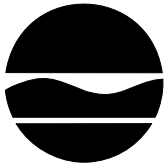
Availability Session
Remedial Investigation/Feasibility Study
Bethpage Community Park

Bethpage Community Center
June 8, 2006
5:30 PM to 9:00 PM

NORTHROP GRUMMAN

NEW YORK STATE
DEPARTMENT OF



ENVIRONMENTAL
CONSERVATION

Dvirka and Bartilucci
CONSULTING ENGINEERS

ARCADIS
Infrastructure, environment, facilities

Why Are We Here Today?

- Northrop Grumman has signed a Consent Order to investigate contamination related to the Bethpage Community Park.
- The Work Plan for the Remedial Investigation (RI) / Feasibility Study (FS) has been approved by the NYS Department of Environmental Conservation (DEC):
  - RI field work has begun in the Park and on adjacent Northrop Grumman property.
  - RI field work will soon begin in nearby neighborhoods.
- A chronology of prior work and a description of work to be done for the latest phase of the RI will be provided today.
- Representatives of Northrop Grumman and NYS are here to answer questions regarding the proposed work.

Parties Involved

- The NYS Department of Environmental Conservation (DEC) and Department of Health (DOH) are the participating regulatory agencies.
- Northrop Grumman, the United States Navy, and the Town of Oyster Bay are the identified potentially responsible parties.
- This session focuses on work to be performed pursuant to the Northrop Grumman RI/FS Work Plan.

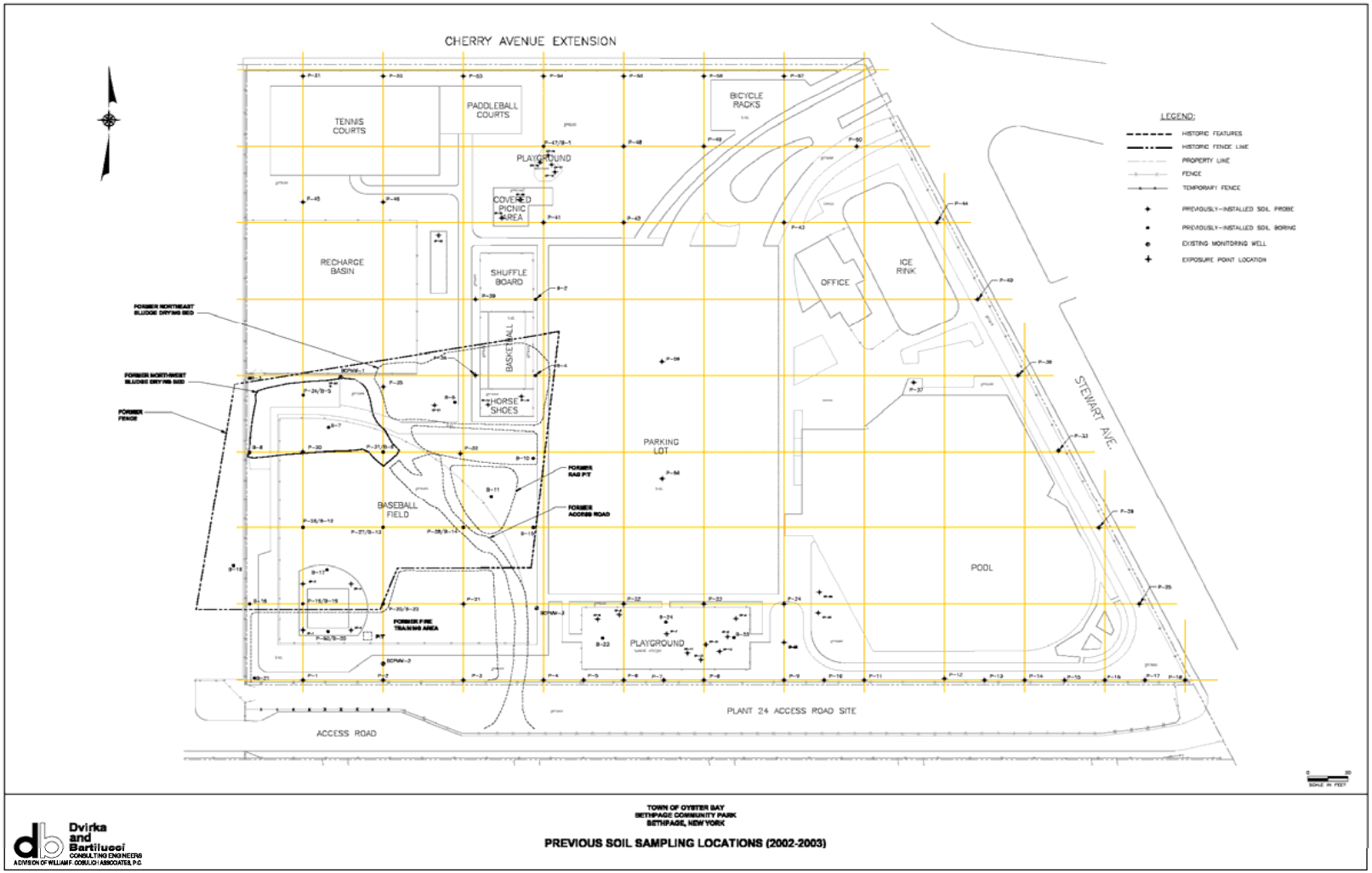
Park Chronology

- 1962: Grumman donates property to Town for use as a park
- 1965: Town of Oyster Bay completes construction of and opens Bethpage Community Park, as it is seen today.
- 2002: Northrop Grumman discovers contamination in the Park; public notified
- 2002 – 2003: Initial Investigation/Activities:
  - Soil investigations in the Park
  - Public availability sessions
- 2004 – 2005: Pre-Consent Order Investigations (Phase 1)
  - June 2004 to February 2005: Groundwater/Soil Gas
  - May to June 2005: Soil/Groundwater
- February to May 2005: Access Negotiations
- July 2005: Northrop Grumman signs RI/FS Consent Order

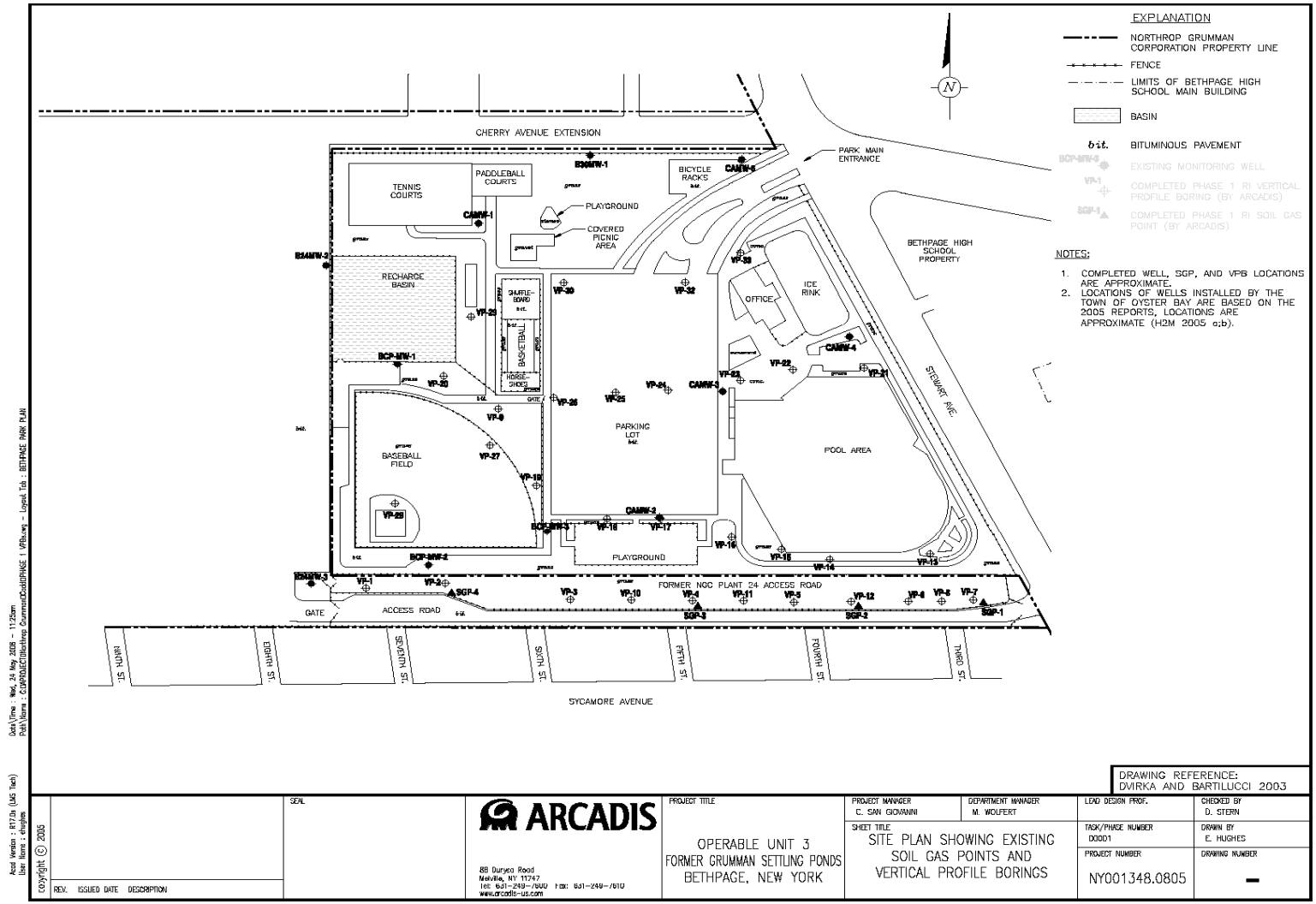
RI/FS Work Plan Chronology

- July 2005: DEC requires preparation of a RI/FS Work Plan
  - August 18, 2005: Northrop Grumman submits Draft-Final RI/FS Work Plan to DEC
  - October 2005 to March 2006: DEC and Northrop Grumman evaluate and develop proposed scope of work
  - March 8, 2006: Northrop Grumman submits revised RI/FS Work Plan to DEC
  - March 31, 2006: DEC approves RI/FS Work Plan
- April 2006: Northrop Grumman begins field work for the next phase of the RI (Phase 2)

Sampling Locations (2002-2003)



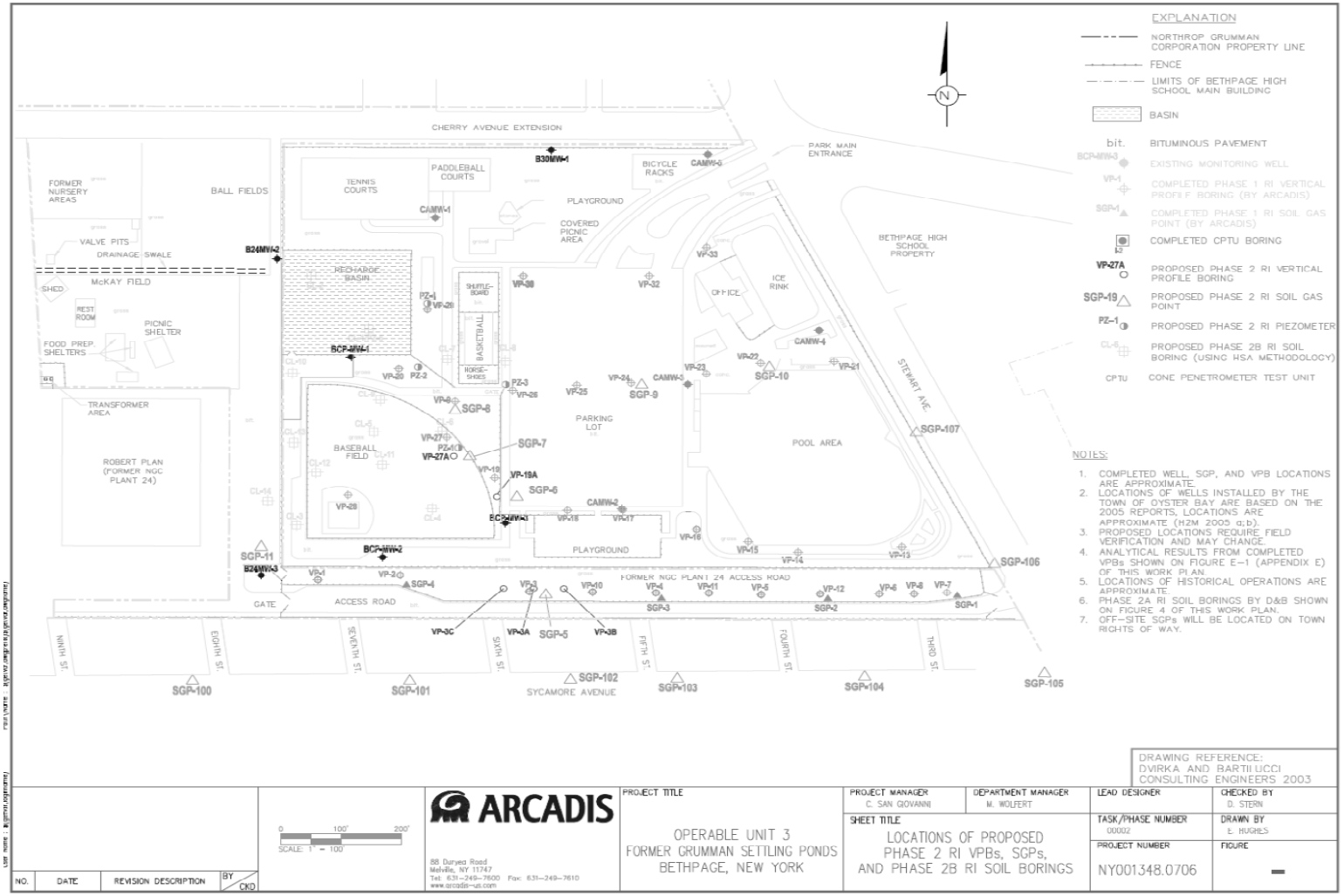
Sampling Locations (2004-2005)



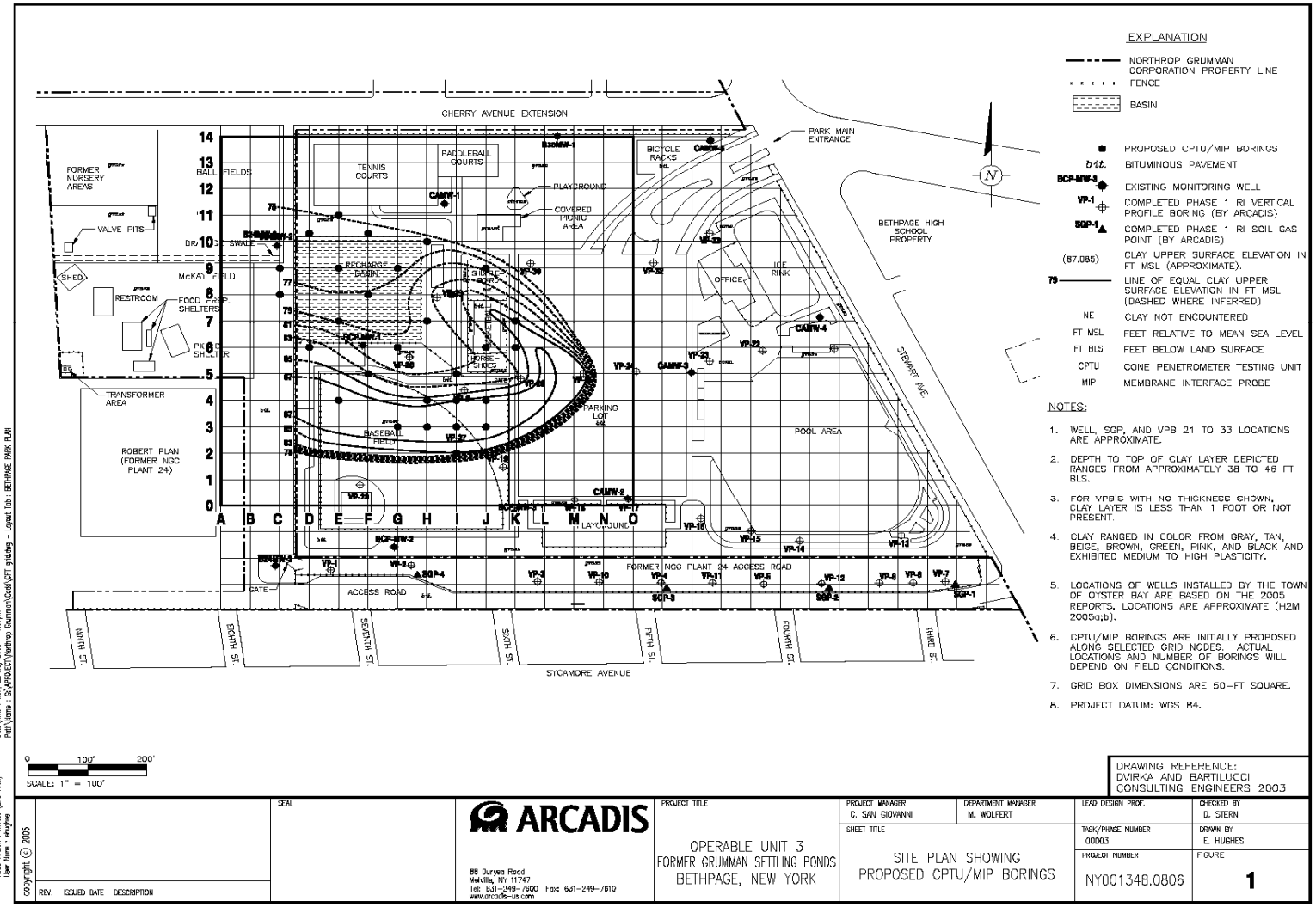
What Will We Be Doing in the Park During Phase 2?

- Surveying for buried utilities and structures
- Soil sampling and analysis
- Soil gas sampling and analysis
- Shallow groundwater sampling and analysis
- Well installation, sampling, and water analysis
- Digging test pits, as needed

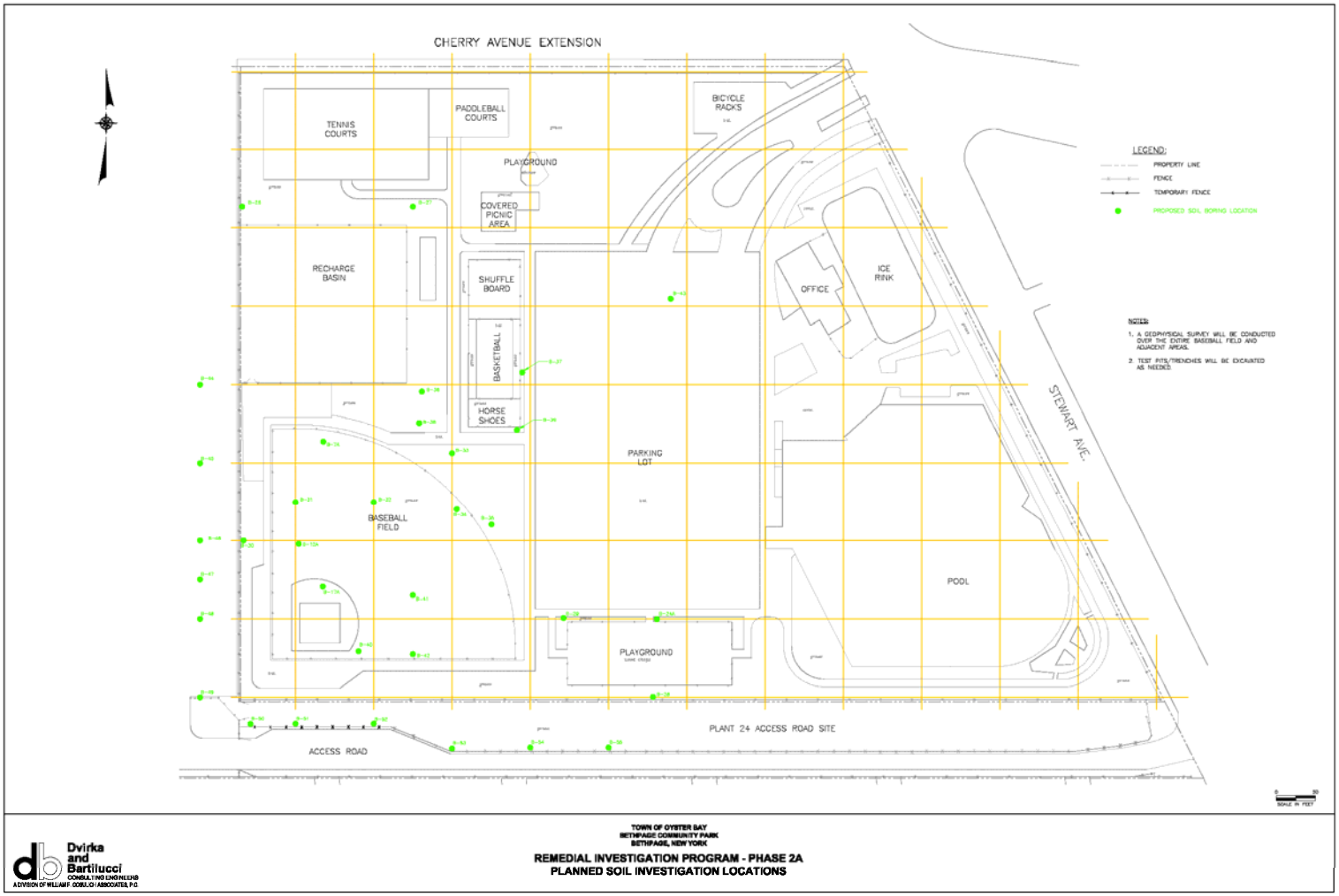
Proposed Drilling Locations (1)



Proposed Drilling Locations (2)

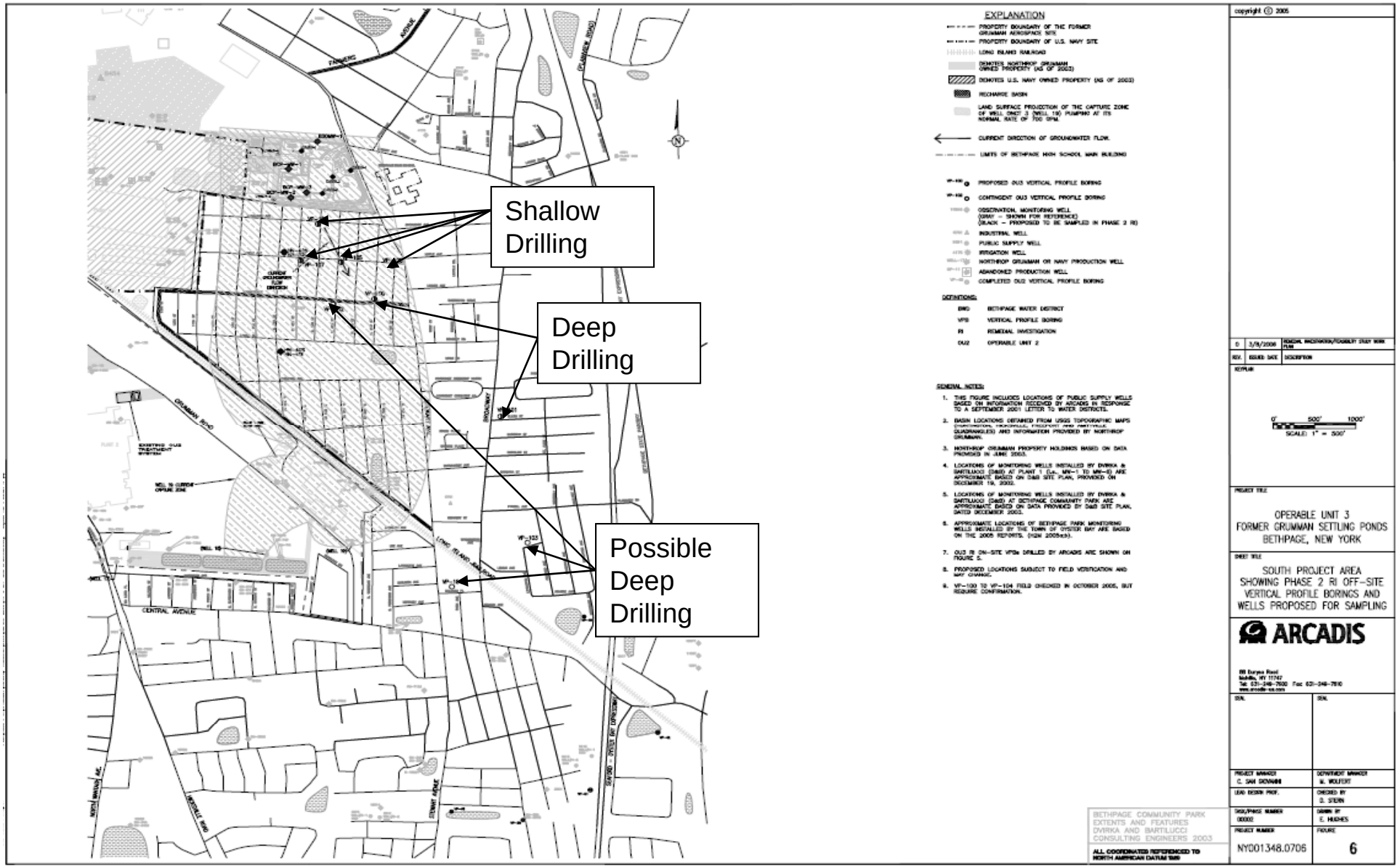


Proposed Drilling Locations (3)



What Will We Be Doing In the Neighborhood for Phase 2?

- Mark-outs of underground utilities
- Shallow (approx. 150 ft) drilling and soil/groundwater sampling and analysis
- Temporary well installation and removal
- Deep (min. 400 ft) drilling and soil/groundwater sampling and analysis
- Soil gas sampling and analysis


Shallow Drilling
Deep Drilling
Possible Deep Drilling
EXPLANATION
GENERAL NOTES:
OPERABLE UNIT 3
FORMER GRUMMAN SETTLING PONDS
BETHPAGE, NEW YORK
SOUTH PROJECT AREA
SHOWING PHASE 2 RI OFF-SITE
VERTICAL PROFILE BORINGS AND
WELLS PROPOSED FOR SAMPLING
ARCADIS
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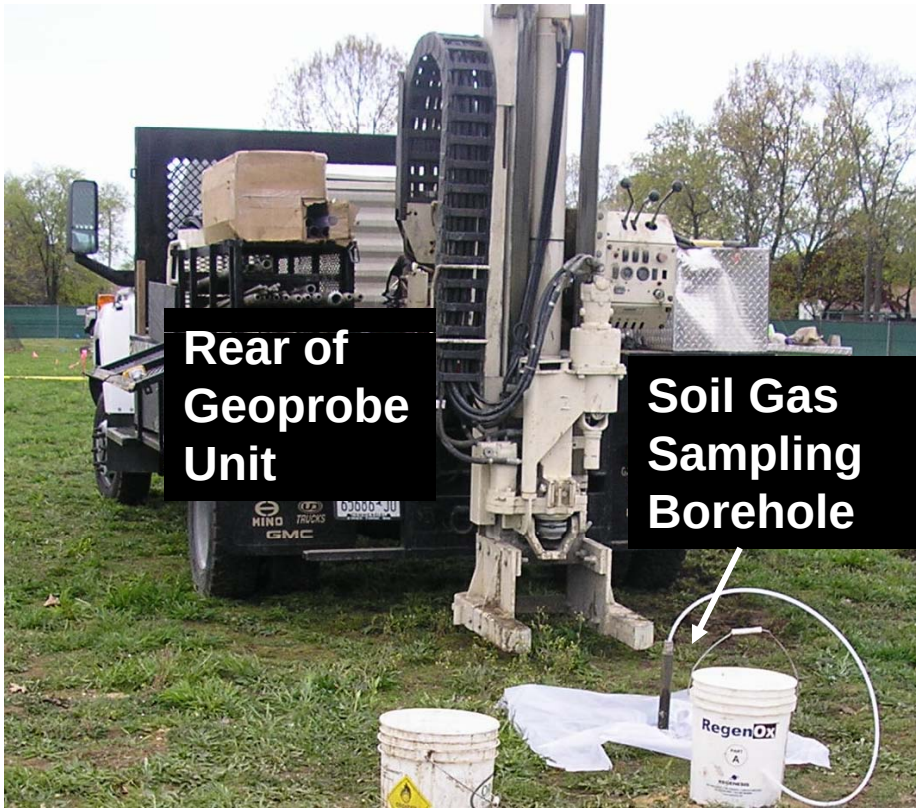
What Equipment Will Be Used?

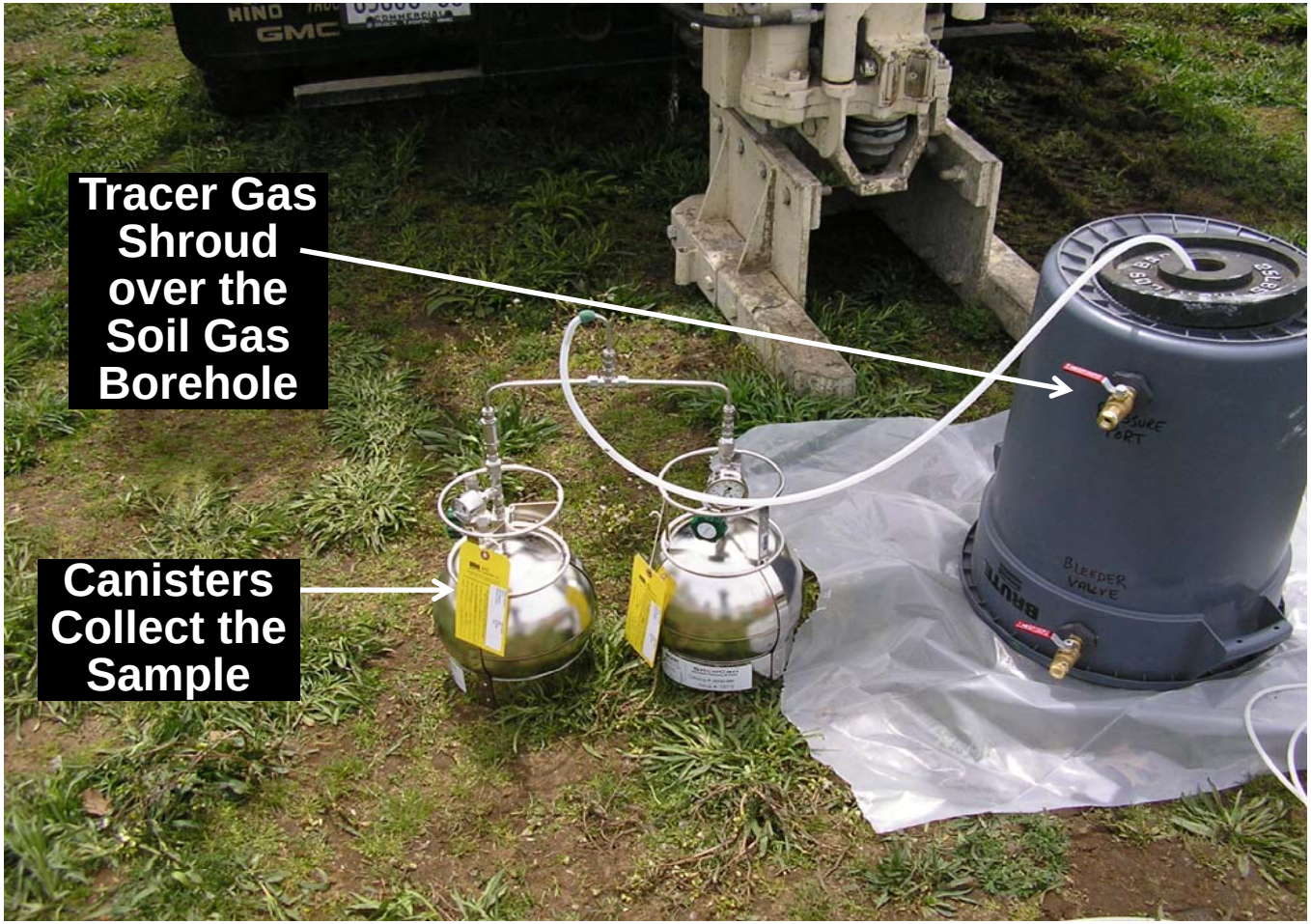
- In the Park and Northrop Grumman property:
  - Auger Drilling Rig (Soil and Shallow Groundwater)
  - Geoprobe Unit (Soil and Soil Gas)
  - Cone Penetrometer Testing Unit (CPTU) and Membrane Interface Probe (MIP) Units (Soil)
  - Backhoe/Excavator (Soil Test Pits – if needed)
  - Support Trucks
- In the Neighborhoods:
  - Mud Rotary Drilling Rig (Deep Groundwater)
  - Auger Drilling Rig (Shallow Groundwater)
  - Geoprobe Unit (Soil and Soil Gas)
  - Support Trucks

Typical Park Soil Testing Setup

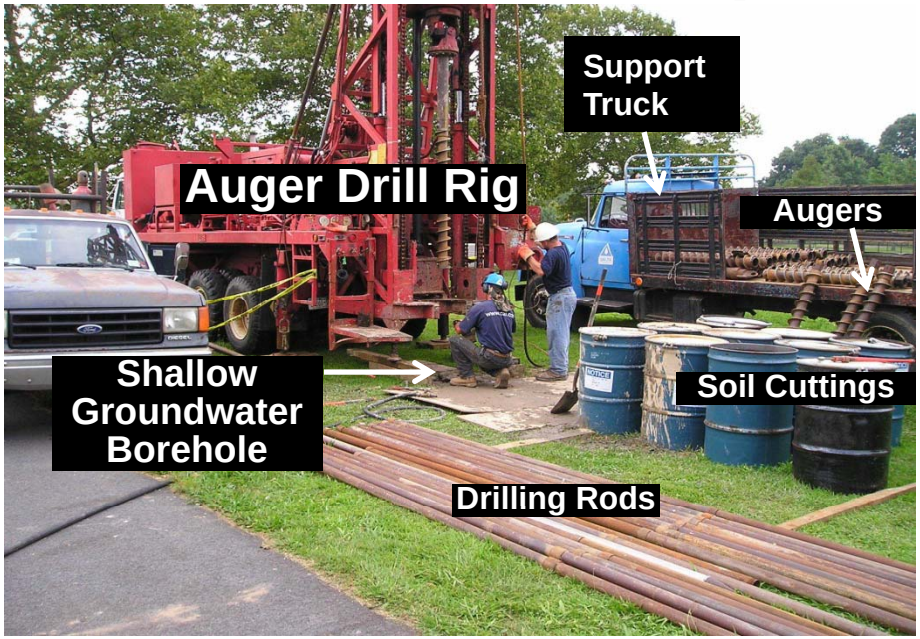
Typical Soil Gas Sampling Setup

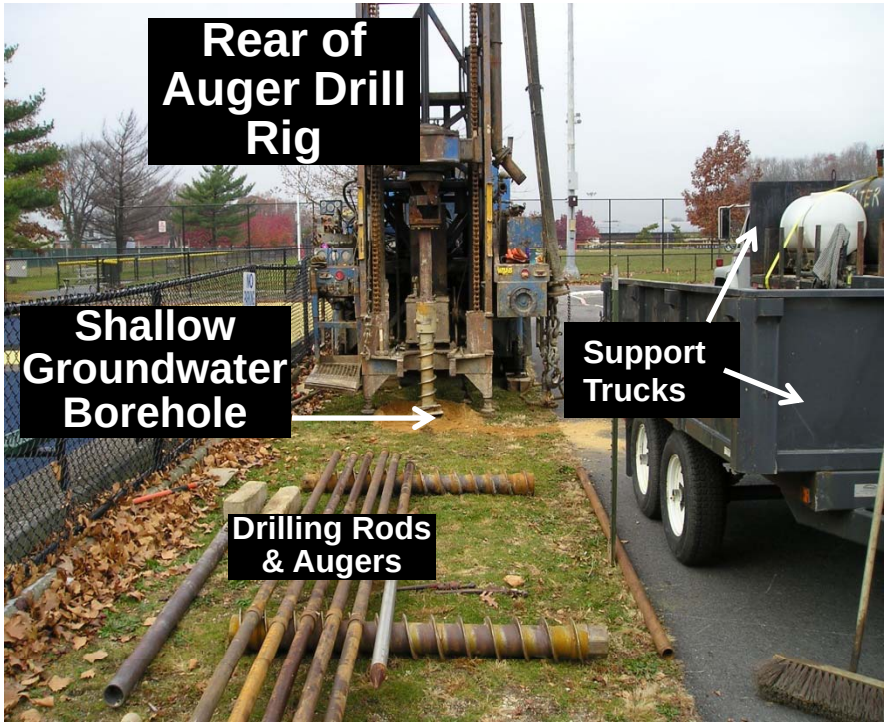


Typical Soil Gas Sampling Setup

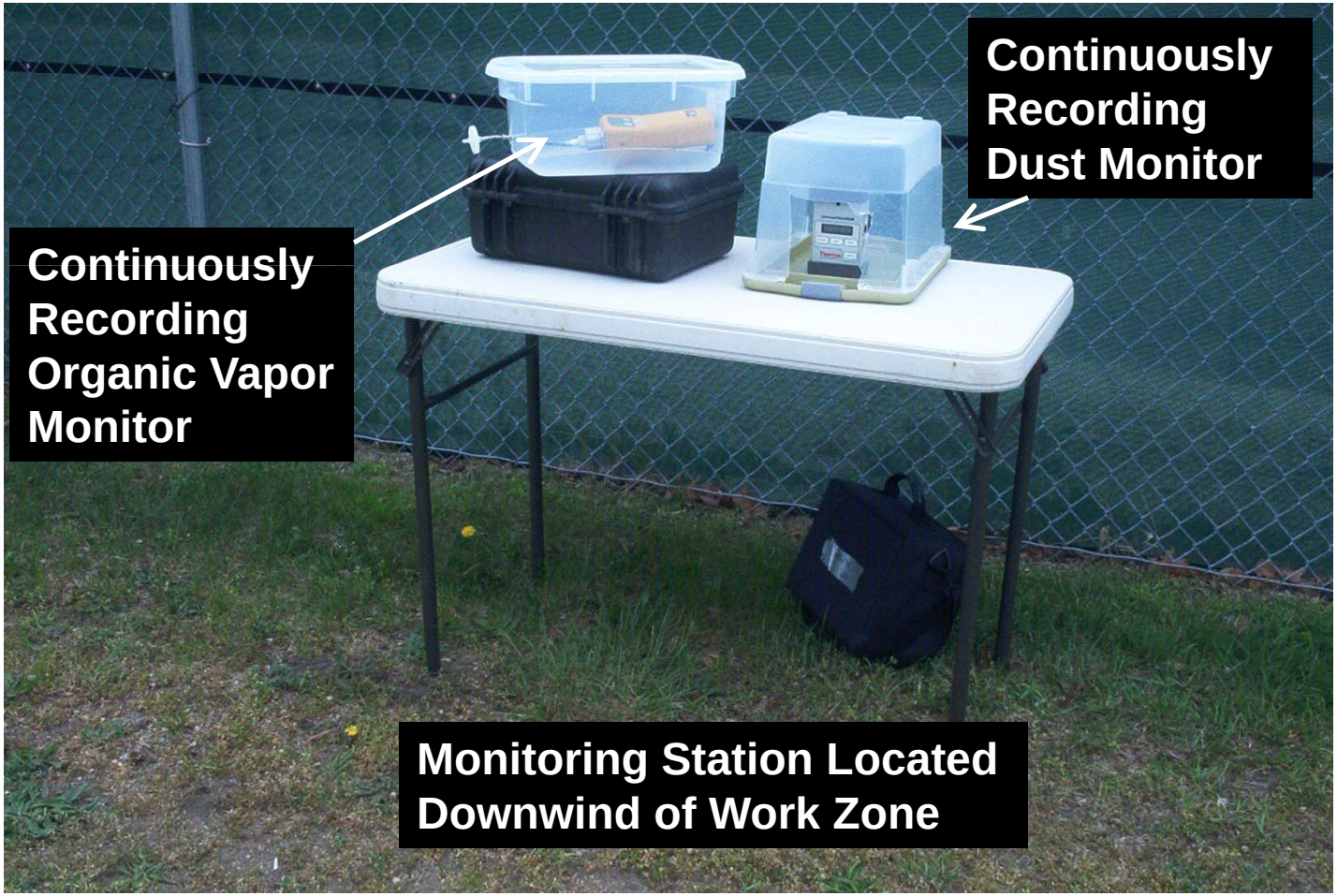


Typical Shallow Groundwater Sampling Setup

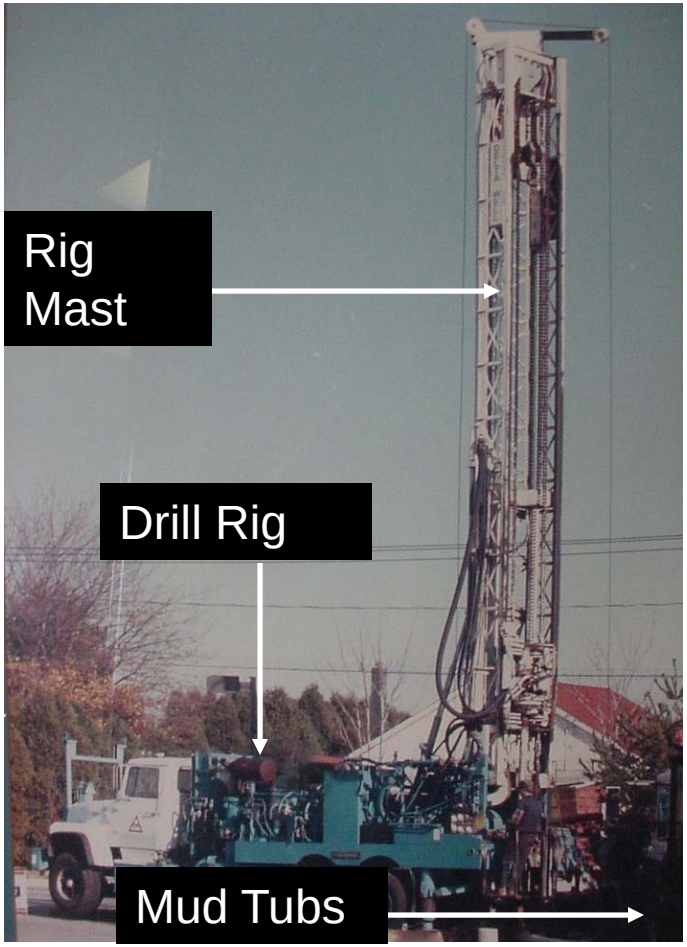




Typical Community Air Monitoring Setup



Typical Deep Groundwater Sampling Setup



Health and Safety Measures

- Community outreach and notification
- Community Air Monitoring Program
- Borehole, work zone, and site worker air monitoring
- Site control
- Materials management and removal
- Site restoration

Operations Plan

- Cuttings and waste removed daily from drill sites on public property
- Pre-established truck routes
- Traffic control devices
- Sanitary/storage facilities on Northrop Grumman property
- Limited workday schedule
- 24-hr/day points of contact

Tentative Phase 2 Field Schedule

- In the Park: late April to August 2006
- In the Neighborhood: June to September 2006
  - Soil Gas: 4 – 6 hours per location
  - Shallow Groundwater: 5 – 7 days per location
  - Deep Groundwater: 2 – 4 weeks per location
- Work Hours: Monday to Friday - 7:00 AM to 5:00 PM (excluding Town Holidays)

Next Steps (Following Phase 2)

- Phase 3 of the RI: Drilling and sampling of permanent monitoring wells (To Be Determined)
- Data evaluation and submittal of RI Report to DEC
- RI Public Meeting held by DEC
- Interim Remedial Measure (IRM) evaluation
- Submittal of Feasibility Study (FS) Report to DEC
- Documents will be placed in the Public Repository

Feasibility Study Process

- Select potentially applicable remedial technologies
- Combine selected remedial technologies into alternatives
- Evaluate and rank alternatives using nine required NYSDEC criteria
- Prepare FS Report

Contact Information

In case of questions or concerns, please contact the NYSDEC:

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Contact Information

If you wish to contact Northrop Grumman directly, please contact:

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Please pick up a Fact Sheet on your way out!