



N60258.000127
NSY LONG BEACH
SSIC #5090.3

Navy CLEAN II Program
BNI Job No. 22214
Contract No. N68711-92-D-4670
File Code: 0218.1
IN REPLY REFERENCE: CTO-177/0169

March 26, 2001

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

Subject: Analytical Results from January 2001 Sampling at Area of Concern 10 (Building 128) at the Former Long Beach Naval Shipyard, Long Beach, California

Dear Mr. Selby:

Groundwater and soil samples from Area of Concern (AOC) 10 at the former Naval Shipyard at Long Beach, California were collected and submitted to a laboratory for analyses during January 2001. The samples were collected from four direct-push sample boreholes located around former sample location T10c. Previous groundwater sampling at T10c indicated bis(2-ethylhexyl)phthalate and mercury were present above screening criteria. The four new locations, T10d through T10g, were advanced around T10c on January 9, 2001 and are shown on Figure A.7-13. Samples were collected on January 9, 2001. Soil samples were collected at 5 feet below the ground surface and groundwater samples were collected at the surface of the water table (7 to 11 feet below the ground surface).

The work was performed following the Final Work Plan Addendum Number 3 for Area of Concern Number 10 (Process Tank) Building 128 at former Long Beach Naval Shipyard, Long Beach, California prepared by Bechtel National, Incorporated (December 2000). Work Plan Addendum Number 3 was used in conjunction with an existing final Work Plan, Field Sampling Plan, and Quality Assurance Project Plan prepared by Camp Dresser & McKee (1998).

Results were verified, validated, and entered into the Bechtel Environmental Integrated Data Management System and verified and validated results are presented in Table 1. Quality control samples included: a field duplicate for groundwater, rinsate sample, and a field blank. Quality control samples were non detect for bis(2-ethylhexyl)phthalate and mercury.

The screening criteria for bis(2-ethylhexyl)phthalate in soil is the industrial Preliminary Remediation Goal from U.S. EPA Region IX (210 mg/kg). The screening criteria for mercury in soil is a background

level calculated for Long Beach Naval Shipyard (2.5 mg/kg). The screening criteria for bis(2-ethylhexyl)phthalate in groundwater is 3.5 µg/L from the California Ocean Plan for human health (30-day average/aquatic organism consumption only). The screening criteria for mercury in groundwater is 0.04 µg/L from the California Ocean Plan for human health (30-day average/aquatic organism consumption only) and 0.9 µg/L is the background level for mercury in groundwater calculated for Long Beach Naval Shipyard.

A land survey of the boreholes was also performed using the California Coordinate System for horizontal locations and mean lower low water (MLLW) for vertical elevations. Results are presented in Table 2.

Table 1
Analytical Results

Sample Location	Sample Type	Analyte Name	Result	Result Units	Qualifier	Screening Criteria
T10D	Regular	bis(2-ethylhexyl)phthalate	0.350	mg/kg	U	210 mg/kg
T10E	Regular	bis(2-ethylhexyl)phthalate	0.360	mg/kg	U	210 mg/kg
T10F	Regular	bis(2-ethylhexyl)phthalate	0.690	mg/kg		210 mg/kg
T10G	Regular	bis(2-ethylhexyl)phthalate	0.130	mg/kg	J	210 mg/kg
T10D	Regular	Mercury	0.04	mg/kg	U	2.5 mg/kg
T10E	Regular	Mercury	0.04	mg/kg	U	2.5 mg/kg
T10F	Regular	Mercury	0.04	mg/kg		2.5 mg/kg
T10G	Regular	Mercury	0.04	mg/kg		2.5 mg/kg
T10D	Regular	bis(2-ethylhexyl)phthalate	5	µg/L	U	3.5 µg/L
T10D	field duplicate	bis(2-ethylhexyl)phthalate	5	µg/L	U	3.5 µg/L
T10E	Regular	bis(2-ethylhexyl)phthalate	5	µg/L	U	3.5 µg/L
T10F	Regular	bis(2-ethylhexyl)phthalate	5	µg/L	U	3.5 µg/L
T10G	Regular	bis(2-ethylhexyl)phthalate	5	µg/L	U	3.5 µg/L
T10D	Regular	Mercury	0.2	µg/L	U	0.04 ug/L/0.9 µg/L
T10D	field duplicate	Mercury	0.2	µg/L	U	0.04 ug/L/0.9 µg/L
T10E	Regular	Mercury	0.2	µg/L	U	0.04 ug/L/0.9 µg/L
T10F	Regular	Mercury	0.2	µg/L	U	0.04 ug/L/0.9 µg/L
T10G	Regular	Mercury	0.2	µg/L	U	0.04 ug/L/0.9 µg/L
Field quality control	field blank	Mercury	0.2	µg/L	U	Not applicable
Field quality control	Equipment rinsate	Mercury	0.2	µg/L	U	Not applicable
Field quality control	field blank	bis(2-ethylhexyl)phthalate	5	µg/L	U	Not applicable
Field quality control	Equipment rinsate	bis(2-ethylhexyl)phthalate	5	µg/L	U	Not applicable

Notes:

J equals an estimated concentration

U equals nothing reported above the reporting limit (reporting limit shown in result column)

Table 2
Land Survey Results

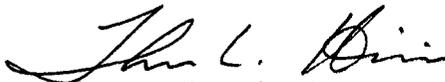
Location	Northing (California Coordinate System)	Easting	Vertical Elevation (mean lower low water)
T10c	1734742.7	6491566.5	-1.58
T10d	1734744.5	6491574.2	-1.53
T10e	1734746.0	6491563.8	-1.65
T10f	1734737.7	6491568.4	-1.62
T10g	1734740.7	6491560.3	-1.68

Bis(2-ethylhexyl)phthalate and mercury concentrations in soil are below the screening criteria. Bis(2-ethylhexyl)phthalate concentrations in groundwater are below the reporting limit. The reporting limit is 1.5 µg/L above the screening criteria. It was stated in the work plan addendum that the lowest available reporting limit for bis(2-ethylhexyl)phthalate would be slightly above the screening criteria. Mercury concentrations in groundwater are below the reporting limit. The reporting limit for mercury in groundwater is above the screening criteria. The reporting limit of 0.2 µg/L is the lowest available reporting limit for mercury in groundwater. The reporting limit for mercury in groundwater is below background concentrations for mercury in groundwater.

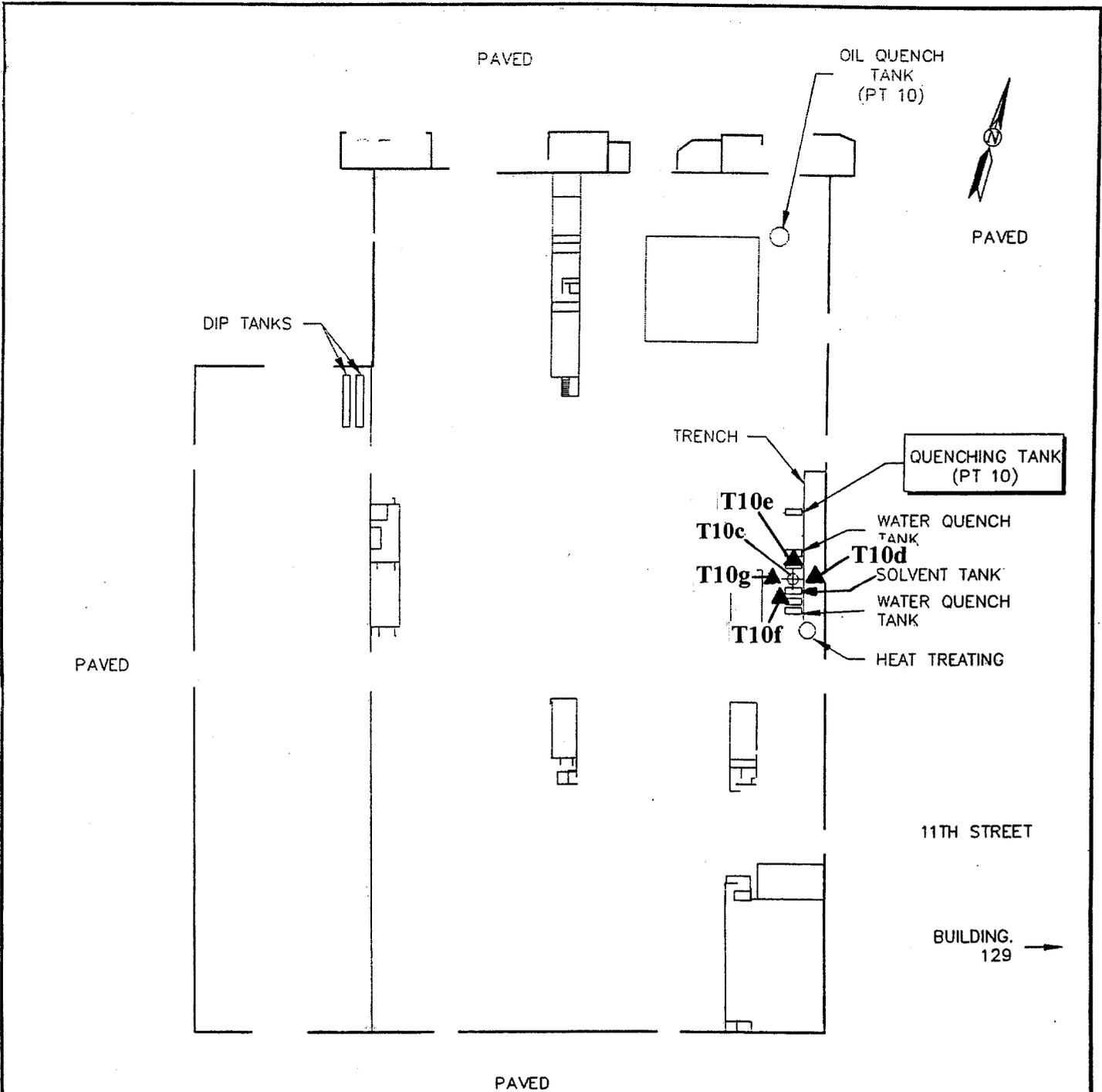
Data quality objectives in the work plan addendum stated that further action would be recommended if results exceeded screening criteria and no further action would be recommended if analytical results were below screening criteria. The previous description of analytical results as compared to screening criteria indicates no further action is warranted for AOC 10.

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

Very Truly Yours,


Thurman L. Heironimus
Project Manager

TLH/lsh



AOC = AREA OF CONCERN
 PT = PROCESS TANK
 ▲ SAMPLE LOCATIONS FROM JANUARY 2001
 ⊕ SAMPLE LOCATION T10c

Modified from Figure A.7-13 by CDM Federal
 See Reference CDM Federal 1998

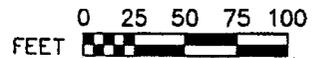


Figure A.7-13
Sampling Locations, AOC PT 10

Former Long Beach Naval Shipyard, Long Beach, California



Bechtel National, Inc.
 CLEAN II Program

Date: 10/11/00
 File No. 94000x
 Job No. 22214



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

5090
Ser 06CA.ED/0335
March 28, 2001

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

Dear Ms. Hakim:

The enclosed letter report is provided for your review. Please send your written comments by April 17, 2001 to:

COMMANDER
Attn: Mr. Ed Dienzo, (Code 06CA.ED)
BRAC Operations Office
1220 Pacific Highway
San Diego, CA 92132-5190

If you have any questions, call Mr. Ed Dienzo at (619) 532-0920.

Sincerely,

A handwritten signature in black ink, appearing to read "John Hill for", written over the typed name of Thomas L. Macchiarella.

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

Encl: (1) Analytical Results from January 2001 at Area of Concern 10 (Building 128) at the Former Long Beach Naval Shipyard, Long Beach, California

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

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-0177/0169

File Code: 0218.1

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

DATE: March 26, 2001
CTO #: 0177
LOCATION: Long Beach Naval Shipyard

FROM: *Thurman L. Heironimus*
Thurman L. Heironimus, Project Manager

DESCRIPTION: Analytical Results from January 2001 Sampling at Area of Concern 10 at Building 128
DTD - 3/26/2001

TYPE: Contract Deliverable CTO Deliverable Change Notice/Project Note
 Other

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(e.g., Draft, Draft Final, Final, etc.)

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NUMBER OF COPIES SUBMITTED: OE/6C/8E

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<u>Basic Contract File, 02R1 (1C/1E)</u>	<u>S. Donovan (1C/1E)</u>	_____
<u>E. Dienzo, 06CT.ED (1C/3E)</u>	<u>PDCC (1C/1E)</u>	_____
<u>C. Leadon, 4EN.CL (1C/1E)</u>	_____	_____
<u>D. Silva, 4MG.DS (1C/1E for IR, 2C/2E for AR)</u>	_____	_____

O = Original Transmittal Sheet
C = Copy Transmittal Sheet
E = Enclosure

Date/Time Received