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NAS CECIL FIELD, FL
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# SAMPLING AND ANALYSIS OUTLINE FOR BUILDING 631 WATER TOWER BASE REALIGNMENT AND CLOSURE NAS CECIL FIELD FL

1/1/1999

TETRA TECH NUS INC

# Sampling and Analysis Outline
for
# Building 631 Water Tower
# Base Realignment and Closure

# Naval Air Station
# Cecil Field
# Jacksonville, Florida

## Southern Division
## Naval Facilities Engineering Command

**Contract Number N62467-94-D-0888**

**Contract Task Order 0078**

January 1999

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# SAMPLING AND ANALYSIS OUTLINE
# FOR
# BUILDING 631 WATER TOWER
# BASE REALIGNMENT AND CLOSURE

## NAVAL AIR STATION CECIL FIELD
## JACKSONVILLE, FLORIDA

**COMPREHENSIVE LONG-TERM**
**ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

**Submitted to:**
**Southern Division**
**Naval Facilities Engineering Command**
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# FIGURES

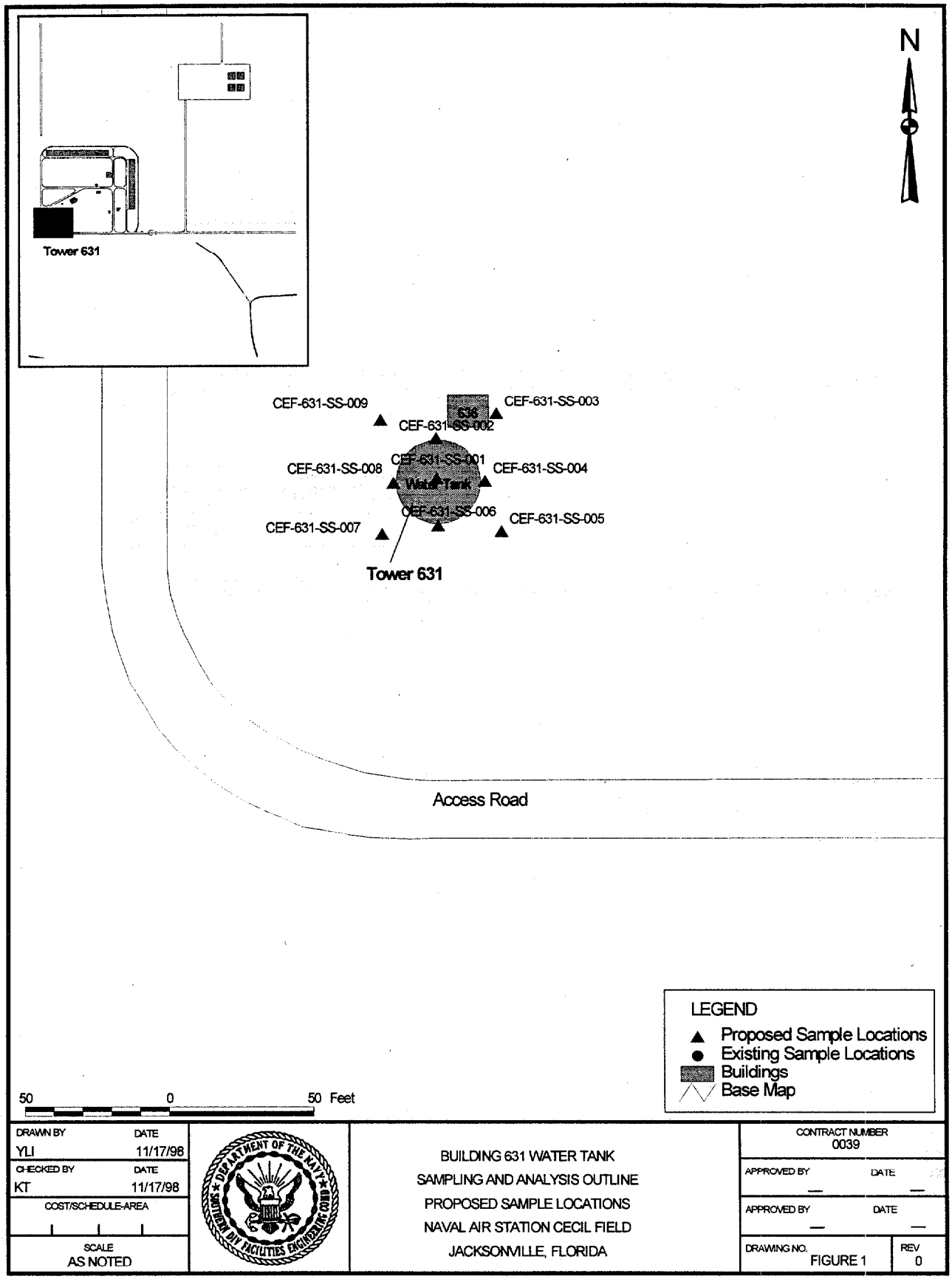
# ACRONYMS

| | |
|---|---|
| ABB-ES | ABB Environmental Services, Inc. |
| BRAC | Base Realignment and Closure |
| CLP | Contract Laboratory Program |
| DQO | Data Quality Objective |
| EBS | Environmental Baseline Survey |
| NAS | Naval Air Station |
| PCB | Polychlorinated Biphenyl |
| PRE | Preliminary Risk Evaluation |
| SAO | Sample and Analysis Outline |
| SAR | Sampling and Analysis Report |
| TtNUS | Tetra Tech NUS, Inc. |
| YWWC | Yellow Water Weapons Complex |

# 1.0 SITE DESCRIPTION

This Base Realignment and Closure (BRAC) Phase II Sampling and Analysis Outline (SAO) briefly describes and proposes a plan for assessment of Building 631 located at the Yellow Water Weapons Complex (YWWC), Naval Air Station (NAS) Cecil Field. Building 631 is referenced as a Water Tank in the NAS Cecil Field Environmental Baseline Survey (EBS), but it is actually a Water Tower (ABB-ES, 1994). The facility is located in a grassy area at the southwestern corner of the YWWC (Figure 1).

Building 631 is a steel water tower that was constructed in 1959. The water tower has always been used as a potable water storage tank. The tower stands 100 feet tall and has a 75,000-gallon capacity.

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| DRAWN BY: YLI — DATE: 11/17/98 | | | CONTRACT NUMBER: 0039 |
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| COST/SCHEDULE-AREA | | | APPROVED BY: — DATE: — |
| SCALE: AS NOTED | | BUILDING 631 WATER TANK<br>SAMPLING AND ANALYSIS OUTLINE<br>PROPOSED SAMPLE LOCATIONS<br>NAVAL AIR STATION CECIL FIELD<br>JACKSONVILLE, FLORIDA | DRAWING NO.: FIGURE 1 — REV: 0 |

P:\GIS\CECIL\TOWERS_TANKS.APR 11/09/98 YLI LAYOUT TANK 631

## 2.0 ENVIRONMENTAL BASELINE SURVEY COLOR DESIGNATION

Building 631 was color-coded 1/White in the EBS. The EBS presented no evidence or history of storage or disposal of hazardous substances or petroleum products at this facility. The structure appeared to free of damage. However, because the water tower is 39 years old, there is the possibility that the tank was painted with lead-based paint. The paint on the exterior of the water tower appeared to be in good condition; however, there has been no testing conducted to verify the presence of lead-based paint. Lead-based paint could have been released during sandblasting and repainting of the water tower.

# 3.0 RECOMMENDATIONS

Completion of the following program is recommended to assess the presence or absence of contamination in surface soil beneath and around the Building 631 Water Tower. To evaluate surface soil contamination, analysis for arsenic (Method 6010B), lead (Method 6010B), and polychlorinated biphenyls (PCBs) (Method 8082) is recommended.

There is a potential need for input of data into a Preliminary Risk Evaluation (PRE) if surface soil is contaminated. Contract Laboratory Program (CLP) deliverables are recommended to meet the data quality objective (DQO) for this site.

Applicable sample collection techniques, quality assurance objectives, quality control requirements, and sample handling and shipping procedures are outlined in the Base-wide Generic Work Plan (TtNUS, 1998). The proposed sampling locations are shown on Figure 1.

Nine surface soil samples (0 to 1 foot below ground surface) will be collected to evaluate the potential for surface soil contamination. One grab sample will be collected at each location and analyzed for lead. The samples from the location beneath the tower (CEF-631-SS-001) and a location adjacent to the tower (e.g., CEF-631-SS-004) will also be analyzed for arsenic and PCBs.

The results of the field investigation, data analysis, data validation, and PRE will be presented and evaluated in a Sampling and Analysis Report (SAR).

# REFERENCES

ABB-ES (ABB Environmental Services, Inc.), 1994. Base Realignment and Closure Environmental Baseline Survey, Naval Air Station, Cecil Field, Jacksonville, Florida. Tallahassee, FL.

TtNUS (Tetra Tech NUS, Inc.), 1998. Base-wide Generic Work Plan, Naval Air Station Cecil Field, Jacksonville, Florida. Pittsburgh, PA.