OUTLINE OF HISTORY
HOOPER SANDS ROAD SITE
(1989 to the present)

Jan 3, 1989	DEP contacted regarding gasoline odor in well water
Feb 22, 1989	DEP installed carbon filters for affected residential wells
Mar 6, 1989	Department began providing bottled water
Mar 20, 1989	Department began routine sampling of residential wells
Apr 13, 1989	DEP held public meeting
Jun 13, 1989	DEP submitted Preliminary Assessment for EPA Superfund
Jun 27, 1990	DEP held public meeting
Oct 10, 1989	Department provided "air stripper" pre-treatment

Nov 7, 1989	EPA Removal Branch excavated and staged 3000 cu yds of soil
Jul 10, 1990	DEP submitted Screening Site Inspection for EPA Superfund
Jul 20, 1990	PNS removed 139 drums and misc containers
Dec 13, 1990	EPA decontaminated Staged soil using "Thermal Desorption"
Dec 19, 1990	DEP held public meeting
Dec 13, 1991	Department (Weston) completed hydrogeological investigation
Nov, 1992	DEP removed 10,000 galllon tank and associated drums
Jun 30, 1993	DEP prepared Expanded Site Inspection for Superfund final
Sep 15, 1993	Waterline contract between SBWD and DEP signed

Nov 15, 1993	DEP held joint public meeting w/ EPA & SBWD
Jun 20, 1994	Waterline construction began
Sep 29, 1994	DEP submitted final HRS package to EPA Superfund
Nov 7, 1994	First HSR residences connected to waterline
Dec 22, 1994	HSR connections to waterline completed
Dec 29, 1994	Department recommended HSR Site for Superfund NPL
Jan 18, 1995	DEP re-sampled soil piles for As
Jan 20, 1995	DEP solicited bids for residential well closures
May 24, 1995	DEP closed three residential wells
Nov 9, 1995	DEP sampled Hussey gravel pit in

response to citizen complaint- no contamination

May 21, 1996 DEP sampled surface water and soil at Source Area #2

Aug 21, 1996 EPA notified DEP that site will not score for inclusion on NPL

ALL EXPENDITURES
HOOPER SANDS ROAD SITE
(1989 to the present)

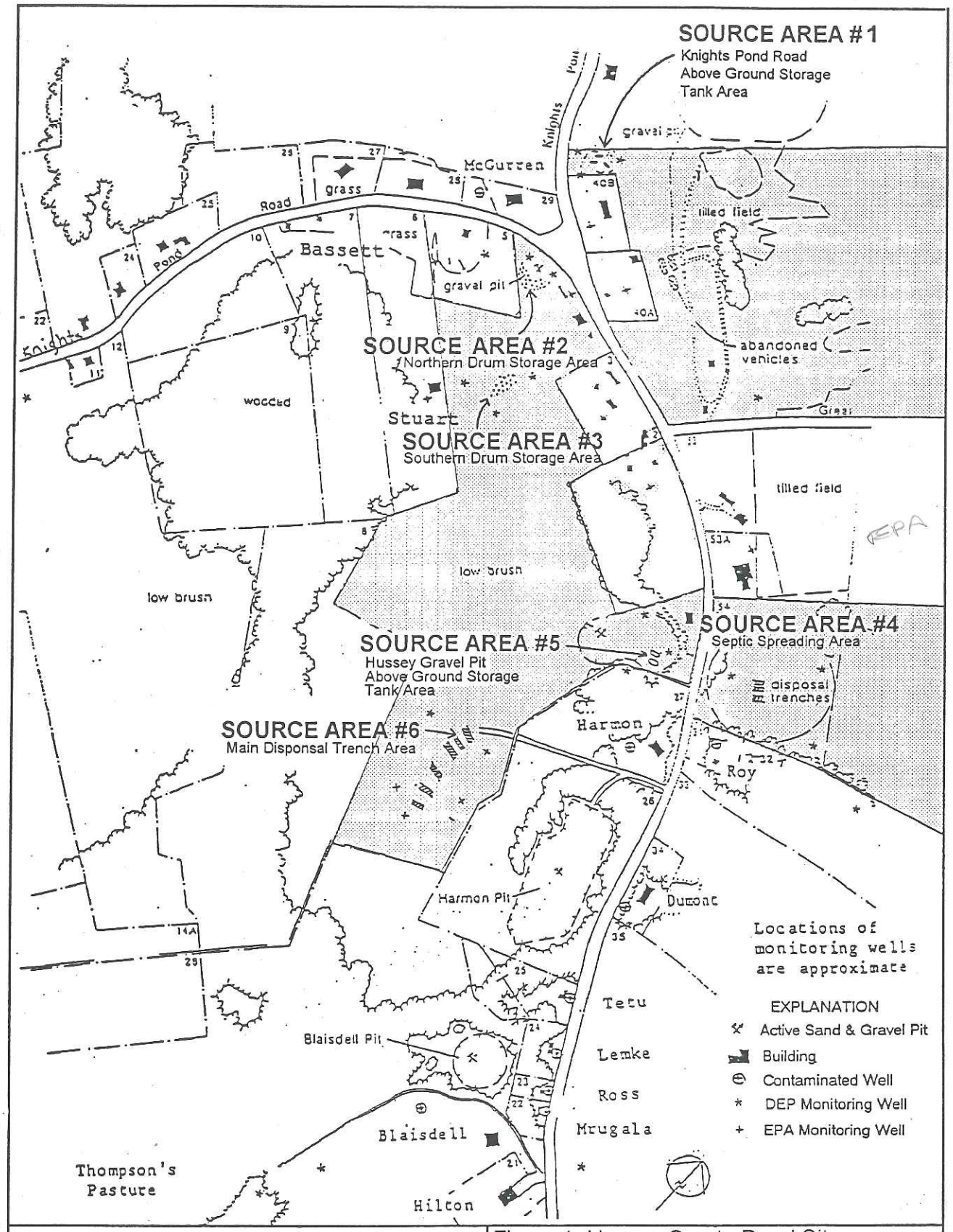
Waterline		
U.S. EPA	$563,185.99	
MEDEP	$492,440.00	
SBWD	$140,796.50	
		$1,196,422.49
Removal (EPA)		$2,024,028.00
Removal (DEP)		$1,406,205.23
Total		$4,626,655.72

MEDEP EXPENDITURES
HOOPER SANDS ROAD SITE
(1989 to the present)

Carbon Filters	$49,891.77
Bottled Water	$23,546.49
Air Strippers	$25,782.61
Laboratory Fees	$153,155.24
MEDEP Staff	$127,140.00
Waterline	$492,440.00
Hydrogeological Study (Weston Geophysical)	$1,026,689.12
Total	$1,898,645.23

USEPA EXPENDITURES
HOOPER SANDS ROAD SITE
(1989 to the present)

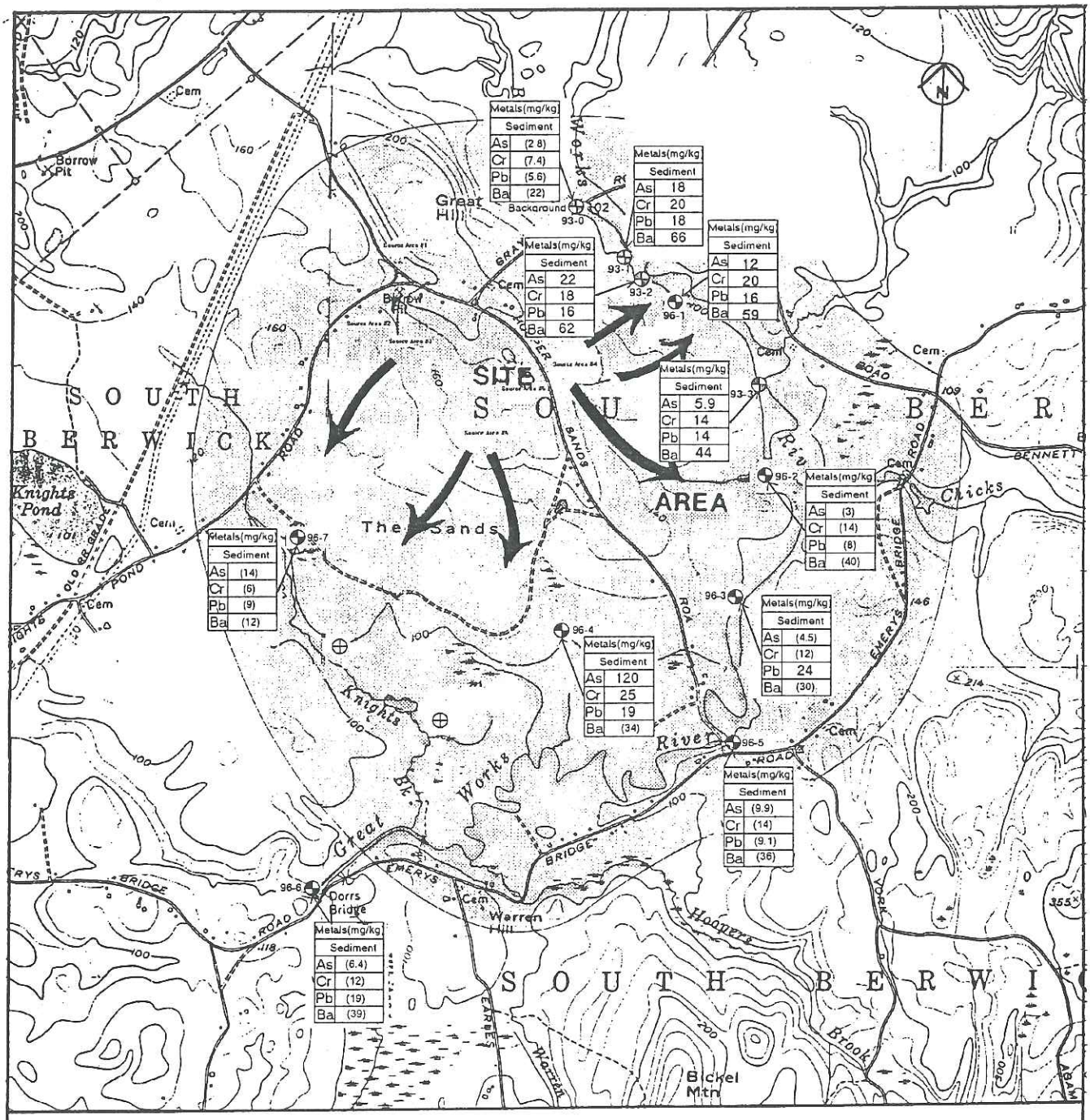
Contract Services (Drum Consolidation & Overpacking; Drum Sampling; Soil Removal; Soil Sampling & Analysis; Soil Remediation)	$1,860,638.00
Technical Assistance Team	$163,390.00
USEPA Staff	$527,163.00
Waterline	$563,185.00
Total	$2,587,213.99



MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

Figure 1. Hooper Sands Road Site Potential Source Areas

After Weston Geophysical
Figure 2 Hydro/Geo Investigation
Phase I - Site Assessment



Groundwater Direction of Flow

Background in Parenthesis
Release in Boldface Type

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

Basemap from U.S.G.S. Somersworth, ME., North Berwick, ME., Dover East, ME., and York Harbor, ME. 7 1/2" Quadrangles

MAINE DEPARTMENT OF ENVRIONMENTAL PROTECTION

Groundwater to Surface Water Release of Metals

After Weston Geophysical
Figure 1 Hydro/Geo Investigation
Summary Report of Stage 2 Field Investigations

Table 4 (continued): Results of laboratory analysis of surface water and sediment samples taken to document potential groundwater to surface water releases to Great Works River and Knights Brook

	Station Number		Background	96-3	96-4	96-5	96-6	96-7
	Element		Sampled 5/11/93	Sampled 5/24/96	Sampled 5/24/96	Sampled 10/31/96	Sampled 10/31/96	Sampled 5/24/96
RCRA 8 METALS	Arsenic	SEDIMENT	2.8	4.5	**120**	9.9	6.4	14
	Cadmium		ND(0.1)	ND(0.4)	**3**	0.50	0.42	ND(0.4)
	Chromium		7.4	12	**25**	14	12	6
	Silver		ND(0.1)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)	ND(0.4)
	Mercury		ND(0.05)	0.16	0.11	0.04	0.07	ND(0.35)
	Lead		5.6	**20**	**19**	9.1	19	9
	Selenium		ND(2)	3	10	K 4	ND(4)	3
	Barium		22	30	34	36	39	12
	Arsenic	SURFACE WATER	ND(0.002)	ND(0.004)	ND(0.004)	ND(0.004)	ND(0.004)	0.004
	Cadmium		0.0002	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
	Chromium		ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	Silver		ND(0.0001)	ND(0.0002)	ND(0.0002)	ND(0.0005)	ND(0.0002)	ND(0.0002)
	Mercury		ND(0.0003)	ND(0.0002)	ND(0.0002)	ND(0.0003)	ND(0.0002)	ND(0.0002)
	Lead		ND(0.001)	0.002	0.002	ND0.002	ND0.002	0.004
	Selenium		ND(0.002)	ND(0.004)	ND(0.004)	ND(0.005)	ND(0.004)	ND(0.004)
	Barium		0.007	0.007	0.007	0.0068	0.011	0.004
VOLITILES	Compound							
	Acetone	SEDIMENT	ND (<0.05)	**0.017**	**0.014**	ND (<0.010)	ND (<0.010)	ND (0.005)
	Freon 113		ND (<0.05)	ND (0.005)	**0.008**	ND (<0.005)	ND (<0.005)	ND (0.005)
	TCE		ND (<0.05)	ND (0.005)	**0.022**	ND (<0.050)	ND (<0.005)	ND (0.005)
	Acetone	SURFACE WATER	ND (<0.001)	ND (<0.005)	ND (<0.005)	ND (<0.001)	ND (<0.001)	ND (<0.005)
	Freon 113		ND (<0.001)	ND (<0.001)	**0.0248**	ND (<0.001)	ND (<0.001)	ND (<0.001)
	TCE		ND (<0.001)	ND (<0.001)	**0.0506**	ND (<0.001)	ND (<0.001)	ND (<0.001)
SEMI VOAS	Compound							
	Pthalate	SEDIMENT	No Analysis	0.20	ND (0.10)	ND	J0.1	0.12
	Benzoic A		No Analysis	ND (0.10)	ND (0.10)	ND		ND (0.10)
	Fluoranthen						J0.1	
	Pyrene						J0.1	
		SURFACE WATER	No Analysis	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)

ND = Non Detectable (below the limit of detection)

Table 4: Results of laboratory analysis of surface water and sediment samples taken to document potential groundwater to surface water releases to Great Works River and Knights Brook

	Station Number		Background	93-1	93-2	93-3	96-1	96-2
	Element		Sampled 5/11/93	Sampled 5/11/93	Sampled 5/11/93	Sampled 5/11/93	Sampled 5/24/96	Sampled 5/24/96
RCRA 8 METALS	Arsenic	SEDIMENT	2.8	**18**	**22**	5.9	**12**	3
	Cadmium		ND(0.1)	0.11	ND(0.1)	0.11	ND(0.4)	ND(0.4)
	Chromium		7.4	20	18	14	20	14
	Silver		ND(0.1)	ND(0.1)	ND (0.1)	ND(0.1)	ND(0.4)	ND(0.4)
	Mercury		ND(0.05)	K(0.1)	ND(0.05)	K(0.1)	0.06	0.06
	Lead		5.6	**18**	16	14	16	8
	Selenium		ND(2)	ND(2)	ND(2)	ND(2)	ND(3)	ND(3)
	Barium		22	**66**	62	44	59	40
	Arsenic	SURFACE WATER	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)
	Cadmium		0.0002	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0005)	ND(0.0005)
	Chromium		ND(0.001)	ND(0.001)	0.002	ND(0.001)	ND(0.001)	ND(0.001)
	Silver		ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0001)	ND(0.0005)	ND(0.0005)
	Mercury		ND(0.0003)	ND(0.0003)	ND(0.0003)	ND(0.0003)	ND(0.0002)	ND(0.0002)
	Lead		ND(0.001)	ND(0.001)	0.002	ND(0.001)	ND(0.002)	ND(0.002)
	Selenium		ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.004)
	Barium		0.007	0.007	0.013	0.005	ND0.004	ND0.004
VOLITILES	**Compound**							
	Acetone	SEDIMENT	ND (<0.05)	K0.5	K0.5	K0.5	ND (<0.01)	0.077
	Freon 113		ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.01)	ND (<0.01)
	TCE		ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.01)	ND (<0.01)
	Acetone	SURFACE WATER	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.005)	ND (<0.005)
	Freon 113		ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)
	TCE		ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.001)
SEMI VOAS	**Compound**							
	Pthalate	SEDIMENT	No Analysis	No Analysis	No Analysis	No Analysis	ND (<0.10)	0.13
		SURFACE WATER	No Analysis	No Analysis	No Analysis	No Analysis	ND (<0.001)	ND (<0.001)
							ND (<0.001)	ND (<0.001)
							ND (<0.001)	ND (<0.001)

ND = Non Detectable (below the limit of detection)