DATE	AMOUNT (GALS)	TYPE	DESCRIPTION
1/72	unknown	unknown	possible release from tanks 117 and 118, separate-phase petroleum appeared in wells 1-W and 1-R
4/73	unknown	#6 fuel oil	rupture and ignition of tank 7, small amount lost to ground
1974	unknown	Shell Super Gasoline	accumulated in well 39; 500 pinholes (corrosion) found in tank 8 bottom; new bottom installed
9/75	unknown	kerosene	accumulated in well 39; leak in line (valve) to loading rack from tanks 12, 136, 137; line replaced with above ground line
11/75	900	gasoline	new tank bottom on Tank 8 leaked; tank bottom repaired
1/76	4,500	xylene	leaked from tank 96 while loading; adsorbed into soil
3/03/76	5,187	#2 fuel oil	product line break into sewer system; contained and cleaned up
8/76	unknown	jet A	pinholes discovered in tank 137; repaired
12/7/76	6,315	Solvent 340	in plant yard/dike on frozen ground; cleaned up
6/78	unknown	Shell Regular Gasoline	leak in tank 10 bottom; repaired
12/21/78	164	gasoline	spill at loading rack into containment system
1/79	unknown	kerosene	leak in tank 136; repaired
1/12/79	114	gasoline	spill at loading rack into containment system
2/3/79	158	gasoline	spill at loading rack into containment system
3/2/79	unknown	gasoline	spill at loading rack into containment system
3/4/79	129	gasoline	spill at loading rack into containment system
4/24/79	2	naphtha	spill at marine dock; reported to U.S.C.G.
5/9/79	30	gasoline	spill at loading rack into containment system
7/3/79	53	gasoline	spill at loading rack into containment system





DATE	AMOUNT (GALS)	TYPE	DESCRIPTION
5/31/80	4,000	gasoline	spill into tank 137 diked area; trench dug for recovery
11/4/80	25	gasoline	spill at loading rack into containment system
1/25/82	10	gasoline	spill at loading rack into containment system
10/12/83	1/4 pint	unknown	spill at marine dock; reported to U.S.G.C.
11/5/83	194	additive	180 gal. recovered
11/14/83	25	gasoline	spill at loading rack into containment system
11/17/83	64	gasoline	spill at loading rack into containment system
10/9/84	5	fuel oil	abandoned line leak
9/29/85	375	#2 fuel oil	leak in line under pipe line pump house; line repaired
10/7/85	123	#2 fuel oil	spill at loading rack into containment system
12/17/85	25	#2 fuel oil	line from tank 143 leaked; line replaced; cleaned up
2/21/86 *	3	interface	discharge from oil/water separator due to excess sludge on separator plates
4/29/86	68	#2 fuel oil	spill at loading rack into containment system
7/14/86	200	interface	line to tank 10 leaked into diked area; replaced
7/27/86	50	Shell Regular gasoline	cargo line leak in tank 3 area; gasoline recovered
8/22/86	5	#2 fuel oil	spill at loading rack into containment system
9/5/86 *	15	SU2000 gasoline	spill at marine dock; report to U.S.C.G.; dripping valve closed
10/9/86	5	#2 fuel oil	spill at loading rack into containment system
10/16/86	2	RU2000 gasoline	leak from pump in tank 9 diked area; pump seal replaced
10/28/86	3	Super gasoline	spill at loading rack into containment system



DATE	AMOUNT (GALS)	TYPE	DESCRIPTION
10/30/86	5	Super gasoline	spill at loading rack into containment system
11/21/86	5	RU2000 gasoline	leak from pump in tank 9 diked area; pump seal replaced
11/22/86	1	#2 fuel oil	leak from hole in barge gunnel; reported to U.S.C.G.; boom deployed
1/31/87	210	RU2000 gasoline	line leak 200 feet N.W. of office; 160 gallons recovered; replaced pipe section
2/4/87	10-15	RU2000	pipeline pump leak at tank 136; all recovered
4/1/87	1	interface	overflow of oil/water separator during rain; boom placed around outfall point
5/19/87 *	5	thermia oil	leak from abandoned hot oil line to Taunton River; reported to U.S.C.G.; 1 gallon recovered
7/8/87	2	SU2000 gasoline	spill at loading rack into containment system
9/24/87	126	RU2000 gasoline	leak from valve at tank 6; valve closed; sorbent pads deployed
12/10/87	5	#2 fuel oil	spill at loading rack into containment system
3/16/88	2	Nap-87 Additive	valve left open during pumping to storage tank; cleaned up
4/19/88	4	#2 fuel oil	spill at loading rack into containment system
5/4/88	10-15	Super gasoline	leak in dead end underground pipe; soll removed
6/2/88	5-10	NAP-87 Additive	overfilling of tank 31; spedi-dry used to contain spill
6/10/88	1000	RU2000	break in line to tank 136; 100 gals. recovered
10/21/88	25	interface	overflow of Heil oil/water separator; sorbent pads used to adsorb spill
10/24/88	2	#2 fuel oil	spill at loading rack into containment system
11/4/88	0.5	#2 fuel oil	spill from overflow pipe on truck; cleaned up

DATE	AMOUNT (GALS)	TYPE	DESCRIPTION
11/4/88 *	5	Thermia oil	leak from abandoned line into Taunton River; reported to U.S.C.G. remaining fluid removed and valve closed
11/29/88	2	#2 fuel oil	spill at loading rack into containment system
12/6/88	7	#2 fuel oil	spill at loading rack into containment system
2/12/89	20	Super gasoline	spill at loading rack into containment system
7/28/89	25	#2 fuel oil	spill from top loading arm at rack into containment system
8/2/89	5	Transformer oil	transformer exploded; cleaned up
8/15/89	5	Regular gasoline	spill at loading rack into containment system
1/5/90	5	SU2000 gasoline	spill at loading rack into containment system
1/17/90	unknown	Super gasoline	leak in cargo line; cleaned up
1/19/90	3	#2 fuel oil	spill at loading rack into containment system
1/23/90	7	SU2000 gasoline	spill at loading rack into containment system
2/12/90	2,500	RU2000 gasoline	accidental valve left open; spill into tank 9 dike area; 1,900 gals. recovered
10/11/90	10	lean oil	overflow of Vapor Recovery Unit; sorbent pads deployed
10/30/90	10	#2 fuel oil	line on barge broke; 2 gals. released to Taunton River; reported to U.S.C.G.
11/20/90	1	gasoline	spilled during treatment of tank water bottom; sorbent pads collected most of gasoline off surface of spilled water
12/21/90	40	RU2000	seepage from tank 6; sorbent pads deployed; gasoline removed from tank

(able)
Spills and Releases
Shell Fall River Product Distribution Plant
Fall River, Massachusetts

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DATE	AMOUNT (GALS)	TYPE	DESCRIPTION
1/3/91	4	#2 fuel oil	spill at loading rack into containment system
2/8/91	10	#2 fuel oil	spill at loading rack into containment system
3/20/91	18-20	SU2000 gasoline	spill at loading rack into containment system
6/24/91	2	SU2000 gasoline	spill at loading rack into containment system
7/17/91	2	# 6 Fuel Oil	leaked from tank 72 during tank dismantling
* = releases which resulted in fines assessed by U.S.C.G.			

In addition to the above releases, the Shepherd Report describes petroleum seeps, discovered in 1971, from the Plant Into the Taunton River. One seep was from the outside wall and inside the City Sewer Outlet (CSO #014). Another seep was from gravel beds located in the middle section of the plant shoreline. A sealant was put on the inside walls of the sewer to prevent seepage into the sewer outlet. Installation of the recovery well system in 1972, described in Section 2.5.3, decreased the seeps. The installation of recovery wells 8-W and 8-R, in 1978, stopped observable seeps into the river.

The Shepherd Report also details minor seeps at the Taunton River Shoreline at T-15/Lot 3 (North Lots). Investigations in 1972 and 1976 revealed old, biodegraded petroleum seeps from the groundwater intersection with the beach slope at low tide. Shell reported the seeps to the U.S. Coast Guard during the investigations and in 1981 with no action indicated. The petroleum is believed to have come from former tank # 140.

2.7 Environmental Permits and Licenses

Environmental permits and licenses for the plant are summarized in **Table 8**. Groundwater Technology is currently preparing the reapplication of the NPDES Permit for Shell. The reapplication