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MINUTES FROM SIXTH TECHNICAL REVIEW COMMITTEE MEETING, NSB KINGS BAY GA

10/28/1993
NSB KINGS BAY

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Minutes of Meeting
Technical Review Committee (TRC)
Old County Landfill, Site No.11

Meeting No. 6
Location: Public Works Conference Room, SUBASE Kings Bay, GA
Time & Date: 1030, 28 October 1993

Attendees	Representing
LCDR Mike Patterson	SUBASE Public Works
John Garner	Public Works Environmental
Bob Stellar	SUBASE Public Affairs
Ed Lohr	SOUTHNAVFACENGCOM
Bill Barker	GA Dept of Transportation
John Peterson	Camden County Administrator
Tracey Keel	ABB-ES
Laura Harris	ABB-ES
Valerie Rule	ABB-ES
Bill Blankenship	Resident

1. The Chairman, LCDR Mike Patterson, outlined the agenda for the meeting, read the minutes of the previous TRC meeting and asked TRC members to introduce themselves.

2. The Committee discussed the need to make residents aware of the noisy drill rigs before actual drilling started in front of homes. ABB-ES agreed to advise the residents verbally in advance. Bob Stellar agreed to coordinate with ABB-ES. A future media visit was discussed to make the general public aware of the purpose and schedule of drilling operations.

3. The question of City acceptance of treatment effluent was discussed. SUBASE letter has gone to the City requesting permission to discharge into City sewer system. LCDR Patterson agreed to coordinate this issue directly with the City. A visit to the City's wastewater treatment plant is scheduled to allow ABB to evaluate the City's capability to handle the treated effluent. The alternative is to discharge into the SUBASE system.

4. Tracey Keel of ABB-ES presented the status of Site Set-Up construction. At the time of the TRC meeting, construction was nearly complete.

5. Laura Harris of ABB-ES briefed the TRC on the RFI Workplan. In particular, location and type of sampling to be conducted (soil samples, air samples, groundwater samples, etc.).

6. Valerie Rule of ABB-ES briefed the TRC on the IM Workplan. In particular, the pilot scale test was discussed including the location of recovery wells and schedule of activities leading up to treating of the groundwater.

7. Concern was expressed about the status of the completion of

the formal Administrative Record (AR). Ed Lohr of SOUTHNAVFACENGCOM stated that the AR would be complete within one month. (Update: Administrative record was received on 15 November and copy will be placed in the St. Mary's Library).

8. It was agreed that the next TRC meeting would be held when the RFI is complete and data is available to make some conclusions about the full extent and location of contamination at the landfill. Mid-January was discussed as an approximate time frame.

AGENDA

TECHNICAL REVIEW COMMITTEE MEETING
October 28, 1993

I. INTRODUCTION - CMDR. Mike Patterson, Chairman

II. MINUTES OF LAST MEETING - Attached

III. ABB ENVIRONMENTAL SERVICES PRESENTATION

1. RFI Workplan Brief - Laura Harris
2. IM Workplan Brief - Valarie Rule
3. Well Drilling/Construction Update - Tracey Keel

IV. DISCUSSION/CONCLUSIONS

1. Treatment Effluent Discharge and Visit to St. Marys POTW
2. GaDNR response to IDW, CAP and Workplans

TECHNICAL REVIEW COMMITTEE MEETING

NAVAL SUBMARINE BASE
KINGS BAY, GEORGIA

OCTOBER 28, 1993

AGENDA

- Supplemental RFI
  - Purpose
  - Activities Planned
  - Progress To Date
- Interim Measure
  - Purpose
  - Activities Planned
  - Progress To Date
- Progress To Date

PURPOSE

- Previous investigations used screening approach and concentrated on VOCs.
- Confirmation information needs to be collected.
- Information is needed to support the health and environmental assessment and corrective action study.

SUPPLEMENTAL RFI

- Air Sampling
- Surface Water and Sediment Sampling
- Surface Soil Sampling
- Test Trenching
- Borehole Geophysics
- Subsurface Soil Sampling
- Monitoring Well Installation
- Groundwater Sampling
- Topographic and Elevation Survey
- Ecological Survey
- Public Health Survey

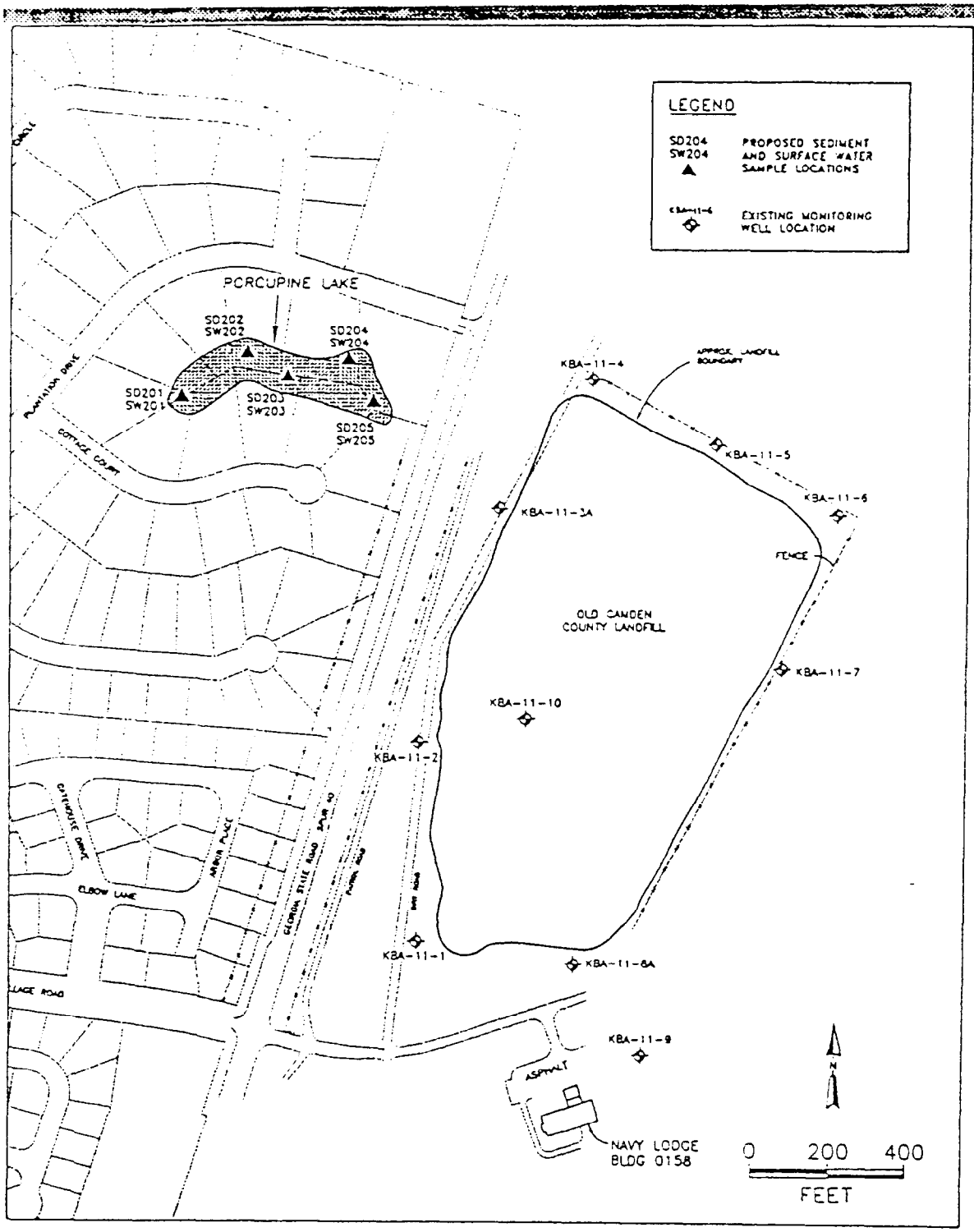
AIR SAMPLING

- Baseline Air Quality Characterization
- During Excavation of Test Trenches at Landfill

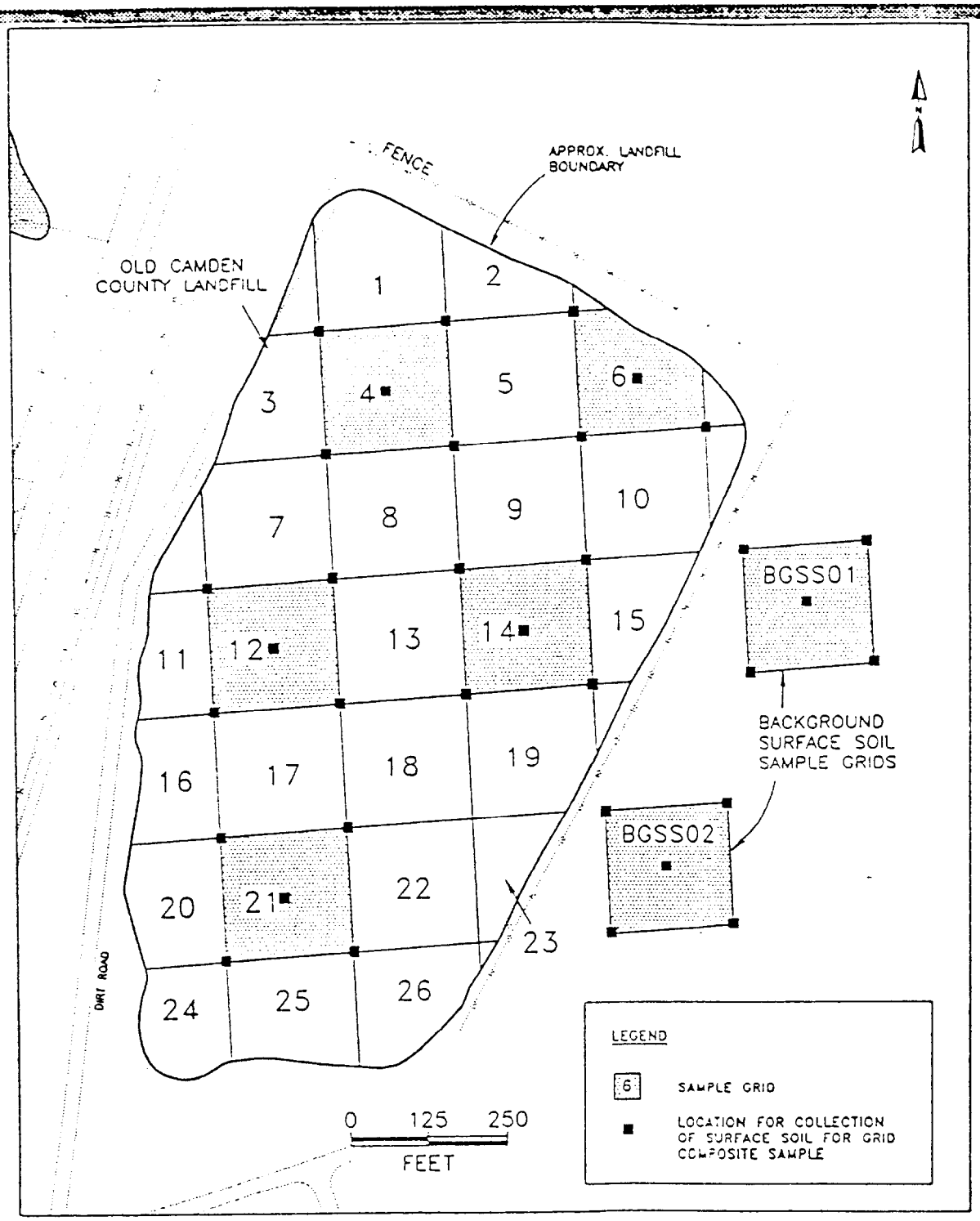
AIR SAMPLING

- Around Perimeter of Site 11
- In Crooked River Plantation Subdivision
- Upwind and Downwind Location
- Real-Time Measurements of Vinyl Chloride
  - During Excavation of Test Trenches in Landfill
- Laboratory Samples for VOCs

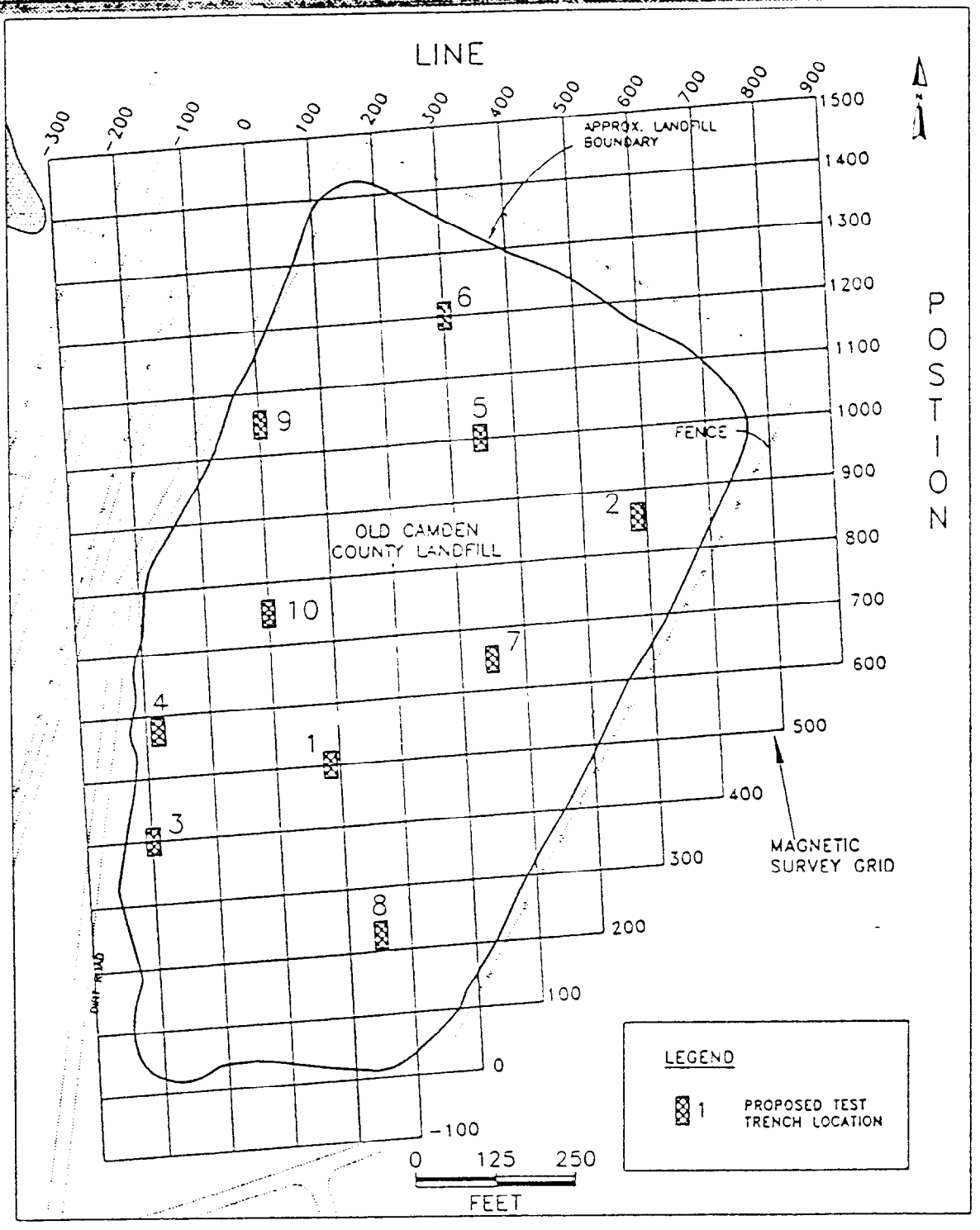
PROPOSED SEDIMENT AND SURFACE WATER SAMPLE LOCATIONS



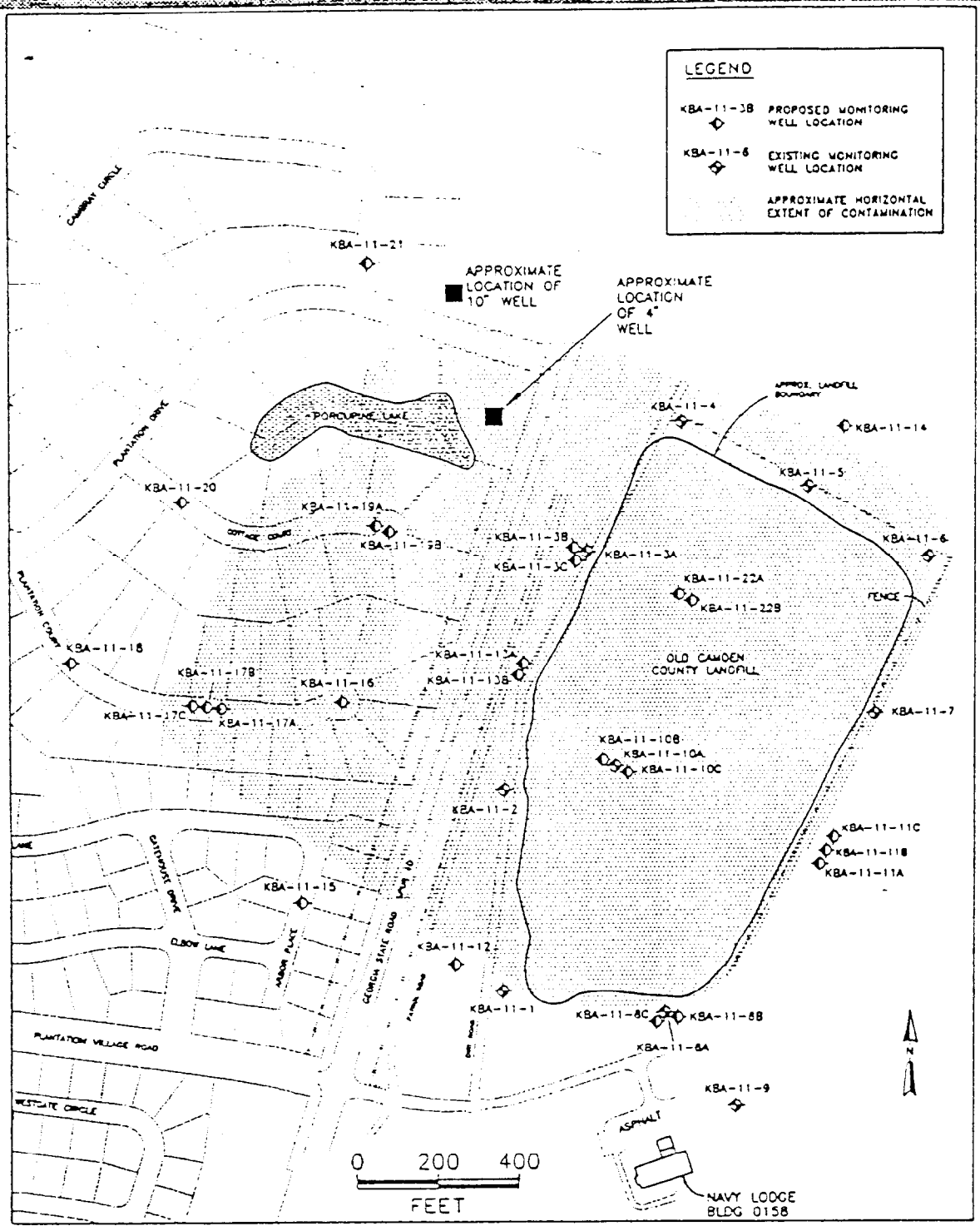
PROPOSED LOCATIONS FOR COMPOSITE SURFACE SOIL SAMPLES



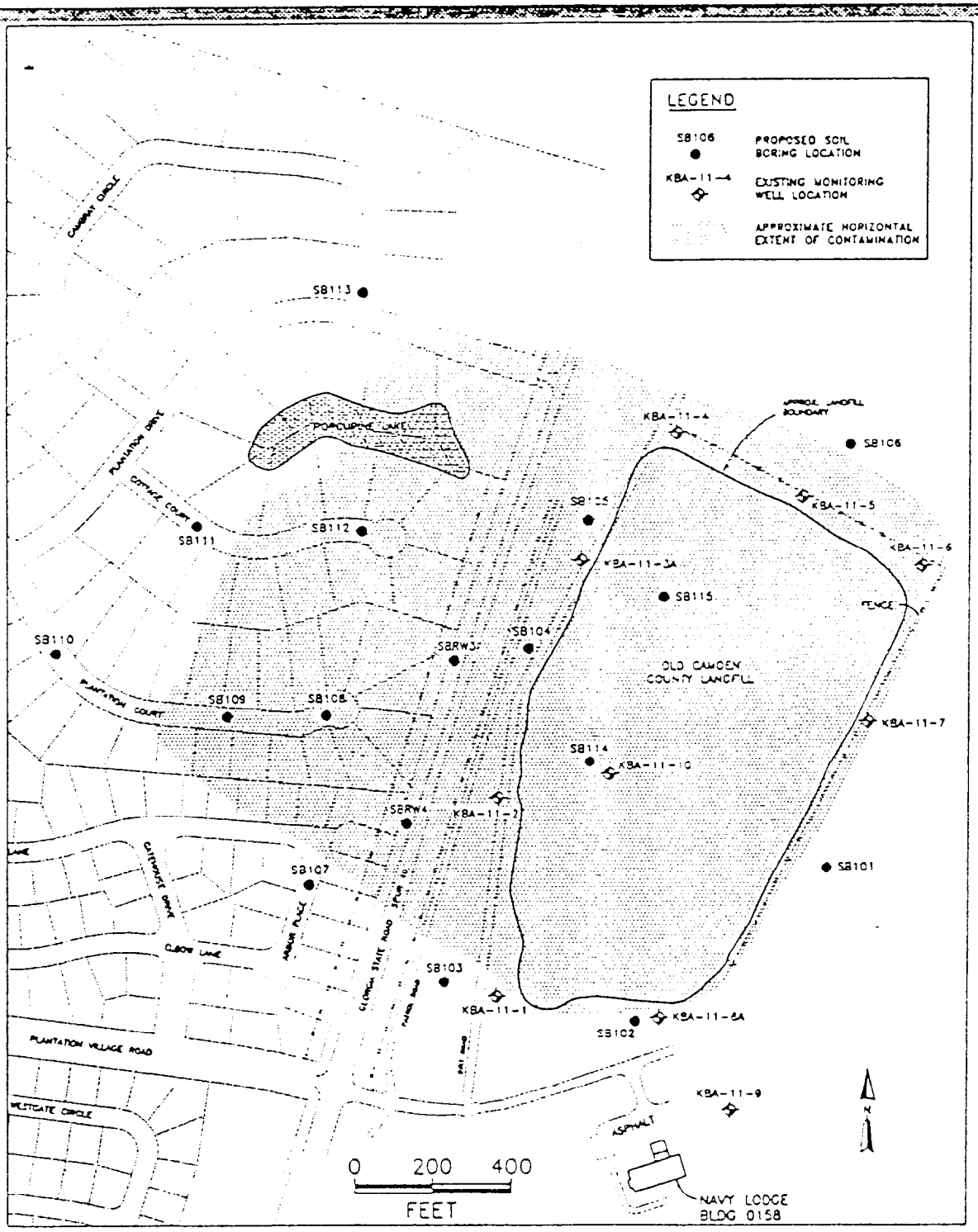
PROPOSED TEST TRENCH LOCATIONS



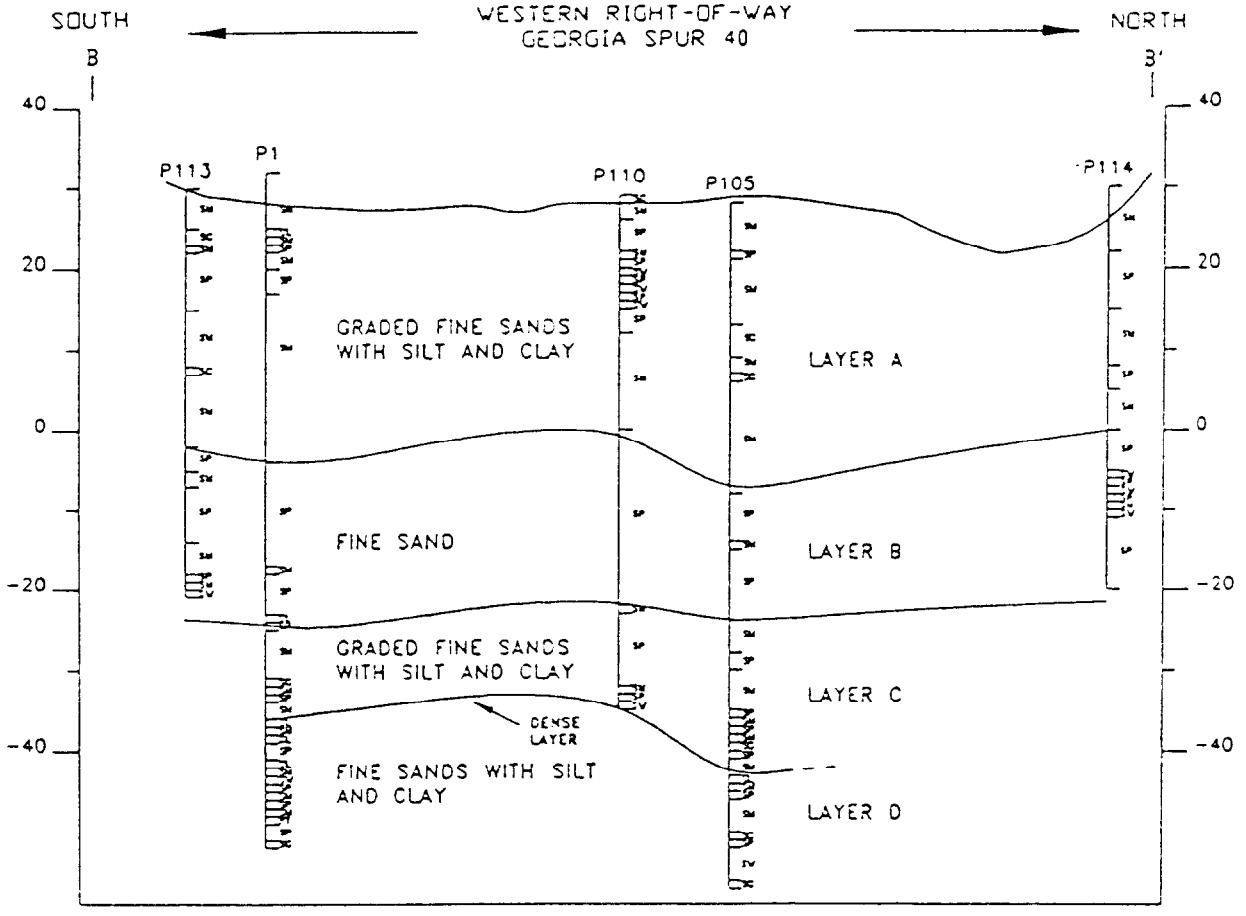
EXISTING AND PROPOSED MONITORING WELL LOCATIONS



PROPOSED SOIL BORING LOCATIONS



STRATIGRAPHIC CROSS SECTION



0 100 200
FEET

LEGEND

STRATIGRAPHIC CONTACT

P114 PIEZOCONE SAMPLE LOCATIONS AND ASSOCIATED UNIFIED SOIL CLASSIFICATION SYSTEM SOIL TYPES

NOTES:
ELEVATION IN FEET MEAN LOW WATER
VERTICAL EXAGGERATION 10x
REFER TO FIGURE 2-11 FOR LOCATION OF CROSS SECTION

ECOLOGICAL SURVEY

- Collect information on the ecological setting of Porcupine Lake, of Site 11, and surrounding area
- Identify possible wildlife species which may inhabit the area
- Basis for selecting potential routes of exposure for ecological receptors

PUBLIC HEALTH SURVEY

- Conduct area reconnaissance, interviews, and records search
- Collect information on activities at the subase, as well as in the community
- Basis for selecting potential routes of exposure for human receptors

HEALTH AND ENVIRONMENTAL ASSESSMENT

- Identify Contaminants of Potential Concern
- Identify the Types and Magnitudes of Potential Exposures
- Gather Information on the Toxicity of the Contaminants of Potential Concern
- Combine the Information on Potential Exposures with Toxicity Information to Evaluate Potential Health Risks

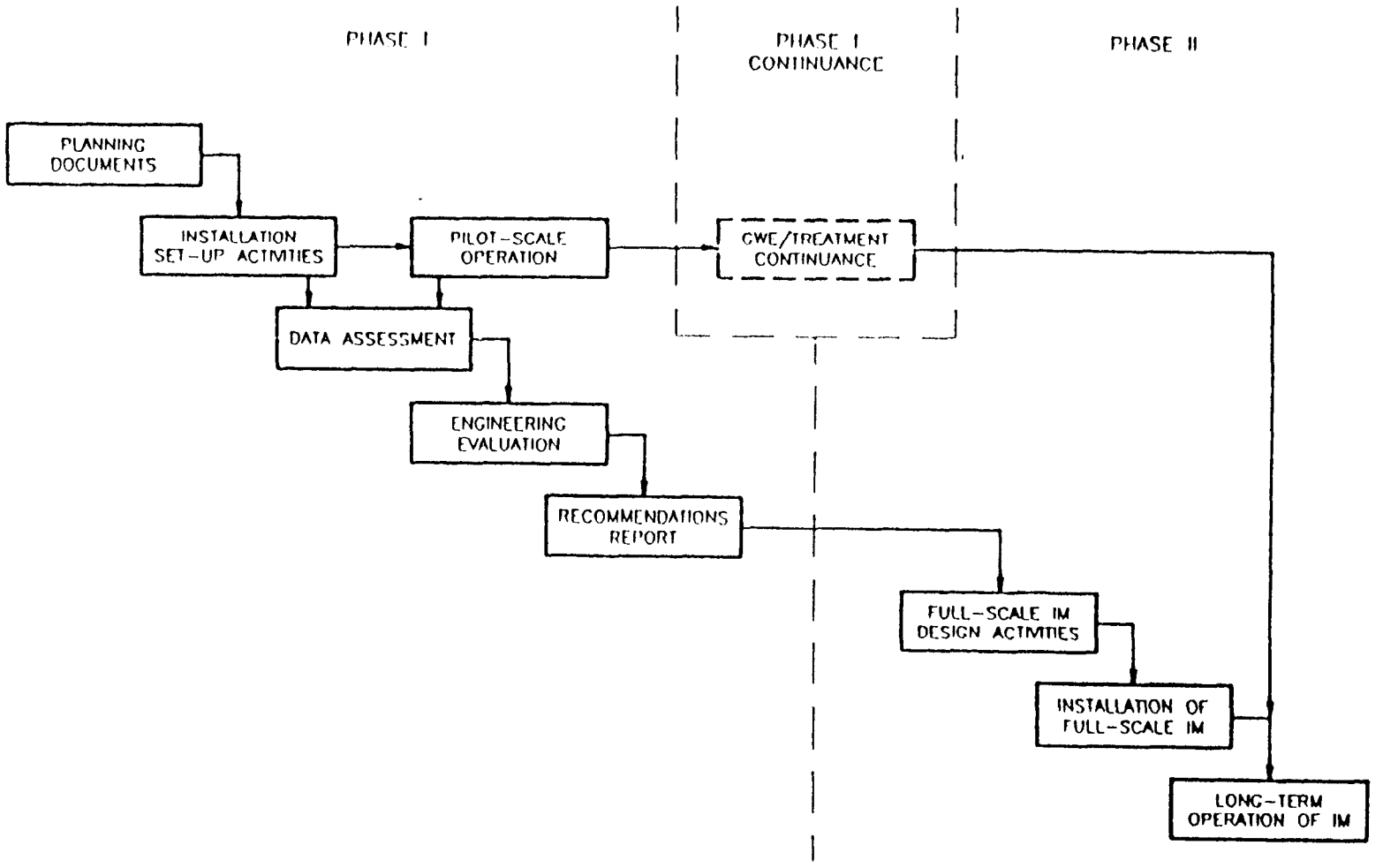
OVERALL OBJECTIVE:

To hydraulically control movement of the VOC plume within the surficial aquifer.

- PHASE I: Pilot scale system installation and operation.

- PHASE I CONTINUANCE: Continued operation of pilot-scale groundwater extraction system to maintain the capture zones that were created during Phase I.

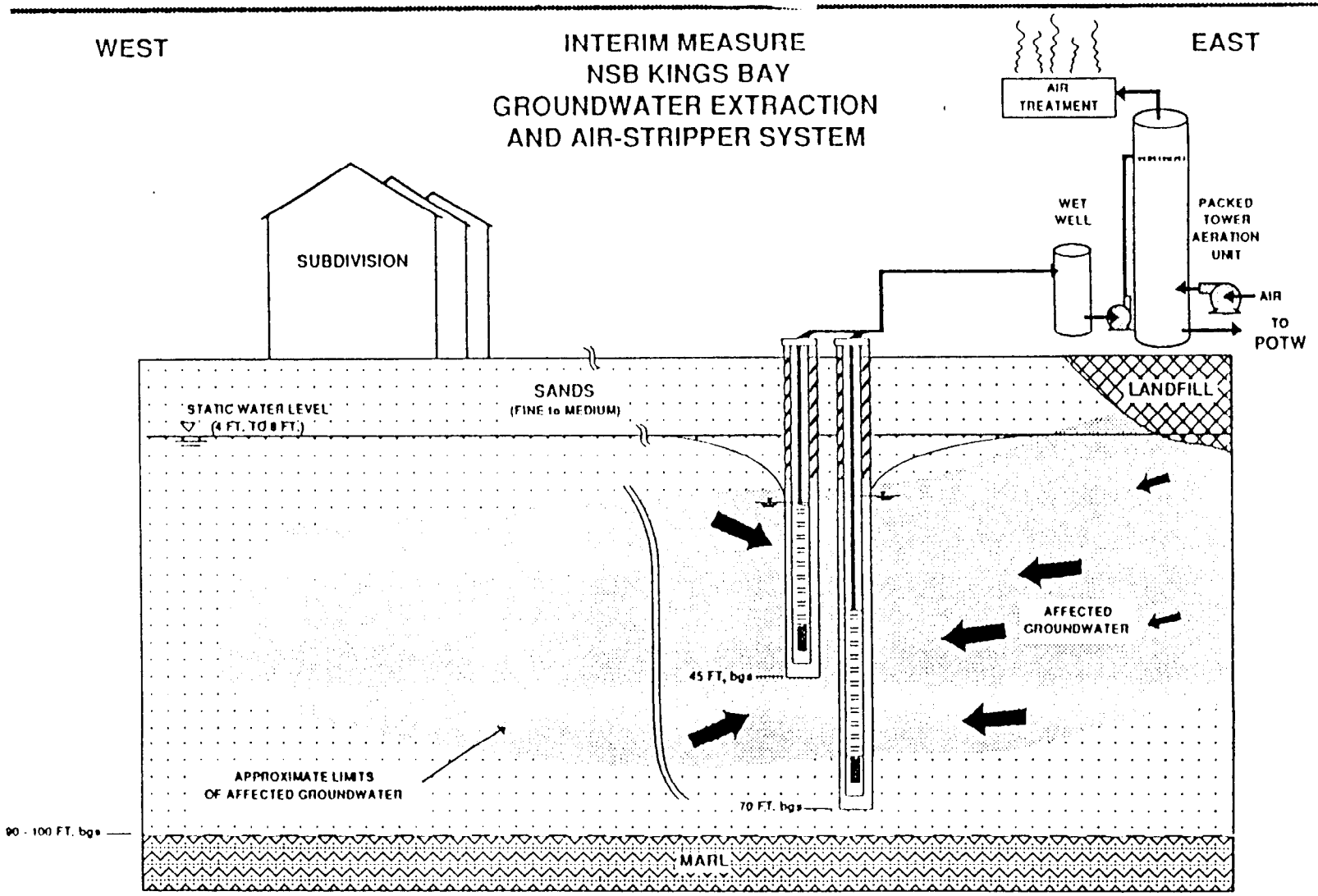
- PHASE II: Full-scale design, implementation and operation of a system to achieve and maintain hydraulic control until a corrective action can be implemented to address the VOC plume.


PHASE I
PHASE I CONTINUANCE
PHASE II
PLANNING DOCUMENTS
INSTALLATION SET-UP ACTIVITIES
PILOT-SCALE OPERATION
GWE/TREATMENT CONTINUANCE
DATA ASSESSMENT
ENGINEERING EVALUATION
RECOMMENDATIONS REPORT
FULL-SCALE IM DESIGN ACTIVITIES
INSTALLATION OF FULL-SCALE IM
LONG-TERM OPERATION OF IM

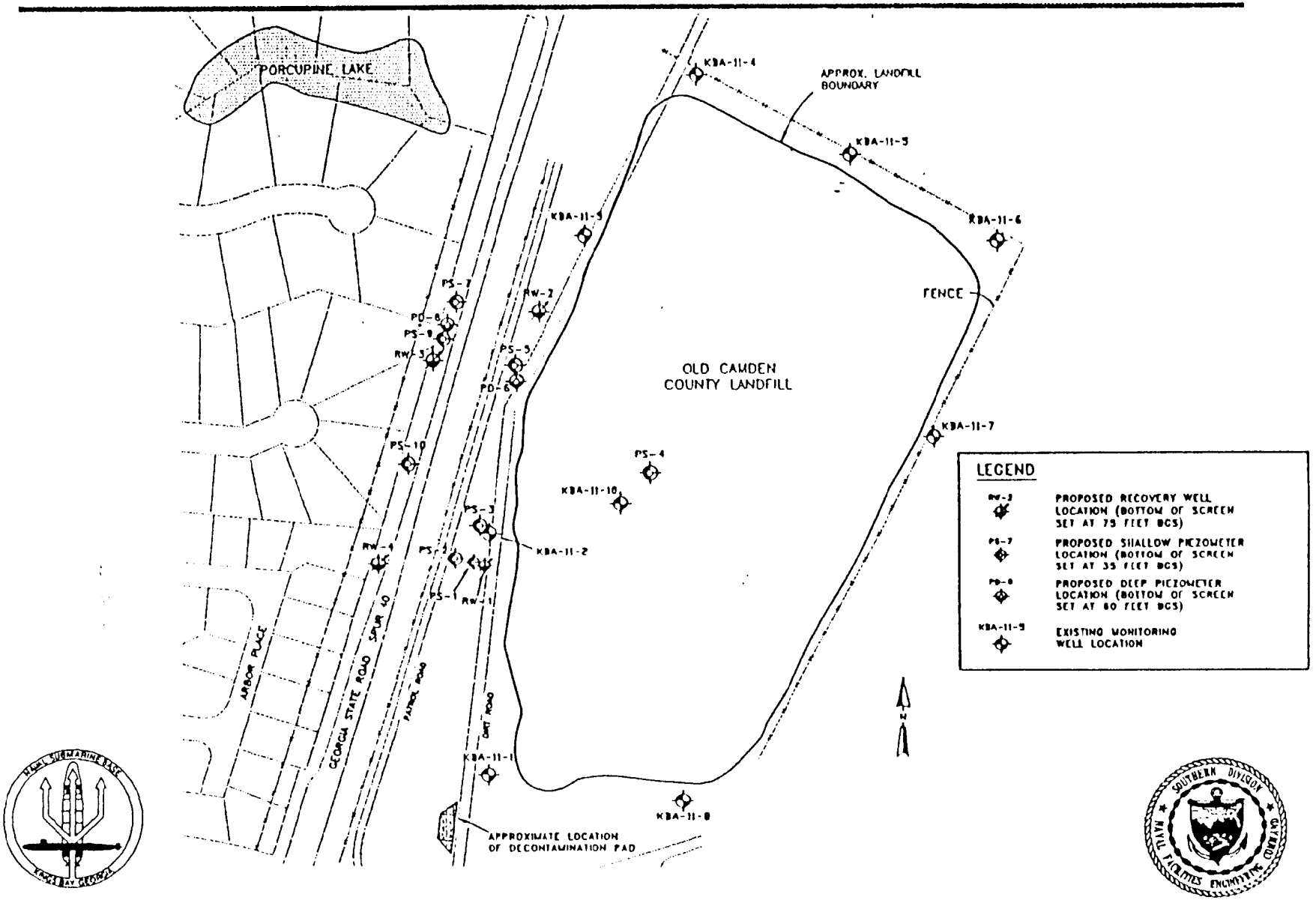
PHASE I - PILOT SCALE TEST GOALS

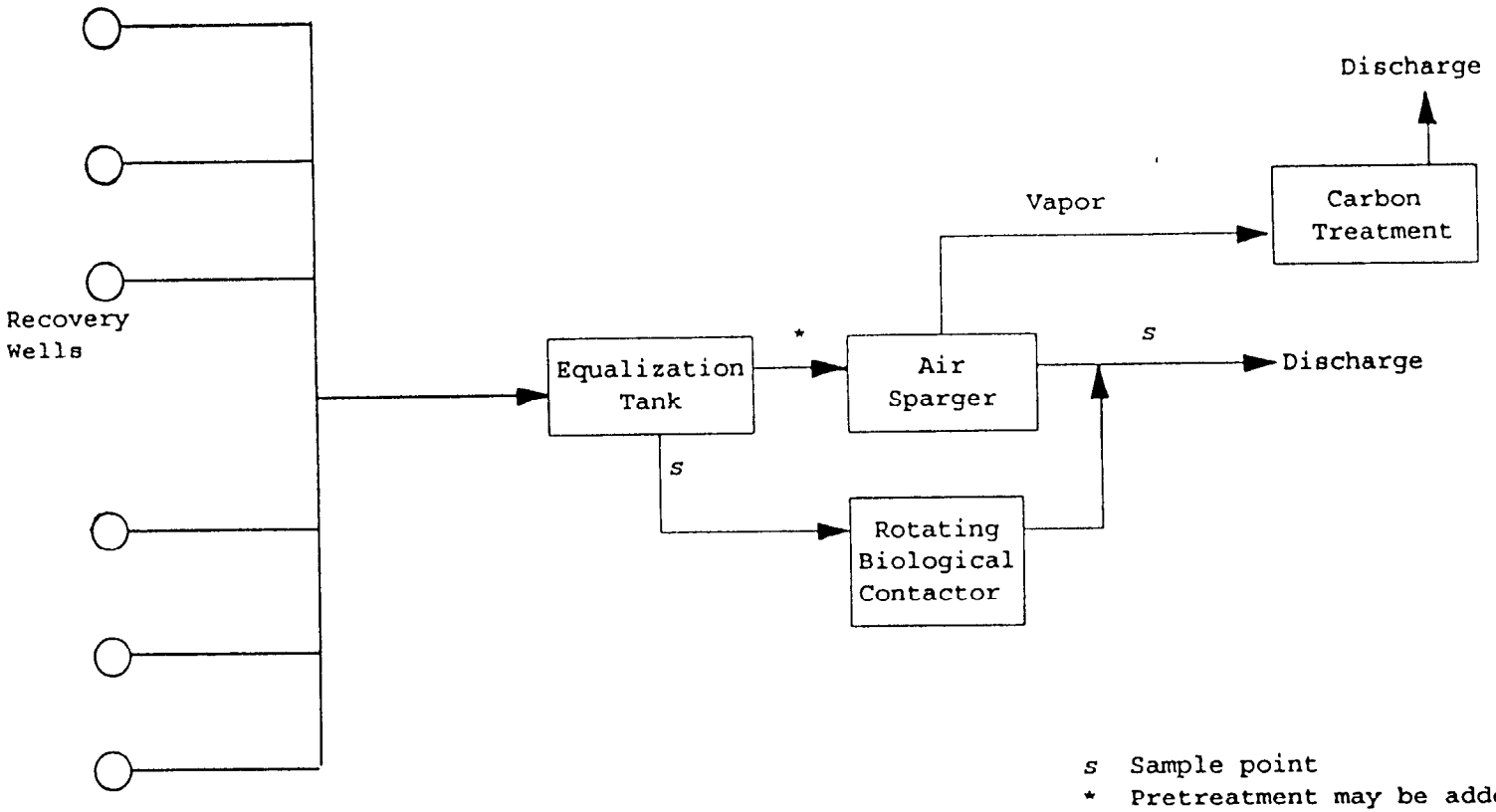
- Evaluate the suitability of recovery wells in achieving hydraulic control of the VOC plume.
- Evaluate concentrations of VOCs present in the surficial aquifer and determine if direct discharge to a treatment works is a viable option.
- Determine which treatment technology is most effective and efficient with the least cost, if treatment is necessary for full-scale IM implementation.
- Determine if pretreatment is required and to define pretreatment parameters.

INTERIM MEASURE



RECOVERY WELL LOCATIONS

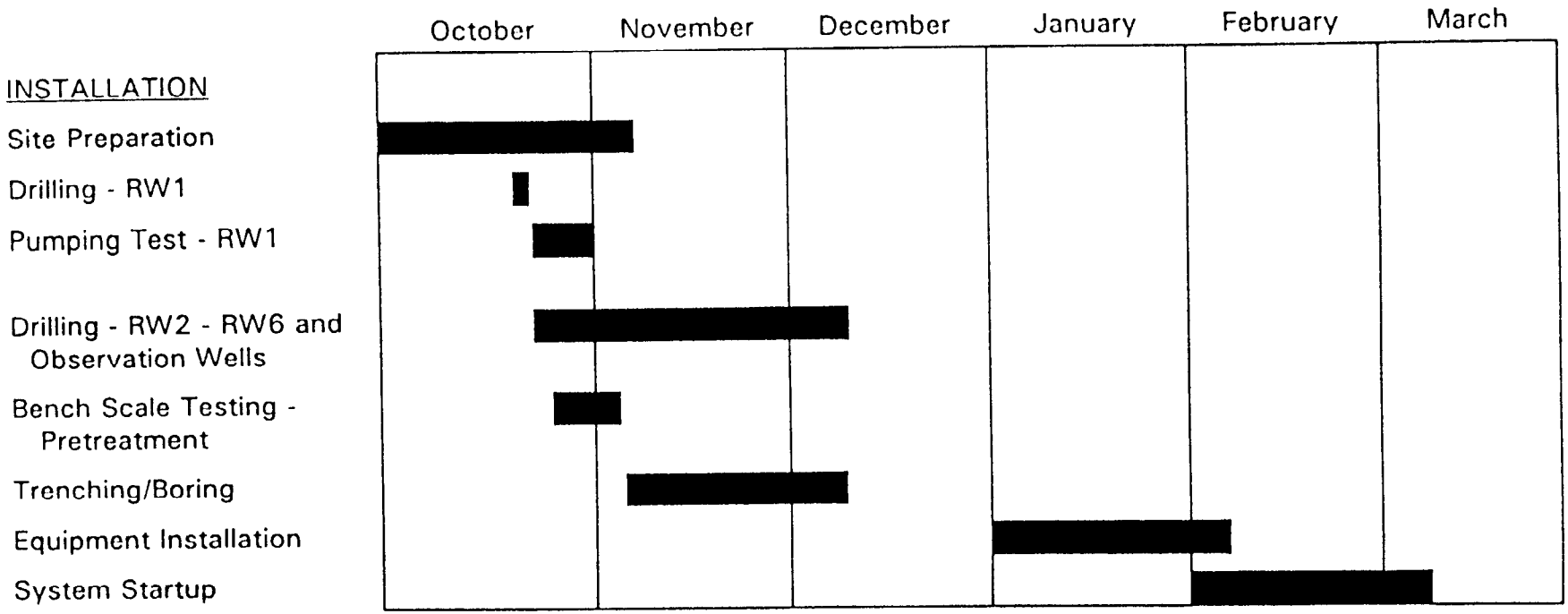




s Sample point
* Pretreatment may be added, if required.

PILOT-SCALE SYSTEM

PRELIMINARY SCHEDULE



PRELIMINARY SCHEDULE (CONTINUED)