

7.2.11



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

10 September 1997
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 BEDFORD
BREAK: 7.2
OTHER: 46749

Reference: Contract No. DACW33-95-D-0004
Delivery Order No. 0002
New Bedford Harbor Superfund Site
Sawyer Street Site O & M
DCN: NBH-090997-AAJZ

Subject: Quarterly Groundwater Sampling Results - Second 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 26 and 27 June 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, the dissolved concentrations of lead in MW-2 and MW-3 equal and exceed the applicable U.S. EPA Maximum Contaminant Level (MCL) regulatory guidelines of 15.0 parts per billion (ppb), respectively. However, based on the matrix spike/matrix spike duplicate (MS/MSD) for filtered samples not meeting quality control criteria for lead, in addition to past analytical results for these sample locations being historically lower, these results should be estimated and biased as high. No other exceedances of MCLs were noted. Data validation notes and the laboratory data transmittals for the 26 and 27 June 1997 groundwater sampling results are attached.

During the groundwater sampling event on 26 and 27 June 1997, the depression area located east of the Confined Disposal Facility (CDF) contained various areas of standing water and saturated soil to a maximum depth of approximately 0.5 feet. Monitoring wells MW-2 and MW-3 are located in this area. No standing water was observed in the vicinity of these two wells, however,





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

2

10 September 1997

the soil surrounding these wells was saturated. The presence of saturated soils and standing water in the vicinity of these wells may affect the natural measured depth to water in the wells and may also affect the quality of groundwater in this area. The depression area is utilized as a discharge area for rain water which accumulates on the covers of CDF cells.

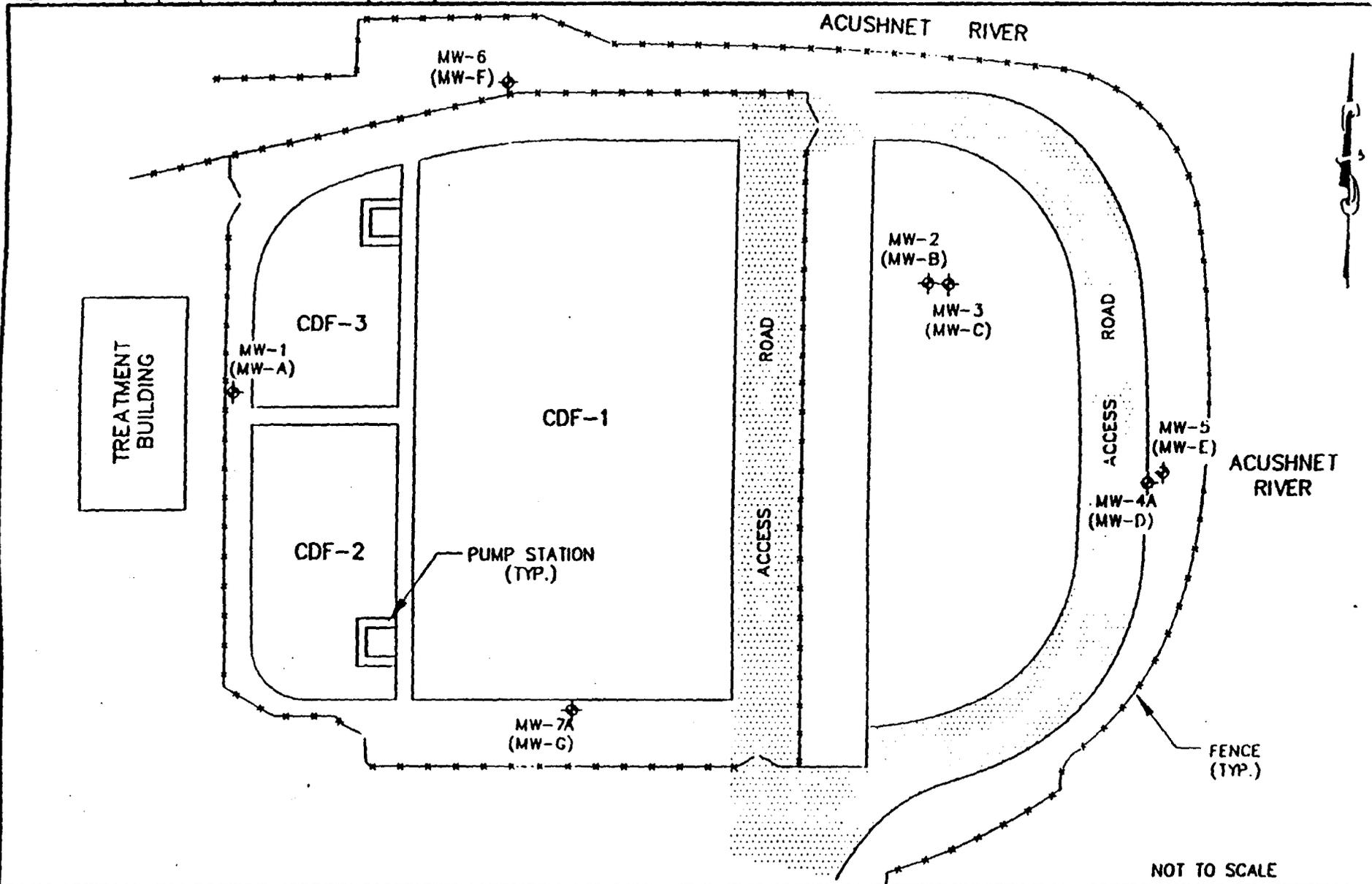
Please call me at (508) 772-7190 if you have any questions regarding this Letter Report.

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. 03886-118-0X
CHECKED		APPROV'D		DWG NO

Table 1

New Bedford Harbor Sawyer Street Site
 Quarterly Groundwater Sampling - 26 and 27 June 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	001-0697	001-0697				6/26/97	1300 hours	Field duplicate sample collected @ 1200 hours
MW-2	002-0697		202-0697			6/27/97	1115 hours	Blank sample (202-0697) collected @ 1200 hours.
MW-3	003-0697					6/27/97	1100 hours	
MW-4A	004-0697			004-0697		6/26/97	1500 hours	
MW-5	005-0697				005-0697	6/26/97	1500 hours	
MW-6	006-0697					6/26/97	1210 hours	
MW-7A	007-0697					6/26/97	1125 hours	

*QA Lab sample shipped to:

Mr. Dave Lubianez
 ACOE New England Division Environmental Lab
 476 Coldbrook Road
 Hubbardston, MA 01452
 phone (508) 928-4238
 NB Harbor Project No. E0562

Table 2

New Bedford Harbor Sawyer Street Site
 Quarterly Groundwater Sampling - 26 and 27 June 1997
 Final Field Measurements

Well ID	Sample Date	Depth of Water (ft)*	pH	Temperature (°C)	Specific Conductivity (mmhos/cm)
MW-1	6/26/97	6.50	7.60	19.0	0.38
MW-2	6/27/97	9.70	7.60	15.0	2.80
MW-3	6/27/97	8.00	7.10	19.0	2.00
MW-4A	6/26/97	7.50	7.00	18.0	10.00
MW-5	6/26/97	8.40	8.00	15.0	2.75
MW-6	6/26/97	13.06	7.70	15.0	0.40
MW-7A	6/26/97	1.20	7.30	13.5	7.50

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

Tide Schedule for New Bedford on 26 June 1997:
 High Tide: 0405 and 16.44 hours.
 Low Tide: 1025 and 2252 hours.

Tide Schedule for New Bedford on 27 June 1997:
 High Tide: 0504 and 1752 hours.
 Low Tide: 1121 and 2353 hours.

Table 3

New Bedford Harbor Sawyer Street Site
 Quarterly Groundwater Sampling - 26 and 27 June 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	ND
	Dissolved	0.5	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Total	5.0	5.0	ND	ND	ND	4.2J	ND	ND	ND	ND	ND
	Dissolved	5.0	5.0	ND	ND	ND	4.2J	ND	ND	ND	ND	ND
Chromium	Total	100.0	100.0	ND	ND	ND	ND	ND	ND	ND	ND	12.6J
	Dissolved	100.0	100.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Total	1,300.0	NA	ND	ND	ND	82.0	ND	ND	ND	ND	8.8J
	Dissolved	1,300.0	NA	ND	ND	ND	36.0	ND	ND	ND	ND	ND
Lead	Total	15.0	15.0	7.7*	8.2*	ND	4.7*	ND	ND	2.2J	7.8*	
	Dissolved	15.0	15.0	3.7*	6.1*	15	16	10.6J	11.1	1.3J	3.1*	

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).

NA = Not Applicable.

ND = Not Detected.

J = Estimated value.

* = Matrix Spike/Matrix Spike Duplicate results did not meet quality control criteria for contaminant of concern. Result should be estimated and biased as high.

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.