

Oil Spill Activation Plan



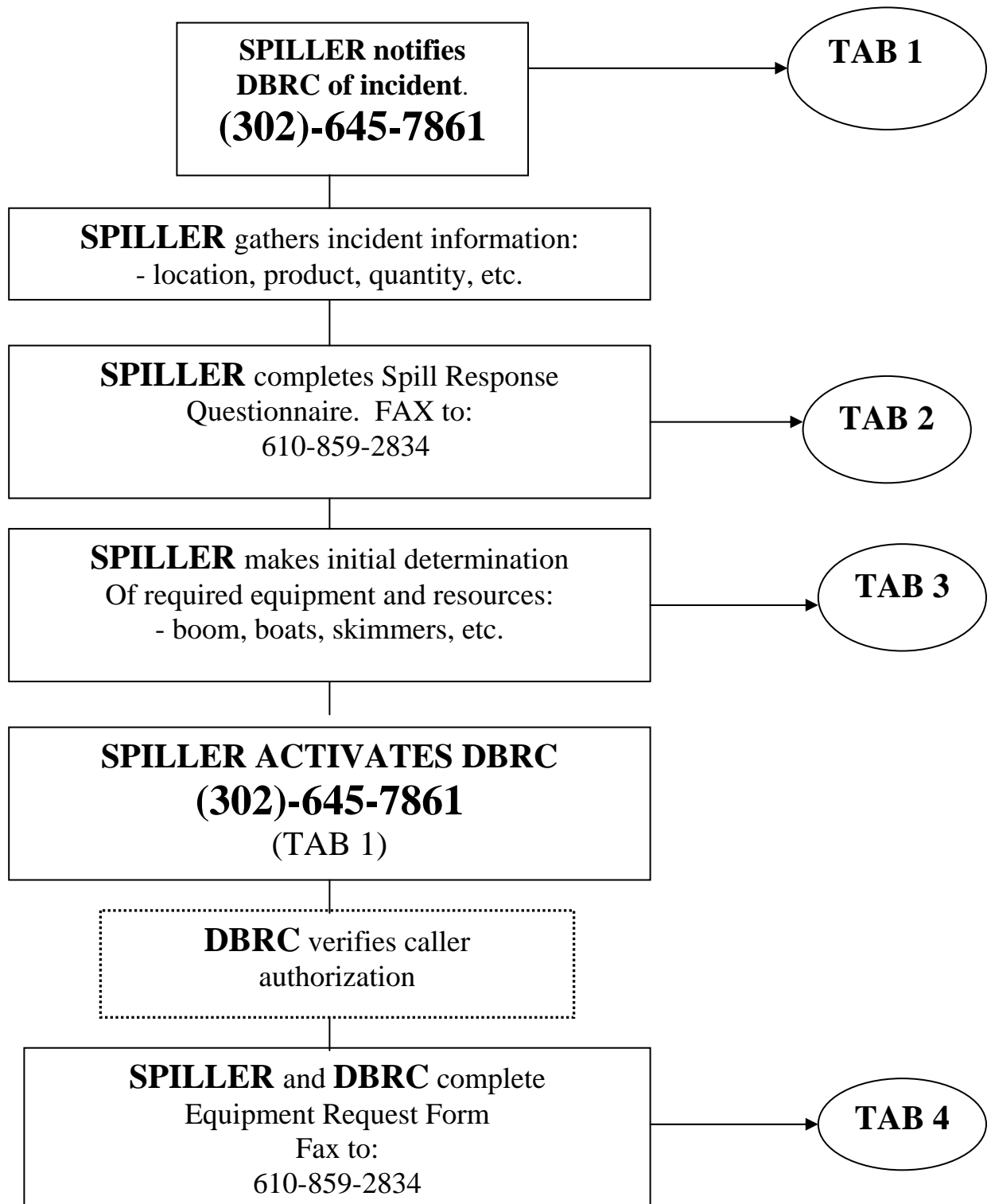
Revised March 31, 2006

**DELAWARE BAY AND RIVER COOPERATIVE, INC. (DBRC)
OIL SPILL RESPONSE PLAN**

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ACTIVATION OF DBRC



PURPOSE OF THIS PLAN

The Delaware Bay and River Cooperative, Inc. (DBRC) developed this manual to be a ready reference and checklist for activating DBRC resources in an emergency oil spill situation involving DBRC members or subscribers. The flow chart on the previous page outlines the recommended sequence of steps to be taken by a spiller to activate DBRC if time permits. This manual is organized based on the anticipated order of use during an actual emergency situation.

This manual is supplemented by the “ASA Map Computer Program” Which has been distributed to member companies, federal and state agencies. The program includes:

- Sensitive resource/general information for the Delaware River and Bay
- Boom deployment guidance
 - ❖ (Protective booming, collection booming and staging areas)
- The Sector Delaware Bay Area Contingency Plan

ACTIVATION OF DBRC

Notification to DBRC of possible activation is recommended immediately after a spill has occurred. Prior to **formally** activating DBRC, the spiller should gather incident information, complete a Spill Response Questionnaire, and begin to discuss with DBRC what resources would be required for the spill response. After initiating these tasks, an **authorized** representative for the spiller may formally **activate** DBRC by calling the DBRC President and faxing the **Completed Spill Response Questionnaire** to the numbers provided. This formal activation is required before DBRC can actually begin to commit resources.

There are three basic groups that can activate DBRC: **member companies, subscribers,** and the **United States Coast Guard**. Specific activation instructions for each group are found within this tab as indicated below. The user should select and follow the appropriate action procedures as indicated.

- Instructions for DBRC activation by **member companies** are located on page 1-5.
- Instructions for DBRC activation by **subscribers** are located on page 1-7.
- Instructions for DBRC activation by the **U.S. Coast Guard** are located on page 1-9.

All users of this manual should then proceed sequentially through the tabbed sections.

FOR ALL USERS, THE PRIMARY NUMBER FOR CONTACTING DBRC IS:

302-645-7861

At night this number is forwarded to the DBRC President, or if he is unavailable, to a designated DBRC employee. President, as used hereafter, means the President or a designated DBRC employee.

DBRC CONTACTS

President, **Eugene Johnson:**

DBRC Linwood Office	610/859-2830
DBRC Linwood Office FAX	610/859-2834
Cellular Phone	302/462-0191

Field Supervisor, **Bob Poole:**

DBRC Linwood Facility	610/859-2830
DBRC Linwood Facility FAX	610/859-2834
Cellular Phone	302/462-0194

Marine Supervisor, **Gardner Knight:**

DBRC Lewes Office	302/645-7861
DBRC Lewes Office FAX or Phone	302/645-1565
Cellular Phone	302/462-0193

DBRC OFFICES

DBRC Lewes Office

Marine Operations Building
700 Pilottown Road
P.O. Box 624
Lewes, DE 19958-0624

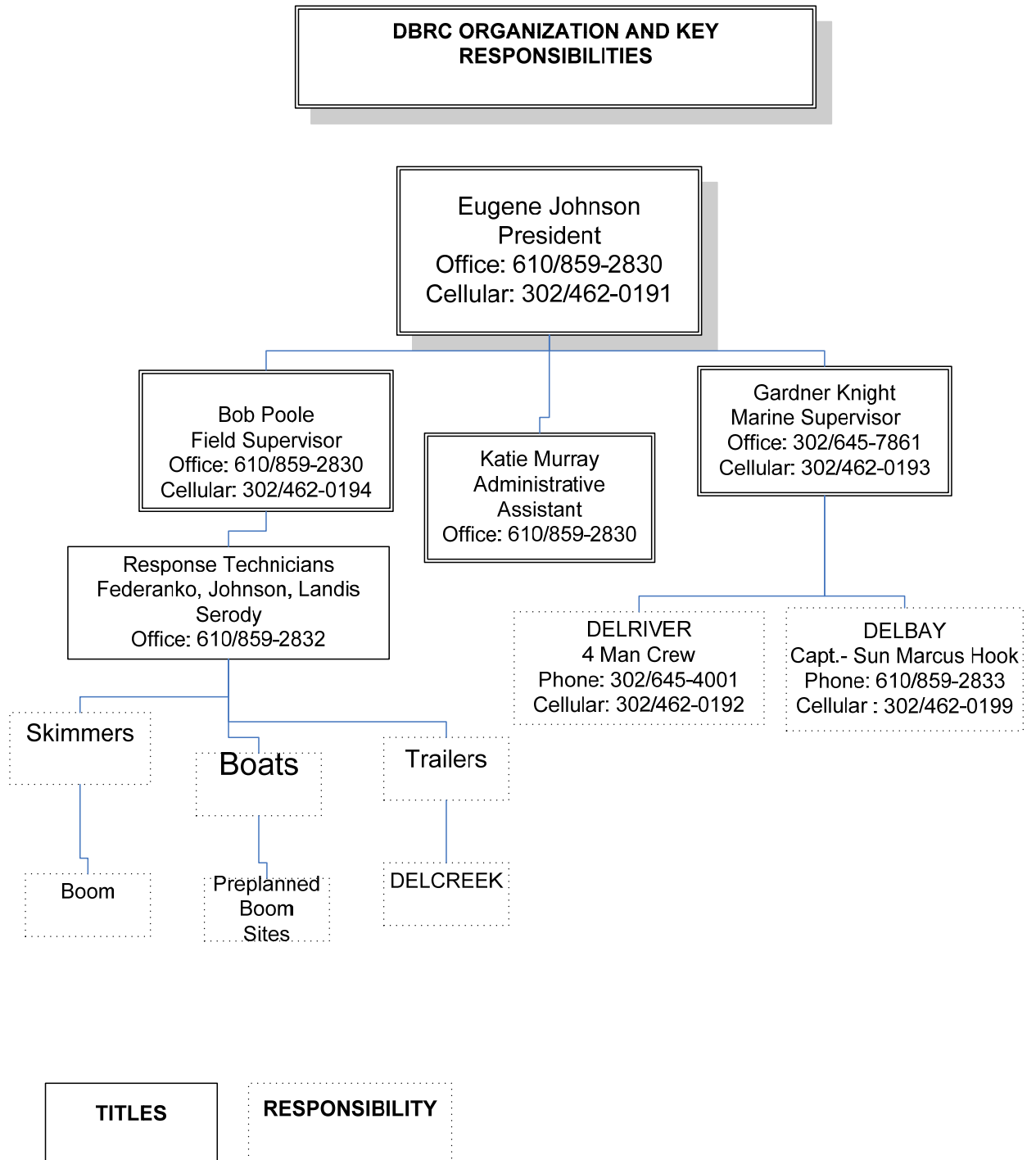
Phone: 302/645-7861
FAX (University line): 302/645-4006
FAX or Phone: 302/645-1565

DBRC Linwood Facility

1650 Hewes Ave.
P.O. Box 1197
Linwood, PA 19061

Phone: 610/859-2830
FAX: 610/859-2834

FIGURE 1-1.



ACTIVATION OF DBRC BY A MEMBER COMPANY

TO ACTIVATE DBRC, THE MEMBER SHOULD COMPLETE THE FOLLOWING:

- Fill out the **Spill Response Questionnaire** (located in Tab 2) as completely as possible. This information may be provided over the telephone; however, verbal information **MUST** be followed by the submission of written notification via the Questionnaire form as soon as possible. The completed and signed form should be faxed to DBRC using the number provided at the bottom of the form (610/859-2834). **ONLY** an **authorized company representative** can sign the Spill Response Questionnaire to activate DBRC. The signature represents an agreement between DBRC and the member to initiate response activities.
- Ensure that the call to activate DBRC is placed by a company representative who is authorized to activate DBRC (this does not apply to notification calls). The President will not act upon calls from **unauthorized** member employees. See Tab 4 for the list of Member Company representatives authorized to activate DBRC.
- Fill out the **Equipment Request Form** (located in Tab 5) as completely as possible to authorize the release and use of specific DBRC equipment and resources. The Equipment Request Form should be completed by using the information on DBRC's available equipment and resources provided in Tab 3 and through discussions with DBRC. Please note that this form does not have to be filled out completely to initiate DBRC response activities; however, **the entire** form should be signed and faxed to DBRC.

Upon activation:

DBRC will immediately mobilize requested DBRC manpower and equipment for spills within DBRC's Area of Interest. This is defined in the DBRC Agreement as the Delaware River, from the Betsy Ross Bridge to the mouth of the Delaware Bay, including the Delaware-Chesapeake Canal. Any spill that is located outside the defined Area of Interest will require Executive Committee approval prior to the release and use of DBRC equipment and resources. When required, the DBRC president will initiate the procedures for Executive Committee approval.

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The President of DBRC will:

- Assist in coordinating activities and communications between the member company's On-Scene Commander, the Coast Guard, and DBRC response resources.
- Keep the Executive Committee fully informed of all significant developments from activation until the member company's On-Scene Commander or an authorized employee releases all DBRC equipment and resources.

ACTIVATION OF DBRC BY SUBSCRIBERS

TO ACTIVATE DBRC, THE SUBSCRIBER SHOULD COMPLETE THE FOLLOWING:

- Confirm that the voyage coverage note was filed 24 hours in advance of the vessel entering DBRC's Area of the incident. Failure to have done so will preclude DBRC from responding to an incident.
- Fill out the **Spill Response Questionnaire** (located in Tab 2) as completely as possible. This information may be provided over the telephone; however, verbal information **MUST** be followed by the submission of written notification via the Questionnaire form as soon as possible. The completed and signed form should be faxed to DBRC using the number provided at the bottom of the form (610/859-2834). The signature represents an agreement between DBRC and the subscriber to initiate DBRC response activities.
- Fill out the **Equipment Request Form** (located in Tab 5) as completely as possible to authorize the release and use of specific DBRC equipment and resources. The Equipment Request Form should be completed by using the information on DBRC's available equipment and resources provided in Tab 3 and through discussions with DBRC. Please note that this form does not have to be filled out completely to initiate DBRC response; however, **the entire** form should be signed and faxed to DBRC.

Upon activation:

DBRC will immediately mobilize requested DBRC manpower and equipment for spills within DBRC's Area of Interest. This is defined in the DBRC Agreement as the Delaware River, from the Betsy Ross Bridge to the mouth of the Delaware Bay, including the Delaware-Chesapeake Canal. Any spill that is located outside the defined Area of Interest will require Executive Committee approval prior to the release and use of DBRC equipment and resources. When required, the DBRC president will initiate the procedures for Executive Committee approval.

The President of DBRC will:

- Assist in coordinating activities and communications between the subscriber's On-Scene Commander, the Coast Guard, and DBRC response resources.
- Keep the Executive Committee fully informed of all significant developments from activation until the subscriber's On-Scene Commander releases all DBRC equipment and resources.

ACTIVATION OF DBRC BY THE UNITED STATES COAST GUARD

The Coast Guard, at its discretion, may request the activation of DBRC and its equipment.

ONLY THE COMMANDING OFFICER, EXECUTIVE OFFICER, AND THE CHIEF OF PORT OPERATIONS OF THE PHILADELPHIA MARINE SAFETY OFFICE ARE AUTHORIZED TO ACTIVATE DBRC. DBRC does not have a Basic Ordering Agreement in place with the Coast Guard. Coast Guard contracting will need to be involved to initiate an incident specific contract with DBRC.

The Coast Guard representative officially requesting DBRC activation should do the following:

- Confirm that the fund is open, and provide the authorization number.
- Fill out, as completely as possible, the **Spill Response Questionnaire** (located in Tab 2) and the **Equipment Request Form** (located in Tab 5). When the Coast Guard elects to activate DBRC equipment and resources on behalf of a non-member company, individual or organization, this becomes the Coast Guard's responsibility. These forms will authorize DBRC to activate its equipment and resources on the Coast Guard's behalf with the Coast Guard assuming fiscal responsibility for all DBRC expenditures.

DBRC will take direction from the Coast Guard and will not work directly for the spiller.

SPILL-SPECIFIC INFORMATION REQUIREMENTS

The Spill Response Questionnaire presented in this Section represents the information needed by DBRC to mobilize effectively equipment and resources for a spill response in a timely manner.

In order to activate DBRC, this form should be filled out as completely as possible, signed and faxed to DBRC using the numbers provided at the bottom of the form. **ONLY an authorized**

member company representative, subscriber or Coast Guard representative can sign the

Spill Response Questionnaire to activate DBRC. The signature represents an agreement

between DBRC and the spiller to deploy DBRC equipment and expend resources on the spiller's behalf.

DBRC will respond to oil spills only. Oil means oil of any kind or in any form, including, but

not limited to, petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than

dredged spoil, but does not include petroleum, including crude oil or any fraction thereof, which

is specifically listed or designated as a hazardous substance under subparagraphs (A) through (F)

Act (42 U.S.C. 9601) and which is subject to the provisions of that Act.

It is the responsibility of the spiller to prepare a site safety plan. For reference, Table 2-1

provides information on pour point, specific gravity, API gravity, vapor pressure, viscosity,

sulfur content, and benzene content of crude oils commonly transported through the Delaware

Bay and River. [Click here](#) to go to a form version of the questionnaire that can be saved.

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SPILL RESPONSE QUESTIONNAIRE

DBRC Authorization Information

1. Date (mm/dd/yy): ___/___/___
2. Time (24 hr.): _____
3. Member Company or Subscriber Name: _____
4. Name of Authorized Representative Making Request: _____
5. Representative's Phone Number: ___/___/___
6. Representative's FAX Number: ___/___/___
7. Name of Person in Charge of Spill Respons: _____
8. **CALL BACK PHONE NUMBER:** ___/___/___
9. Facility/Vessel Involved: _____

Incident Information

11. Location of Spill (Latitude/Longitude) ___ ___ ___ / ___ ___ ___
12. Location Description: _____

13. Size of Spill (circle one): Small(50 bbls or less) Medium (50 – 1000bbls) Large (>1000 bbls)
14. Product Spilled: _____
15. Unusual Safety Considerations?: _____

16. Authorizing Signature: _____
17. Printed Name: _____

Submit this form to DBRC

Fax to: 610/859-2834 CALL 302-645-7861 FOR NOTIFICATION

Verbal notification must be followed up with the completion of this form as soon as possible

Table 2-1: Important Physical Characteristics of Crude Oils Commonly Transported in the Delaware Bay and River.

Crude Oil	Specific Gravity	API Gravity	Reed Vapor Pressure	Viscosity	Pour Point	Sulfur % wt	Benzene % wt	Comments
Alaska N. Slope	0.8944	26.8	3.6	28.9 CST @70F	5F	1.22	N/A	
Arab Ex Lt-Berri	0.8352	38.0	4.0	5.8 CST @70F	(-25F)	1.20	ND	
Arab Heavy	0.8871	28.0	7.5	37.0 CST @70F	(-20F)	2.85	0.04% VOL	
Arab Light	0.8575	32.6	3.6	10.2 CST @70F	(-30F)	1.80	0.11	
Arab Medium	0.8696	31.3	8.3	19.4 CST @70F	(-20F)	2.50	N/A	
Arabian Extra Light	0.8408	36.8	4.3	38.4 SSU @70F	5F	NIL	0.12	
Arabian Heavy	0.8899	27.5	6.6	106.0 SSU @122F	(-20F)		0.03	H2S-TRACE
Arabian Light	0.8602	33.0	4.5	51.9 SSU @100F	(- 4F)	NIL	0.13	
Arabian Light	0.8575	33.4	3.6	10.2 CST @70F	(-30F)	1.79	0.12	
Arabian Medium	0.8735	30.5	6.2	63.1 SSU @122F	(- 4F)	NIL	0.07	
Arabian Medium	0.8712	30.8	3.2	16.2 CST @70F	5F	2.40		KHURSANIYAH
Bacherquero	0.9535	17.0	1.6	1032.0 CST @70F	(-10F)	2.40	0	
Basrah Heavy	0.9052	24.9	3.0	50.0 CST @70F	(-22F)	3.50	N/A	
Basrah Light	0.8559	33.9	ND	10.6 CST @70F	5F	1.95	N/A	
Bonny Light	0.8534	34.3	5.3	3.6 CST @104F	50F	0.11	0.14% VOL	NIGERIA
Bonny Light	0.8477	35.3	6.9	5.6 CST @70F	27F	0.11	0.16	NIGERIA
Bonny Light	0.8461	35.7	ND	38.0 SUS @100F	27F	0.13		NIGERIA
Bonny Medium	0.9024	25.2	3.1	17.8 CST @70F	(-17F)	0.23	0.16	NIGERIA
Bonny Medium	0.9047	24.9	ND	62.0 SUS @100	(-33F)	0.23		NIGERIA
Boscan	0.9965	10.5	1.6	1992.0 SSU @122F	70F	6.24		
Brass River	0.8104	43.2	ND	ND	21F	0.07		NIGERIA
Brent	0.8329	38.4	ND	39.0 SUS @100	42F	0.36		NORTH SEA
Brent Blend	0.8313	38.6	9.5	5.7 CST @70F	20F	0.34	0.16	H2S-0.0001WT%
Cabinda	0.8654	32.0	4.0	14.1 CST @104F	65F	0.13		ANGOLA
Cabinda/Takula	0.8633	32.4	ND	74.0 SUS @100F	59F	0.12		ANGOLA
Cano Limon	0.8788	29.4	1.0	26.5 CST @70F	ND	0.45		COLUMBIA
Cano Limon	0.8794	29.4	ND	74.0 SUS @100F	0F	0.53		COLUMBIA
Escalante	0.9141	23.3	ND	1680.0 SUS @100	32F	0.16		ARGENTINA
Escravos	0.8439	36.2	ND	3.5 CST @104F	45F	0.14		NIGERIA
Escravos	0.8422	36.4	4.0	5.6 CST @70F	40F	0.14	0.16	NIGERIA
Escravos	0.8473	35.5	ND	39.0 SUS @100	21F	0.15		NIGERIA
Felda	0.9024	25.3	5.9	86.0 SSU @122F	(-15F)	NIL	ND	

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Table 2-1 Cont'd: Important Physical Characteristics of Crude Oils Commonly Transported in the Delaware Bay and River.

Crude Oil	Specific Gravity	API Gravity	Reed Vapor Pressure	Viscosity	Pour Point	Sulfur % wt	Benzene % wt	Comments
Forcados	0.8789	29.5	3.5	6.7CST@104F	15F	0.18		DK, GRN BROWN
Forcados	0.8772	29.7	5.9	8.0CST@70F	(- 4F)	0.29	0.16	NIGERIA
Forcados	0.8789	29.5	ND	47.0SUS@100	21F	0.19		NIGERIA
Isthmus	0.8606	32.8	6.4	11.0CST@70F	(-15F)	1.51	0.12	H2S-102PPM-WT
Isthmus	0.8606	33.0	6.4	11.8CST@70F	(-15F)	1.50	0.12% VOL	
Lagomedio	0.8675	31.7	5.3	18.1 CST @70F	(-15F)	1.17	N/A	
Leona	0.9087	24.1	3.7	75.3 CST @70F	(-20F)	1.72		
Lucina	0.8309	38.8	4.6	4.8 CST @104F	65F	0.06		
Mandji Blend	0.8780	30.1	ND	33.7 CST @70F	48F	1.11	0.06	
Maya	0.9212	22.0	4.7	223.0 CST @70F	(-25F)	3.56	0.08	H2S-199PPM-WT
Maya	0.9212	22.2	4.7	223.0 CST @70F	(-25F)	3.56	0.10% VOL	
Menemota	0.9352	19.8	1.7	210.0 SSU @130F	(-10F)		0.06	H2S -TRACE
Merrey-16	0.9574	16.3	0.7	333.5 CST @104F	(-15F)	NIL	0.06	
Merrey-18	0.9459	18.1	1.2	122.0 SSU @180F	0F		0.11	
Mesa	0.8606	32.8	5.0	14.2 CST @70F	5F	0.69		
Oriente	0.8795	29.2	3.7	19.9 CST @70F	25F	1.01		H2S- 10PPM-WT
Palanca	0.8304	38.9	9.3	3.6 CST @104F	20F	0.14	0.16% VOL	ANGOLA
Palanca	0.8238	40.1	6.2	6.1 CST @70F	27F	0.11	0.16	ANGOLA
Palanca	0.8285	39.3	ND	39.3 SUS @100	5F	0.14		ANGOLA
Pennington	0.8439	36.2	5.1	3.0 CST @104F	20F	0.07		NIGERIA
Pennington	0.8412	36.6	5.1	3.7 CST @100F	43F	0.07	0.16	NIGERIA
Pennington	0.8454	35.8	ND	3.3 SU S@100	37F	0.08		NIGERIA
Pilon	0.9820	12.6	1.6	213.0 SSU @122F	5F	NIL	0.02	
Qua Iboe	0.8453	35.9	6.0	3.3 CST @104F	55F	0.12		NIGERIA
Qua Iboe	0.8452	35.8	6.0	5.6 CST @70F	45F	0.12	0.16	NIGERIA
Qua Iboe	0.8393	37.1	ND	37.0 SUS @100	48F	0.11		NIGERIA
Rabi	0.8534	34.3	3.8	16.9 CST @104F	85F	0.05		GABON
Rabi-Kounga	0.8529	34.4	ND	75.0 SUS @100	91F	0.07		GABON
Ras Gharib	0.9082	24.3	2.8	221.0 SSU @122F	40F		0.18	5.0PTB
Soya	0.8333	38.3	ND	44.0 SUS @100	64F	0.13		ANGOLA
Takula	0.8629	32.5	7.3	13.9 CST @104F	50F	0.11		
Zaire	0.8697	31.2	3.8	19.4 CST @104F	70F	0.11		ZAIRE
Zaire	0.8751	30.2	ND	65.0 SUS @100	75F	0.14		ZAIRE

DBRC EQUIPMENT, RESOURCES AND CAPABILITIES

Listed in this section is DBRC oil spill equipment available at numerous locations in the Delaware Bay and River.

Available DBRC equipment is divided into the following categories in this section:

SPILL RECOVERY VESSELS	p. 3-2
SUPPORT VESSELS	p. 3-5
SPILL RECOVERY EQUIPMENT	p. 3-10
SPILL CONTAINMENT EQUIPMENT	p. 3-15
COMMUNICATION EQUIPMENT	p. 3-19
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ADDITIONAL EQUIPMENT	p. 3-24

SPILL RECOVERY VESSELS

Table 3-1. DBRC Oil Spill Recovery Vessel Profiles

Vessel	Draft (light)	Recovered liquid storage capacity (bbl)	Rated skimming capacity (bbl/day)	De-rated skimming capacity (bbl/day)	Location	Response time to Big Stone Anchorage area	Response time to Delaware City area	Response time to Upriver areas (Marcus Hook and above)
DELRIVER	7.5'	3,010	68,760	13,752	Lewes	45 min	4 hrs	within 12 hrs
DELBAY	5'	238	63,600	13,714	Marcus Hook	10 hrs	4 hrs	2 hrs
DELCREEK	4' 8"	35	39,696	6,857	Philadelphia		8 hrs	4 hrs
Lori Bow Collector (LBC-3) (4 ea.)			18,576 ea.	3,715 ea.				
2 on Schat Workboats	2'	5			1-Linwood 1-Delaware City	4 hrs 4 hrs	4 hrs 2 hrs	2 hrs 4 hrs
2 for Eagle Barges on semi @ Linwood	1'	230			Eagle Barges 1-Linwood 1-Delaware City 1-Slaughter Beach	4 hrs	3 hrs	3 hrs

The DELRIVER



The largest member of the DBRC fleet is a converted offshore supply vessel. This 425-ton multi-purpose vessel measures 166 feet in length. It can provide an on-board command center and a variety of equipment including skimming equipment and boom. The DELRIVER has 2,000 horsepower with a normal speed of 12 knots, a 60,000-gallon fuel capacity and a 126,420-gallon (3,010 bbl) recovered oil capacity. The vessel has built in LORI 5 brush skimming systems on both sides in addition to a GT-185 skimming system. A single RO-Boom Skimming System with a derated capacity of 3,017 bbl/day is stored on board the DELRIVER. This could be used in lieu of a LORI Brush System if a particular spill indicated that this might be a better system to use.. The DELRIVER has the capability of deploying 3,600 feet of Expandi 43-inch boom and 1,000 feet of air inflatable Oil Stop 56" Deep Sea Boom from reels on the vessel. The vessel is equipped with two (2) Zodiac 25 ft. rigid hull inflatable boats with twin 115 horsepower outboards for handling boom. The DELRIVER is berthed in Lewes, with a permanent four man crew on duty 24 hours a day, 7 days a week.

The DELBAY



The 68-foot, 100-ton oil skimming vessel has two (2) 250 horsepower engines with a maximum speed of 9 knots, a 1,000 gallon fuel capacity and a 10,000 gallon (238 bbl) storage capacity. The vessel uses the Dynamic Inclined Plane (DIP) system of spill recovery. The bow of the vessel opens up and two sweeps extend, funneling the oil onto a moving belt. The DELBAY is berthed at Sun Marcus Hook. The DELBAY has an operator on duty 24 hours a day, 7 days a week and a deck hand available within 1 hour.

The DELCREEK



The DELCREEK is a 30-foot self propelled skimmer with a maximum speed of 4 knots. The DELCREEK also uses the DIP skimming system. The DELCREEK is propelled by a 75 horsepower diesel engine and has a storage capacity of 1,500 gallons (35 bbl). The DELCREEK is dry stored on the Schuylkill River at Vane Brothers City Dock. This unit is for use in protected waters.

LORI BOW COLLECTOR UNITS



DBRC has four LORI (LBC-3) bow mounting skimming systems. The skimmer is a chain driven brush skimmer rated for use in protected waters. Two (2) of DBRC's Schat work boats are capable of mounting 2 of these units with an approximate skimming width of 16 ft. in the advancing mode. The units on the Schats are at DBRC's Linwood facility and in Delaware City. Portable tanks provide storage for these units. Two LORI units mount on American Eagle Aluminum Barge units and the units are stored at Linwood. The skimming width with the barge units will be determined by the amount of boom used for the V-configuration. With 500 ft. lengths on each of the V legs, the skimming width is approximately 275 ft. The LORI units on the Schats can be switched to American Eagle Aluminum Barge units and deployment during a spill will depend on the situation.

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SUPPORT VESSELS

Table 3-2. DBRC Support Vessel Profiles

Vessel	Length	Draft (light)	Location (Quantity)
Pontoon Boat	25 ft	2 ft	Paulsboro (1)
Thomas Marine Al. Push Boat	27 ft	2 ft	DBRC's Linwood Facility (1)
RHI (Zodiac)	21 ft	2 ft	DBRC's Linwood Facility (1)
Jon Boat	16 ft	1 ft	DBRC's Linwood Facility (1)
Jon Boat	20 ft	1 ft	DBRC's Linwood Facility (1)
Schat Sea Responder	34 ft	2 ft	DBRC's Linwood Facility (1), Slaughter Beach (2), Delaware City (1)
American Eagle Aluminum Barge 40 ft. X 16 ft X 4 ft – (230 BBL capacity)	40 ft	1 ft	DBRC's Linwood Facility (1), Slaughter Beach (1), Delaware City (1)
Monark Workboat	28 ft	3 ft	Paulsboro, NJ (1)
Steel Crane/Spud Barge	36 ft	1 ft	Delaware City, DE (1)

Pontoon Boat



DBRC has one (1) Mon-Ark 25 by 14-foot pontoon boats powered by twin 150 horsepower outboard engines. It is designed for deployment and retrieval of boom and can carry approximately 800 feet of boom. The pontoon boat is located at the Valero Refinery in Paulsboro and the primary use is booming of Mantua Creek and it has 800 feet of boom stored on board. Gross weight is 10,000 lbs.

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Thomas Marine Aluminum Push Boat



DBRC has one (1) Thomas Marine 27' Aluminum workboat which is powered by a 200 horsepower diesel engine with a single counter-rotating propeller. This boat is a utility vessel that may be used with the American Eagle units, for towing boom or for logistics support. The boat is stored on a trailer at the Linwood Facility. Gross weight is 7,500 lbs.

Rigid Hull Inflatable (Zodiac)



DBRC has one (1) 21-foot Zodiac 640 OB. This is a versatile, fast boat with dual 90 horsepower outboard engines. It is primarily used to survey the spill area. The boat is stored on a trailer at DBRC's Linwood Facility for rapid mobilization to various locations. Gross weight is 5,000 lbs.

Jon Boat



DBRC has two (2) Jon boats. The 16-foot Jon boat is equipped with a 30 HP outboard. The 20-foot Jon boat is equipped with a 90 HP outboard. These are wide beam shallow draft boats and can be used to beach equipment, install anchors, etc. They are stored on trailers at the Linwood Facility. Gross weights are: 500 lbs. For 16-ft. and 1,680 lbs for the 20-ft.

Schat Sea Responders



DBRC has four (4) Schat 34-foot Sea Responder fiberglass boats powered by twin 115 horsepower outboard engines. The operating draft is approximately 2 feet and the boats have 100 gallons of fuel capacity. Three of the boats are equipped to mount the LORI skimmers or push knees to be used with the American Eagle Aluminum Barges. The boats can carry approximately 1200 feet of boom at a speed of about 20 knots. Two are fitted with a drop bow ramp and towing bit. One (1) boat is located at DBRC's Linwood Facility, one (1) at Delaware City, and two (2) are at Slaughter Beach. All are mounted on trailers for rapid mobilization to various locations. Gross weight with LORI skimmer is 15,000 lbs. and 13,500 lbs without.

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American Eagle Aluminum Barges



DBRC has three (3) American Eagle Aluminum Barge units consisting of two aluminum barges that can be hauled on a flat bed truck, 2 barges per truck; 13' 6" overhead clearance is required. The barges measure approximately 40 feet in length, 8 feet in width, and are 3' 9" high. They are designed such that two (2) will fit together to form a 40 x 16 ft. work platform with skimming outriggers both port and starboard. Each barge has a 115 barrel storage capacity. The decks are reinforced to accommodate skimming equipment such as the Trans-Vac or DESMI (see page 3-6). The units are fitted to mount Lori Bow Collector units on the stern. One (1) unit is located in Slaughter Beach, one (1) in Delaware City, and one (1) at DBRC's Linwood Facility. Gross weight per barge is 6,500 lbs.

Monark 28 ft. Workboat



DBRC has one (1) 28 feet Monark aluminum workboat is powered by twin 136 HP Detroit Diesel 4-53 engines. It is equipped with a 120/240 volt generator and light poles. This is a utility boat that may be used with the American Eagle Aluminum barge units, for towing boom, or for logistics support. The cabin is heated and will seat 6 persons. The boat is stored on a boat davit at the Valero Refinery in Paulsboro, NJ. The gross weight is: 12,000 lbs. approximately.

Revised 3/31/2006

Steel Spud/Crane Barge



DBRC has a steel crane spud barge measuring 36' x 16' x 4' with a draft of approximately 1ft. The crane has a maximum lift of 7,000 lbs and minimum lift of 3,450 lbs. The crane is hydraulic and is supplied by a diesel hydraulic power unit. The hydraulic unit also powers a 500 gal/min wash down pump. The crane has two spuds that are worked hydraulically and are capable of operating in water depths upto 20 ft. The barge is moored at the Valero Delaware City Refinery from March to December and is dry stored on land during the ice season. The gross weight of the barge is 40,000 lbs.

SPILL RECOVERY EQUIPMENT

Table 3-3. DBRC Recovery Equipment Capacities

Skimmer	Rated skimming capacity	De-rated skimming capacity
DESMI (1)	15,085 bbl/day	3,017 bbl/day
Trans-Vac (1)	17,145 bbl/day	3,429 bbl/day
Walosep WM (1)	1,680 bbl/day	336 bbl/day
Komara 12K (2)	2,712bbl/day	542 bbl/day
Lori Mini Skimmer LMS-20 (3)	4,025 bbl/day	805 bbl/day
D.E. Skim-Pak (2)	10,285 bbl/day	2,057 bbl/day

DESMI



The DESMI Ocean Skimmer is a floating weir skimmer rated for open water operation in water depths of 5' or more. The skimmer pump can be converted from a skimmer system and used for a wide range of emergency and auxiliary pumping operations, such as emergency off-loading of heavy crude, emulsions, etc. The DESMI is stored on a trailer at DBRC's Linwood Facility. Gross weight is 10,000 lbs.

Trans-Vac



The Trans-Vac 500D is an oil recovery unit that combines the air handling capacity of a vacuum pump and the high transfer capability of a positive displacement pump. The Trans-Vac uses the vacuum created by a high capacity pump to recover and transfer oil into a receiving tank on the unit. The system is equipped with hoses and skimmer heads which allow the unit to skim oil in as little as 6" of water. The Trans-Vac will handle all types of oils and can be operated in remote "hard to get at" shoreline areas. DBRC can deliver the Trans-Vac on a trailer from DBRC's Linwood Facility or by water on an American Eagle Aluminum barge unit. Gross weight is 15,000 lbs complete, 7,000 lbs vacuum unit only.

Walosep WM Skimmer



The Walosep WM Skimmer is a smaller weir skimmer for use in shallow waters and around docks with a water depth of 2' or more. This unit can operate in waves up to 4 ft. It is a lightweight unit and can be easily handled by two (2) people. The Walosep is stored in the DBRC Small Skimmer Trailer (BT-9401), along with the Lori drum brush skimmers (3), 2 manta ray heads, a Komara 12K disk skimmer and a Douglas Skim Pak, at DBRC's Linwood Facility. The dry weight of the skimming unit is 210 lbs.

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Komara 12K MRK2 Disk Skimmer



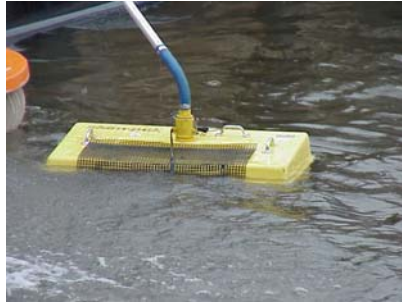
The Komara 12K MRK2 is an oleophilic disk skimmer designed for use in protected waters. The skimmer is used in a stationary mode and has a maximum draft of 9.6 inches. The skimmer works best on oil types I and II. One skimmer is stored as a complete unit with all required equipment for sustained operation in trailer BT-9801 at the Valero Refinery in Paulsboro. The other skimmer is stored in the DBRC Small Skimmer Trailer (BT-9401) at DBRC's Linwood, PA Facility. The dry weight of the skimming unit is 123 lbs.

Lori Mini Skimmer LMS-20



The Lori Mini Skimmer is a drum brush skimmer that works well in a wide range of oils. The unit is made of marine grade aluminum and is easily handled by one person. It is powered by a hydraulic power pack and has a 3" quick connect fitting for attaching a vacuum hose. When in operation this unit has a draft of less than 6 inches. It is ideal for use in protected waters and especially in very shallow waters. All three are stored in the DBRC Small Skimmer Trailer (BT-9401) at DBRC's Linwood Facility.

D. E. Skim-Paks



The model 18000 Douglas Engineering Skim-Pak skimmer is a high volume skimmer. The units use floating skimmer heads which allow for operation in 6" of water or more. DBRC has two (2) packaged units with diesel trash pumps. One is stored in DBRC's Small Skimmer Trailer (BT-9401) at DBRC's Linwood Facility. The other unit is stored at Delaware City in a container. The container gross weight is 600 lbs. and will fit in an 8 ft pickup bed.

Vacuum hose skimmer heads:

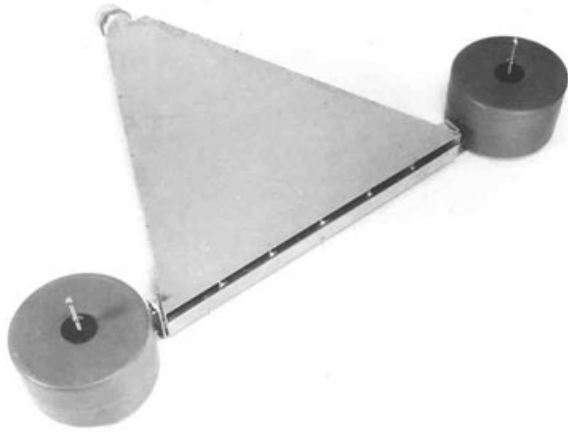


Manatee Skim Head



Slurp Skim Head

The Manatee skim head weighs 76 lbs. and has a 3" male quick coupling hose connection. The Slurp skim head weighs 36 lbs. and has a 3" male quick coupling hose connection. Both are stored in trailer BT-9801 at the Valero Refinery in Paulsboro, NJ.



Slickbar High Capacity skim head



Manta Ray skim head

The Slickbar high capacity skim head weighs 76 lbs. and has a 3” male quick coupling hose connection and is stored with the TransVac. The Manta Ray skim head weighs 58 lbs. and has a 3” male quick coupling hose connection. DBRC has 2 that are stored in the DBRC Small Skimmer Trailer (BT-9401) at DBRC’s Linwood Facility.

SPILL CONTAINMENT EQUIPMENT

Boom

Over 104,000 feet of spill boom is located at various storage sites throughout the Delaware Bay and River area (see Table 3-4). The quantity of boom available is less than the total inventory because certain boom has been reserved for use at upriver preplanned boom sites. Depending on the location and size of the spill, however, some additional boom may be available. DBRC has thirty (30) small spill boom transport trailers and six (9) semi-trailers for land transportation of spill boom (see Table 3-5).

Table 3-4. DBRC Boom Inventory

Oil Containment Boom	Total Inventory	Feet Available	Status
Expandi 4300 20" flotation x 23" draft	3,600	3,600	Located on the DELRIVER and deployed by DELRIVER personnel.
Oil Stop Deep Sea Air-Filled Boom 20" flotation x 36" draft	1,000	1,000	Located on the DELRIVER and deployed by DELRIVER personnel.
AB&B or American Marine 9" flotation x 18" draft	11,200	10,000	Can deliver boom to specified site as requested. No provisions for deployment.
Bottom Seal Boom : Shore Guardian 8" flotation x 12" draft	2,050	7,700	Can deliver boom to specified site as requested. No provisions for deployment.
Texas STXB 20 8" flotation x 12" draft	5,700		
American Marine or Oil Stop 6" flotation x 6" draft	60,100	3,000	Can deliver boom to specified site as requested. No provisions for deployment.
Oil Stop 6" flotation x 12" draft	20,800	20,800	Can deliver boom to specified site as requested. No provisions for deployment.

Table 3-5. Boom Transport Trailers

Trailer Number	Location	Type and Quantity of Stored Boom	Protective Boom Site
BT-8701	Citgo Petty Island	1500 ft. Oil Stop (6x6)	Cooper R.
BT-9115	Citgo Petty Island	1300 ft. Oil Stop (6x6)	Cooper R.
BT-9106	Linwood	800 ft. Oil Stop (6x6)	Newton Cr.
BT-9114	Sunoco Eagle Point	1400 ft. Oil Stop (6x6)	Big Timber Cr.
BT-9117	Sunoco Eagle Point	1400 ft. Oil Stop (6x6)	Big Timber Cr.
BT-9104	Miller Envir. Group	1500 ft. Oil Stop (6x6)	Woodbury Cr.
BT-9110	Miller Envir. Group	1500 ft. Oil Stop (6x6)	Woodbury Cr.
P. Boat	Valero Refinery Paulsboro	800 ft. American Marine (6x6) on Pontoon Boat	Mantua Cr.
BT-8902	Exelon Eddystone	1200 ft. American Marine (6x6)	Darby Cr.
BT-9105	Exelon Eddystone	1400 ft. American Marine (6x6)	Darby Cr.
BT-9503	Exelon Eddystone	2000 ft. Oil Stop (6x6)	Crum, Ridley, & Chester Cr.
BT-9102	DBRC Linwood Facility	1500 ft. Oil Stop (6x6)	Old Canal & Aunt Deb's Ditch
BT-9101	Conoco/Phillips	2200 ft. Oil Stop (6x6)	Raccoon Cr.
BT-9109	Conoco/Phillips	1300 ft. Oil Stop (6x6)	Raccoon Cr.
BT-9107	DBRC Linwood Facility	1600 ft. Oil Stop (6x6)	Oldmans Cr.
BT-9108	DBRC Linwood Facility	1600 ft. Oil Stop (6x6)	Oldmans Cr.
BT-9116	Sunoco Marcus Hook	1600 ft. Oil Stop (6x6)	Naamans Cr.
BT-9118	Conectiv – Edgemoor	1000 ft. Oil Stop (6x6)	Shellpot Cr.
BT-9113	DBRC Linwood Facility	1700 ft. Oil Stop (6x6)	Christina R.
BT-9116	DBRC Linwood Facility	1600 ft. Oil Stop (6x6)	Christina R.
SV-8002	DBRC Linwood Facility	7000 ft. Oil Stop (6x12)/ 500 ft. Bottom Seal	New Castle - Battery Park
SC-3	Valero Refinery DE City	5000 ft. American Marine (6x6)	Pea Patch Is.
SC-4	Valero Refinery DE City	6800 ft. Oil Stop (6x6)	Pea Patch Is.
BT-8603	DBRC Lewes	500 ft. various (6x6)	
BT-8602	DBRC Linwood Facility	1000 ft. AB&B UN	V-Boom
SV-6201	DBRC Linwood Facility	3700 ft. Oil Stop (6x12)	
SV-6501	DBRC Linwood Facility	6700 ft Bottom Seal Boom	
SV-7902	DBRC Linwood Facility	7200 ft. Oil Stop (6x12)	
SV-8901	DBRC Linwood Facility	9000 ft. Oil Stop (6x6)	
SV-8902	DBRC Linwood Facility	9800 ft. American Marine (6x6)	
SV-8003	Slaughter Beach, DE	6400 American Marine (9x18) QC	
BT-9103	Sunoco Marcus Hook	1700 ft. Oil Stop (6x12)	AMPD Coverage
BT-9112	Sunoco Marcus Hook	1200 ft. Oil Stop (6x12)	AMPD Coverage
SV-8001	Vane City Dock	3200 American Marine (9x18) QC/ 500 ft. Bottom Seal	Schuylkill R.



Upriver Pre-Planned Boom Sites

DBRC has established pre-planned booming sites to protect environmentally sensitive areas in the upper Delaware River. These locations are listed below in Table 3-6. Dedicated boom and ancillary equipment are located near the designated sites. During emergencies, the spiller in consultation with DBRC should select designated sites by completing the **Equipment Request Form** located in Tab 5 of this manual.

Table 3-6. Designation of Pre-Planned Boom Sites and Emergency Deployment Personnel.

SITE	Deployment By
Cooper River	DBRC Contractor
Newton Creek	DBRC Contractor
Big Timber Creek	Sunoco Eagle Point
Woodbury Creek	DBRC Contractor
Mantua Creek	Valero Refinery Paulsboro
Aunt Debs Ditch	DBRC Contractor
Old Canal	DBRC Contractor
Raccoon Creek	ConocoPhillips
Oldmans Creek	Sunoco Marcus Hook Refinery
Darby Creek	Sunoco Philadelphia Refinery
Crum Creek	DBRC Contractor
Ridley Creek	DBRC Contractor
Chester Creek	DBRC Contractor
Naaman's Creek	Sunoco Marcus Hook Refinery
Shellpot Creek	DBRC Contractor
Christina River	DBRC Contractor
New Castle	DBRC Contractor
Pea Patch Island	Valero Delaware City Refinery

NOTE: DBRC will first contact the member company (where designated), and then a DBRC Contractor if the Member company cannot do the deployment.

COMMUNICATION EQUIPMENT

An effective communication system is critical in the management and control of day-to-day operations and during emergency response situations. A communication system is used to direct personnel, vessels, aircraft and vehicles and to receive information regarding status, surveillance, logistical needs or other emergency requirements.

It is essential to have a command and control point from which to direct communications. This may be from a fixed base or a mobile base station. The fixed base or mobile command units must have multiple communication capabilities - i.e., a frequency range covering VHF-FM and marine channels, cellular phone service, regular landline phone service and digital phone pager service.

DBRC has an established communications network that links DBRC personnel and its major resources to a spiller's On Site Coordinator (OSC) and response personnel during spill response activities (Figure 3-1). The system is comprised of three (3) repeater stations located in Bethel, PA; Westville, NJ (Sunoco Eagle Point) and Lewes, DE. This network is utilized for important response activity communications using DBRC's portable base station, hand-held portables, or mobile radios.

All DBRC communications are transmitted and received on FCC licensed VHF spill response channels, 1 or 2, depending on the user's location. All three (3) repeaters transmit on the same frequency. The Sunoco Eagle Point and the Lewes repeaters both receive on the same frequency since the areas of reception for the two repeaters do not overlap. The Bethel, PA repeater covers the largest area due to its elevation and receives on a different frequency.

Channels 1 (Sunoco Eagle Point or Lewes repeater) and 2 (Bethel repeater) are restricted to the transmission of critical information related to spill response activities. Channel 3 is a talk-around channel that allows radio users to monitor network communications and to transmit and receive local communications. To transmit a message on the network, the user must switch to channel 1 or 2 according to where the user is located. Channel 4 is for communications with either a NRC or MSRC repeater in the event either organization sets up a repeater during a spill. DBRC has coordinated the use of the oil spill response frequencies with these organizations to provide the best communications possible during a spill. Channel 5 is a talk around channel that will monitor the NRC/MSRC network. Channel 6 is a chatter channel for local off network communications.

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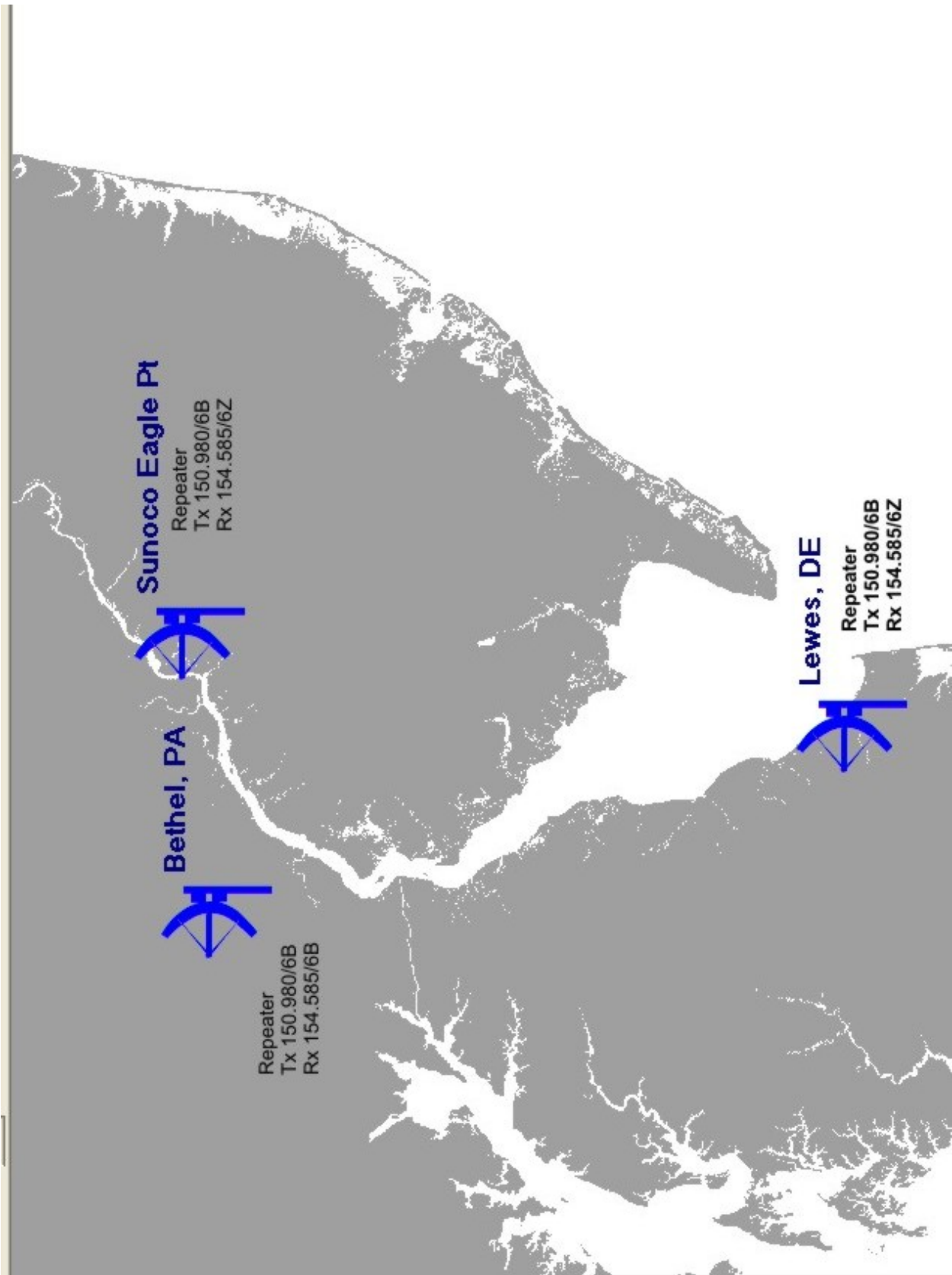


Figure 3-1 DBRC Radio Communication System

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Base Stations

DBRC has fixed base stations located at the Lewes office and the Linwood Facility.

Portable Base Station

One (1) mobile base station is contained in a portable trunk at DBRC's Linwood Facility. The radio is 25 watts and provides full channel coverage. The radio may be operated on either 115-volt AC or 12-volt DC. A small magnetic whip antenna or 200 feet of RG213 cable and a 8 ft. antenna with a tripod base are available.

Hand-Held Portable Radios

Forty (40) hand-held portable radios are available to the spiller for use during a spill. These are 3 or 5 watt units and provide full channel coverage. Two of the radios are set up for use in helicopters.

Mobile Radios

All DBRC vehicles and boats are equipped with 25 watt mobile radios.

Table 3-7: Channels and Frequencies of DBRC Hand Held Radios

Channel	Function	Transmit	Receive
Channel 1	Network Communications from Philadelphia/Lewes areas	154.585/6Z	150.9800/6B
Channel 2	Network Communications from Bethel area (mid-Bay)	154.585/6B	150.9800/6B
Channel 3	DBRC Net Monitor	150.9800/6B	150.9800/6B
Channel 4	NRC/MSRC Repeater	158.445/1A	159.480/1A
Channel 5	NRC/MSRC Net Monitor	159.480/1A	159.480/1A
Channel 6	Chatter	159.480/6B	159.480/6B

Weather and marine channels are also programmed in the hand held radios

DBRC Phone and FAX Numbers

Phone numbers that serve as both telephone and FAX lines will detect incoming calls and switch automatically to the appropriate device. However, these dual lines will only detect FAX numbers dialed automatically by the FAX machine. Voice-assisted FAX machines must use the Lewes Facilities's dedicated FAX, the University line.

DBRC Lewes Facility	Phone: 302/645-7861 or 215/563-8142 FAX (University line): 302/645-4006 FAX or Phone: 215/563-8144
DBRC Linwood Facility	Phone: 610/859-2830,2831 or 2832 FAX: 610/859-2834

DBRC Cellular Phones

DBRC has Nextel cellular phones which are carried by the following personnel at all times.

President	Eugene Johnson	302-462-0191
Field Supervisor	Bob Poole	302-462-0194 Nextel 302-822-1662 Pager
Marine Supervisor	Gardner Knight	302-462-0193

DISPERSANT APPLICATION EQUIPMENT

DBRC dispersant application equipment includes the following:

Dispersant

DBRC stores thirty (30) 55 gallon drums of Corexit 9527 at the Delaware Bay Launch Service in Slaughter Beach, DE.

Sea Spray II portable dispersant spraying unit

The unit can be mounted on Delaware Bay Launch Service boats or other vessels of opportunity for water dispersant application and is located at Slaughter Beach, DE.

Due to the short window of time in which dispersants can be used after an oil spill, it is recommended that the spiller begin to mobilize the necessary equipment for dispersant application while approval from the U.S. Coast Guard is pending.

Any use of dispersants related to oil spills must be approved by the Coast Guard On-Scene Coordinator (OSC) and other federal and state agencies. This applies to "pre-approved" areas as well as to areas where no pre-approval has been granted. Refer to the Sector Delaware Bay Area Contingency Plan to obtain guidance on policies and protocols for dispersant use in the Delaware Bay. When proper approval to activate DBRC dispersant equipment has been obtained from the Coast Guard OSC, the spiller's OSC will notify the DBRC President, who will then direct operation of the equipment.

It is strongly suggested that all spillers include in their Contingency Plans a provision for obtaining larger quantities of dispersant for application from aircraft. DBRC inventory and equipment is primarily intended for smaller spills and for test application in larger spills.

ADDITIONAL EQUIPMENT

Portable Tanks for Recovered Fluid Storage

Five (5) ILC 400 gallon portable Ziptanks.

One (1) 2,500 gallon Fasttank.

One (1) 2,500 gallon Texatank.

DBRC has a letter of commitment with Baker Tanks, Swedsboro, NJ to provide portable tanks in various sizes to a spill site within 12 hours.

Anchor systems

Four 5' x 8' containers with a gross weight of 700 lbs each containing 12 complete anchor systems are available. Two (2) are stored at DBRC's Linwood Facility and (2) are stored at Delaware City. Two deep water boxes containing 6 complete anchor systems are available and are stored at DBRC's Linwood Facility.

Handheld IR Camera Unit

DBRC has a Raytheon handheld Nightsight InfraRed camera which can be used to find oil on the water at night from the air. The unit is stored at DBRC's Linwood Facility along with a portable 8mm VCR for recording the camera output.

Fire Pump



This is a high volume, high pressure output, skid-mounted 250 GPM at 125 psi fire pump unit powered by a Lombardini diesel engine. This unit may be used for flushing oil from rock and man-made structures and/or herding of oil toward skimmers. The removable accessory box mounted above the pump includes hoses (2 – 2 ½ in suction hoses, 2 - 1 ½ in discharge hoses), Two (2) nozzles, adapters, fittings, fire extinguisher, and tools. Gross Weight is 1,442 lbs.

DBRC Equipment Request Form

DBRC EQUIPMENT RENTAL REQUESTS AND CONDITIONS

Use the Equipment Request Form presented in this Section for the deployment of selected pieces of DBRC equipment and resources. It is recommended that the spiller complete this form using the descriptions of DBRC equipment and resources presented in Tab 3, as well as through discussions with DBRC. Also included in this Section are DBRC equipment and resource rental rates and equipment rental conditions.

To Go To a fillable and savable word form [click here](#).

DBRC Equipment Request Form

(See Tab 3 for equipment descriptions and capabilities)

Name of Incident: _____ Date: _____

Name of Initiator: _____ Time: _____

Spiller Checks Left Column to Request Equipment (and Specifies Quantity). After completion, spiller should FAX this **entire** form to DBRC at **610/859-2834**.

DBRC COMPLETES RIGHT HAND SIDE OF FORM.

Check √	Available Equipment Number in () indicates quantity available.	Rental Rate	Quant. Rqstd	Date Out:	Time Out:	Date In:	Time In:
	<i>Spill Recovery Vessels</i>	<i>Operating personnel provided in accordance with attached conditions except as noted</i>					
	DELRIVER (a)	\$9,000/day (in use)					
	DELBAY (b)	\$5,000/day (in use) \$2500/day (standby)					
	DELCREEK	\$4,000/day (in use) \$2,000/day (standby)					
	Lori Bow Collector on Schat Sea Responder (2)	\$3,700/day (in use) \$1,850/day (standby)					
	American Eagle Barge Unit with Lori Skimmer/s	1 Lori Unit \$4,040/day 2 Lori Units \$6,080/day standby = 1/2 in use rate					

- (a) Includes 4 permanent crew and all onboard equipment except oil containment boom which will be billed in accordance with the listed oil boom rates.
- (b) Includes 1 permanent crew and all onboard equipment.

DBRC Equipment Request Form

Check √	Available Equipment Number in () indicates quantity available.	Rental Rate	Quant. Rqstd	Date Out:	Time Out:	Date In:	Time In:
	Support Vessels	Operating Personnel Provided in accordance with attached conditions					
	Mon-Ark Twin-Hull Pontoon Boat	\$1,200/day					
	Zodiac 640 (21 ft., rigid hull inflatable w/twin 90 HP outboards)	\$1,000/day					
	Jon Boat w/30 HP outboard	\$600/day					
	Jon Boat w/90 HP outboard	\$700/day					
	28 ft. Monark Al twin Detroit 471	\$1,200/day					
	Thomas Marine Aluminum 27' Push Boat	\$1,200/day					
	Schat 34' Sea Responder (4)	\$1,660/day					
	American Eagle 40" Al. Sectional Barges (3)	\$2,000/day					
	Steel spud/crane barge 36' x 16' (provided w/crane operator)	\$2,000/day					
	Spill Recovery Equipment	Operating personnel provided in accordance with attached conditions					
	DESMI Ocean Skimmer	\$1,200/day (standby) \$2,400/day (in use)					
	Trans-Vac 500 D Oil Recovery System Manta Heads Only (3)	\$1,500/day (standby) \$2,975/day (in use) \$75/day					
	Walosep W/M Skimmer	\$600/day (standby) \$1,200/day (use)					
	Komara 12K MRK2 Disk Skimmer (2)	\$600/day (standby) \$1,200/day (use)					
	Douglas Engineering Skim- Pak Skimmers (2) Skim Heads Only (2)	\$113/day (standby) \$225/day (in use) \$50/day					
	Lori Mini Disk Brush Skimmer LMS 20 (3)	\$200/day (standby) \$400/day (in use)					

DBRC Equipment Request Form

Check √	Available Equipment Number in () indicates quantity available.	Rental Rate	Quant. Rqstd	Date Out:	Time Out:	Date In:	Time In:
	Boom	Rate per linear foot per day					
	Expandi 4300 (20" flotation 23" draft) (3600 ft. available)	\$6.75 (in use)					
	Oil Stop Deep Sea Air filled boom (20" flotation, 36" draft) (1,000 ft. available)	\$6.25 (in use)					
	AB&B or American Marine (9" flotation x 18" draft (10,000 ft. available)	\$0.10 (standby) \$0.90 (in use)					
	Oil Stop (6" flotation x 6" draft) (3,000 ft. available)	\$0.10 (standby) \$0.55 (in use)					
	Oil Stop (6" flotation x 12" draft) (20,800 ft. available)	\$0.10 (standby) \$0.65 (in use)					
	Bottom Seal Boom: Shore Guardian (8" flotation x 12" draft) or Texas STXB 20 (8" flotation x 12" draft (7,700 ft. available)	\$0.70 (standby) \$2.75 (in use)					
	Ancillary Boom Equipment	Rate per linear foot per day					
	Power Flare Boom Lights (100)	\$3/day					
	Container Anchor Systems - 12 per container - (4) containers	\$360/day					
	Container Anchor Systems - Deep Water 6 per container - (2) containers	\$220/day					
	Up-River Pre-planned Boom Sites:	Deployed by DBRC Member company personnel or DBRC contractor					
	Cooper River (2,800 6X6 boom; 12 anchor sets)	\$1,700/day					
	Newton Creek (800' 6X6 boom; 5 anchor sets)	\$500/day					
	Big Timber Creek (2500' 6X6 boom; 12 anchor sets)	\$1,600/day					

DBRC Equipment Request Form

Check k √	Available Equipment Number in () indicates quantity available.	Rental Rate	Quant. Rqstd	Date Out:	Time Out:	Date In:	Time In:
	<i>Up-River Pre-planned Boom Sites:</i>	<i>Deployed by DBRC Member company personnel or DBRC contractor</i>					
	Woodbury Creek (2700' 6X6 boom; 11 anchor sets)	\$1,600/day					
	Mantua Creek (800' 6X6 boom; 6 anchor sets)	\$600/day					
	Aunt Deb's Ditch (400' 6X12 boom; 2 anchor sets)	\$300/day					
	Old Canal (600' 6X6 boom; 4 anchor sets)	\$400/day					
	Raccoon Creek (3,500' 6X6 boom; 18 anchor sets)	\$2,100/day					
	Oldmans Creek (3,200' 6X6 boom; 11 anchor sets)	\$1,900/day					
	Darby Creek (2,400' 6X6 boom; 15 anchor sets)	\$1,500/day					
	Crum Creek (500' 6X6 boom; 4 anchor sets)	\$350/day					
	Ridley Creek (700' 6X6 boom; 5 anchor sets)	\$450/day					
	Chester Creek (800' 6X6 boom; 5 anchor sets)	\$500/day					
	Naaman's Creek (1,200' 6X6 boom; 5 anchor sets)	\$725/day					
	Shellpot Creek (800' 6X6 boom; 5 anchor sets)	\$500/day					
	Christina River (3,300' 6X6 boom; 13 anchor sets)	\$2,000/day					
	Pea Patch Island (27,500' 6X6 boom; 52 permanent buoys)	\$16,000/day					
	New Castle (deflection) (3,800' 6X6 boom; 20 anchor sets)	\$2,300/day					

DBRC Equipment Request Form

Check √	Available Equipment Number in () indicates quantity available.	Rental Rate	Quant. Rqstd	Date Out:	Time Out:	Date In:	Time In:
	<i>Communications Equipment</i>						
999	Mobile Base-Station System	\$25/day					
	Handheld Radios (40) GP300, Yeasu FTH2070, ICOM M88-IS	\$15/each/day					
	2 Yeasu handheld radios set up for Helicopter use	\$20/each/day					
	Night Sight IR Camera & Recorder	\$500/day					
	<i>Additional Equipment</i>						
	F-800 Flat Bed Truck with knuckle boom	\$300/day					
	Mack Tractor	\$300/day					
	F-450 4-wheel drive utility truck	\$200/day					
	F-450 4-wheel drive Stake Truck w/lift gate	\$200/day					
	F-150 Pickup (3)	\$125/day					
	Generator 5 KW (2)	\$100/day					
	Dispersant - Corexit 9527 (55 gallon drums 30 available)	\$820/drum					
	1-Sea Spray 2 Inshore Vessel Dispersant Spray Unit*	\$625/day					
	Hotsy pressure washer	\$200/day					

* Operated by Delaware Bay Launch Service, user charged at cost plus 15%.

DBLS boat is additional and billed at DBRC cost plus 15%

DBRC Equipment Request Form

Check √	Available Equipment Number in () indicates quantity available.	Rental Rate	Quant. Rqstd	Date Out:	Time Out:	Date In:	Time In:
	<i>Additional Equipment</i>						
	ILC 400 gallon portable Ziptanks (5)	\$150/day					
	Fasttank - 2500 gal. cap.	\$400/day					
	Texatank - 2500 gal. cap.	\$400/day					
	Yanmar diesel Trash Pump (3)	\$200/day					
	2" Homelite Trash Pump (10)	\$50/day					
	Fire Pump – Lombardini Diesel - 250 GPM @ 125 PSI	\$300/day					

DBRC Equipment Request Form

EQUIPMENT RENTAL CONDITIONS

1. "User" is defined as the party who activates the Delaware Bay & River Cooperative, Inc., and requests deployment of DBRC resources.
2. A day is defined as twenty-four (24) hours or any part thereof.
3. Daily rates will begin upon call out and continue at full daily rates until the equipment is released for cleaning and repair. When equipment is released from a spill, it must be cleaned and placed back in operational condition to DBRC's satisfaction.
4. Sufficient personnel, either DBRC employees or DBRC trained contracted personnel, will be provided to safely and efficiently operate any equipment requested.

DBRC Equipment Request Form

5. Equipment (excluding boom)

- a) Equipment will be billed at 50% of the daily rate during cleaning and repair. Daily rates will continue until the equipment is returned to its point of origin. If the user does not arrange for proper cleaning and/or repair or the cleaning and/or repair is inadequate, the rental rates will return to 100% and DBRC will contract for the proper cleaning and/or repair and bill user at cost plus 15%.
- b) Equipment unable to be repaired (or if the costs of repair and cleaning exceeds the replacement and disposal costs) will be replaced by DBRC at cost plus 15%. Rental costs will cease upon the decision for replacement being made by the user. The equipment being replaced becomes the property of the user.

6. Boom:

- a) All DBRC boom will be cleaned and repacked by DBRC's contractor. Boom rental rates will continue until boom enters the cleaning area at which time standby rates will apply. The user must provide a lay down area for cleaning the boom and is responsible for disposing of all wastes generated during cleaning of the boom.
- b) Boom rental rates will be charged for up to 40 days for standby and 20 days in use. If boom is used for longer than 20 days, DBRC will replace the boom with new boom and user will have possession of the used boom. If the boom is used less than 20 days, DBRC will have the boom cleaned and repaired and repacked. If the cost to the user to clean and repair plus the rental cost would exceed the 20 day rental cost of the boom, the user may elect to pay a 20 day rental fee and have DBRC replace the boom. If user elects to have DBRC replace the boom, the user must take possession of the old boom and is responsible for any disposal costs. If the user decides to place DBRC boom in his possession into use, all DBRC identification must first be removed.

DBRC Equipment Request Form

DBRC COSTS OTHER THAN RENTAL

1. All expendable items: sorbents, rags, cleaning compounds, fuel, etc., will be charged to user at cost to DBRC plus 15%.
2. All incidental expenses: lodgings, food, parking fees, telephone, etc., will be charged to user at cost to DBRC plus 15%.
3. Food for personnel on the OSRV's DELBAY and DELRIVER will be charged at the rate of \$30.00 per person per day.
4. An insurance surcharge of \$20.00 per person per day will be charged for all DBRC and DBRC's subcontractor personnel operating DBRC equipment on the water.

DBRC Equipment Request Form

5. A hull insurance surcharge in accordance with the following table will be charged for the listed DBRC equipment:

Equipment	Surcharge \$/day
DEL RIVER	\$29.31
DEL BAY	\$18.25
DEL CREEK	\$4.71
34 ft. Schat Sea Responders	\$0.86
Pontoon Boats	\$0.55
Rigid Hull Inflatable (Zodiac) Boats	\$0.55
American Eagle Barge (each section)	\$0.55
36 ft. steel spud/crane barge	\$1.10
Thomas Marine 27 ft. Aluminum Boat	\$0.55
Monark Workboat	\$0.55
Aluminum Jon Boat	\$0.55

6. Disposal of recovered oil, oiled sorbents and other materials associated with the spill response and cleaning of the DBRC equipment will be the responsibility of the user.
7. DBRC boom to be deployed at pre-planned boom sites (16 sites as of 04/27/06) will be deployed by member companies' emergency response teams or by DBRC's contractor. The contractor to tend the boom after initial deployment will be contracted by DBRC. Member company response personnel will be billed at \$65 per hour and all contractor expenses will be billed at DBRC cost plus 15%. Member company equipment used in spill response will be billed at the same rates as comparable DBRC equipment. The 18 pre-planned sites are: Cooper River, Newton Creek, Big Timber Creek, Woodbury Creek, Mantua Creek, Aunt Debs Ditch, Old Canal, Raccoon Creek, Oldmans Creek, Darby Creek, Crum Creek, Ridley Creek, Chester Creek, Naaman's Creek, Shellpot Creek, Christina River, Pea Patch Island and New Castle.

DBRC Equipment Request Form

8. All contractors employed by DBRC during a spill response will be billed at DBRC cost plus 15%.
9. Any services necessary for a DBRC response will be billed at DBRC cost plus 15%.
10. A \$30.00/day charge for personnel protective equipment (PPE) will be charged for each DBRC person involved in spill response.

DBRC Equipment Request Form

DBRC PERSONNEL COSTS AND CONDITIONS

Conditions

1. All personnel are billed on a portal-to-portal basis, with a four (4) hour minimum.
2. Salaried employees will be prorated on an eight (8) hour day basis for the first four (4) hours of each day worked. Any time worked beyond four (4) hours will be charged at the full day rate.
3. Hourly employees are subject to the following:
 - a) Prior to 07:00 hrs. and/or after 15:30 hrs. except as below: time and one-half.
 - b) From 00:00 to 23:59:59 hrs. Saturday: time and one-half.
 - c) From 00:00 to 23:59:59 hrs. Sunday: double-time.
 - d) From 00:00 to 23:59:59 hrs. on included holidays: two and one-half time.
 - e) For the puposes of (d), the following will be considered to be included holidays: New Years Day, All Presidents Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving, Christmas Day.
- 4) Per Diems incurred on User's behalf will be billed at cost plus fifteen percent (15%). All travel expenses will be billed at cost plus fifteen percent (15%).

DBRC Equipment Request Form

DBRC Personnel Rate Schedule

General Manager	\$1,200 per day
Field Supervisor	\$ 900 per day
Marine Supervisor	\$ 900 per day
Recalled DELRIVER Captain	\$ 800 per day
Recalled DELRIVER Chief Engineer.....	\$ 775 per day
Recalled DELRIVER Deckhands.....	\$ 650 per day
Recalled DELBAY Captain	\$ 700 per day
Response Technicians	\$ 45 per hour

DBRC Equipment Request Form

DBRC'S TERMS FOR RECEIPT OF PAYMENT

All spill responses will be invoiced payable net 30 days. A finance charge of 1 1/2% per month, which is an annual percentage rate of 18%, will be charged on all past due accounts.

DBRC's published rates will not be discounted.