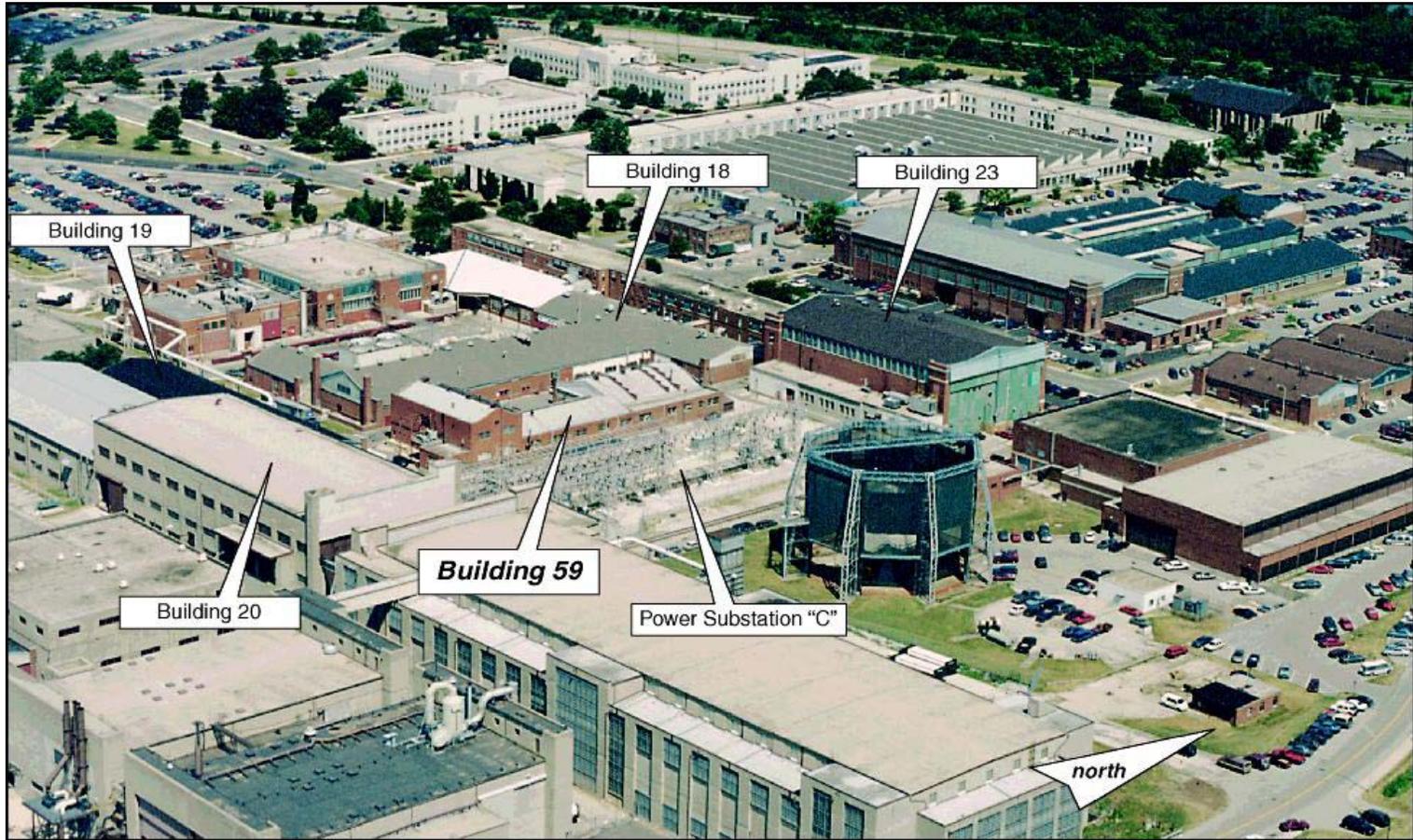


BUILDING 59, WPAFB, OH

- WAS SELECTED FOR DEMOLITION IN 1997
- A SITE INVESTIGATION (SI) WAS INITIATED WHEN WATER IN THE BASEMENT WAS FOUND TO BE CONTAMINATED WITH TCE
 - RECORDS SEARCH, AND BUILDING FAMILIARITY
 - DEVELOPMENT OF WORK PLAN
 - IDENTIFICATION OF POTENTIAL SOURCES
 - INSTALLATION OF MONITORING WELLS AND SOIL BORINGS
- EST COST \$230,000



Building 19

Building 18

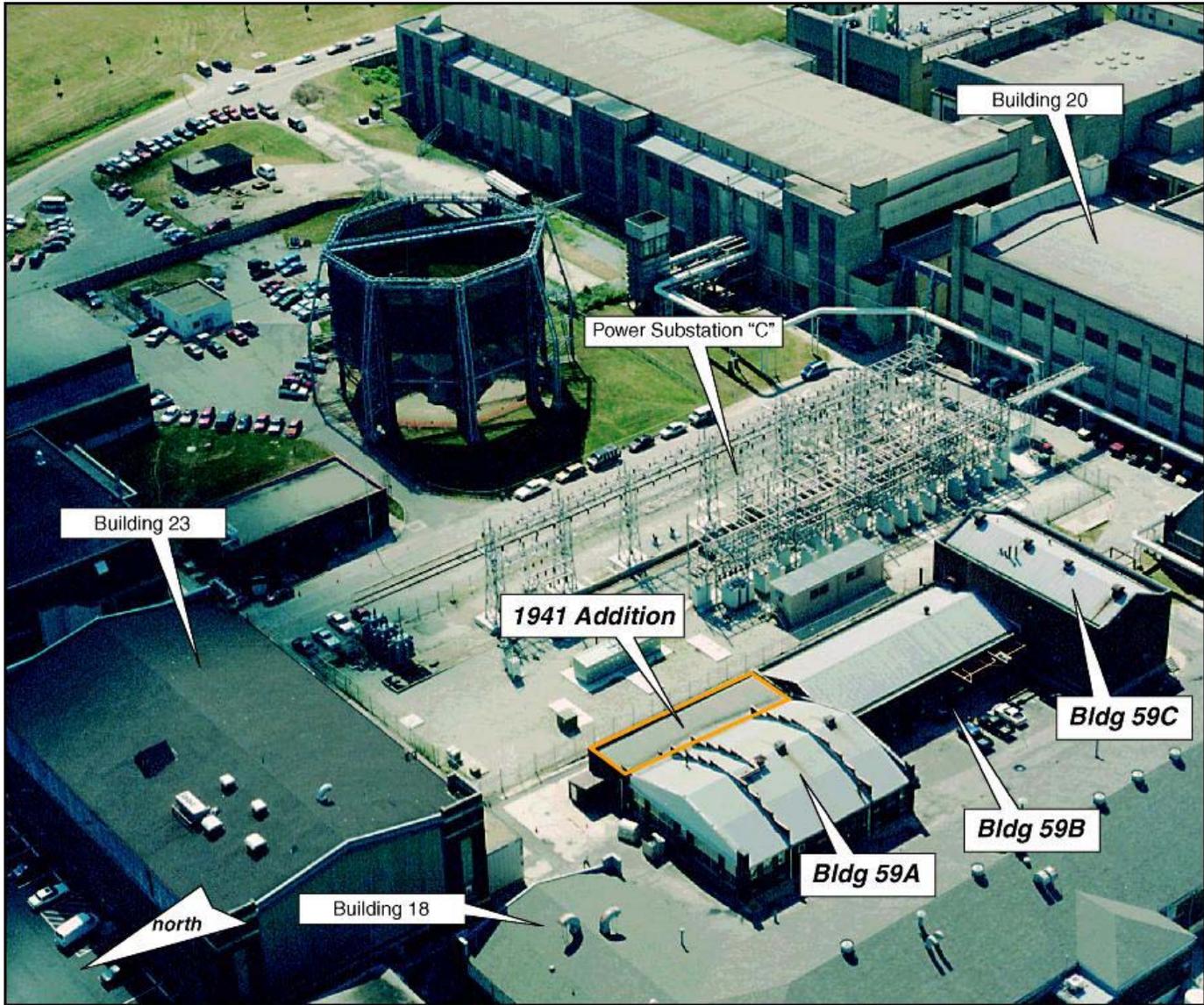
Building 23

Building 20

Building 59

Power Substation "C"

north



HISTORY

- CONSTRUCTED IN THREE SECTIONS 1932-43
 - BASEMENTS LOCATED UNDER PORTION OF SECTION “A” AND ALL OF “C”. MIDDLE SECTION “B” ON SLAB.
- PROPULSION AND EQUIPMENT RESEARCH LABORATORY AND STORAGE FACILITY
- SUMP PUMP FAILURE RESULTED IN FLOODING OF BASEMENT UNDER SECTION “A”
- BASEMENT WATER SAMPLE CONTAMINATED WITH VOCS

CONTAMINATION

- BASEMENT WATER (59A)
 - Initial testing revealed TCE (420 ug/L), 1,2-DCE (360 ug/L), Vinyl chloride (28 ug/L)
- GREASE INTERCEPTOR
 - SLUDGE with TCE at (490,000mg/kg)
- SUMPS
 - WATER- TCE at 360ug/L
 - SLUDGE- TCE at 190ug/kg

ACTIONS

- PROCEED WITH TYPICAL SI ACTIVITIES
- REMOVE OBVIOUS SOURCES
- ANALYZE GROUNDWATER, SUMP WATER, NEW FLOOD WATER, and SOILS ANALYTICAL DATA
- WHAT'S NEXT?

REGULATORY CONSENSUS

- CONTAMINANT MIGRATION QUESTIONS
- SOURCES NOT FULLY DEFINED
- MORE MONITORING WELLS NEEDED
- FLUXUATIONS IN CONCENTRATIONS
 - 59A WATER (TCE)
 - May 97- (420ug/L), Oct 98- (16ug/L), Jun 99-(131ug/L), Mar 01- (60ug/L)
 - -MW3
 - Oct98-(19ug/L), Apr99-(510ug/L), Jun99-(430ug/L), Apr00- (180ug/L), Apr01-(150ug/L), Oct01-(22ug/L)

PRE-DEMO ACTIVITIES

- PARTNER WITH CIVIL ENGINEERING, KEEP REGULATORS INVOLVED AND INFORMED
 - Make every effort to convey environmental concerns up front (document these)
 - Determine what restoration activities can be taken care of as part of demolition
 - Provide enough information to make informed decisions and provide adequate bid information
 - Additional data gathering
 - Continue to work with CE and Contracting throughout the demolition contract (GOOD OVERSIGHT)

RESTORATION

- ACCOMPLISHED DURING DEMO
 - 350 TONS OF TCE CONTAMINATED SOIL REMOVED FROM UNDER SITE
 - REMOVAL OF SUMPS
 - SEARCH FOR USTs, AND OTHER SOURCES

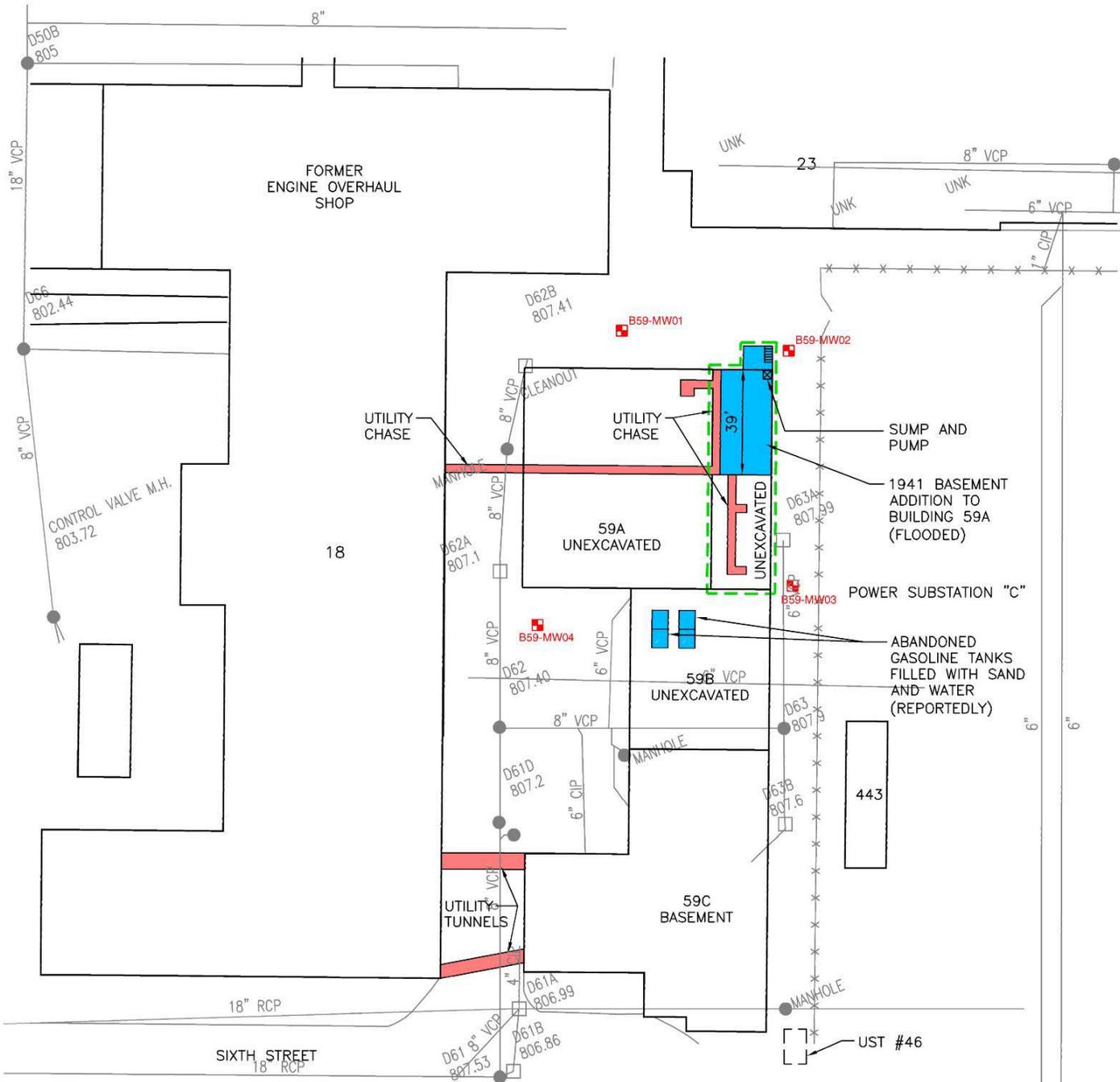












LEGEND:

- SI SOIL BORING/ MONITORING WELL LOCATION
- BOUNDARY OF THE 1941 ADDITION TO BUILDING 59A
- MANHOLE
- STORM WATER INLET

