



Roy F. Weston, Inc.
Building 3701
Barnum Road
Fort Devens, Massachusetts 01433
508-772-7190 • Fax 508-772-7251

Mailing Address:
Roy F. Weston, Inc.
P.O. Box 425
Ayer, Massachusetts 01432-0425

06 February 1998
Work Order No. 03886-118-002-2700-00

Mr. Maurice Beaudoin, Resident Engineer
Department of the Army
New England District, Corps of Engineers
New Bedford Resident Office
103 Sawyer Street
New Bedford, MA 02746

Superfund Records Center
SITE: NEW BEDFORDS
BREAK: 7.2
OTHER: 46752

Reference: Contract No. DACW33-95-D-0004
Delivery Order No. 0002
New Bedford Harbor Superfund Site
Sawyer Street Site O & M
DCN: NBH-020698-AALD

Subject: Quarterly Groundwater Sampling Results - Fourth Quarter 1997

Dear Mr. Beaudoin:

This is a Letter Report summarizing quarterly groundwater sampling activities and results at the New Bedford Harbor Sawyer Street Site. Seven on-site groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4A, MW-5, MW-6, and MW-7A) were sampled on 29 and 30 December 1997. The attached Site Plan shows the locations of on-site monitoring wells. Table 1 summarizes the groundwater samples collected. Table 2 summarizes the final field parameters measured at each location after well purging, but prior to sample collection. Table 3 summarizes the analytical results of the sampling.

As shown on Table 3, both the total and dissolved concentrations of cadmium in MW-3 exceed the applicable U.S. EPA Maximum Contaminant Level (MCL) and Massachusetts Department of Environmental Protection Massachusetts Contingency Plan (MCP) GW-1 regulatory guidelines of 15.0 parts per billion (ppb), respectively. These concentrations are consistent with past analytical data for this monitoring well location. No other exceedances of MCLs were noted. Data validation notes and the laboratory data transmittals for the 29 and 30 December 1997 groundwater sampling results are attached.

The depression area located east of the Confined Disposal Facility (CDF), in which monitoring wells MW-2 and MW-3 are located, is utilized as a discharge area for rain water which



Mr. Maurice Beaudoin
U.S. Army Corps of Engineers

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accumulates on the covers of CDF cells and is normally inundated with water. During the groundwater sampling event on 29 and 30 December 1997, the depression area was mostly dry with only a few areas of standing water; however, the depth at which soils in this area were saturated was unknown. The use of this depression area as a discharge area may affect the natural measured depth to water in the wells and may also affect the quality of groundwater in this area.

Please call me at (978) 772-7190 if you have any questions regarding this Letter Report.

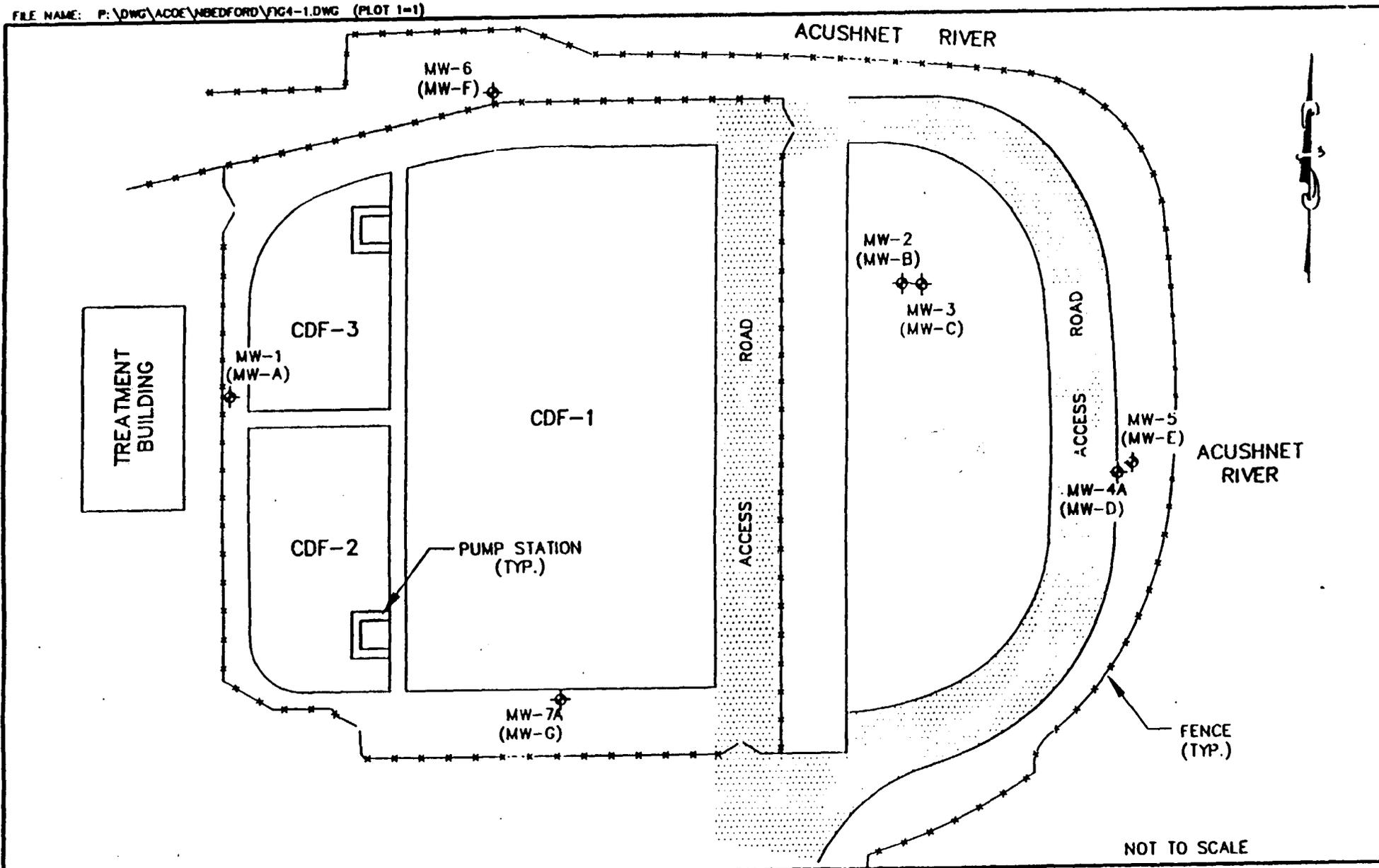
Very Truly Yours,

ROY F. WESTON, INC.



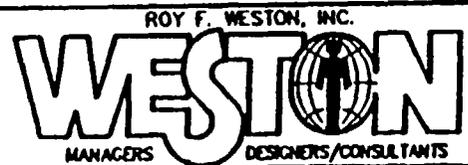
David C. Crispo
Associate Project Engineer

cc: R. Rico (WESTON)
L. Lemay [WESTON DCN File (2)]
M. Otis (CENAE)
Project File (DVN)



NOT TO SCALE

SITE PLAN
 NEW BEDFORD HARBOR SUPERFUND SITE
 NEW BEDFORD, MASSACHUSETTS



DRAWN K.J.C.		DATE MAY 96	DES. ENG.	DATE	W. O. NO. 03886-118-002
CHECKED			APPROVED		DWG NO.

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Table 1

New Bedford Harbor Sawyer Street Site
 Quarterly Groundwater Sampling - 29 and 30 December 1997
 Sample Summary

SAMPLE LOCATION	SAMPLE ID	QC/FIELD DUP SAMPLE ID	RINSATE BLANK ID	MS/MSD SAMPLE ID	*QA LAB SAMPLE ID	SAMPLE DATE	SAMPLE TIME	COMMENTS
MW-1	001-1297	101-1297				12/29/97	1120 hours	Field duplicate sample (101-1297) collected @ 1120 hours
MW-2	002-1297		202-1297			12/29/97	1450 hours	Blank sample (202-1297) collected @ 1540 on 12/29/97
MW-3	003-1297					12/30/97	0800 hours	
MW-4A	004-1297			004-1297		12/29/97	1400 hours	
MW-5	005-1297				*005-1297 QA	12/29/97	1350 hours	
MW-6	006-1297					12/29/97	1045 hours	
MW-7A	007-1297					12/29/97	1000 hours	

*QA Lab sample shipped to:

Sample Administration
 Lancaster Laboratories
 2425 New Holland Turnpike
 Lancaster, PA
 phone (717) 656-2300

Table 2

New Bedford Harbor Sawyer Street Site
 Quarterly Groundwater Sampling - 29 and 30 December 1997
 Final Field Measurements

Well ID	Sample Date	Depth of Water (ft)*	pH	Temperature (°C)	Specific Conductivity (mmhos/cm)
MW-1	12/29/97	15.22	7.80	11.0	0.90
MW-2	12/29/97	8.96	7.30	11.0	5.50
MW-3	12/30/97	6.86	8.00	8.0	1.70
MW-4A	12/29/97	7.60	8.00	12.0	3.50
MW-5	12/29/97	6.48	8.00	11.0	2.20
MW-6	12/29/97	12.04	7.60	11.0	0.50
MW-7A	12/29/97	9.90	7.10	10.0	0.80

*Depth of water measured from top of inner Teflon well casing.

Tide Schedule for New Bedford on 29 December 1997:

High Tide: 0709 and 1945 hours.

Low Tide: 0058 and 1333 hours.

Tide Schedule for New Bedford on 30 December 1997:

High Tide: 0752 and 2030 hours.

Low Tide: 0147 and 1417 hours.

Table 3

**New Bedford Harbor Sawyer Street Site
Quarterly Groundwater Sampling - 29 and 30 December 1997
Analytical Results**

Compounds Detected		Groundwater Sampling Locations									
		US EPA MCL	MCP GW-1 Standard	MW-1	MW-1 Duplicate	MW-2	MW-3	MW-4A	MW-5	MW-6	MW-7A
PCBs	Total	0.5	0.5	ND	ND	ND	ND	ND	ND	ND	ND
	Dissolved	0.5	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Total	5.0	5.0	ND	ND	ND	9.3J	ND	ND	ND	ND
	Dissolved	5.0	5.0	3.1J	ND	ND	9.5J	ND	ND	ND	ND
Chromium	Total	100.0	100.0	ND	ND	ND	ND	ND	ND	ND	ND
	Dissolved	100.0	100.0	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Total	1,300.0	NA	ND	ND	ND	123.0	ND	ND	ND	ND
	Dissolved	1,300.0	NA	ND	ND	ND	88.0	ND	ND	ND	ND
Lead	Total	15.0	15.0	2.9J	4.5	ND	3.6	ND	ND	ND	3.0J
	Dissolved	15.0	15.0	3.5	1.3J	ND	ND	ND	ND	ND	ND

Note: Shaded areas indicate results exceeding US EPA MCL or MCP GW-1 standards for groundwater.

Results reported in micrograms per liter ($\mu\text{g/L}$ = parts per billion).

ND = Not Detected.

J = The associated numerical value is an estimated value.

U.S. EPA MCL = US EPA Maximum Contaminant Level standards for groundwater.

MCP GW-1 Standard = Massachusetts Contingency Plan (per Massachusetts Department of Environmental Protection) GW-1 standards for groundwater.