



FOSTER WHEELER ENVIRONMENTAL CORPORATION

June 5, 1998
File #: 1284-0009-98-0272

Commanding Officer
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop #82
Lester, PA 19113
Attn: Code 402A (P. Briegel)

SUBJECT: US NAVY NORTHERN DIVISION
REMEDIAL ACTION CONTRACT (RAC)
CONTRACT NO. N62472-94-D-0398
DELIVERY ORDER NO. 0009 - NAVAL AIR WARFARE CENTER,
TRENTON, NEW JERSEY
POST-REMEDICATION LETTER REPORT
BAROMETRIC WELL DECOMMISSIONING

Dear Mr. Briegel:

Foster Wheeler Environmental Corporation (FWENC) is pleased to provide you with this Post-Remediation Report associated with the Barometric Well (Barowell) decommissioning at the Naval Air Warfare Center (NAWC) located in Trenton, New Jersey. This Post-Remediation Report has been prepared in accordance with the requirements of the above-referenced Delivery Order. All work was performed in accordance with the approved letter-workplan dated July 29, 1997.

MOBILIZATION

Mobilization of FWENC personnel and site equipment had already occurred since there were other ongoing tasks being performed at the site. Site personnel attended a site health and safety orientation prior to the commencement of field activities. FWENC's Senior Project Engineer/Manager and Site Superintendent also attended a kickoff meeting with Ken Smith of NAWC on October 2, 1997 prior to the commencement of field activities.

FLOOR DRAIN CLOSURE

The ground level floor drains in Building Nos. 21, 27, 40, 41, 42, 43, 44, 45, 46, and 47 were pressure-flushed with clean city water and sealed utilizing grout. Floor drains and sink drains located above the ground floor level were cut off where they entered the drain system to prevent any drainage from entering the Barowell system. Prior to pressure-flushing each floor drain, air monitoring was conducted utilizing a PID. No levels above background were detected at any of the

floor drains. Also, a visual inspection of each floor drain was performed to determine if any visible mercury was present. Mercury was not visibly observed at any of the floor drains. Further, flushed water was observed to be clean at various locations on route to the Barowell: at the Building 42 sump; at Building 44 Brine House; and at the sumps that are part of the process prior to discharge to the Barowell.

BAROWELL SOIL SAMPLING

The Navy and FWENC re-evaluated the plan to excavate around the Barowell to cut piping. It was determined that sealing the pipes from the inside of the Barowell would accomplish the task without the cost and liability of the planned excavation. Therefore, to characterize the soil adjacent to the Barowell, three soil samples from soil borings were collected on February 4, 1998. These soil borings were located 5 to 8 feet away from the Barowell at a depth corresponding to the influent pipes (approximately 8 to 10 feet below the ground surface). The soil samples were collected utilizing a Geoprobe 2-inch by 4-foot macro core. The samples were collected in acetate sleeves, which eliminated the need for decontamination and rinsate blank collection. The three soil samples and one duplicate soil sample were analyzed for TCL Volatile Organic Compounds (VOCs) - methanol preservation method, TCL Base Neutrals (BNs), TAL Metals, and TPH analysis. A figure showing the sample locations is attached.

The analytical results were compared to New Jersey's non-residential soil cleanup criteria to determine if remedial action would be required around the Barowell. Two of the three soil samples did not have any exceedances but the soil sample collected north of the Barowell exceeded the soil criteria for arsenic. After the Navy conferred with NJDEP, it was determined that no further action was required in the area adjacent to the Barowell. Copies of analytical results have already been submitted to the Navy.

BAROWELL DECOMMISSIONING

On March 9, 1998, interior structural removal of the Barowell commenced. On March 16, 1998, FWENC laborers entered the Barowell to continue removal of interior structures and piping. The influent pipes were cut to within one foot of the Barowell interior wall. All interior structures and piping were placed in roll-off containers to await off-site recycling. On March 31, 1998, the influent pipes were plugged with grout. Also, sediment at the bottom of the Barowell was vacuumed utilizing a vacuum truck and placed in 55-gallon drums after settling. On April 1, 1998, the interior of the Barowell was pressure washed. The water generated was tested for TAL Metals, TCL VOCs, TCL BNs and TPH. Following Navy review of analytical results, the water was sent to the on-site groundwater treatment system with ultimate discharge to the sanitary sewer system following treatment.

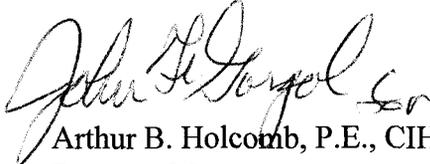
NJDEP and Navy performed a visual review of the condition of the Barowell and determined that no groundwater was infiltrating since there was no evidence of cracks or damage to the



interior walls. Backfilling of the Barowell commenced on April 21, 1998 and was completed by May 4, 1998. No. 10 screenings were used as backfill material. An 8-inch concrete cap was poured on top of the Barowell on May 5, 1998. Following Navy direction, a 4-inch slotted PVC riser pipe was installed during backfilling operations that runs through the entire depth of the Barowell so that future water level measurements may be taken. On May 5, 1998, FWENC's Site Superintendent conducted a site walkthrough with Ken Smith. Mr. Smith approved the backfilling operation and new cap. Photographic documentation of the activities described above will be provided under separate cover.

Please call me or the Delivery Order Manager, Dan Kopcow, if you should have any questions or comments regarding this Workplan.

Sincerely,


Arthur B. Holcomb, P.E., CIH
Program Manager

cc: Ken Smith, NAWC
Dan Kopcow, FWENC
Don Vogen, FWENC



FOSTER WHEELER ENVIRONMENTAL CORPORATION

BY _____ DATE _____

SHEET _____ OF _____

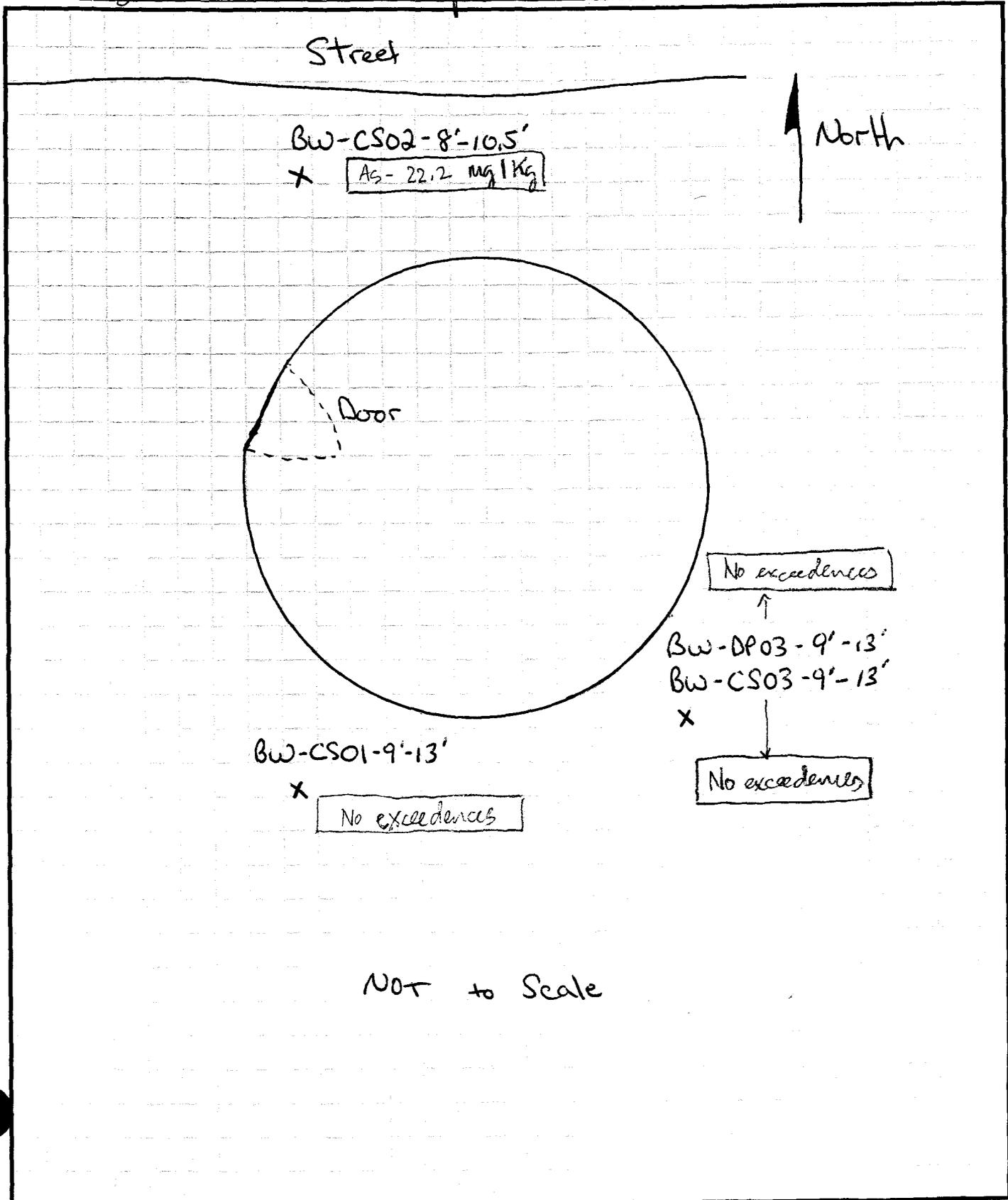
CHKD. BY _____ DATE _____

OFS NO. _____ DEPT. NO. _____

CLIENT North DIV

PROJECT NAWC Trenton

SUBJECT Barometric Well Sample Results



NOT to Scale