



Navy CLEAN II Program
BNI Job No. 22214
Contract No. N68711-92-D-4670
File Code: 0218.1

IN REPLY REFERENCE: CTO-177/0187

July 18, 2001

Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Mr. Richard Selby, Code 02R1
1220 Pacific Coast Highway
San Diego, CA 92132-5190

Subject: Third Round - Analytical Results from IR Site 3, Groundwater Sampling Results from April 2001 at Groundwater Monitoring Well MW-3-05 Former Long Beach Naval Station, Long Beach, California

Dear Mr. Selby:

Groundwater samples from Installation Restoration (IR) Site 3 at the former Naval Station at Long Beach, California were collected and submitted to a laboratory for analyses during April 2001. The sampling represents the third round of sampling at IR Site 3 conducted as part of CTO-177. The samples were collected from groundwater monitoring well MW-3-05 and were analyzed for benzene and vinyl chloride.

The work was performed following the Final Work Plan for Groundwater Monitoring at Installation Restoration Program Sites 9, 12, and 13 at former Long Beach Naval Shipyard, Long beach, California prepared by Bechtel National, Incorporated (March 1999). A technical memorandum was issued by Bechtel National, Incorporated on May 22, 2000 describing the use of this work plan to perform the sampling required at IR Site 3.

Samples were collected from the well after three well volumes were purged from the well (approximately 30 gallons) and temperature, pH, conductivity, and turbidity readings stabilized. The samples were analyzed using United States Environmental Protection Agency Method 8260B. Quality control samples included: a field duplicate, trip blank, rinsate sample, and a field blank. Quality control samples were non detect for benzene and vinyl chloride. The samples were collected on January 9, 2001.

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Results were verified, validated, and entered into the Bechtel Environmental Integrated Data Management System.

Results from previous sampling by CDM Federal were reported in a draft Annual (Fourth Quarterly) Report for Groundwater Monitoring at IR Sites 1 and 2 (Area of Potential Concern 4) and 3 (Area of Potential Concern 2) at the former Naval Station at Long Beach California (July 7, 2000). Results from MW-3-05 for benzene ranged from 10 to 40 µg/L. Results from MW-3-05 for vinyl chloride ranged from 15 to 80 µg/L. The sampling was performed between July 1994 and April 1999. Results from August 2000 were 17/18 µg/L for benzene and 41/43 J (estimated concentration) for vinyl chloride. Two results are given because a regular sample was analyzed along with a field blank submitted to the laboratory for quality assurance. Results from January 2001 were 21/33 µg/L for benzene and 51/92 (estimated concentration) for vinyl chloride. Results from the subject round of sampling for April 2001 were 14/14 µg/L for benzene and 32/32 for vinyl chloride. These results are consistent with previously described analytical results.

Results from sampling conducted between July 1994 and April 2001 are shown on Figure 1 along with California Ocean Plan objectives for 1997. Benzene concentrations are consistently above the California Ocean Plan objective for benzene. Vinyl chloride concentrations from April 2001 are slightly below the California Ocean Plan objective for vinyl chloride. Reported vinyl chloride concentrations from the previous two rounds of sampling were slightly above the California Ocean Plan objective for vinyl chloride.

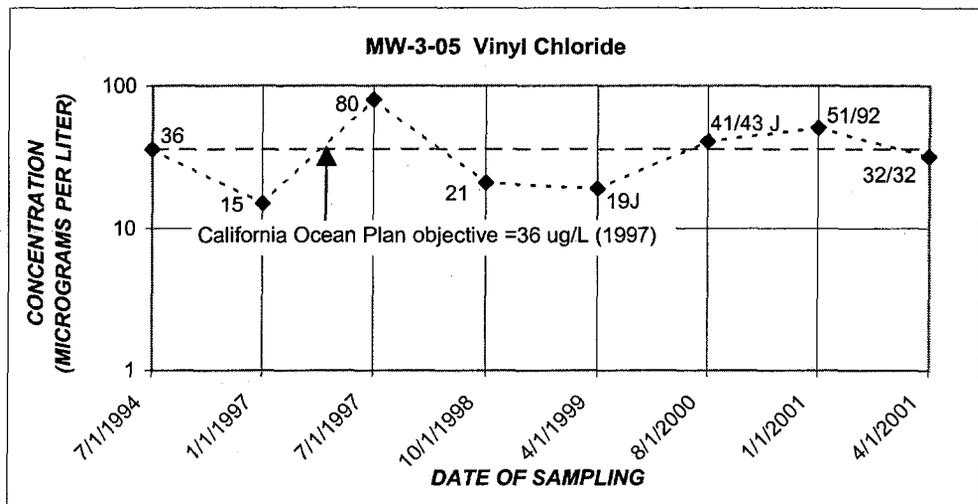
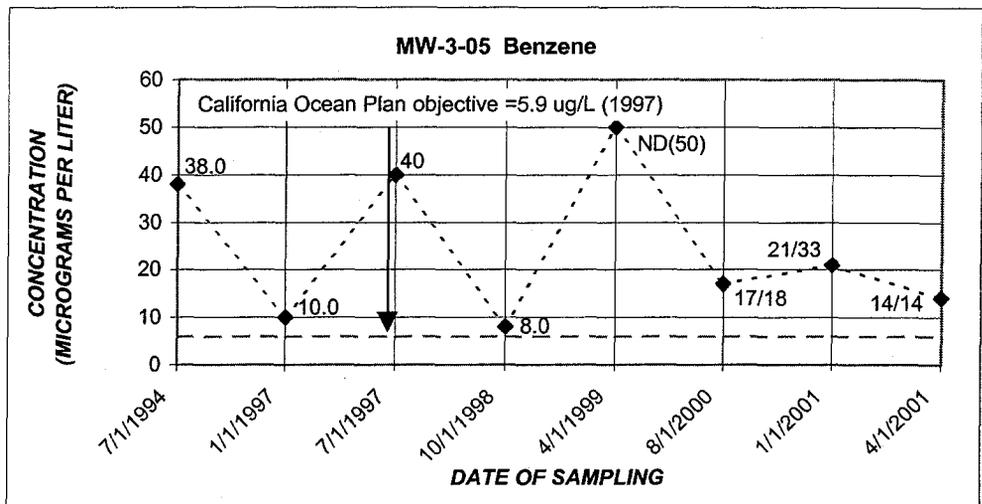
Additional sampling is scheduled on July 30, 2001.

If you have any questions, please contact Scott Donovan, CTOL, at (619) 744-3019 or myself at (619) 744-3004.

Sincerely,


Thurman L. Heironimus, R.G.
Project Manager

TLH/lsh



J = estimated concentration

ND = not detected (detection limit)

Data Reference: CDM Federal Programs Corp. July 07, 1998. Draft Annual (Fourth Quarterly) Report, Groundwater Monitoring IR Sites 1 and 2 (AOPC 4) and 3 (AOPC 2) Former Naval Station Long Beach, California (Figure 2-4)

**Benzene and Vinyl Chloride Concentrations
in MW-3-05 (July 1994 to April 2001)
IRP Site 3
Figure 1**

Former Naval Station, Long Beach, California



Bechtel National, Inc.
CLEAN II Program

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DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090
Ser 06CM.ED/0736
July 19, 2001

Ms. Ana Townsend
California Regional Water Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Dear Ms. Townsend:

The enclosed report is provided for your information and use. If you have any questions, please call Mr. Ed Dienzo at (619) 532-0920.

Sincerely,

THOMAS L. MACCHIARELLA
BRAC Environmental Coordinator
By direction of the Commander

Encl: (1) Third Round -Analytical Results from IR 3, Groundwater Sampling Results from April 2001 at Groundwater Monitoring Well MW-3-05 Former Long Beach Naval Station, Long Beach, California

Copy to:
Ms. Sue Hakim
Department of Toxic Substances Control
5796 Corporate Way
Cypress, CA 90630

Mr. Martin Hausladen
U.S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, CA 94105



BECHTEL NATIONAL INC.

CLEAN II TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N-68711-92-D-4670

Document Control No. CTO-0177/0187

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TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Mr. Richard Selby, Code 02R1
1220 Pacific Highway
San Diego, CA 92132-5190

DATE: July 18, 2001
CTO #: 0177
LOCATION: Long Beach Naval Station

FROM: [Signature]
Thurman L. Heironimus, Project Manager

DESCRIPTION: Third Round - Analytical Results from IR Site 3, Groundwater Sampling Results
from April 2001 at Groundwater Monitoring Well MW-3-05 - DTD 7/18/2001

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O = Original Transmittal Sheet
C = Copy Transmittal Sheet
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Date/Time Received