Box Truck	South Portland	10 wheel	1	Y	Y	N	N
Crew Cab Pickup	South Portland	F250	9	Y	Y	N	N
Frac Tanks	South Portland	20,000 gal	4	Y	Y	N	N
Drop Deck Trailer	South Portland	Roll Off Capable	1	Y	Y	N	N
Roll Off Trailer	South Portland	17 Yards	1	Y	Y	N	N
Tag along Trailer	South Portland		1	Y	Y	N	N
Spill Trailer	South Portland		1	Y	Y	N	N
10 Wheel Dump Truck	South Portland	10 yards	1	Y	Y	N	N
Roll Off Truck	South Portland	15 Yards	1	Y	Y	N	N
6 Wheel Dump Truck	South Portland	6 Yards	1	Y	Y	N	N

Equipment List Cont.						
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T	P D
(3) Pumps and Pressure Equipment						
Wilden Diaphragm Pump	South Portland	2"	2	Y	Y	N N
Wilden Diaphragm Pump	South Portland	2" Chemical	1	Y	Y	N N
Wilden Diaphragm Pump	South Portland	3"	1	Y	Y	N N
Adaps Hydraulic Pump	South Portland	4"	3	Y	Y	N N
Bowie Pump (Hydraulic)	South Portland	3"	1	Y	Y	N N
Hotsy on Trailer	South Portland	2,500 PSI	3	Y	Y	N N
Lamor Hydraulic Pump	South Portland	3"	1	Y	Y	N N
(4) Oil Spill Containment Booms						
Oil Containment Boom	South Portland	Global 14", In Water	2000	Y	Y	N N
Oil Containment Boom	South Portland	American Marine 24", In Water at Sprague	2500	Y	Y	N N
Oil Containment Boom	South Portland	Global 14", In Water	3400	Y	Y	N N
Oil Containment Boom	South Portland	American Marine 18", In Van	19500	Y	Y	N Y
Oil Containment Boom	South Portland	Global 24", In Water	1100	Y	Y	N N
(5) Environmental Monitoring Equipment						
HNU Meter	South Portland	P101	1	Y	Y	N N
MSA Gas Indicator	South Portland	Miniguard II	4	Y	Y	N N
4-Gas/Passport Meter	South Portland	LEL, O2, Hyd. Sulf.	2	Y	Y	N N
(6) Recovery Equipment						
Portable Tanks	South Portland	400 gallon Poly	2	Y	Y	N N
Sea Slug Towable Fuel Bladder	South Portland	Model #FCB-43E, 4300 gallons	1	Y	Y	N N
Disc Skimmer, Elastec	South Portland	ORD, 3", 50 GPM, 204195, S200	1	Y	Y	N Y
Drum Skimmer, Crucial	South Portland	TDS118, 3", 35 GPM, TDS11899336, S214	1	Y	Y	N Y
(7) Beach or Earth Cleaning and Excavating Equipment						
Excavator, CAT	South Portland	235 Track	1	Y	Y	N N
Backhoe, CAT	South Portland	436	1	Y	Y	N N
Bobcat	South Portland	843, Skidsteer	1	Y	Y	N N
(8) Generators / Compressors / Light Towers						
Sullair Portable Compressor	South Portland	185 CFM; Diesel	3	Y	Y	N N
Generator	South Portland	120 watt	3	Y	Y	N N
(9) Health and Safety Equipment						
CSE Entry Gear	South Portland	Tripod, DBI	2	Y	Y	N N
Coppus Blower	South Portland		2	Y	Y	N N
Coppus Blower	South Portland	Electric	2	Y	Y	N N
Supplied Air packs	South Portland	Scott	6	Y	Y	N N
Breathing Air Tanks	South Portland		20	Y	Y	N N

Equipment List Cont.				
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A T P D
(10) Communications				
Portable marine radios	South Portland		7	Y Y N N
Base Marine Radio	South Portland		1	Y Y N N
2-way Mobile Radios	South Portland	Nextel	27	Y Y N N
Company Base Radio	South Portland	Nextel	1	Y Y N N
(11) Miscellaneous				
Emergency Response Subcontractors				

Portland Tugboat & Ship Docking Co., Inc. Contact:

P.O. Box 15049

Portland, Maine 04112

(207) 774-2902

(207) 773-5659

(b) (6)

Services Provided:

Tug Boat Services

Winslow Tugs

26 Andrews Avenue

Falmouth, Maine 04105

(207) 780-8847

Contact:

(b) (6)

Services Provided:

Tug Boat Services

General Marine Constructors

Deaks Wharf

Portland, ME 04101

(207) 772-5354

Contact:

(b) (6)

Services Provided:

Barge and tug boat

Industrial Welding & Machine, Inc.

430 Commercial Street - P.O. Box 1004

Portland, Maine 04104

(207) 773-8482

(207) 767-3561 Nights and Holidays

Contact:

Services Provided:

Welding service

National Response Corp

P.O. Box 7210

Portland, Maine 04112

(207) 767-7112

Contact:

(b) (6)

Services Provided:

Barge skimmer Service

Marine Spill Response Corp.

14 Union Wharf

Portland, Maine 04101

(207) 780-8801

Contact:

(b) (6)

Services Provided:

Large boat , skimmer service

BANGOR, ME SERVICE CENTER	44.78 N 68.81 W	24-Hr #	207.262.9504
40B Carey Circle		24-Hr #	800.645.8265
Hampden, ME 04444		Fax #	207.262.9560

(b) (6)	EPA / Federal ID #:	N/A
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Personnel Authorized to release equipment / materials / manpower, etc:

(b) (6)

40-Hour OSHA Trained Personnel:

Supervisor	2
Foreman	5
Equipment Operator	5
Field Technician	7

Equipment List					
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T P D
(1) Vessels & Marine Support Equipment					
Utility Workboat, Pointer	Bangor	115 HP, 21', 8" Beam, 2' Draft, ME1406V, V124 (PVT207640787)	1	Y	Y N N
Utility Workboat, Pointer	Searsport	175 HP V350	1	Y	Y N N
Jon Boats	Bangor	16 ft (3) 14 ft (1) V390, V372, V379, V391	4	Y	Y N N
(2) Motor Vehicles & Vacuum Equipment					
Stake Body / Utility Truck	Bangor	6 wheel 5253	1	Y	Y N N
Crew Cab Pickup	Bangor	4x4 8921, 8652, 8779	3	Y	Y N N
Dump truck 1 ton	Bangor	4x4 3yrd dump ch5412 5412	1	Y	Y N N
Crew Cab Pickup	Bangor	3/4 Ton 8771, 8644, 8903	3	Y	Y N N
Pressvac, High Power Vacuum Truck	Bangor	260 GPM, 3000 Gal Capacity 4185	1	Y	Y N N
Vacuum Trailer	Bangor	5,000 Gal Capacity 333	1	Y	Y N N
Tractor power unit	Bangor	Tandem 1497	1	Y	Y N N
Tractor power unit	Bangor	Tandem	1	Y	Y N N
Vacuum Truck	Bangor	3,000 Gal Capacity 4109	1	Y	Y N N
(3) Pumps and Pressure Equipment					
Hotsy Pressure Washer	Bangor	3,000 PSI - trailer mounted	1	Y	Y N N
Wilden Diaphragm Pump	Bangor	2" Oil	5	Y	Y N N
Wilden Diaphragm Pump	Bangor	3" Oil	1	Y	Y N N
Air Driven Drum Pump	Bangor	2" Air Driven	2	Y	Y N N
Hotsy Pressure Washer	Bangor	3000 psi	2	Y	Y N N
(4) Oil Spill Containment Booms					
Oil Containment Boom	Bangor	Lengerman 18" (10ft trailer)	1000	Y	Y N Y
Oil Containment Boom	Bangor	14"	500	Y	Y N Y
(5) Environmental Monitoring Equipment					
Drager Pump	Bangor	with Miscellaneous Tubes	1	Y	Y N N
Passport 5 gas meter	Bangor		3	Y	Y N N
(6) Recovery Equipment					
Portable Tanks	Bangor	300 Gallons Stainless Steel	2	Y	Y N N
Portable Tanks	Bangor	275 Gallon Poly tote	2	Y	Y N N
Skid Mount Vacuum Unit	Bangor	1000 gallon CH213	1	Y	Y N N

Equipment List Cont.					
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T P D
(7) Beach or Earth Cleaning and Excavating Equipment					
(8) Generators / Compressors / Light Towers					
Sullair Compressor	Bangor	Diesel 185 cfm	1	Y	Y N N
Generator	Bangor	Honda 2500 watt	1	Y	Y N N
Light Towers	Bangor	Electric 4' high	1	Y	Y N N
(9) Health and Safety Equipment					
Portable Eye Wash Unit	Bangor		1	Y	Y N N
Scott Supplied Air System	Bangor		3	Y	Y N N
Scott Pak	Bangor		2	Y	Y N N
Rogloss & Tripod	Bangor		2	Y	Y N N
Safety Harness	Bangor		12	Y	Y N N
DBI & Tripod	Bangor		2	Y	Y N N
(10) Communications					
Cellular Phones	Bangor		11	Y	Y N N
Marine Base Station	Searsport		1	Y	Y N N
(11) Miscellaneous					
Emergency Response Subcontractors					

Subcontractor Name	Contact:	Services Provided:
Address 1		
Address 2		
Phone #		
Subcontractor Name	Contact:	Services Provided:
Address 1		
Address 2		
Phone #		
Subcontractor Name	Contact:	Services Provided:
Address 1		
Address 2		
Phone #		
Subcontractor Name	Contact:	Services Provided:
Address 1		
Address 2		
Phone #		

BOSTON, MA AREA SERVICE CENTER
609 Pleasant Street
Weymouth, MA 02189

42.19 N 70.93 W

24-Hr. # 781.803.4100
24-Hr. # 800.645.8265
Fax # 781.803.4168

(b) (6)

EPA / Federal ID #: N/A

Personnel Authorized to release equipment / materials / manpower, etc:

(b) (6)

Mark Purcell
 John Barry

40-Hour OSHA Trained Personnel:

Supervisor	10
Foreman	20
Equipment Operator	23
Field Technician	25

Equipment List							
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T	P	D
(1) Vessels & Marine Support Equipment							
Power Workboat, Hanco	Weymouth	24', 150HP, RI 0303 CH, V303	1	Y	Y	N	N
Power Workboat, Carolina Skiff	Weymouth	21', 88HP, MS 2027 B, V158	1	Y	Y	N	N
Power Workboat, Minncraft	Weymouth	16', 25HP, MS 9181 KB, V156	1	Y	Y	N	N
Power Workboat, Sylvan	Weymouth	14', 9.9HP, MS 7121 AA, V208	2	Y	Y	N	N
Power Workboat, Seasquirt	Weymouth	16', 25HP, MS 5383 AC, V161	1	Y	Y	N	N
Workboat, Star Craft	Weymouth	14', No Motor, MS 6455 AP, V155	2	Y	Y	N	N
(2) Motor Vehicles & Vacuum Equipment							
Vacuum Tractor Trailers	Weymouth	4,000/5,000/6,000 gals	8	Y	Y	N	N
High Powered Vacuum Truck/Cusco	Weymouth		6	Y	Y	N	N
Cyclone Vactor/Guzzler	Weymouth		4	Y	Y	N	N
Vactor (Jet Rodder)	Weymouth		2	Y	Y	N	N
Vacuum Trucks S.S.	Weymouth	3,000 & 3,500 gals	5	Y	Y	N	N
Box Truck- Prime Mover	Weymouth	81 International	1	Y	Y	N	N
Straight Box Trucks	Weymouth	Ford	1	Y	Y	N	N
Frac Tanks	Weymouth	22,500 gallons	6	Y	Y	N	N
Rack Truck	Weymouth	5151, 5142, 552	3	Y	Y	N	N
10 Wheel Dump Truck	Weymouth	5252	1	Y	Y	N	N
6 Wheel Dump Truck	Weymouth	5403	1	Y	Y	N	N
Trailer (Lowboy)	Weymouth	50 TON	1	Y	Y	N	N
Crew Cab Pickup	Weymouth	Various Models	27	Y	Y	N	N
Roll-off frames	Weymouth	463, 4131	4	Y	Y	N	N

Equipment List Cont.					
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T P D
(3) Pumps and Pressure Equipment					
Wilden Diaphragm Pump	Weymouth	M-15 3"	3	Y	Y N N
Wilden Diaphragm Pump	Weymouth	M-8 2"	2	Y	Y N N
Wilden Diaphragm Pump	Weymouth	1 1/4 "Poly	1	Y	Y N N
Wilden Diaphragm Pump	Weymouth	1 1/2 " M-4	1	Y	Y N N
Wilden Diaphragm Pump	Weymouth	1 1/4 " M-2	0	Y	Y N N
Wilden Diaphragm Pump	Weymouth	2" Champ Poly (chemical)	2	Y	Y N N
6" Double Stage Hyd Super Pump	Weymouth	6"	1	Y	Y N N
Lutz Electric Barrel Pump	Weymouth	1"	3	Y	Y N N
Drum Vacuums	Weymouth		4	Y	Y N N
Van Hotsy	Weymouth	3000 psi Hot Water	2	Y	Y N N
Hot water Hotsy	Weymouth	3000 psi, trailer mounted	1	Y	Y N N
Hot water Hotsy	Weymouth	3000 psi, portable, skid mount	2	Y	Y N N
Cold Water Pressure Washer	Weymouth	2000 psi, electric, portable	5	Y	Y N N
Warren Rupp	Weymouth	1" SA1A/SB1A	2	Y	Y N N
Teel Pump	Weymouth	5H 2" Trash Pump	3	Y	Y N N
Vactor Hose	Weymouth		1,000'	Y	Y N N
Discharge Hose	Weymouth	6"	150	Y	Y N N
Discharge Hose	Weymouth	4"	500'	Y	Y N N
Teel Pump	Weymouth	3"	3	Y	Y N N
(4) Oil Spill Containment Booms					
Oil Containment Boom	Weymouth	American Marine 18"	2800	Y	Y N Y
Oil Containment Boom	Weymouth	Slickbar 18'	3000	Y	Y N Y
(5) Environmental Monitoring Equipment					
MSA Gas Indicator	Weymouth	Sirius 5 Gas	7	Y	Y N N
MSA Gas Indicator	Weymouth	Passport Quad	3	Y	Y N N
Draeger Pump	Weymouth	Accuru	5	Y	Y N N
MSA PIDs	Weymouth	Passport PIDs	3	Y	Y N N
(6) Recovery Equipment					
Skidmount Vacuum Unit	Weymouth	1000 gal	1	Y	Y N N
Slurp Skimmer, SkimPac	Weymouth	Static, 4200 Model, 2", S229	1	Y	Y N Y
Drum Skimmer, Elastec	Weymouth	Air, TDS118, 3", 35 GPM, S233	1	Y	Y N Y
Recovery Tank	Weymouth	1000 gal	1	Y	Y N N
Nilfisk Mercury Vacuum	Weymouth		2	Y	Y N Y
HEPA Filter Vacuum	Weymouth		3	Y	Y N N
HEPA Filter Vactor	Weymouth		1	Y	Y N N
(7) Beach or Earth Cleaning and Excavating Equipment					
Bobcat	Weymouth	Backhoe/Sweeper /Pavement Breaker	2	Y	Y N N
Backhoe	Weymouth	436 Cat	1	Y	Y N N
Cat Excavator	Weymouth	Cat 315 Track	1	Y	Y N N
Bobcat Mini Excavator	Weymouth	337 Mini	1	Y	Y N N

Equipment List Cont.							
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T	P	D
(8) Generators / Compressors / Light Towers							
Sullair Portable Compressor	Weymouth	185 Diesel	5	Y	Y	N	N
Winco Generator	Weymouth	K4800/A	3	Y	Y	N	N
Coppus Blower	Weymouth	4" Pneumatic	3	Y	Y	N	N
Coppus Blower	Weymouth	8" Pneumatic	1	Y	Y	N	N
Coppus Blower	Weymouth	10" Pneumatic	1	Y	Y	N	N
Coppus Fan	Weymouth	RF-20	2	Y	Y	N	N
(9) Health and Safety Equipment							
MSA S.C.B.A.	Weymouth	1 Hour/4500	10	Y	Y	N	N
Spare Air Cylinders	Weymouth	4500 PSI (1 HR)	8	Y	Y	N	N
MSA SAR	Weymouth	Pressure Demand	4	Y	Y	N	N
MSA Escape Units	Weymouth	5 Minutes	7	Y	Y	N	N
Encapsulating Suits	Weymouth	First Responder	0	Y	Y	N	N
Encapsulating Suits	Weymouth	Butyl	0	Y	Y	N	N
Mustang Suits	Weymouth	Foul Weather PFD	6	Y	Y	N	N
Flame Retardant Suits	Weymouth		0	Y	Y	N	N
Breathing Air Hose	Weymouth		600'	Y	Y	N	N
Hydraulic Hose	Weymouth		650'	Y	Y	N	N
Personal Floatation Devices	Weymouth		40	Y	Y	N	N
PFD Survival Suits	Weymouth		6	Y	Y	N	N
(10) Communications							
Nextel 2-Way Portable Radio/Phones	Weymouth		80	Y	Y	N	N
Nextel Base Station	Weymouth		1	Y	Y	N	N
Marine Radios	Weymouth	Portable	3	Y	Y	N	N
(11) Miscellaneous							
Leroi Jackhammer	Weymouth	30 / 60 / 90 lbs.	3	Y	Y	N	N
Stihl Chain Saw	Weymouth		1	Y	Y	N	N
Amida Light Stand	Weymouth	50600	2	Y	Y	N	N
Amida Towable Light Tower	Weymouth	GS-82	2	Y	Y	N	N
Lincoln Welder	Weymouth		1	Y	Y	N	N
Forklift	Weymouth	5 Ton	2	Y	Y	N	N

Emergency Response Subcontractors

Boston Line & Service Co.
Black Falcon Cruise Terminal
1 Black Falcon Ave.
Boston, MA 02210
(617) 951-9957

Contact:

(b) (6)

Services Provided:
Tug, Boom & Barge services

Boston Towing and Transportation
36 New Street
East Boston, MA 02128
(617) 567-9100
(617) 567-5896 FAX

Contact:

(b) (6)

Services Provided:
Tug Boat Services

City Lights Electrical Co., Inc.
556 East Broadway
South Boston, MA 02127
Tel # (617) 269-5777
Fax # (617) 269-7616

Contact:

(b) (6)

Services Provided:

Tino's Tow Service
61 Copeland Street
Quincy, MA 02169
(617) 472-0655

Contact:

Services Provided:
Transportation

Northeast Diving Services, Inc.
28 West Narragansett Avenue
Newport, RI 02840
(401) 841-0446

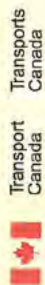
Contact:

Services Provided:
Divers

ÉTATS-UNIS – AUTRES SERVICES D'INTERVENTION LORS DE DÉVERSEMENT DE PÉTROLE

Les entrepreneurs classés « non *OSRO* » sont répertoriés dans la section 2.0. Ceux-ci incluent des entreprises d'élimination et de transport de déchets, des experts de la faune, des exploitants / loueurs de camion vacuum, etc. Les ressources additionnelles sont dans les pages jaunes des annuaires téléphoniques locaux ou sur Internet.

Société d'intervention maritime, Est du Canada Ltée (SIMEC)



This attests that

Ceci atteste que

Eastern Canada Response Corporation Ltd **Société d'intervention maritime, Est du Canada Ltée**

is a Certified Response Organization
 pursuant to section 169.(1) of the
Canada Shipping Act, 2001

est un Organisme d'intervention agréé
 en vertu de la section 169.(1) de la
Loi de 2001 sur la marine marchande du Canada

Maximum capacity of

Capacité maximale de

10,000 Tonnes

Geographical Area of Response

Canadian waters south of 60°N latitude in the provinces of Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Québec, Ontario, Manitoba, Saskatchewan and Alberta, excluding the waters in the primary areas of response associated with the designated ports of Saint John, N.B. and Point Tupper, N.S.

Secteur géographique d'intervention

Les eaux canadiennes au sud du 60° parallèle de latitude nord dans les provinces de Terre-Neuve, de l'Île du Prince Édouard, de la Nouvelle Écosse, du Nouveau Brunswick, du Québec, de l'Ontario, du Manitoba, de la Saskatchewan et de l'Alberta, excluant les eaux du secteur primaire d'intervention pour les ports désignés de St. John, N.B. et Point Tupper, N.S.


 Donald Rousseau

Director General - Marine Safety and Security - Directeur général - Sécurité et sûreté maritimes

Ottawa, Ontario

01-11-2016

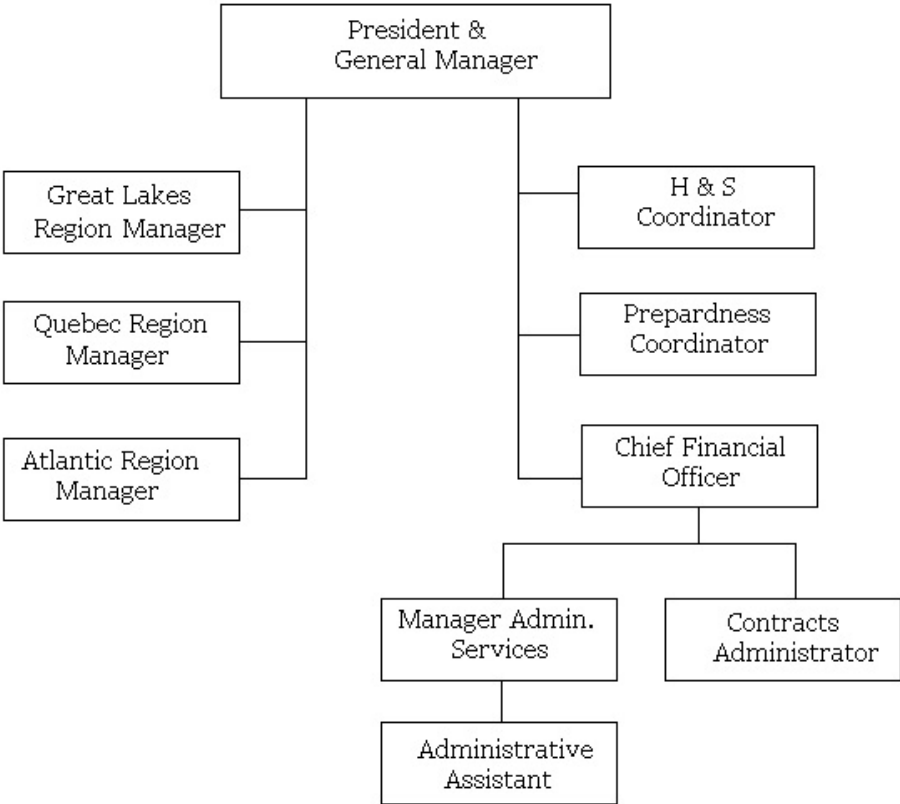
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 Expiry date - Date d'expiration
 (dd-mm-yyyy/jj-mm-aaaa)

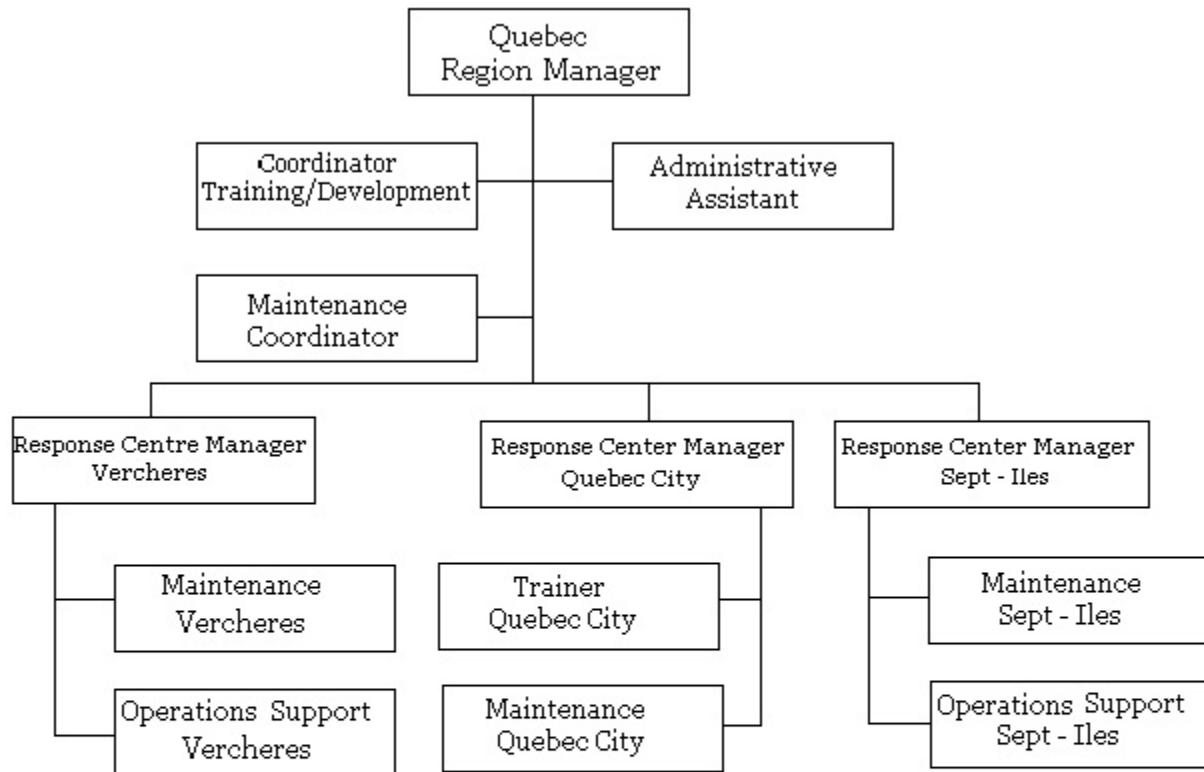
81-0024 (1309-04)

Canada

Société d'intervention maritime, Est du Canada
Organigramme



Société d'intervention maritime, Est du Canada Région du Québec



BARGE BASQUES



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	-	1	-	1

Application

Used as a primary and/or secondary storage unit during oil water recovery operation. It can also be used as a working platform for recovery operations using a NOFI Vee Sweep system in conjunction with a GT-185 skimmer. It can also serve as a simple deck working platform to carry material and equipment, supporting shoreline cleanup operations.

Description

The Basques is a single-hull steel barge. It has ten storage compartments for the oily water, allowing for natural decanting of water, with a total storage capacity of 2,600. It is a dedicated response vessel fitted with two diesel generators, one crane and a deck winch (for NOFI 600 cross-bridle). The barge is configured for sweep and recovery operation using a NOFI Vee Sweep and GT-185 skimmer.

Operating data

Storage Capacity: 2,600 m³ (16,300 bbls)
Towing speed: up to 12 knots

Ancillaries

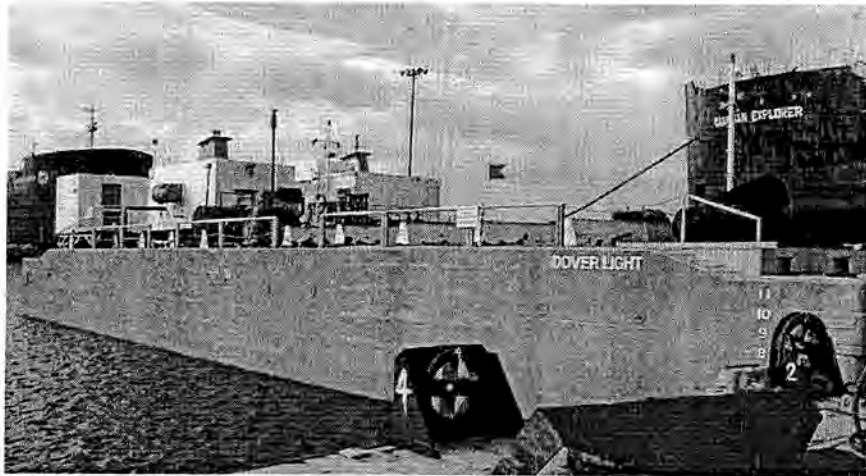
NOFI 600 Vee Sweep system
GT-185 skimmer

Technical data

Length: 66.5 m (218 ft)
Breadth: 13.0 m (43 ft)
Depth: 4.3 m (14 ft)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

BARGE DOVER LIGHT



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	-	1	-	1

Application

Used as a primary and/or secondary storage unit during oil recovery operation. It can also be used as a working platform for recovery operations using NOFI Vee Sweep boom in conjunction with a GT-185 skimmer. It can also serve as a simple deck working platform to carry material and equipment, supporting shoreline cleanup operations.

Description

The Dover Light is a single-hull steel barge. It has four storage compartments for the oily water, allowing for natural decanting of water, with a total storage capacity of 1,600m³. Two compartments are equipped with heating coils. It is a dedicated response vessel fitted with one diesel generator, one crane, one winch, one anchoring system, two cargo pumps and one cargo heating system.

Operating data

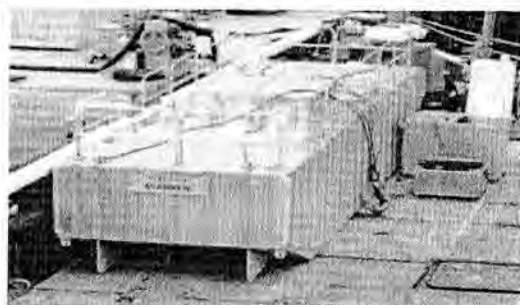
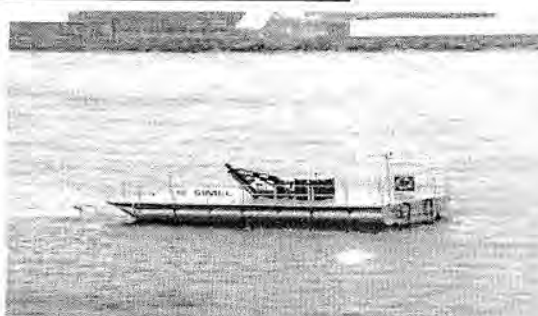
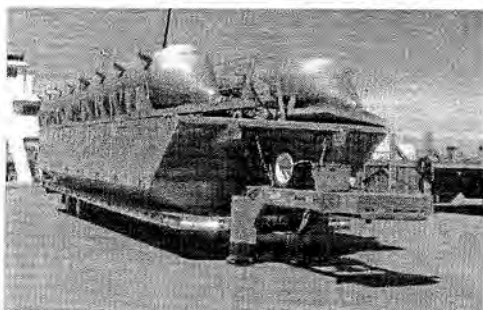
Storage capacity: 1,600 m³ (10,000 bbls)
Towing speed: up to 12 knots

Technical data

Length: 38.8 m (128 ft)
Beam: 15.1 m (50 ft)
Draught: 3.6 m (12 ft)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

50 TON STORAGE BARGE



Inventory

	Great Lakes	Quebec	Atlantic	Total
50 tons (pontoons)	-	12	-	12
50 tons	-	-	9	9
Total		12	9	21

Application

Used to store recovered liquid and solid materials during on water recovery or shoreline cleanup operations. They can be used as platform to support shoreline clean up operations. Some units, mounted with a power pack and hiab crane, are equipped with a skimmer unit (LORI or Libra). All units are road transportable.

Description

Built in aluminium, the barges have eight compartments, for a total storage capacity of 50 m³. Units in Quebec region are equipped with pontoons, giving a working area of 6 m x 12 m (20 ft x 40 ft).

Operating data

Towing speed: up to 8 knots
 Liquid storage capacity: 50 m³ (310 bbls)
 Road transportable

Ancillaries

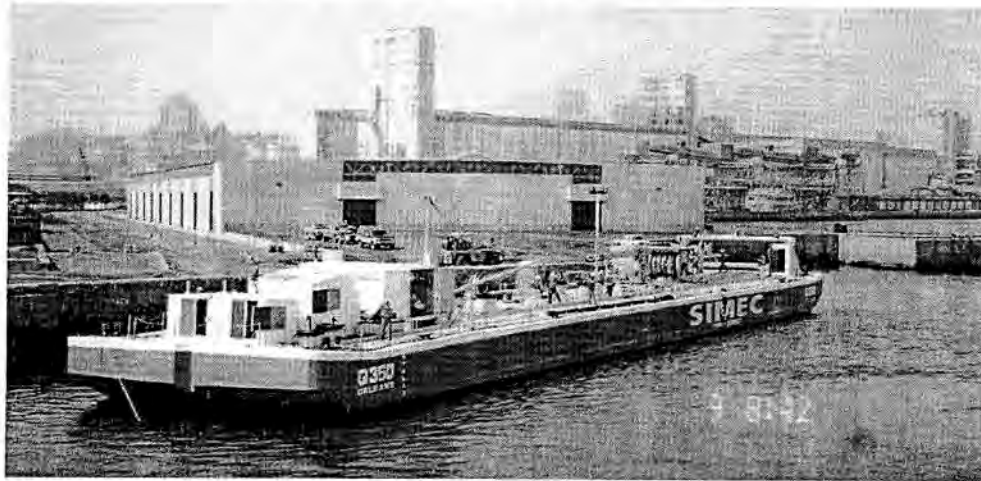
For some units:
 Power pack
 Skimmer

Technical data

	<u>With pontoons</u>	<u>No pontoons</u>
Length:	12.2 m (40 ft)	10.9 m (35 ft 9 in)
Width:	6.1 m (20 ft)	3.5 m (11 ft 6 in)
Draught:	0.9 m (3 ft 10 in)	2 m (6 ft 7 in)

Eastern Canada Response Corporation Ltd.
 Suite 1201, 275 Slater Street, Ottawa K1P 5H9
 Phone (613)-230-7369 Fax (613)-230-7344

BARGE ORLEANS



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	-	1	-	1

Application

Used as a primary and/or secondary storage unit during oil recovery operation. It can also be used as a working platform for recovery operations using a NOFI Vee Sweep system, in conjunction with a GT-185 skimmer. It can also serve as a simple deck working platform to carry material and equipment, supporting shoreline cleanup operations.

Description

The Orleans is a single-hull steel barge. It has eight storage compartments for the oily water, allowing for natural decanting of water, with a total storage capacity of 2,100m³. It also has fore and after ward trim compartments. It is a dedicated response vessel fitted with two diesel generators, one crane and a deck winch (for NOFI 600 cross-bridle). The barge is configured for sweep and recovery operation using a NOFI Vee Sweep and GT-185 skimmer.

Operating data

Storage Capacity: 2,100 m³ (13,200 bbls)
Towing speed: up to 12 knots

Ancillaries

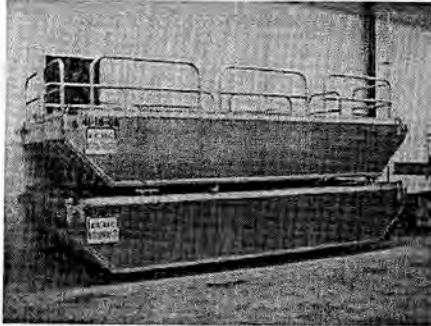
NOFI 600 Vee Sweep system
GT-185 skimmer

Technical data

Length: 65.5 m (215 ft)
Breadth: 12.8 m (42 ft)
Depth: 3.1 m (10 ft)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

SHORELINE DECK BARGE



Inventory

	Greats Lakes	Quebec	Atlantic	Total
20 x 60	-	1	-	1
10 x 25	-	2	-	2
10 x 20	-	-	4	4
Total	-	3	4	7

Application

Used as a working platform during shoreline and dock face clean-up operation. Can be used to store equipment and material on deck.

Description

Built in steel or heavy grade aluminium to allow usage at close proximity of shoreline and in tidal zone areas.

Operating data

Towing speed: up to 8 knots

Technical data

	<u>10 x 20</u>	<u>10 x 25</u>	<u>20 x 60</u>
Length:	6.1 m (20 ft)	7.6 m (25 ft)	18.2 m (60 ft)
Width:	3.1 m (10 ft)	3.1 m (10 ft)	3.1 m (10 ft)
Draught:	1m (3 ft)	1m (3 ft)	1m (3 ft)

Société d'Intervention Maritime, Est du Canada Ltée
Bureau 1201, 275 rue Slater, Ottawa K1P 5H9
Tél.:(613)-230-7369 Fax :(613)-230-7344

PATROL BOAT 49FT



Inventory

	Great Lakes	Quebec	Atlantic	Total
49 ft patrol	-	2	-	2

Application

Used to assist in boom deployment and towing operations, for the transportation of equipment and responders and as a support vessel for surveillance and safety activities. Can be used in unsheltered water.

Description

This vessel is built of aluminium and is equipped with two 350 HP diesel engines. It can carry a crew of six. An open flat deck provides a working area of 28 sq metres (300 sq ft) at the rear of the vessel.

Operating data

Speed: up to 17.5 knots
Run Time: 12 hrs at 2,800 rpm

Technical data

Class: Home-Trade voyage, class III
Length: 15 m (49 ft)
Draft: 0.9 m (3 ft)
Beam: 5.5 m (17 ft)
Gross tonnage: 17 tons
Engines: 2 x 350 HP at 2800 rpm

Ancillaries

Radar
Electronic charts
GPS
Depth sounder
Radios

Safety equipment
Survival suits
Life rafts
Misc. Equipment

Fresh water tank
Grey water tank
Ballast tank

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

PATROL BOATS 21 – 24FT



Inventory

	Great Lakes	Quebec	Atlantic	Total
24 ft cabin	-	2	-	2
24 ft open	-	2	-	2
21 ft open	-	2	-	2
Total	-	6	-	6

Application

Used to assist in boom deployment and towing operations, for the transportation of equipment and responders and as a support vessel for surveillance and safety activities.

Description

All vessels are built of aluminium and equipped with outboard gasoline motors, 115 HP or 135 HP.

Operating data

Speed: up to 30 knots
Run Time: 6 hrs

Ancillaries

GPS
Depth sounder
Radios

Technical data

	<u>21 ft open</u>	<u>24 ft open</u>	<u>24 ft cabin</u>
Length:	6.4 m (21 ft)	7 m (24 ft)	7 m (24 ft)
Beam:	2.5 m (8 ft)	2.5 m (8 ft)	2.5 m (8 ft)
Draft:	0.2 m (8 in)	0.3 m (1 ft)	0.3 m (1 ft)
Engine:	1 x 135 HP	2 x 115 HP	2 x 135 HP

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

RIGID HULL INFLATABLES



Inventory

	Great Lakes	Quebec	Atlantic	Total
Hurricane 590	-	-	2	2
Zodiac Mark IV	-	-	2	2
Sillinger 425UM	-	6	-	6
Sillinger 525UM	-	4	2	6
Sillinger 570UM	3	1	-	4
Total	3	11	6	20

Application

Inflatable boats provide versatility in response operations for both transportation and active duty in sheltered water operations.

Description

Rigid hull inflatable boats equipped with outboard motor (15 to 70 HP); molded fibreglass, plastic or metal hulls (including floor) with a fabric air filled flotation collar that makes up the bow and sides of the boat. The rigid hull provides stability for operation of the boat in most sea conditions. The flotation collar supplies buoyancy (with reserve), stability and absorbs wave energy to soften the ride in rough conditions.

Operating data

Speed: up to 30 knots

Ancillaries

VHF radio
Some equipped with radar

Technical data

	<u>Hurricane</u>	<u>Zodiac Mark IV</u>	<u>Sillinger 425UM</u>	<u>Sillinger 525UM</u>	<u>Sillinger 570UM</u>
Length:	5.9 m (21 ft)	5.3 m (17ft 5 in)	4.3 m (14 ft)	5.3 m (18 ft)	5.7 m (19 ft)
Width:	1.7 m (8 ft)	2.1 m (7 ft)	1.8 m (6 ft)	2.2 m (7 ft)	2.4 m (7ft 10 in)
Draft:	40 cm (16 in)	40 cm (16 in)	30 cm (12 in)	35 cm (14 in)	40 cm (16 in)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

SEATRUCKS 30 – 36FT



Inventory

	Great Lakes	Quebec	Atlantic	Total
36 feet	-	-	11	11
34 feet	2	11	-	13
32 feet	-	1	-	1
30 feet	6	6	-	12
Total	8	18	11	37

Application

Used mainly for deployment of boom in sheltered water or close to shoreline and for skimming operation. Also used for the transportation of personnel and equipment during shoreline clean-up operations. Having a shallow draft, they permit access to almost any shoreline. Units are road transportable, each unit having a dedicated trailer.

Description

Built of aluminium, the vessels vary in size from 30' x 10' to 36' x 12'. They are equipped with two outboard motors (135 to 200HP)

Operating data

Speed: up to 30 knots
Run Time: 6 hrs
Road transportable

Ancillaries

Radar
GPS
Depth sounder
Some units carry booms or skimmer

Technical data

	30 feet	32 feet	34 feet	36 feet
Length:	9.1 m (30 ft)	9.8 m (32 ft)	9.1 m (30 ft)	9.1 m (30 ft)
Beam:	3.1 m (10 ft)	3.7 m (12 ft)	3.7 m (12 ft)	3.7 m (12 ft)
Draught:	30 cm (12 in)	30 cm (12 in)	30 cm (12 in)	40 cm (16 in)

SEATRUCKS 30 – 36FT

SMALL BOATS 12 –18FT



Inventory

	Great Lakes	Quebec	Atlantic	Total
Small boat 12' alum	-	9	-	9
Small boat 14' alum	-	4	4	8
Small boat 16' punt	1	-	-	1
Small boat 16' alum	1	-	2	3
Small boat 18' alum	1	-	-	1
TOTAL	3	13	6	22

Application

These boats are primarily used for spill observation, transporting equipment, small material and personnel, for tending shoreline skinning and for shoreline treatment operations.

Description

For stability purposes these boats are typically flat bottom with slanted square bow, unsinkable filled with polyfoam at bow and under the seat.

Operating data

Speed: up to 10 knots
Outboard motor: 9.9 to 40 HP

Ancillaries

Rope, and anchor
Paddle

Technical data

Length: From 3.6 m to 5.5 m (12 to 18 ft)
Beam: From 1.5 m to 2.2 m (5 to 7 ft)
Draught: From 0.2 to 0.5 m (8 to 20 in)

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LIBRA BELT SKIMMER



Inventory

	Great Lakes	Quebec	Atlantic	Total
LIBRA	-	5	1	6

Application

Suitable for the recovery of medium to heavy oils from shoreline and in sheltered marine environments. Can be deployed from shoreline, dock, seatruck or recovery barge.

Description

An oleophilic skimmer, using a porous belt allowing water decanting. Three different types of belt can be used depending of the viscosity of the product to be recovered. Two small propellers, located underneath the front of the belt, pull oil toward the belt when the unit is not advancing on the water.

Operating data

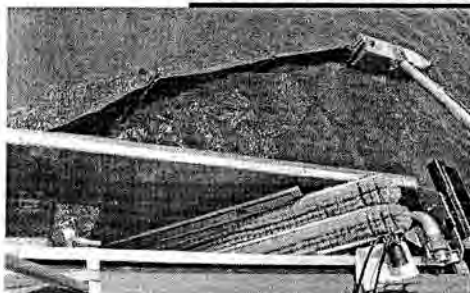
Nominal recovery rate:	28 tons/hr
De-rated recovery rate:	6 tons/hr

Technical data

Length:	4.6 m (15 ft)
Width:	1.3 m (4 ft)
Height:	1.8 m (6 ft)
Weight:	1,600 kg (3,500 lbs)

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LORI BRUSH SKIMMERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
LFS (6 brush)	-	1	-	1
LBC (3 brush)	-	2	-	2
LSC (4 brush)	-	-	1	1
LSC (2 brush)	2	-	1	3
Total	2	3	2	7

Application

Suitable for the recovery of medium to high viscosity oil.
 Suitable for shoreline, sheltered and open water usage.
 Depending of model can be deployed from shoreline, dock, vessel and recovery barge.
 Suitable to be used in cold water.

Description

An oleophilic skimmer, equipped with brushes mounted on a rotating chain. Oil is scrapped off as the bristles pass through a comb-type cleaner located at the top.
 Units have two to six brushes.

Operating data

Nominal recovery rate: from 75 to 200 tons/hr
 De-rated recovery rate: from 15 to 40 tons/hr

Ancillaries

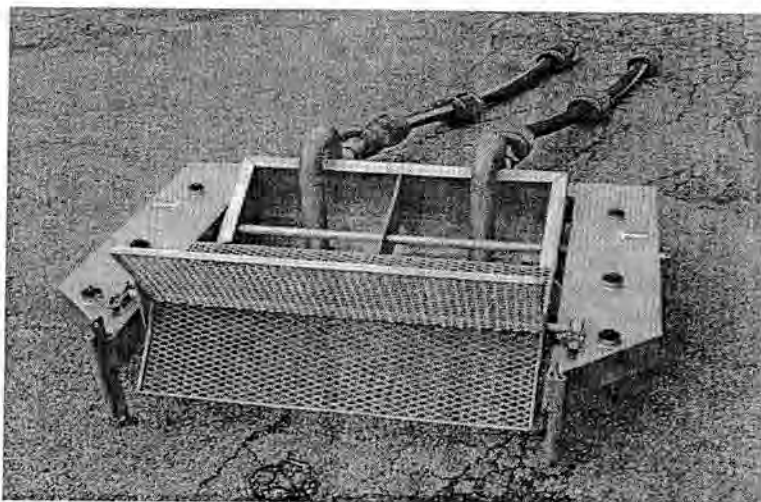
Power pack
 Pump
 Hoses

Technical data

	<u>LFS</u>	<u>LBC</u>	<u>LSC - 4</u>	<u>LSC - 2</u>
Length:	5.2 m (17 ft 1 in)	4.9 m (16 ft 1 in)	3.1 m (10 ft 2 in)	3.1m (10 ft 2 in)
Width:	3.6 m (11 ft 10 in)	2.6 m (8 ft 6 in)	1.3 m (4 ft 3 in)	0.75m (2 ft 4 in)
Height:	1.3 m (4 ft 3 in)	2.8 m (9 ft 2 in)	2.2 m (7 ft 3 in)	3.5m (11 ft 6 in)

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 Phone (613)-230-7369 Fax (613)-230-7344

PEDCO SKIMMER



Inventory

PEDCO	Great Lakes	Quebec	Atlantic	Total
	1	8	5	14

Application

Suitable for the recovery of light to heavy oil.
Suitable for shoreline and shallow water.

Description

The PEDCO is a weir skimmer. The depth of the weir is adjusted by controlling the pumping rate of the pump. The recovery rate is dependant of the pumping capacity of the pump connected to it.

Operating data

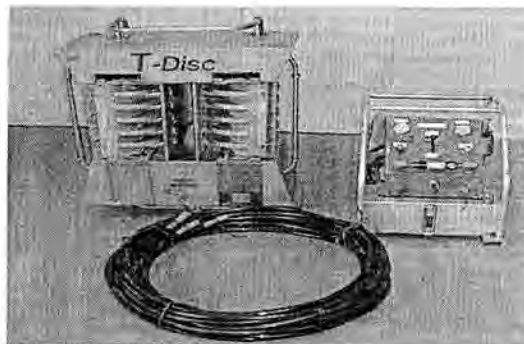
Nominal recovery rate: 75 tons/hr
De-rated recovery rate: 15 tons/hr

Technical data

Length:	1.7 m (5 ft 6 in)
Width:	2.0 m (6 ft 5 in)
Height:	0.8 m (2 ft 7 in)
Weight:	55 kg (122 lbs)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

DISC SKIMMERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
MI – 30	-	2	5	7
T – 12	2	5	-	7
T – 18	1	3	3	7
Total	3	10	8	21

Application

Suitable for the recovery of light to medium viscosity oil.
 Suitable for shoreline and sheltered use.
 Can be deployed from shoreline, dock or small boat.

Description

An oleophilic disk skimmer, either equipped with a diaphragm pump, installed in the middle section (MI-30, T-18) or using an external pumping mechanism (T-12). Hydraulically driven by an external power pack. The RPM of the disk is adjusted, according to the viscosity of oil, in order to minimise water pick up.

Operating data

	T-12	T-18	MI-30
Nominal recovery rate: (tons/hr)	12	18	23
De-rated recovery rate: (tons/hr)	2	4	5

Ancillaries

Hydraulic power pack – diesel
 Hydraulic hoses
 Discharge hoses

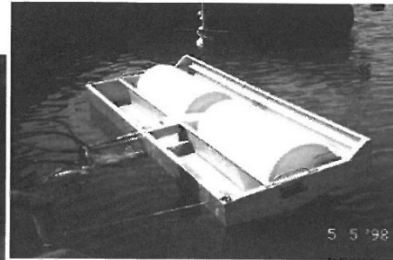
Technical data

	<u>T-12</u>	<u>T-18</u>	<u>MI-30</u>
Length:	1.2 m (3 ft 11 in)	1.3 m (4 ft x 3 in)	1.2 m (3 ft x 11)
Width:	1.0 m (3 ft x 4 in)	1.2 m (3 ft x 11 in)	1.2 m (3 ft x 11)
Height:	0.5 m (1 ft x 7 in)	0.6 m (1 ft x 11 in)	0.6 m (1 ft x 11)
Weight:	68 kg (150 lbs)	150 kg (330 lbs)	71 kg (155 lbs)

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 Phone (613)-230-7369 Fax (613)-230-7344



ELASTEC SKIMMER



Inventory	Great Lakes	Quebec	Atlantic	Total
Elastec TDS-136	-	3	3	6
Elastec TDS-118G	1	2	-	3

Application

Suitable for the recovery of light to high viscosity oil, but most useful in heavy oil recovery.
 Suitable for shoreline and sheltered water usage.
 Can be deployed from shoreline, vessel or recovery barge.

Description

An oleophilic drum skimmer, built of aluminium frame and moulded polyethylene drums. The oil is picked off the water by the rotating drum and scraped off into a sump. The 188G features a grooved drum providing improved recovery rate. An integrated or external pump moves the recovered oil to an external storage unit.

Operating Data

	118	136
Nominal recovery rate:	8tons/hr	15 tons/hr
De-rated recovery rate:	38tons/day	72tons/day

Ancillaries

Power pack
118- External pump
136 – Onboard submersible pump (2 in)

Technical Data

	118	136
Length:	0.9 m	0.9 m (3 ft 0 in)
Width:	1.2 m	2.3 m (7 ft 8 in)
Height:	0.4 m	0.4 m (1 ft 3 in)
Weight:	27 kg	68 kg (150 lbs)

ECRC~SIMEC
 Suite 1201, 275 Slater Street, Ottawa K1P 5H9
 Phone (613)-230-7369 Fax (613)-230-7344
 Website: www.ecrc.ca

GT-260 / GT-185 SKIMMERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
GT-185	2	4	6	12
GT-260	-	-	2	2
Total	2	4	8	14

Application

Suitable for the recovery of light to high viscosity oil.

Suitable for shoreline, sheltered and open water usage.

Can be deployed from shoreline, dock, and vessel of opportunity or recovery barge. Used in conjunction with the NOFI Sweep system from a large recovery barge.

Description

A weir skimmer, equipped with an Archimedean screw pump, installed in the middle section. Hydraulically driven by an external power pack. The height of the weir is adjustable as well the pumping rate. This maximises the recovery of product with a minimum quantity of water.

Operating data

	<u>GT-185</u>	<u>GT-260</u>
Nominal recovery rate (tons/hre):	45	90
De-rated recovery rate (tons/hre):	9	18

Ancillaries

Hydraulic power pack – diesel
Remote control
Hydraulic hoses
Discharge hoses, with floaters

Technical data

	<u>Skimmer head</u>		<u>Power pack</u>	
	<u>GT-185</u>	<u>GT-260</u>	<u>GT-185</u>	<u>GT-260</u>
Length:	2.3 m (7 ft 7 in)	3.5 m (11 ft 6 in)	1.3 m (4 ft 3 in)	2.0 m (6 ft 7 in)
Width:	1.9 m (6 ft 3 in)	1.9 m (6 ft 3 in)	1.0 m (3 ft 3 in)	1.3 m (4 ft 3 in)
Height:	1.0 m (3 ft 3 in)	2.2 m (7 ft 3 in)	1.1 m (3 ft 7 in)	2.0 m (6 ft 7 in)
Weight:	182 kg (400 lbs)	220 kg (485 lbs)	640 kg (1,410 lbs)	865 kg (1,910 lbs)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

OIL MOP SKIMMERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
Small Rope Mop	4	11	8	23

Application

Suitable for the recovery of medium viscosity oils. Can also be used with light and heavy oils with acceptable results, depending of conditions.

Suitable for shoreline and shallow water.

Can also be used in the presence of ice and debris.

Description

This oleophilic skimmer is composed of an endless rope mop, a pulley and an electric roller wringer. The rope mop is pulled through the oil slick and returned through the roller where the oil is extracted and collected in a 45gal drum.

Operating data

Nominal recovery rate: 46 tons/hr

De-rated recovery rate: 1 ton/hr

Technical data

Skimmer:

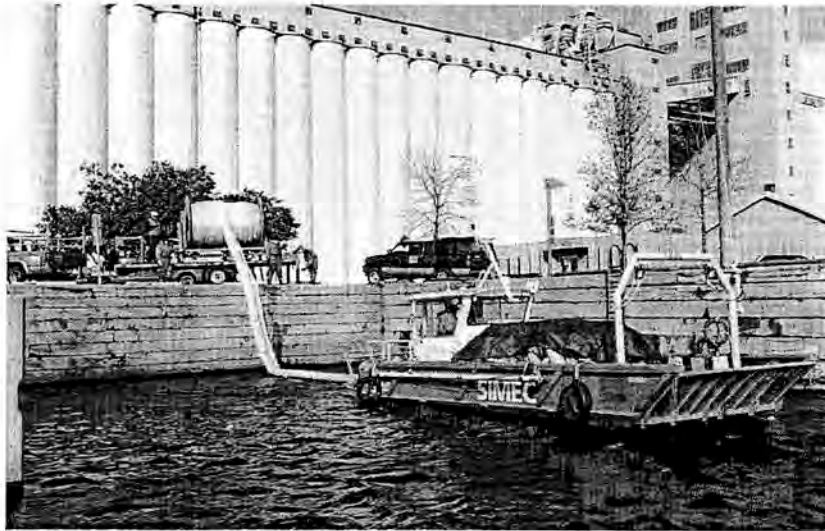
Length:	0.6 m (1 ft 10 in)
Width:	0.4 m (1 ft 3 in)
Height:	0.6 m (1 ft 11 in)
Weight:	68 kg (150 lbs)

Rope mop:

Diameter:	10 cm (4 in)
Length:	15 m (50 ft) per section

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KEPNER BOOM



Inventory

	Great Lakes	Quebec	Atlantic	Total
Open Harbour	1 (450 m)	2 (900 m)	1 (450 m)	4 (1,800 m)

Application

Oil containment boom suitable for shoreline, sheltered and open water usage.

Can be deployed from a dock, from shore or from a vessel.

Mounted on a deployment reel, the boom self-inflates as it comes off the reel, allowing quick deployment.

Description

The Kepner boom is a self-inflating, self-compacting reel able boom constructed of heavy-duty polyurethane-coated polyester fabric. Each reel contains three sections of 150 meters each (500 ft), for a total of 450 meters (1 500 ft) per reel.

Operating data

Maximum current: 1.5 knots

Technical data

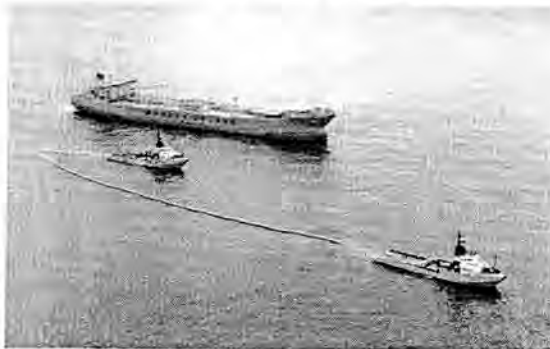
Boom Section: 150 m (500 ft)
Boom overall height: 0.66 m (26 in)
Boom freeboard: 0.25 m (10 in)
Boom draught: 0.41 m (16 in)
Total weight: 4,000 kg (8,800 lbs)

Ancillaries

Boom reel
Power pack (diesel)
Trailer

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

NOFI SWEEP SYSTEMS



Inventory

	Great Lakes	Quebec	Atlantic	Total
NOFI-1000	-	-	1	1
NOFI-600	-	2	2	4
Total	-	2	3	5

Application

The NOFI Sweep System is a wide-swath oil containment system suitable for use in unsheltered waters. The sweep system is deployed from a vessel or large recovery barge, used as the platform for the operation of the skimmer and for storage of recovered liquid. A second vessel is required to pull the lead arm of the sweep.

Description

The system is comprised of two boom sections: 1) the v-shaped boom section that provides an oil collection point; and, 2) the guide boom section that deflects oil into the v-section. The NOFI system utilizes a cross bridle line and a trawl net in the v-section to control the shape of the sweep. The small area created by the v-section, results in a thicker layer of oil accumulating at the apex. The NOFI 600 is single container system that can be deployed from offshore support vessels, barges or tugs. The NOFI 1000 is designed as a two-container system that must be deployed from offshore support vessels that are large enough to accommodate 20' ISO containers.

Operating data

	<u>NOFI-600</u>	<u>NOFI-1000</u>
Advancing rate:	1.5 knots max.	1.5 knots max.
Swath width	100 m	200 m

Ancillaries

Diesel hydraulic power unit for NOFI-600
Gas powered boom inflators

Technical data

	<u>NOFI-600</u>	<u>NOFI-1000</u>
Boom overall height:	1.2 m (4 ft 0 in)	2.4 m (7 ft 9 in)
Boom draught:	0.6 m (2 ft 0 in)	1.0 m (3 ft 3 in)
Boom freeboard:	0.6 m (2 ft 0 in)	1.4 m (4 ft 6 in)
Length of guide boom:	100 m (330 ft)	270 m (900 ft)

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Phone (613)-230-7369 Fax (613)-230-7344

SOLID FLOTATION BOOM



Inventory (meters)

	Great Lakes	Quebec	Atlantic	Total
GP 20 in.	8,670	730	5,190	14,590
GP 24 in.	-	20,750	7,300	28,050
GP 36 in.	-	1,960	3,750	5,710
Total	8,670	23,440	16,240	48,350

Application

Oil containment boom suitable for shoreline and sheltered water. It is stored in trailers, containers and on deck of seatrucks and pontoons.

Description

It is a general purpose boom with a solid flotation core and made of polyurethane-coated polyester fabric.

Operating data

Maximum current: 1.5 knots

Ancillaries

Ropes
Anchors
Buoys

Technical data

	<u>20 in</u>	<u>24 in</u>	<u>36 in</u>
Boom section:	15 m (50 ft)	15 m (50 ft)	15 m (50 ft)
Boom overall height:	51 cm (20 in)	61 cm (24 in)	91 cm (36 in)
Boom freeboard:	15 cm (6 in)	20 cm (8 in)	30 cm (12 in)
Boom draught:	36 cm (14 in)	41 cm (16 in)	61 cm (24 in)

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Phone (613)-230-7369 Fax (613)-230-7344

SHORE SEAL BOOM



Inventory (meters)

	Great Lakes	Quebec	Atlantic	Total
Shore Seal	180	1,270	180	1,630

Application

Mainly used in area where there is tidal effect, it provides seal to the bottom when the tides goes out. It joins to conventional booms in deeper water. Useful when doing shoreline cleaning, using water flooding method.

Description

The boom uses two water-filled lower chambers for ballast and stability. The top chamber is air inflated for buoyancy. It is made of a rugged urethane coated fabric for maximum abrasion and puncture resistance.

Technical data

Boom section:	15 m (50 ft)
Air chamber:	35 cm (14 in)
Water chambers:	25 cm (9 in)

Ancillaries

Ropes
Anchors
Buoys

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Phone (613)-230-7369 Fax (613)-230-7344

FIELD OPERATIONS CENTRE



Inventory

	Great Lakes	Quebec	Atlantic	Total
Trailer	1	2	2	5
Motorised unit	-	1	-	1
Total	1	3	2	6

Application

Used as a temporary Field Operations Centre/Communications Centre, equipped with communication equipment, including an 800 MHz repeater and mast antenna. Also utilised as a field division office deployed at/near the spill site.

Description

Fifth wheel trailer or motor home modified to support Spill Management Team. Units are equipped with heating / air conditioning units.

Operating data

Fifth wheel or motorised
Can be used in cold or warm climate

Technical data

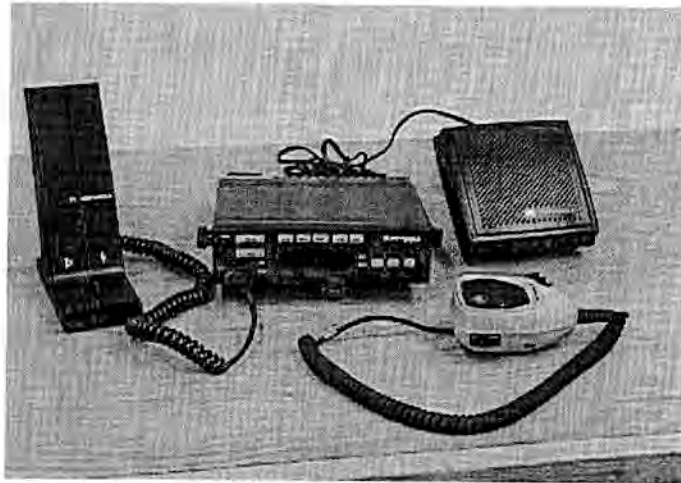
Length: varying from 9 m to 12 m (30 to 40 ft)
Width: 2.4 m (8 ft)

Ancillaries

800 MHz radio system (dedicated frequencies)
VHF / UHF
Phone (Land, cell, satellite)
FAX, Photocopier

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Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

MOBILE UNIT / BASE STATION



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	2	5	4	11

Application

This type of unit is used to enhance the coverage area given its transmitting power is stronger than a typical handheld unit. It is utilised as a mobile unit (in truck, boats or field operation centre) or as a base station in the management centre.

Description

The Spectra mobile unit is a programmable radio operating in the UHF 800 MHz frequency range providing access to 48 pre-programmed channels, providing maximum flexibility for spill response communications requirements. This unit has a stronger output than handheld radios that increase the coverage area enhancing communications capability. Dedicated transportation cases, meeting air transportation specifications, are available for the transportation of the base stations.

Operating data

Range: +/- 20km radius in conventional mode
Output: 25 watts
Can operate in simplex, duplex (conventional) and trunking.

Ancillaries

Remote speaker
Microphone
Antenna (3dB or 9 dB gain)

Technical data

Frequency Range: 806-825 MHz
851-870 MHz
Four sets of frequency dedicated to ECRC for spill response operation

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Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

PORTABLE RADIO



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	21	72	50	143

Application

The portable radio is the main communication tool for ECRC both in the field and within operational management. The radio is intrinsically safe and can be used in all environments. Response Centres maintain an inventory of radios that could be cascaded to any region and operated without having to be reprogrammed.

Description

The Motorola MTS 2000 portable radio operates in the UHF-800MHz frequency ranges, providing access to 48 pre-programmed channels, which allows greater flexibility for establishing a communication network when there is a lot of teams working in the field. It can be used in a simplex mode (radio to radio), through ECRC repeaters or through public carrier trunking systems. Dedicated transportation cases, meeting air transportation specifications, are available for the transportation of radios.

Operating data

Range: +/- 10 km radius in conventional mode
Output: 2 (intrinsic limit) watts
Can operate in simplex, duplex (conventional) and trunking

Ancillaries

Microphone
Optional headphone
Carrying case
Battery / Spare battery
Belt / Belt clip

Technical data

Frequency Range: 806-825 MHz
851-870 MHz
Frequency dedicated to ECRC for spill response operation
Intrinsically safe

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344



DESMI DOP - 160



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	2	3	2	7

Application

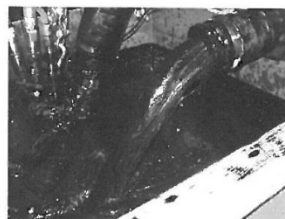
A submersible cargo offloading pump system, designed to pump high viscosity products (0 to > 1,000,000 cSt). The system is used for transferring product from temporary storage devices or can be deployed directly into areas where large volumes of oil may be collected for recovery.

Description

The Desmi DOP-160 system is a modified design of the traditional archimedes screw pump. Unlike traditional archimedes screw pumps, the DOP-160 is self-feeding. Fluid is forced into the pump housing by the rotation of the screw. This self-feeding feature combined with the benefits of screw pump design enables the DOP-160 to operate as an effective offloading and transfer pump for products with higher viscosity ratings. The unit can be run with hot water injection on the inlet and/or outlet side of the pump. This lubricates the pump and/or product hose in order to handle the most viscous products.

Operating Data

Max. Pressure: 10 bar / 150 PSI
Max. Capacity: 30 m /hr (132 gpm)



Ancillaries

Hydraulic power unit, powered by a 35 kW diesel motor.
Hose reel is complete with hoses for hydraulic fluid and water injection.

Technical Data

	Power pack	Reel	Pump
Length:	1.3 m (4' 6")	1.4 m (4' 6")	.39 m (15")
Width:	1 m (3' 4")	1.4 m (4' 6")	.24 m (9")
Height:	1.1 m (3' 8")	1.5 m (5')	.52 m (20")
Weight:	Full 830 Kg (1826 lbs)		31 Kg (68lbs)

DECONTAMINATION UNIT



Inventory

	Great Lakes	Quebec	Atlantic	Total
45 ft trailer	-	-	1	1
Tents and mat'l	1	3	1	5

Application

The decontamination unit is utilized for the cleaning of personnel and equipment during spill responses. It provides for the removal, storage and potential cleaning/reuse of personal protective equipment and tools. It is the point of entry/departure to and from the spill site by shoreline workers.

Description

The decontamination unit consists of one 45 ft. van trailer, four tents (see Information Sheet Tent-Shelter), wash trays, sorbents, deck matting, storage drums and portatanks. It is set up near or adjacent to the spill site as a component of the field camp. Trailer is to be moved to other region, when needed

Technical data

45 ft van trailer (fifth wheel), equipped with a propane fired water heater
Tents of 27 m² (300 ft²)

Ancillaries

Cleaning agents
Personal protective equipment
Water tanks
Washroom
Toilet facilities
Water heater
Waste stream separation system
(piping and tanks)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

HIGH PRESSURE WASHING UNIT



Inventory

	Great Lakes	Quebec	Atlantic	Total
Landa	-	3	2	5

Application

Portable high pressure washing unit, providing cold or warm water or steam. Can be used during shoreline cleanup operations to clean manmade structures.

Can be transported by road or on a seatruck to access remote shoreline areas

Description

Mounted on a trailer, the unit is equipped with a diesel heater, a diesel pump, a 500 gal reservoir for the water and two high-pressure pistols.

Operating data

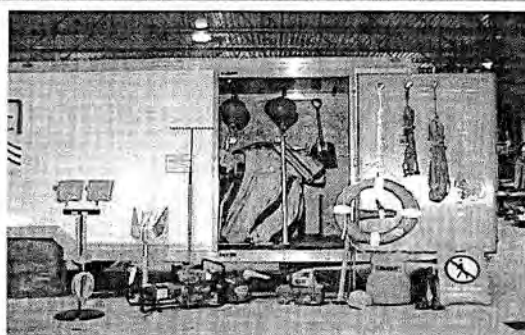
Maximum pressure: 165 bar (2,300 psi)

Technical data

Length: 5 m (16 ft 8 in)
Width: 2.4 m (7 ft 9 in)
Height: 1.7 m (5 ft 7 in)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

RESPONSE TRAILERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
48 ft trailer	-	7	3	10
45 ft trailer	-	-	7	7
35 ft trailer	1	1	-	2
24 ft trailer	1	6	-	7
10 ft trailer	5	1	2	8
Total	7	15	12	34

Application

Quick deployment trailer, containing response equipment to start shoreline cleanup operations or to bring different response equipment on site. Can be used as a field store when on site.

Description

The box trailers vary in size from 10 ft to 48 ft. One unit per response centre is configured as a shoreline cleanup unit, containing booms, skimmer, pumps, hoses, portable storage, sorbents, generators, lights, etc. Other units carry boom, sorbents or configured as a field store.

Technical data

Varying in length from 10 ft (3m) to 48 ft (14.6m)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344



BIRD HAZING DEVICES



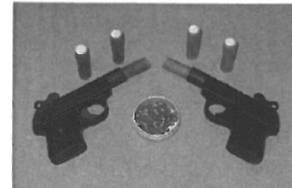
Breco Buoy



Propane Cannon



Phoenix Wailer



Starter Pistols

Inventory

	Great Lakes	Quebec	Atlantic	Total
Breco Buoy	1	5	2	8
Propane Cannons	-	-	5	5
Phoenix Wailer	-	-	1	1
Starter Pistol	2	-	14	16
Total	3	5	22	30

Application

Bird scaring devices are used to help move birds away from oiled areas to reduce the risk of contamination to the birds.

Description

The bird scaring devices listed above all use sound as the deterrent mechanism. The sounds are generated by electronic speakers (Breco Buoy, Phoenix Wailer), controlled gas explosion (propane cannon), and 6mm pistol blanks and "whizzers" (Starter Pistols). The range and effectiveness varies with each device. The electronic devices use a random sequence of sounds to reduce the habituation of the birds to the sounds. Each of the devices is designed to be operated on land or on a boat. The Breco Buoy is also a free floating unit designed to drift with an oil slick.

Operating data

	<u>Deterrent Radius</u>	<u>Run Time</u>
Breco buoy:	800 m	3 days
Propane cannon:	750 m	3-7 days
Phoenix wailer:	800 m	7 days
Starter pistol:	200 m	-

Technical data

Breco: 130 dB (max), 2-3.5 min blast cycles, 10-12 sounds/cycle
 Cannon: 24 hour on/off programmable, 4 blast cycle settings
 Wailer: 119dB (max), 0.5-32 min sound cycles, 16-64 sounds/cycle

Eastern Canada Response Corporation Ltd.
 Suite 1201, 275 Slater Street, Ottawa K1P 5H9
 Phone (613)-230-7369 Fax (613)-230-7344

CLEAN HARBORS ENVIRONMENTAL SERVICES

Sainte-Catherine PQ Equipment List

Clean Harbors Sainte-Catherine PQ Equipment List

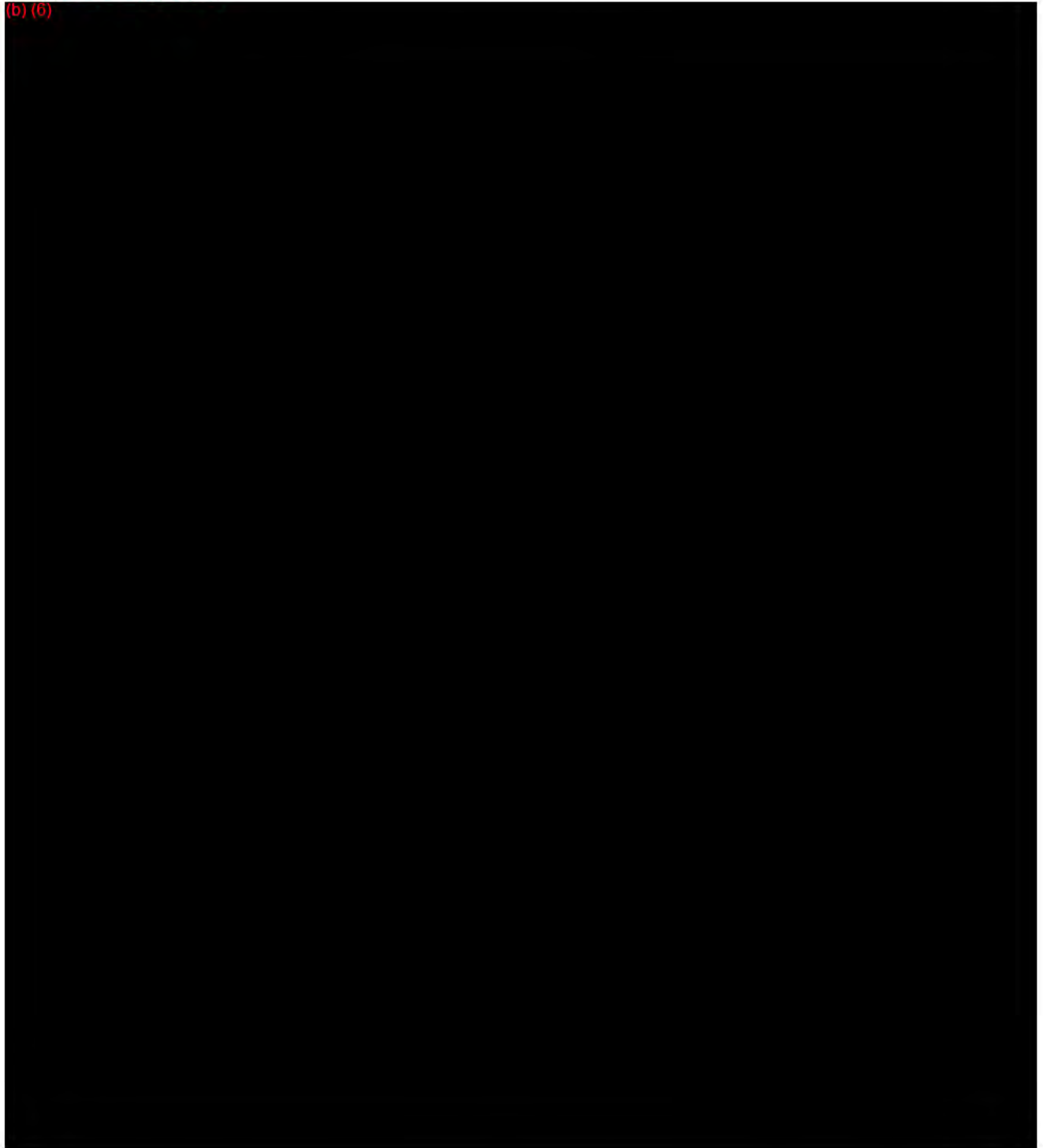
# Unité	Année	Modèle	Identification véhicule	# plaque	Description	Capacité
31062	1991	Kenworth T800	2XKDD29X0MM926591	LB59898	TRACTEUR POMPE VAC 1200CFM / HYD	
31067	1997	Kenworth T800	1XKDD99XXVJ948499	LC82401	TRACTEUR POMPE VAC 500 CFM	
31068	1997	Kenworth T800	1XKDD99X2VJ94500	LC82402	TRACTEUR POMPE VAC 500 CFM / HYD	
31069	2001	Petebilt 378	1XPFD69X81N565956	L214041	TRACTEUR ROLL-OFF HYD.	
31070	2002	Mack CX 613	1M1AE06Y22W012072	L241890	TRACTEUR POMPE VAC, 500 CFM / HYD.	
415371	2005	FREIGHT LINER	1FUJA6CKX5LU35611	L232139	TRACTEUR	
415372	2005	FREIGHT LINER	1FUJA6CK15LU35612	L270349	TRACTEUR	
415373	2005	FREIGHT LINER	1FUJA6CK35LU35613	L270350	TRACTEUR	
415374	2005	FREIGHT LINER	1FUJA6CK55LU35614	L270351	TRACTEUR	
415375	2005	FREIGHT LINER	1FUJA6CK75LU35615	L270377	TRACTEUR	
415376	2005	FREIGHT LINER	1FUJA6CK95LU35616	L270378	TRACTEUR	
415377	2005	FREIGHT LINER	1FUJA6CK05LU35617	L270379	TRACTEUR	
1316	2006	Kenworth	1XKDDBOX46J138257	L371761	TRACTEUR	
1317	2006	Kenworth	1XKDDBOX66J138258	L371762	TRACTEUR	
1336	2006	FREIGHT LINER	1FUJA6AV86LX00329	L346752	TRACTEUR	
1337	2006	FREIGHT LINER	1FUJA6AV46LX00330	L345753	TRACTEUR	
1292	2005	KENWORTH	1XKDDU0X95J104678	L201667	TRACTEUR	
32015	1991	Kenworth C550	2NJKX2TX8MM926611	LB33358	CAMION CITERNE 1200 CFM	12500L
4146	2004	Kenworth T800	1NKDLBOX94J063338	L308055	10 ROUE ROLL-OFF	25250KG
47001	1995	Deloupe pup 3 essieu	2D9TP29C2S1005433	RM14852	REMORQUE ROLL-OFF	26000KG
47002	1995	Deloupe 4 essieux	2D9TP46D6S1005430	RZ21362	REMORQUE ROLL-OFF	55500KG
7191	2005	Chagnon	2C9S81ACX5V057496	RZ39635	B TRAIN ROLL-OFF	47500KG
7191-2	2005	Chagnon	2C9S418B05V057497	RZ39636	B TRAIN ROLL-OFF	41500KG
7192	2005	Chagnon	2C9S418B45V057498	RZ74828	B TRAIN ROLL-OFF	47500KG
7192-2	2005	Chagnon	2C9S418B45V057499	RZ74829	B TRAIN ROLL-OFF	41500KG
40090	1978	Westank Willock	PV7802	RB25228	CITERNE PORTEUR	36000L
40091	1979	Westank Willock	PV7902T	RW19843	CITERNE PORTEUR	31000L
40092	1980	Westank Willock	PV8002T	RB99201	CITERNE VACUUM	22000L
40093	1980	Westank Willock	PV8004T	RB99202	CITERNE VACUUM 800 CFM	22000L
40097	1985	CUSCO	2C9T0462XFC005537	R858287	CITERNE	22000L
40098	1986	PRESVAC	2P9S25283G1005023	RA86448	CITERNE VACUUM 800 CFM	22000L
40099	1986	PRESVAC	2P9S25283G1005024	RB252277	CITERNE VACUUM	22000L
40101	1989	PRESVAC	2P9S25385K1005015	RB99827	CITERNE VACUUM 1200 CFM	29000L
40103	1988	PRESVAC	2D9KB28B5T1004183	RK97686	CITERNE VACUUM 800 CFM	13500L
40108	1995	DELOUPE CUSCO	2D9LP39B8S1005465	RJ79238	CITERNE VACUUM 1200 CFM	15000L
16042	1986	PETRO STEEL	1P9TBB204G1021055	RM147351	CITERNE VACUUM	27400L
2133	2006	Tremcar	2TSL49406B001772	RZ39995	CITERNE POMPE A GEAR	34000L
2134	2006	Tremcar	2TSL49406B001773	RZ29996	CITERNE POMPE A GEAR	34000L
6250	1999	MANAC	1M5921460470C4735		REMORQUE	
6251	2000	MANAC	2M5921469Y7064734	RE95697	REMORQUE	
6252	2000	MANAC	2M5921460Y7064735	RE95696	REMORQUE	
6253	2000	MANAC	2M5921464Y7064737	RE95720	REMORQUE	
6254	1999	MANAC	2M5921466Y7064740	RE95719	REMORQUE	
42205	1996	MANAC	2M5921377V1043339	RW61545	REMORQUE	
42206	1997	MANAC	2M5921375V1043338	RR83698	REMORQUE	
36100	1994	KENWORTH	2NKNLA9XXRM932580	LC32644	BOX VAN	
33201	1994	KENWORTH	1FVX3MDB1YLB64920	L411625	BOX VAN	
38007	2000	FORD F150	2FTRX17W6YCA90083	FXB6559	CAMION DE SERVICE	

CLEAN HARBORS ENVIRONMENTAL SERVICES
Sainte-Catherine PQ Contact List



Sainte-Catherine PQ

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CANADA – ENTREPRENEURS LORS DE DÉVERSEMENT DE PÉTROLE

Ressources d'intervention de l'entrepreneur Station de Highwater

ENTREPRENEURS ET ÉQUIPEMENT

	Soudure Lessard		Excavation Saint- Pierre et Tremblay, Cowansville	Fred Korman inc., Mansonville		Location d'outils Knowlton	Allard et Allard inc., Lac Brome, Quebec	Oxygène de Granby Welding Suppliers inc.	Location Gauthier enr.
Téléphone	514 640- 9446 (24 h)		266-2100 359-7894 263-4555	292-5777 292-3335 878-1453		450-242- 1644	800- 816-2646 539-2646	378-9001- 2-3	450-292- 5585
Air Compr.	D								X
Rétro caveuse	D			D			D		
Tracteur			D	D			D		
Grue	D			D					
Chargeur frontal			D				D		
Chargeur aérien	D						D		
Pelle	X		D						
Remorque- citerne									
Tracteur sur chenilles									
Camions			X				D		
Pare- étincelles			NON				NON		
Niveleuse									
Camion Vacuum									
Flotte	D						D		
Soudeurs et tuyauteurs	X								

D – indique l'énergie par diesel

X – Indique d'autres types d'énergie

Vannes de pipelines dans les environs

(b) (7)(f-)

Ressources d'intervention de l'entrepreneur Station de Saint-Césaire

ENTREPRENEURS ET ÉQUIPEMENT

	Excavation C.M.R., Farnham	Excavation St-Pierre et Tremblay	Soudure Lessard	Ostiguy et Robert	Excavation Choinière, Granby	Simplex Location d'outils
Téléphone	450-293-5510 450-293-2293	450-293-6598	514 640-9446 (24 h)	450-469-3156 450-469-4472 (24 h) 800-363-8973	450-361-1769	450-293- 3116
Air Compr.	D		D			X
Rétro caveuse	D	D	D		D	
Tracteur	D	D		D	D	
Grue			D			
Chargeur frontal	D	D				
Chargeur aérien	D					
Pelle	D	D	D		D	
Remorque-citerne	D	D				
Tracteur sur chenilles						
Camions		D				
Pare-étincelles	N/A	N/A		N/A		
Niveleuse		D		D		
Camion Vacuum						
Flotte	D	D	D	D		
Soudeurs et tuyauteurs			X			

D – indique l'énergie par diesel

X – Indique d'autres types d'énergie

N/A – Non disponible

Vannes de pipelines dans les environs

(b) (7)(F)

Ressources d'intervention de l'entrepreneur

Terminal de Montréal-Est

ENTREPRENEURS ET ÉQUIPEMENT

	Germain Simard Ltee	Grue Fortier	Dickie Moore	Veolia	RSR Environnement	McAllister Towing Ltd.	Soudure Lessard
Téléphone	514-253- 5211 (24 h)	514-259- 1535 (24 h)	514-739- 4791 514-333- 4212 (24 h)	514-332- 2000 (24 h)	450 922-2200 (24 h)	514-849-5511 514-849-2221 (24 h)	514 640-9446 (24 h)
Air Compr.	D		D X			D	D
Rétro caveuse	D						D
Tracteur	D						
Grue		D X			D		D
Chargeur frontal	D						
Chargeur aérien							
Pelle	D						
Remorque- citerne				D			
Tracteur sur chenilles	D						
Camions	D			D			
Pare- étincelles	N/A	N/A	N/A	yes			
Niveleuse				X	X	X	
Camion Vacuum							X

D – indique l'énergie par diesel

X – Indique d'autres types d'énergie

N/A – Non disponible

Vannes de pipelines dans les environs

(b) (7)(F)

Ressources d'intervention de l'entrepreneur

Terminal de Montréal-Est

ENTREPRENEURS ET ÉQUIPEMENT

	Simplex	Dusseault Helio Services	J.L. Sorel et Frères	McAllister Towing Ltd.	Montreal Boatman	Veolia	RSR Environnement	ECRC (SIMEC)
Téléphone	514-331-7777	450-464-5290	514-524-9418	514-849-2221 514-849-5511 (24 h)	514-640-4970 (24 h)	514-645-1045	450-922-2200	613-930-9690 (24 h)
Camion Vacuum						D	D	D
Pompe	D X			D X		D X		
Service d'hélicoptère		X						
Service de conduite			X	X				
Remorqueurs				D				D
Service de bateaux				X	X	X	X	X
Hors-bord				X		X		X
Pare-étincelles	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Pollution				X		X		X

D – indique l'énergie par diesel

X – Indique d'autres types d'énergie

N/A – Non disponible

Ressources d'intervention de l'entrepreneur Terminal de Montréal-Est

ENTREPRENEURS ET ÉQUIPEMENT

	Dickie Moore Rentals	Simplex location outils	McAllister Towing Ltd	Cartier Chemical Ltd.	Environement Rive Nord	RSR Environement
Téléphone	514-333-1212 (24 h)	514-331-7777	514-849-2221 514-849-5511 (24 h)	514-637-4631	450-430-8666 514-975-4478	450-922-9200
Générateur de vapeur	X	X	X			X
Génératrice d'électricité	D X	X	D			D X
Lampes portatives	X	X	X			X
Ventilateur	X	X	X			X
Tronçonneuse		X	X			X
Matériau absorbant				X		X
Dispersants d'huile	N/A	N/A	N/A	N/A		N/A
Pare- étincelles						

D – indique l'énergie par diesel
X – Indique d'autres types d'énergie
N/A – Non disponible

LISTE DES ENTENTES DE MPL

- Simdev Construction
- Sécurité et Protection Sec-Pro Inc.
- Santinel Inc.
- National
- Fasken Martineau
- S.I.M.E.C.
- UDA Inc
- R.S.R. Environment
- Cargair Limitée
- Tetrattech Inc.
- Amnor Inc
- St-Pierre Excavation Inc

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ANNEXE D

PROCÉDURES D'ÉVACUATION

Procédures d'évacuation générale – Tous les lieux	D-2
Installation	D-2
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Terminal maritime et parc de stockage de South Portland É-U	D-5
Stations de pompage américaines et canadiennes	D-6
Canada – Terminal de Montréal et <i>North Tank Field</i>	D-6
Diagrammes d'évacuation	D-8

PROCÉDURES GÉNÉRALES D'ÉVACUATION

Tous les lieux

Décision d'évacuer

La décision d'évacuer ou non, ainsi que les distances d'évacuation sont spécifiques à chaque incident et doivent être déterminées au moment de l'incident. La première considération en matière d'évacuation nécessite un effort global pour identifier et prendre en compte la nature des circonstances entourant l'incident. En cas de déversement d'hydrocarbures, les facteurs qui influent sur l'évacuation incluent le volume du déversement, les propriétés du produit déversé, le taux de libération du produit, la durée potentielle du rejet, le schéma de dispersion et le risque de blessure ou de mort que présente le déversement.

Évacuation de l'installation

Le commandant des opérations sur le lieu de l'incident déterminerait le besoin d'évacuer l'installation et le communiquerait à tous les employés, les sous-traitants et les autres membres du personnel de l'installation, en précisant le chemin d'évacuation et le lieu de rassemblement appropriés. Une fois que la décision d'évacuer est prise, tout le personnel doit sortir de l'établissement en suivant la voie d'évacuation spécifiée et s'enregistrer au lieu de rassemblement désigné. Un appel nominal sera ensuite fait pour assurer une évacuation complète de l'installation. Les zones situées immédiatement à l'extérieur des portes serviraient de zones de regroupement à partir de ces routes. Finalement, le choix des itinéraires d'évacuation et des abris à utiliser serait effectué par la personne responsable de l'évacuation.

Personnel d'intervention d'urgence

Le personnel d'intervention d'urgence arrivera et entrera par la porte principale, à moins que les conditions s'y opposent. Dans ce cas, il entrera par l'une des portes accessibles situées autour du périmètre de l'installation. Le personnel blessé sera conduit à l'hôpital ou à l'établissement médical le plus proche, tel qu'indiqué dans la section des services d'urgence locale du plan.

Procédures de rentrée

Lorsque toute la sécurité sera rétablie, le commandant des opérations sur le lieu de l'incident, en coopération avec les représentants du service d'incendie municipal et des forces de l'ordre locales, donnera aux employés l'autorisation de retourner sur les lieux de l'incident.

Évacuation des environs

Si le commandant des opérations sur le lieu de l'incident estime qu'une partie de la population environnante doit être évacuée, il appellera immédiatement les forces de l'ordre locales pour obtenir de l'aide (par ex. : fuites majeures, incendie, risque d'explosion, etc.). La direction doit coopérer avec les forces de l'ordre locales afin d'évaluer l'ampleur de l'évacuation requise. Ils communiqueront également les informations quant à l'urgence aux autorités municipales.

Effectuer une évacuation

Dans le cas où il serait décidé d'évacuer une zone, l'évacuation devrait s'effectuer de manière coordonnée, complète et sécuritaire. L'évacuation implique un certain nombre d'étapes qui consistent à confier des tâches au personnel d'assistance d'évacuation, à informer les évacués potentiels, à assurer le transport si nécessaire, à fournir des soins médicaux d'urgence au besoin, à assurer la sécurité des zones évacuées et à abriter les évacués, le cas échéant.

PROCÉDURES GÉNÉRALES D'ÉVACUATION (suite)

Tous les lieux

Évacuation des environs (suite)

Population dans une zone dangereuse

Lors du constat que des personnes se trouvent réellement dans une zone dangereuse, l'autorité responsable doit décider s'il faut ordonner aux personnes de rester à l'intérieur, secourir les personnes de la zone ou ordonner une évacuation générale. L'option de « rester à l'intérieur » doit être envisagée lorsque l'exposition des personnes présente des risques trop importants. Il peut être nécessaire de secourir des personnes de la zone dangereuse en leur fournissant des équipements de protection pour assurer leur sécurité durant l'évacuation. La troisième option consiste à ordonner une évacuation générale. Dans ce cas, les personnes doivent être évacuées à l'aide d'un moyen de transport privé ou fourni par le gouvernement local ou d'état, une société privée ou un groupe de bénévoles.

Population dans une zone menacée

Dans le cas d'une zone qui n'est menacée que par un déversement, l'autorité responsable devrait déterminer si les personnes potentiellement évacuées peuvent être évacuées avant que les dangers ne parviennent à la zone. Pour évacuer la zone en toute sécurité, un délai important peut être nécessaire. Les dangers potentiels et leurs déplacements doivent être soigneusement considérés pour déterminer si une population est exposée à un risque élevé et nécessite une évacuation.

Ressources requises

Pour assurer une évacuation sûre et efficace, des ressources appropriées et suffisantes, notamment du personnel, des véhicules et du matériel, doivent être fournis, ce qui est généralement fait par les forces de l'ordre locales, le service municipal d'incendie ou l'organisme de gestion des urgences locales.

Le type d'équipement nécessaire lors d'une évacuation peut inclure :

- L'équipement de protection pour le personnel d'assistance en cas d'évacuation.
- Un équipement de protection pour les personnes évacuées qui peuvent avoir à passer dans des zones où l'exposition à un danger est possible.
- Le matériel de communication (par ex. : radios portables et mobiles, systèmes de sonorisation mobiles, porte-voix, etc.).
- Les étiquettes d'évacuation (une étiquette ou un marqueur fixé à une porte pour indiquer que les occupants ont été avertis) pour les bâtiments qui ont été évacués.

Procédures de rentrée

Lorsque toute la sécurité sera rétablie, le service d'incendie municipal et les forces de l'ordre locales, en collaboration avec le commandant des opérations sur le lieu de l'incident, autorisent les résidents à retourner sur les lieux de l'incident / accident.

Dangers causés par le produit déversé

Se reporter à la section 3, figures 3.4 et 3.5 et à l'inventaire de la fiche signalétique des matières dangereuses pour connaître les dangers spécifiques causés par le produit déversé.

POSTES DE COMMANDEMENT

Les activités de l'équipe d'intervention seront menées dans les centres opérationnels désignés. Ces centres comprennent le centre des opérations d'urgence, les postes de commandement sur le site, et, dans certains cas, un centre de commandement hors site pour les activités de relations publiques.

Centre des opérations d'urgence

Le COU agira comme poste de commandement principal par défaut lors d'un incident (voir aussi la section 3.1). Le but du centre est de :

- Faciliter la création d'une chaîne de commandement bien structurée.
- Fournir le flux d'informations nécessaires pour une prise de décision et une planification éclairées.
- Fournir des informations précises et pertinentes aux organismes gouvernementaux et aux médias, ainsi que les procédures de comptabilité et de documentations centralisées.

Le COU sera situé au bureau principal de Portland Pipe Line Corporation, dans la salle de conférence située à l'étage. L'équipement devant être accessible au COU comprend :

- Téléphone à plusieurs lignes
- Télécopieurs
- Radios portables
- Une carte de situation
- Ordinateur personnel
- Équipement d'assistance visuelle
- Services administratifs

Poste de commandement sur le terrain

Le poste de commandement sur le terrain sera établi près du lieu de l'incident, de préférence dans une station de pompage ou un terminal. Le poste de commandement sur le terrain a pour but de :

- Coordonner toutes les activités qui visent à réduire le niveau immédiat de danger
- Confiner le produit
- Récupérer le produit
- Effectuer le nettoyage

L'équipement qui sera accessible au poste de commandement sur le terrain comprend :

- Téléphone à plusieurs lignes
- Télécopieurs
- Radios portables
- Bureaux équipés de fournitures de bureau
- Ordinateurs personnels
- Services de secrétariat

Chaque station de pompage et la jetée n° 2 sont désignés comme poste de commandement sur le terrain. Chaque station est équipée de fournitures de bureau, de communication et de support pour le personnel de commandement sur le terrain.

PROCÉDURES D'ÉVACUATION SPÉCIFIQUES À UN EMPLACEMENT

TERMINAL MARITIME DE *SOUTH PORTLAND* ET PARC DE STOCKAGE

Routes d'évacuation

Les zones suivantes ont été identifiées comme des zones potentielles d'évacuation en cas de déversement dans le pire des cas :

- Installation du parc de stockage et ses environs
- Installations et zones environnantes des jetées 1 et 2.

Les itinéraires potentiels d'évacuation et les zones de regroupement pour le parc de stockage sont indiqués dans le diagramme de drainage à la fin de cette annexe. Les voies d'évacuations préférables depuis les installations de la jetée sont des voies directes qui prennent les principales portes de sécurité.

- Direction du flux du déversement : les déversements suivront généralement les cours de drainage dans le parc de stockage jusqu'au séparateur d'huile et au bassin de rétention. Les voies d'évacuation doivent être choisies de manière à minimiser l'exposition au pétrole et aux risques potentiels tels que H₂S et les atmosphères dangereuses.
- Vents dominants : Sont du sud-ouest en été et variable à tout moment de l'année. Des manches à vent ont été installées sur les réservoirs sélectionnés pour indiquer la direction et doivent être référencées dans l'évaluation des itinéraires d'évacuation.

Les services de police et les services d'incendie de *South Portland* et les autorités officielles seraient chargés de sélectionner les populations à évacuer et les itinéraires d'évacuation. Le directeur municipal a le pouvoir d'ordonner une évacuation. Les autorités locales seraient chargées de procéder à l'évacuation. Le plan d'intervention pour les matières dangereuses de *South Portland* devrait servir de plan principal pour le processus d'évacuation.

Les autres organismes susceptibles de fournir un soutien lors d'une opération d'évacuation sont la Croix-Rouge et les organismes de services médicaux d'urgence.

Système d'alarme / de notification

Les tirettes d'alarme d'incendie se trouvent dans les installations de PLPM de *South Portland*. Celles-ci, une fois activées, appelleront le service d'incendie de *South Portland*. L'une est située au sud-ouest du bâtiment de maintenance, à côté de la route. L'autre est à la jetée 2, sur le quai. Une autre est située à l'extérieur de la guérite. L'utilisation de la pompe à incendie de la jetée 2 activera également le système d'alarme du service d'incendie de *South Portland* via le panneau d'alarme incendie de la guérite du garde de sécurité. Le bureau général de *South Portland* dispose de détecteurs de fumée et de chaleur qui déclenchent une alarme dans le bâtiment en vue de son évacuation. Tous les incendies doivent être signalés au contrôleur qui contactera le service d'incendie de *South Portland* et ouvrira la porte d'entrée pour permettre l'accès de l'équipement d'intervention en cas d'incendie.

PROCÉDURES D'ÉVACUATION SPÉCIFIQUES À UN EMBLACEMENT

TOUTES LES STATIONS PRINCIPALES DE POMPAGE

En cas d'urgence dans une station principale de pompage, les mesures suivantes seraient prises pour assurer la sécurité de tout le personnel de la station de pompage.

- ◆ Évacuation des personnes vers les points de rassemblement prédéterminés.
Une alarme serait donnée par téléphone, verbalement ou par radio. Tous les travailleurs seraient évacués vers le point de rassemblement principal indiqué ci-dessous ou vers un autre site si le point de rassemblement principal était en danger. Le responsable, le technicien ou le chef des travaux effectuera le décompte pour s'assurer que tout le monde a quitté la zone dangereuse.
- ◆ Procédure de rentrée
Lorsque le site sera à nouveau sécuritaire, le directeur des opérations ou le responsable ou le technicien ou le chef des travaux, en consultation avec le service d'incendie local et / ou les forces de l'ordre, autorisera les employés à retourner à leur poste.

(b) (7)(F)

TERMINAL DE MONTRÉAL

Lorsqu'il y a une situation d'urgence au terminal de Montréal, les mesures suivantes seront prises pour assurer la sécurité de tout le personnel. De plus amples renseignements sur l'emplacement des points d'évacuation, des points de rassemblement et du centre d'opérations d'urgence sont fournis par les schémas du plan de lutte contre les incendies dans les cartes d'intervention d'urgence de Pipelines Montréal.

Évacuation des personnes vers des points de rassemblement prédéterminés

- ◆ Une alarme serait donnée par un appel téléphonique, verbalement ou par radio.

◆ (b) (7)(F)

■

■

pour s'assurer que tout le monde a quitté la zone dangereuse et informera le commandant des opérations sur le lieu de l'incident de tout problème survenu pendant l'évacuation.

PROCÉDURES D'ÉVACUATION SPÉCIFIQUES À UN EMBLACEMENT

Points d'accès

Les schémas du plan de lutte contre les incendies de la section 7.3 indiquent l'emplacement géographique d'un (1) point principal (b) (7)(F)

(b) (7)(F)

NORTH TANK FIELD

Lorsqu'il y a une situation d'urgence au *North Tank Field*, les mesures suivantes seront prises pour assurer la sécurité de tout le personnel. De plus amples renseignements sur l'emplacement des points d'évacuation, des points de rassemblement et du centre d'opérations d'urgence sont fournis par les schémas du plan de lutte contre les incendies dans les cartes d'intervention d'urgence de Pipelines Montréal.

Évacuation des personnes vers des points de rassemblement prédéterminés

- ◆ Une alarme serait donnée par un appel téléphonique, verbalement ou par radio.
- ◆ (b) (7)(F)
-
- ◆ Le chef de l'unité des opérations procédera à un décompte du nombre de personnes pour s'assurer que tout le monde a quitté la zone dangereuse et informera le commandant des opérations délégué sur le lieu de l'incident de tout problème survenu pendant l'évacuation.

Points d'accès

(b) (7)(F)

. Dans ce cas, il serait nécessaire de traverser des propriétés commerciales et, avec un équipement lourd approprié, une zone boisée pour accéder au parc de stockage.

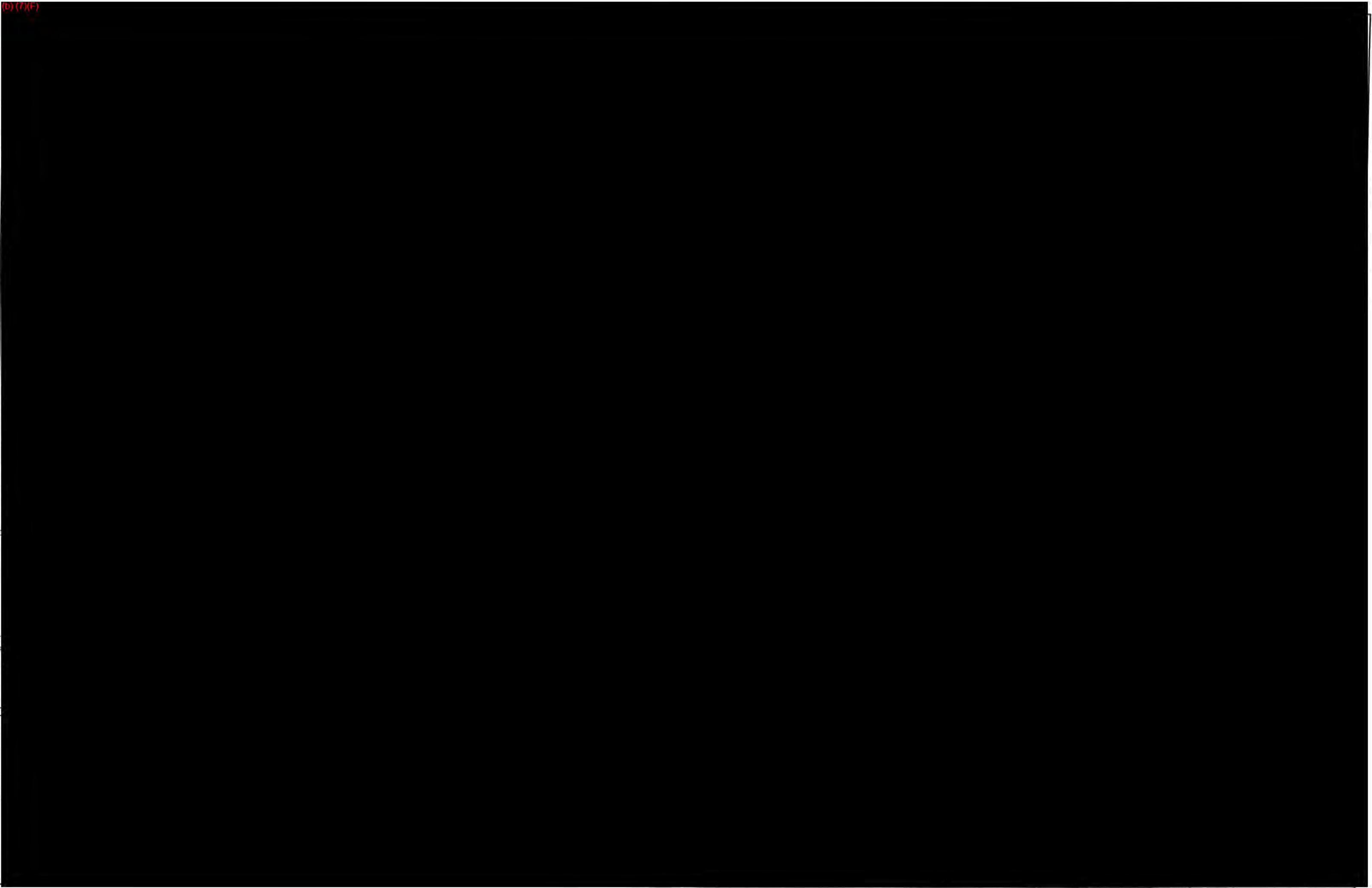
DIAGRAMMES D'ÉVACUATION

É.U. – Les schémas suivants sont joints en référence :

<i>South Portland Tank Farm</i>	Schéma D-4921
<i>South Portland Terminal Maritime</i>	Schéma D-4922

Canada – Les schémas de contrôle d'incendie suivants sont disponibles en référence à la section 7.3 :

<i>Station de pompage Highwater</i>	Schéma D-3835
<i>Station de pompage de Saint-Césaire</i>	Schéma D-3834
<i>Terminal de Montréal-Est</i>	Schéma D-3833
<i>North Tank Field</i>	Schéma D-4248



b
7
(F)

ANNEXE E

ENQUÊTE DE SUIVI

ENQUÊTE DE SUIVI

Toutes les urgences couvertes par ce plan feront l'objet d'une enquête pour identifier les causes profondes et les mesures correctives appropriées. Pendant l'enquête, des précautions doivent être prises afin d'empêcher la perte de preuves importantes, qui peuvent être importantes pendant l'enquête. Le site doit être protégé et rien ne sera déplacé du site de l'incident (par exemple des morceaux d'équipement brisé, etc.) jusqu'à ce que l'incident ait fait l'objet d'une enquête approfondie, ce qui peut comprendre également un examen par les assureurs de PLPM.

Sur accord du commandant du lieu de l'incident (ou après l'incident, le directeur des opérations), le site peut être réhabilité et le cours normal des activités peut être rétabli.

Après l'enquête ou comme partie de l'enquête, l'entreprise examiner le plan pour évaluer et valider son efficacité. La contribution sur l'efficacité du plan sera recherché par le personnel de gestion du terminal, l'équipe de gestion en cas de déversement, les agences de réglementation et autres comme ils le jugent nécessaire. En fonction de l'examen, des amendements au plan peuvent être nécessaires.

Il incombe au Directeur des Santé, Sécurité et Environnement de superviser l'examen du plan et de s'assurer que toutes les copies du plan soient amendées.

ANNEXE F

PLAN DE CESSION

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SURVOL

Une urgence majeure, particulièrement une intervention en cas de déversement de pétrole, peut générer des quantités significatives de déchets et de matières allant de résidus d'hydrocarbures et de matériaux absorbants à l'eau sanitaire et aux batteries usagées. Tous ces déchets doivent être classés et séparés (par exemple, les substances huileuses, liquides, solides, dangereuses, etc.), transportés hors du site, et traités et / ou éliminés dans une décharge approuvée. Le transport et l'élimination des déchets peuvent nécessiter l'obtention de permis et des manifestes de transport. Chacune de ces activités exige que certaines précautions de santé et de sécurité soient prises, qui sont strictement contrôlées par les lois et les règlements fédéraux, de l'état et provinciaux. Cette section fournit une vue d'ensemble des règlements applicables régissant l'élimination des déchets, et une discussion au sujet du classement, de la manipulation, du transfert, de l'entreposage et des techniques d'élimination de plusieurs déchets. Il incombe au spécialiste environnemental de soutenir le personnel sur le terrain pour gérer les besoins d'élimination des déchets pendant un nettoyage en cas de déversement de pétrole.

CLASSIFICATION DES DÉCHETS

Déchets liquides - huileux

Les déchets liquide huileux (par exemple, l'eau huileuse et les émulsions) qui seraient manipulés, stockés et éliminés pendant des opérations d'intervention sont très semblables à ceux qui sont manipulés dans des opérations de routine d'entreposage et de transfert. Pendant un incident de déversement, le plus grand volume de déchets liquides huileux serait produit par des opérations de récupération (par exemple, par l'utilisation de pompes à vide ou d'écumoire). De plus, l'eau huileuse et les émulsions seraient générées par le fonctionnement des véhicules (par exemple, les huiles des moteurs, les lubrifiants, etc.), et les opérations de nettoyage de l'équipement. Récupérer les liquides et les stocker dans des barils, des contenants ou des réservoirs imperméables identifiés (selon la quantité). Une analyse sera exigée pour identifier les mesures les plus appropriées.

Déchets liquides – non huileux

Les opérations d'intervention d'urgence pourraient également provoquer des quantités considérables de déchets liquides non huileux. L'eau et les autres déchets liquides non huileux seraient produits par la zone de stockage et les réseaux de collecte des eaux pluviales, le nettoyage des réservoirs et de l'équipement (par exemple, l'eau contaminée par des agents nettoyants) et les opérations de bureau et sur le terrain (par exemple, les activités d'assainissement et de construction).

Ces déchets liquides seront également entreposés dans des fûts ou des réservoirs imperméables identifiés. Une analyse sera nécessaire pour identifier la mesure la plus appropriée.

Déchets huileux – solides / semi-solides

Les déchets huileux solides ou semi-solides qui seraient produits par des opérations d'endiguement et de récupération comprennent les barrages endommagés ou usés, le matériel jetable / souillé, les absorbants usés, une saturation des sols, des sédiments de plage contaminés, du bois flotté et d'autres débris. Ces déchets solides seront entreposés dans des espaces de confinement imperméables identifiés. Une analyse sera nécessaire pour identifier les mesures les plus appropriées.

CLASSIFICATION DES DÉCHETS (suite)

Déchets non huileux – solides / semi-solides

Les déchets non huileux solides / semi-solides seraient produits par des opérations de construction d'urgence (par exemple, de la ferraille, du bois, des tuyaux et du câblage) et les opérations de bureau et sur le terrain (par exemple, des déchets). Les opérations des réservoirs, des véhicules et des avions produisent aussi des déchets solides. On doit les traiter en utilisant des méthodes et des systèmes d'élimination des déchets de routine.

TRAITEMENT DES DÉCHETS

Une première préoccupation dans le traitement du pétrole récupéré et des débris huileux est la contamination des zones qui ne sont pas affectées ou une nouvelle contamination des zones déjà nettoyées. Les déchets huileux produits pendant les opérations d'intervention doivent être séparés par types et transférés vers des zones d'entreposage temporaires et / ou transportés vers des sites d'incinération ou d'élimination. Le traitement adéquat des déchets de pétrole et huileux est essentiel pour assurer la santé et la sécurité du personnel.

Considérations de sécurité

Il convient de veiller à éviter ou minimiser le contact direct avec les déchets huileux. Tout le personnel manipulant ou entrant en contact avec les déchets huileux doit porter des vêtements de protection. Une crème protectrice peut être appliquée avant de mettre des gants pour réduire la possibilité d'absorption de déchets huileux. Le personnel impliqué dans les activités de traitement des déchets doit porter des lunettes de protection là où des éclaboussures peuvent avoir lieu. Toute partie de la peau exposée aux déchets huileux doit être lavée avec du savon et de l'eau le plus tôt possible. Les zones de décontamination doivent être préparées pendant les opérations d'intervention pour s'assurer que le personnel soit traité en cas d'exposition au pétrole.

Décontamination du personnel et de l'équipement

Enlever les contaminants du personnel de l'équipe d'intervention, de leurs vêtements et de l'équipement est d'une importance capitale après une intervention d'urgence. Le personnel intervenant pendant les urgences peut devenir contaminé de plusieurs façons, y compris :

- ◆ En entrant en contact avec des vapeurs, des gaz, des brumes, ou des particules dans l'air ;
- ◆ En étant éclaboussé par des substances en intervenant lors de l'urgence ;
- ◆ En marchant dans des flaques de liquides ou sur du sol contaminé ;
- ◆ En utilisant des instruments ou de l'équipement contaminé.

Sous la supervision du spécialiste en environnement, la matière contaminée comme les ÉPI jetables sera envoyée à un site autorisé pour l'élimination. Les ÉPI et l'équipement réutilisables seront décontaminés par des entrepreneurs formés adéquatement pour de telles activités de décontamination. Par exemple, l'équipement d'intervention contaminé en cas d'incendie sera nettoyé avant d'être entreposé. Les liquides de nettoyage utilisés pour la décontamination seront récupérés par un camion-citerne et envoyés à un site autorisé.

Si des émanations provenant de produit diverse ou d'un incendie contenant des substances toxiques (par exemple, des émissions de dioxines, de furanes, etc.), un protocole de décontamination spécifique sera établi par le spécialiste en environnement. Ce protocole peut comprendre un programme de surveillance médicale pour le personnel. Des analyses peuvent aussi être exigées pour démontrer l'efficacité des techniques de décontamination. De telles preuves peuvent être exigées par les autorités gouvernementales (MDDEP du Québec, Environnement Canada, EPA, etc.).

TRAITEMENT DES DÉCHETS (suite)

Transfert de l'eau

Pendant les interventions d'urgence, il peut être nécessaire de transférer les débris de pétrole et huileux récupérés d'un point à un autre plusieurs fois avant que les débris de pétrole et huileux soient finalement recyclés, incinérés ou éliminés à un site d'élimination approprié. En fonction du lieu des opérations d'intervention, certaines ou toutes les opérations de transfert suivantes peuvent avoir lieu :

- À partir des écumeurs portatives ou montées directement sur le réservoir vers des réservoirs souples, des réservoirs d'entreposage du réservoir écumant lui-même ou une barge.
- Directement dans le réservoir de stockage d'un appareil sous vide.
- D'un réservoir écumant ou une écumoire souple vers une barge.
- D'un réservoir de stockage sous vide vers une barge.
- D'une barge vers un camion-citerne
- D'un camion-citerne vers un système de traitement (par exemple, un séparateur huile / eau).
- D'un système de traitement vers un système de récupération et / ou un incinérateur.
- Directement dans des sacs imperméables qui, par la suite, sont placés dans des contenants imperméables.
- Des contenants vers les camions.

Il y a quatre classes générales de systèmes de transfert qui peuvent être employés pour affecter les opérations de transfert des déchets huileux :

- **Pompes** : Des pompes rotatives, comme les pompes centrifuges, peuvent être utilisées pendant le transfert d'importantes quantités de pétrole, mais elles peuvent ne pas être appropriées pour pomper des mélanges de pétrole et d'eau. L'action de poussée extrême des pompes centrifuges a tendance à émulsifier l'huile et l'eau, augmentant par conséquent la viscosité du mélange et provoquant des taux de transfert bas et inefficaces.
L'émulsion obtenue serait également difficile à séparer en fractions de pétrole et d'eau. Les pompes à lobes ou pompes à déplacement positif fonctionnent bien avec les huiles lourdes et visqueuses, et elles n'émulsifient pas le mélange pétrole / eau. Les pompes à piston double effet et les pompes à diaphragme double sont des pompes à piston qui peuvent également être utilisées pour pomper les déchets huileux.
- **Systèmes à vide** : Un camion-citerne peut être utilisé pour transférer les huiles visqueuses mais ils prennent généralement une proportion très élevée d'eau / pétrole.
- **Convoyeurs à bande / à vis** : Les convoyeurs peuvent être utilisés pour transférer les déchets huileux contenant une grande quantité de débris. Ces systèmes peuvent transférer des débris chargés d'huile horizontalement ou verticalement pour de courtes distances (par exemple, 10 pieds) mais ils sont volumineux et difficiles à mettre en place et à faire fonctionner.
- **Véhicules à roues** : Les véhicules à roues peuvent être utilisés pour transférer les déchets liquides ou les débris huileux vers les sites de stockage ou d'élimination. Ces véhicules ont un volume de transfert limité (par exemple, 100 barils) et requièrent un bon accès au site.

Le tableau F-1 fournit une évaluation comparative de 15 types de systèmes de transfert qui pourraient être disponibles pour des opérations de transfert.

SITE DE STOCKAGE TEMPORAIRE DES DÉCHETS

L'entreposage provisoire des huiles usées, des déchets huileux et non huileux pourraient être considérés comme des moyens disponibles pour garder les déchets jusqu'à ce qu'une méthode de gestion finale soit choisie. De plus, la ségrégation des déchets selon le type faciliterait la méthode d'élimination appropriée.

La méthode d'entreposage utilisée dépendrait :

- Du type et du volume de matières qui doivent être entreposées.
- De la durée d'entreposage.
- De l'accès.

Pendant un incident de déversement de pétrole, le volume de pétrole qui peut être récupéré et dont on doit s'occuper dépend en réalité de la capacité de stockage disponible. Des options de stockage typiques à court terme sont résumées dans le Tableau F-2. La majorité de ces options peuvent être utilisées à terre ou en mer. Si les contenants de stockage comme des sacs ou des barils sont utilisés, le contenant doit être clairement identifié pour indiquer le type de matière / déchet contenu et / ou l'option d'élimination ultime. Les réservoirs souples ou réservoirs flottants seraient acceptables, si l'espace disponible peut soutenir le poids du contenant et du produit. Les réservoirs de stockage du pétrole brut de PLPM peuvent être utilisés pour le stockage ou le pétrole brut récupéré.

Les barges pétrolières peuvent être la meilleure option pour le stockage temporaire du pétrole récupéré dans les zones d'eau libre. Selon la taille, ces réservoirs pourraient contenir jusqu'à 6 000 barils de pétrole et d'eau. La plate-forme de barge peut être utilisée comme une plate-forme pour faire fonctionner l'équipement de nettoyage en cas de déversement de pétrole et le barrage de rétention pour le stockage. Voir l'Annexe C pour les barges de récupération et de confinement.

Les barges vides ont un espace de quatre à six pieds qui augmenterait quand ces barges sont remplies de pétrole ou chargées de marchandises. Par conséquent, elles pourraient ne pas pouvoir entrer dans des eaux peu profondes, riveraines. Les barges fonctionnant à Portland Harbor pourraient déverser le pétrole brut récupéré dans les réservoirs de fractionnement côtiers au terminal de Clean Harbors à South Portland. Le pétrole récupéré pourrait ensuite être renvoyé par camion à PLPM pour le transport vers Montréal, transféré aux réservoirs du terminal Williams opérés par Clean Harbors avec la permission de DEP ou transporté par camion aux installations d'incinération comme il se doit. Il peut être difficile de décharger le pétrole récupéré stocké à l'intérieur des barges. À Montréal, les barges ou réservoirs souples pourraient être déversés aux « sites d'opérations » prédéterminés par le SIMEC. Cela comprend des lieux tels que les installations du SIMEC à Verchères, le quai de Verchères à Verchères, le port de plaisance à Contrecoeur, la salle communautaire de Lavaltrie et Hydro-Québec à Tracy. Les liquides récupérés pourraient être éliminés dans un des réservoirs de PLPM s'il y en a un qui est disponible et les matières solides seraient éliminées par le SIMEC dans un site d'élimination approuvé tel que déterminé à ce moment avec le MDDELCC, le SIMEC et le spécialiste en environnement à contrat de PLPM. Étant donné les forces naturelles qui affectent le pétrole déversé, le pétrole récupéré peut être très visqueux ou émulsifié, plutôt que fluide. Il peut être nécessaire d'utiliser de la vapeur pour réchauffer l'huile visqueuse avant de la pomper de la barge.

Des réservoirs en acier ou en caoutchouc peuvent être utilisés pour stocker le pétrole récupéré près de la rive. Pour faciliter le déchargement, des émulsifiants peuvent être utilisés pour rompre les émulsions avant de placer la substance récupérée dans les barges ou les réservoirs de stockage.