

11/18/03-01122

AGENDA

RESTORATION ADVISORY BOARD (RAB)

**For the
Installation Restoration Program (IRP)
Naval Station Norfolk**

Norfolk Navy Lodge, 7811 Hampton Blvd., Norfolk

Tuesday, November 18th, 2003, 6:00 PM

| TOPIC | SPEAKER |
|--|--|
| WELCOME & INTRODUCTION | John Ballinger Regional Environmental Group |
| STATUS OF NAVSTA IR PROGRAM <ul style="list-style-type: none">• Brief on program | Winoma Johnson LANTDIV Environmental |
| SPECIFIC UPDATE <ul style="list-style-type: none">• FY2003 Accomplishments• FY2004 Goals | Channing Blackwell Regional Environmental Group |
| • Site-22 Camp Allen Salvage Yard | Don Joiner Baker Environmental |
| • Site-23 LP-20 Plating Shop | Holly Rosnick CH2MHILL |
| • Community Involvement Opportunities | Winoma Johnson LANTDIV Environmental |
| Project Status | |
| • (Bousch Creek, SWMUs 12/16, Site 18 and SWMU 14) | Holly Rosnick CH2MHILL |
| COMMENTS/ANNOUNCEMENTS: <ul style="list-style-type: none">• Future agenda• Future RAB Meeting Schedule | |
| CLOSING REMARKS & ADJOURN | |

If you have any questions or concerns please contact John Ballinger at 433-3443 or e-mail ballingerjw@pwcnorva.navy.mil



Restoration Advisory Board
Meeting -18 November 2003

Naval Station Norfolk
Installation Restoration Program



RAB Meeting Agenda

- TOPIC

- Welcome & Introduction
- Status Of NAVSTA IR Program
- 2003 Accomplishments and proposed 2004 Goals
- Site-22 Camp Allen Salvage Yard
- Site 23 LP-20 Plating Shop
- Project Status (Bousch Creek, SWMUs 12/16, Site 18, and SWMU 14)
- Community Involvement Opportunities

- SPEAKER

- John Ballinger- CNRMA
- Winoma Johnson - LANTDIV
- Channing Blackwell - CNRMA
- Don Joiner - Baker Environmental
- Holly Rosnick - CH2M HILL
- Holly Rosnick - CH2MHILL
- Winoma Johnson- LANTDIV



Naval Station Norfolk



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Status of Installation Restoration Program

Naval Station Norfolk



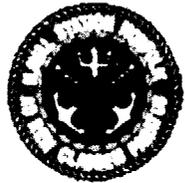
Naval Station Norfolk IR Program

- National Priorities List (NPL) - 4/97
- Federal Facilities Agreement (FFA) - 2/99
 - 170 Sites Investigated
 - 18 IR sites (10 clean up Req'd; 8 Institutional Controls)
 - 5 Site Screening Areas (5 SSAs)
 - 15 Areas of Concern (AOCs)
 - 132 Sites require No Further Action (NFA)



Naval Station Norfolk Partnering Team members

- Channing Blackwell, CNRMA
- Winoma Johnson, LANTDIV
- Todd Richardson, USEPA
- Devlin Harris, VDEQ
- Holly Rosnick and Ben Francisco, CH2MHILL
- Don Joiner, Baker Environmental



Naval Station Norfolk

IR Program

- Significant Accomplishments
 - 18 sites have been closed out through either remediation or Risk Assessment/Closeout reports since 1998
 - Of the 170 sites identified, only six additional sites which includes one new site (Site 23) will require further investigation
 - Innovative remediation technologies have included: air sparging, vapor extraction, dual phase extraction, soil stabilization
 - Use of on-site soils at CD Landfill remediation has resulted in savings of over \$300,000
 - Partnering with the regulators has reduced remediation costs by over \$3M and reduced the cleanup time by over 3 years



FY 2003 Accomplishments

- Began construction of sediment remedial action at Camp Allen Salvage Yard (Site 22)
- Completed 3rd year Post-Closure monitoring at CD Landfill
- Continued remediation optimization strategies for CALF (Site 1), Q Area (Site 3) and LP 20 (Site 20)
- Conducted additional investigation activities at Site 18, SWMU 14 and SWMUs 12&16



FY 2003 Accomplishments

- Prepared Draft Remedial Investigation Reports for SWMU 14 and SWMUs 12&16
- Prepared Draft Expanded Site Investigation Report for Site 18
- Prepared Draft Ecological Risk Assessment for Bousch Creek



Proposed FY 2004 Goals

- Continue evaluation of Q-Area (Site 3) AOC-1 groundwater treatment system shutdown
- Continue remediation optimization strategies for CALF (Site 1), Q Area (Site 3) and LP 20 (Site 20)
- Complete 2003 Annual LTM report
- Complete 4th annual Post-Closure monitoring at CD Landfill
- Update 2005 Site Management Plan
- Complete Final Bousch Creek Ecological Risk Assessment through Steps 3B



Proposed FY 2004 Goals

- Prepare Draft Work Plan for Bousch Creek
- Complete Final Expanded Site Investigation for Site 18
- Complete Final Remedial Investigation for SWMUs 12 and 16
- Complete Final SWMU 14 Remedial Investigation
- Complete Draft PA/SI for Site 23
- Complete Draft RI Work Plan for Site 23
- Complete Final CASY PRAP and ROD



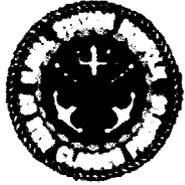
Project Status

Site 22

Camp Allen Salvage Yard

Naval Station Norfolk

19 Nov 2003



CASY Presentation Goals

- Update Project Progress
- Describe Non-Time-Critical Action for Sediments
- Review remaining CERCLA documentation



Camp Allen Salvage Yard History



- Used for salvaging and scrap material handling for over 50 years
- Included drum, transformer, and lead storage areas
- All old structures and storage areas now removed
- 22 acres of barren, level ground



1998 Removal Action



2,700 cubic yards of PCB contaminated soil removed from southern portion of site.



2001 Removal Action



Over 13,000 cubic yards of metal and PCB-contaminated soils identified, removed from site



2001 Removal Action





2002 Removal Action



Navy placed 1-foot soil cover over 22 acres of site.



2002 Removal Action



11/19/02

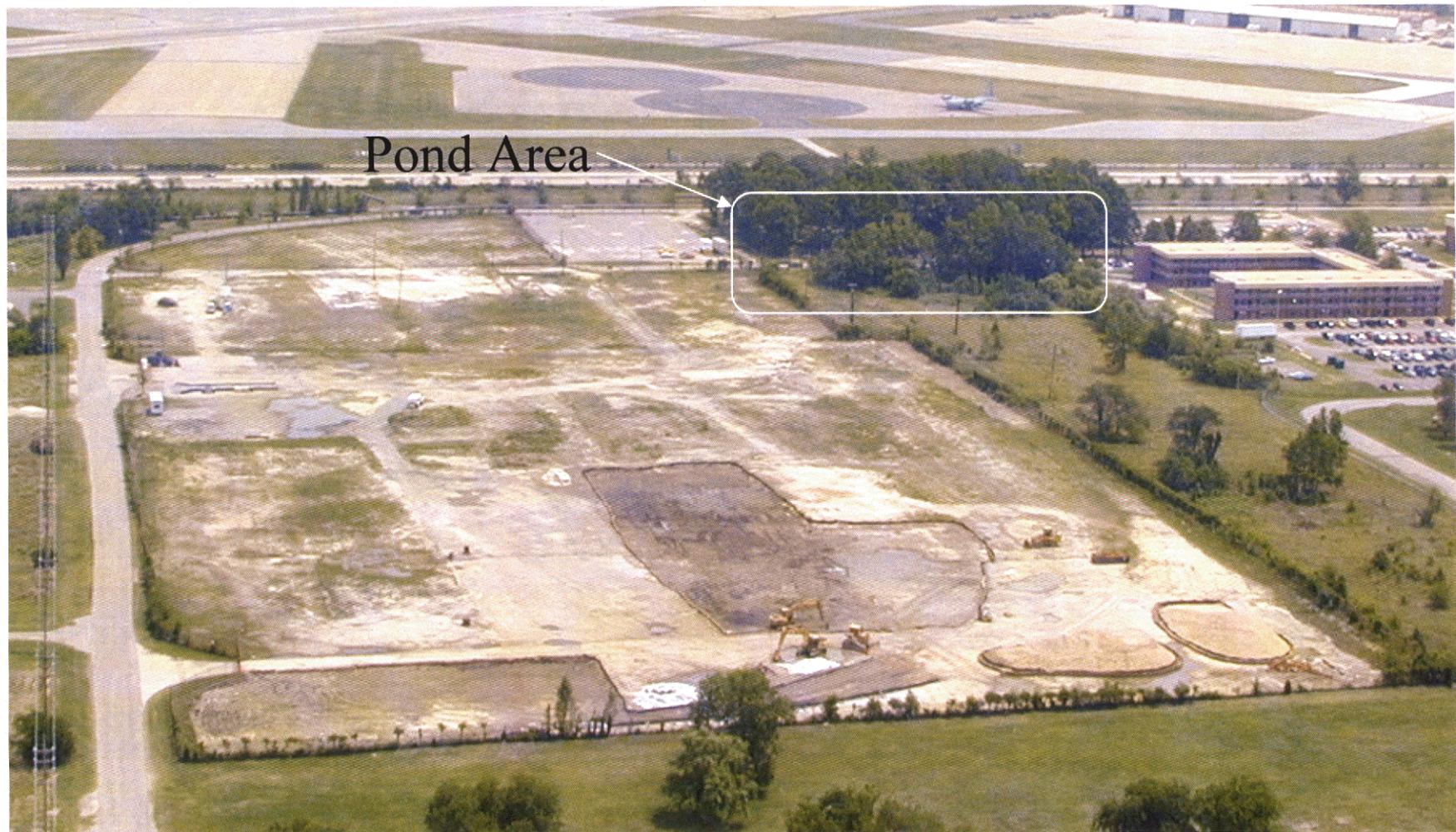


2003 Sediment Removal Action

- July 2003 - Engineering Evaluation/Cost Analysis (EE/CA)
 - Addressed remaining contaminated sediment
 - Summarized studies, investigations, and performed an evaluation of alternatives
 - Presented the preferred action to the public as required by CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan
- July 2003 - Action Memorandum
 - Provided a concise written record of the action decision
 - Placed in Administrative Record at Kirn Memorial Library



2003 Pond Area Removal Action



Pond Area

04/22/2014



2003 Sediment Removal Action

- Selected action is placing 1-foot soil cover over pond sediments to address ecological risk
- Minimize potential impacts to groundwater, surface water, Bousch Creek ecology from remaining sediments
- Removal action started in July 2003
- Camp Allen Elementary School & Navy Housing were notified



2003 Removal Action



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2003 Removal Action



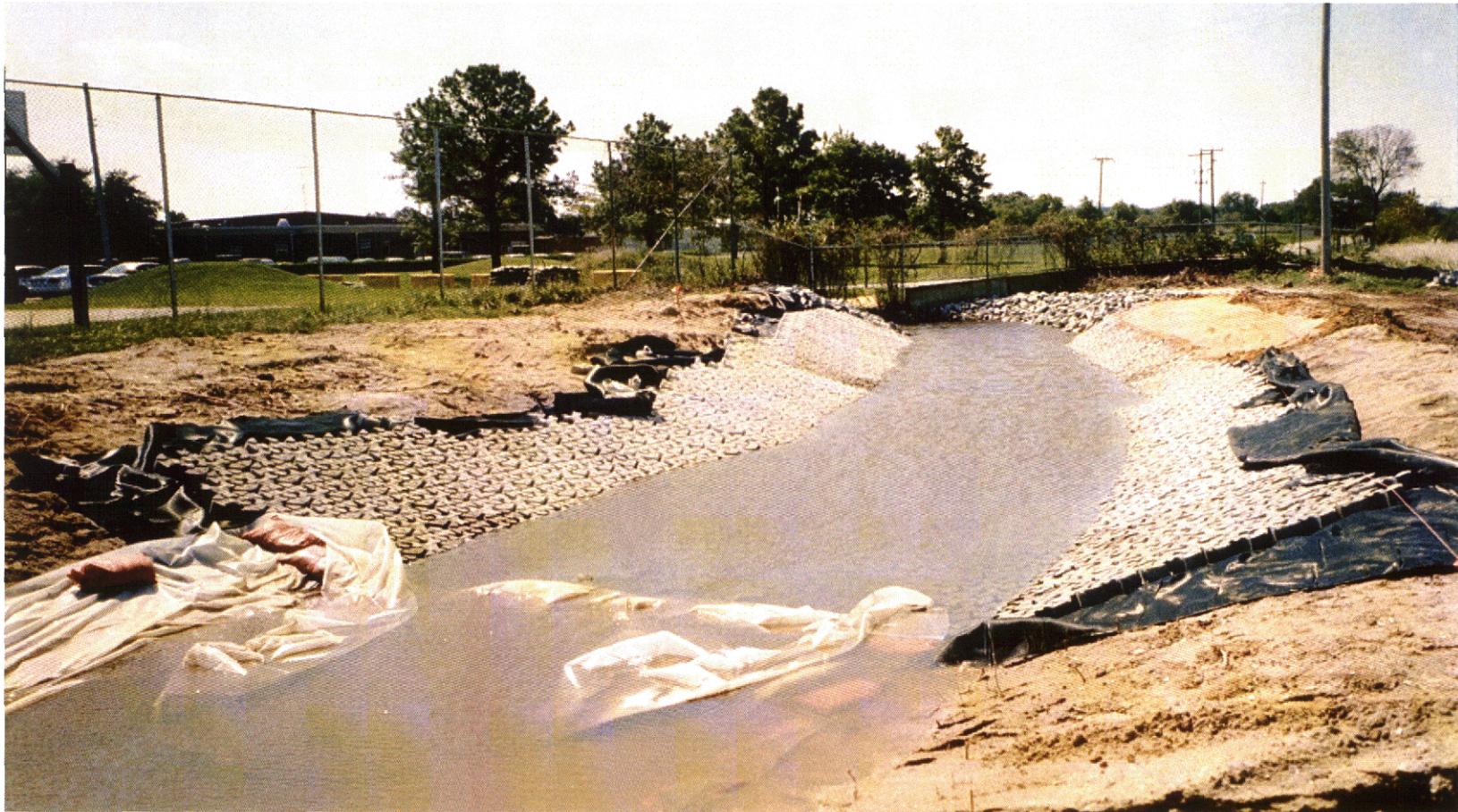


2003 Removal Action





2003 Removal Action

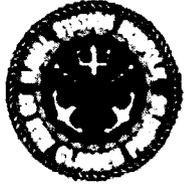




Remaining Documentation

Record of Decision (ROD)

- Soil
 - Institutional controls
 - Land use controls
- Sediments
 - Institutional controls
 - Land use controls
- Groundwater
 - On-going Camp Allen Landfill groundwater remedial action, monitoring program, land-use controls



CASY Future Use

- Relocation of Navy Fleet Recreational Park ballfields to the CASY
- Plans include soccer fields and other recreational facilities

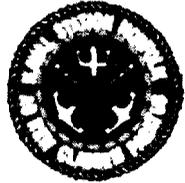


Questions ?



11/19/02

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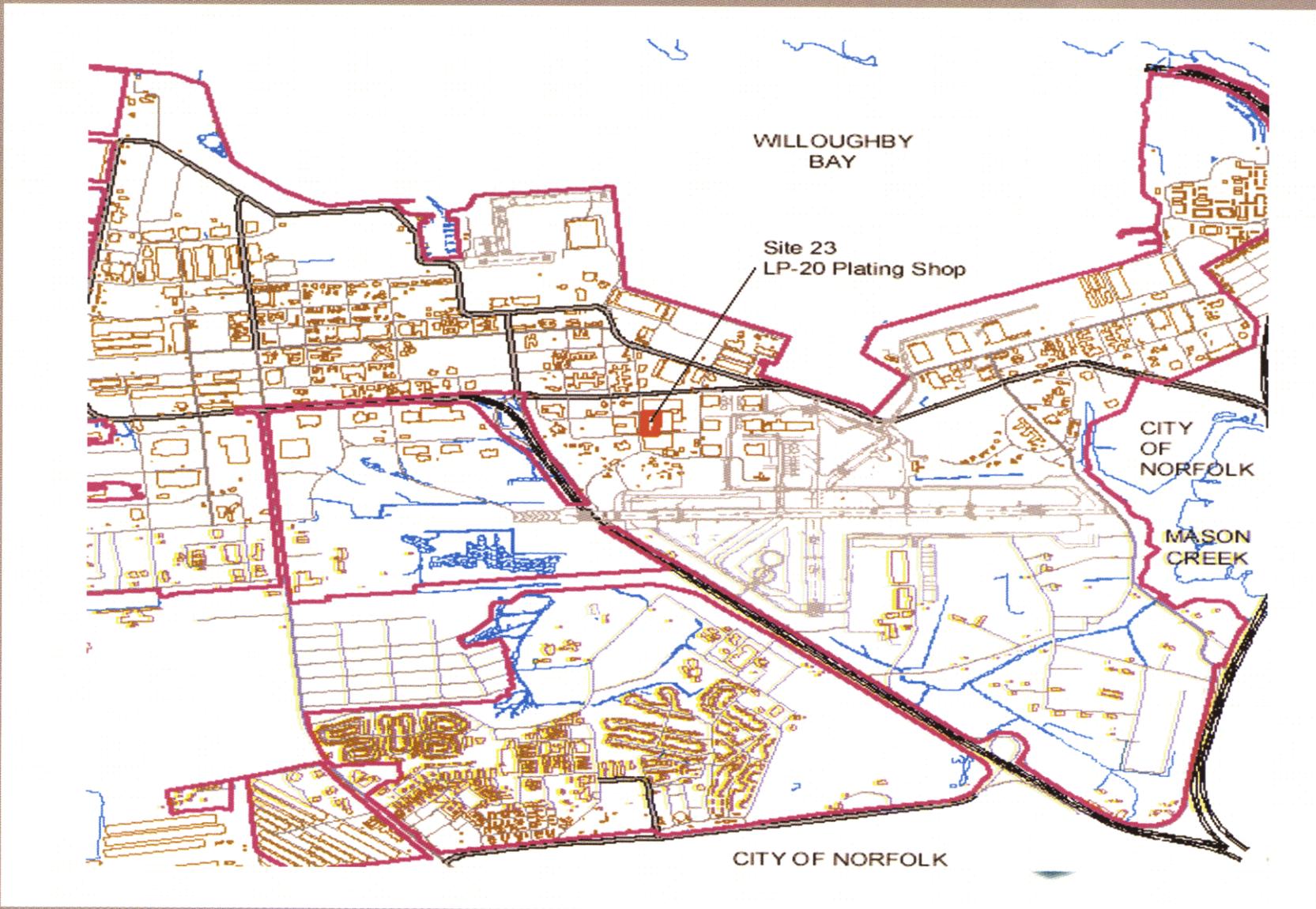


Specific Update

LP-20 Plating Shop (Site 23)

Naval Station Norfolk

November 2002

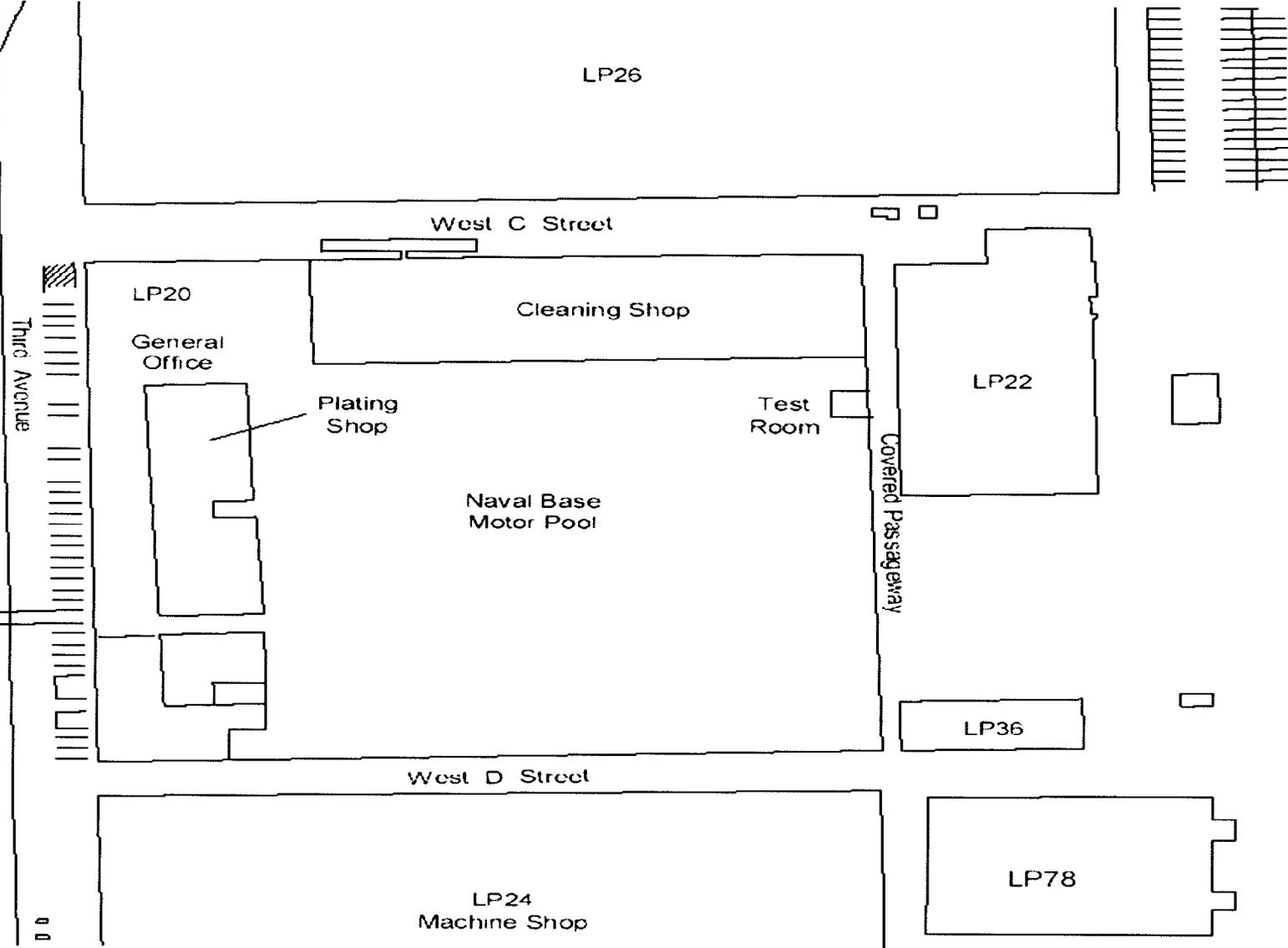


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Building LP-20 Background

- LP-20 includes the cleaning shop, motor pool, plating shop, and offices
- Building was used as an engine overhaul facility in which jet engines were disassembled and reworked
- Plating Shop is located on west side of the building
- Building currently used as a motor pool and office space; Plating Shop is currently not used
- The shop contains 7 process pits that were used for cleaning, stripping, and plating engine parts. The shop contains drainage system for collection of wastewater from pits and delivery to the Industrial Wastewater Treatment Plant



LP26

West C Street

LP20

General Office

Third Avenue

Plating Shop

Cleaning Shop

Test Room

LP22

Covered Passageway

Naval Base Motor Pool

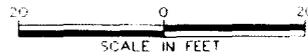
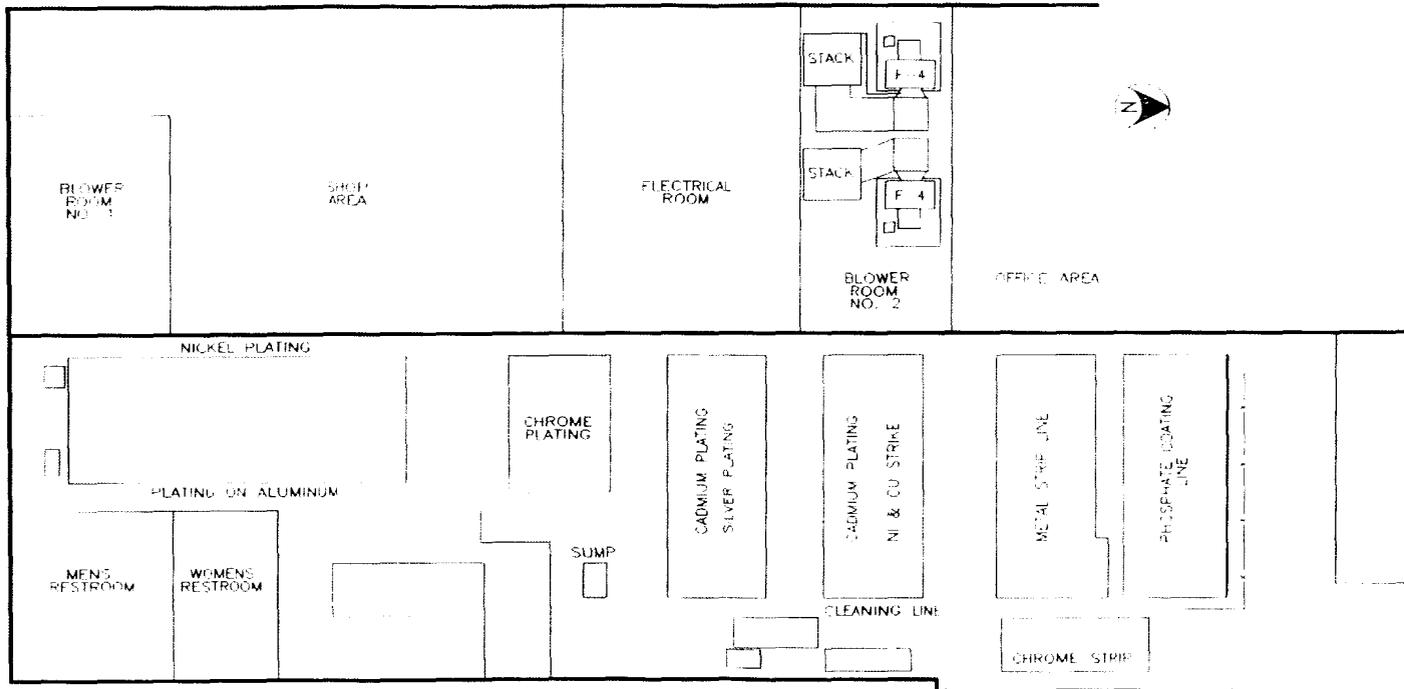
LP36

West D Street

LP24 Machine Shop

LP78

VAFF4652-002-9909-002.DWG PLOT DATE 09-19-99



| | | | |
|---|---------------|--------------------------------------|----------------|
| UNITED STATES NAVY LANTDIV | | | |
| DESIGNED MEREDITH | DATE 09/19/99 | SITE LAYOUT LP-20 PLATING SHOP | |
| DRAWN DEAN | DATE 09/19/99 | | |
| Vetstar 6850 VERSAR CENTER SPRINGFIELD, VIRGINIA 22151 (703) 750-3000 | | PROJECT NO. 4652-002 | SCALE AS SHOWN |
| | | DRAWING NO. 9909-002 | FIGURE 1-1 |



Plating Shop Background

- During a 1989 RCRA inspection, the VDEQ observed violations of the VHWMRs
- RCRA Enforcement Order effective 12/20/90
- Partial closure was conducted including the removal of the tanks and most of the piping and either decontamination or disposal; however, final closure was not achieved
- August 2002, DEQ approved Navy request to transfer the Plating Shop from RCRA to CERCLA
- Plating Shop becomes CERCLA Site 23
- Team currently planning the approach for the investigation of Site 23

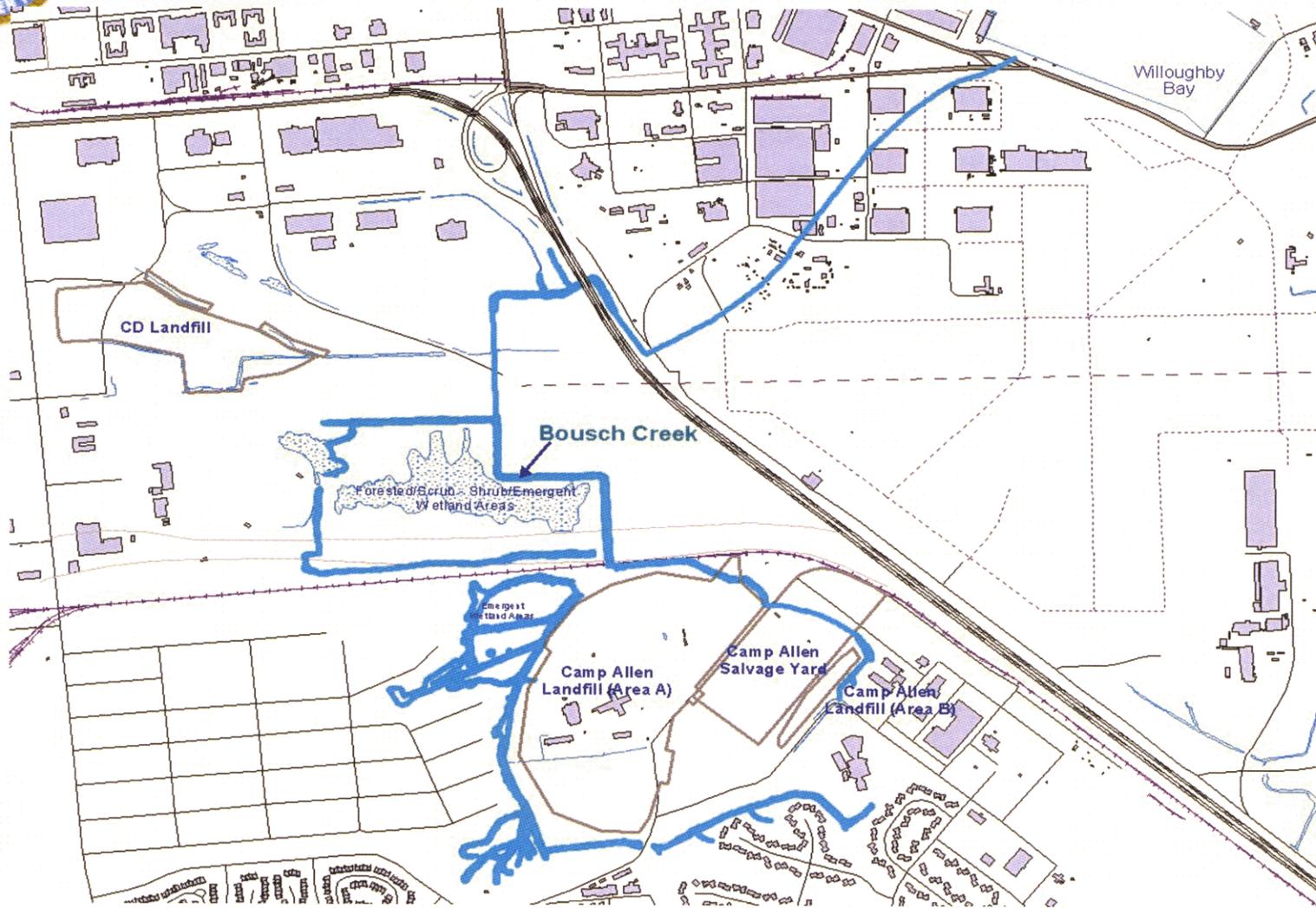


Specific Update

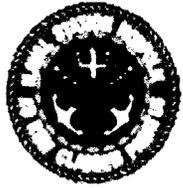
Bousch Creek Ecological Risk Assessment (ERA)

Naval Station Norfolk

November 2002

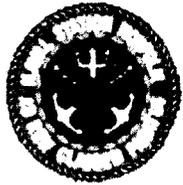


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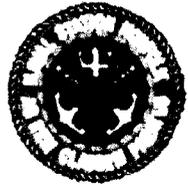
Bousch Creek ERA

- Bousch Creek is a creek system that flows through NSN adjacent to Camp Allen Landfill (CAL), Camp Allen Salvage Yard (CASY), and CD Landfill
- Creek has been channelized and flows through underground culverts over part of its length
- 29 outfalls discharge directly to Bousch Creek
- Draft ERA currently being review by Team
- Draft ERA included a screening ERA (SERA) and the first step of the baseline ERA (BERA)



Bousch Creek ERA

- SERA objectives:
 - determine if potential risks to ecological receptors warrant additional assessment
 - focus steps of the ERA process on the specific chemicals, pathways, and receptors of potential concern
 - identify any data gaps that may require additional data collection
- BERA objectives:
 - refine the risk estimates from SERA to determine if risks to receptors associated with site-related chemicals are likely to occur based on realistic exposure scenarios
 - focus subsequent data collection activities if data gaps are identified



Specific Updates

Site 18

Former NM Waste Storage Area

Naval Station Norfolk

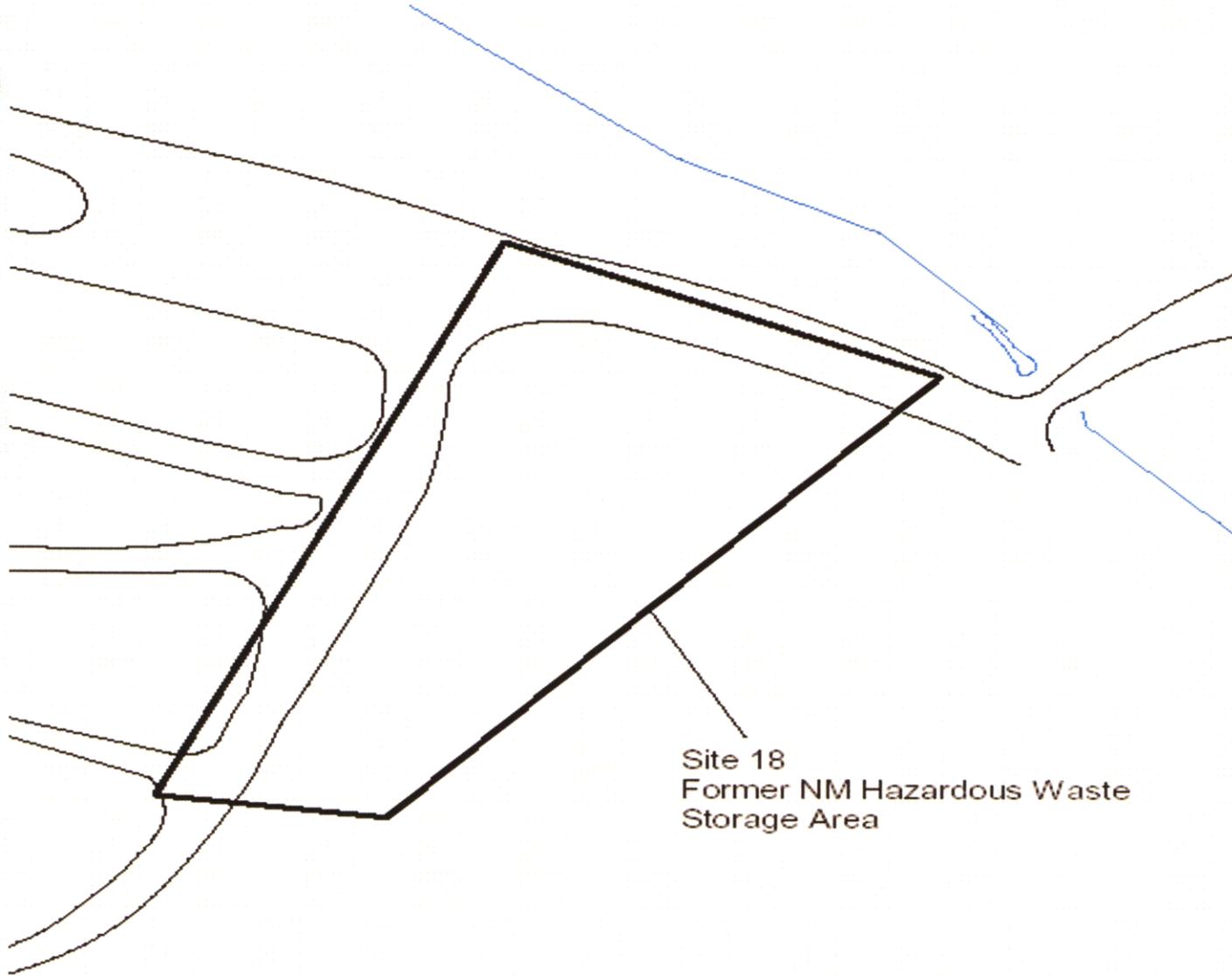
November 2002



Site 18



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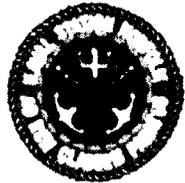


Site 18
Former NM Hazardous Waste
Storage Area



Site 18

- Background:
 - Open unpaved yard that was used to store drums from 1975-1979
 - Drums contained hazardous waste consisting of waste oil, metal plating solutions and sludges, chlorinated organic acids, and paint stripping solutions
 - Spillage of waste oil and hazardous wastes occurred
 - Final Site Investigation report submitted in Nov 2002 which recommended collecting additional data to fill gaps and delineate a potential soil hotspot
 - Additional investigation conducted in 2003
- Current Status:
 - Draft Expanded Site Investigation being reviewed by the Team



Specific Updates

SWMUs 12/16

Disposal and Accumulation
Areas near NM 37

Naval Station Norfolk

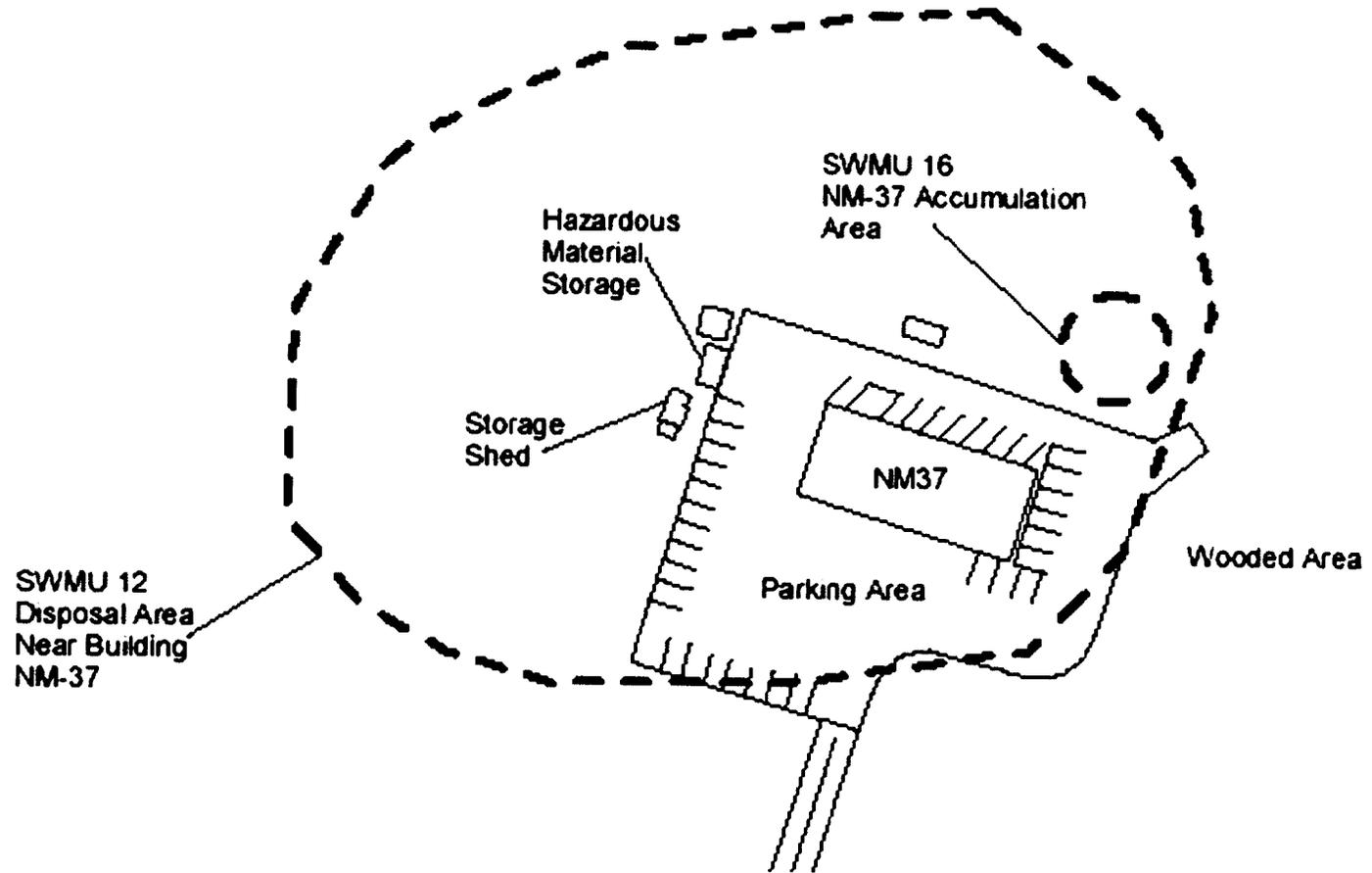
November 2002



SWMUs 12 & 16



01122A10Y



SWMU 12
Disposal Area
Near Building
NM-37

Hazardous
Material
Storage

Storage
Shed

SWMU 16
NM-37 Accumulation
Area

NM37

Parking Area

Wooded Area



SWMUs 12 & 16

- Background:
 - SMWU 12 and SMWU 16 are co-located
 - SWMU 12 was a possible disposal area that was identified from a 1958 aerial photograph
 - SWMU 16 was a hazardous waste accumulation area
 - consisted of metal container used to store fuel for mowers, oils, and hydraulic fluids
 - no history of release, but stressed vegetation observed during previous site visits
 - since investigation, accumulation structure has been demolished and replaced with newer structure
- Current Status
 - Draft Remedial Investigation is being reviewed by the Team

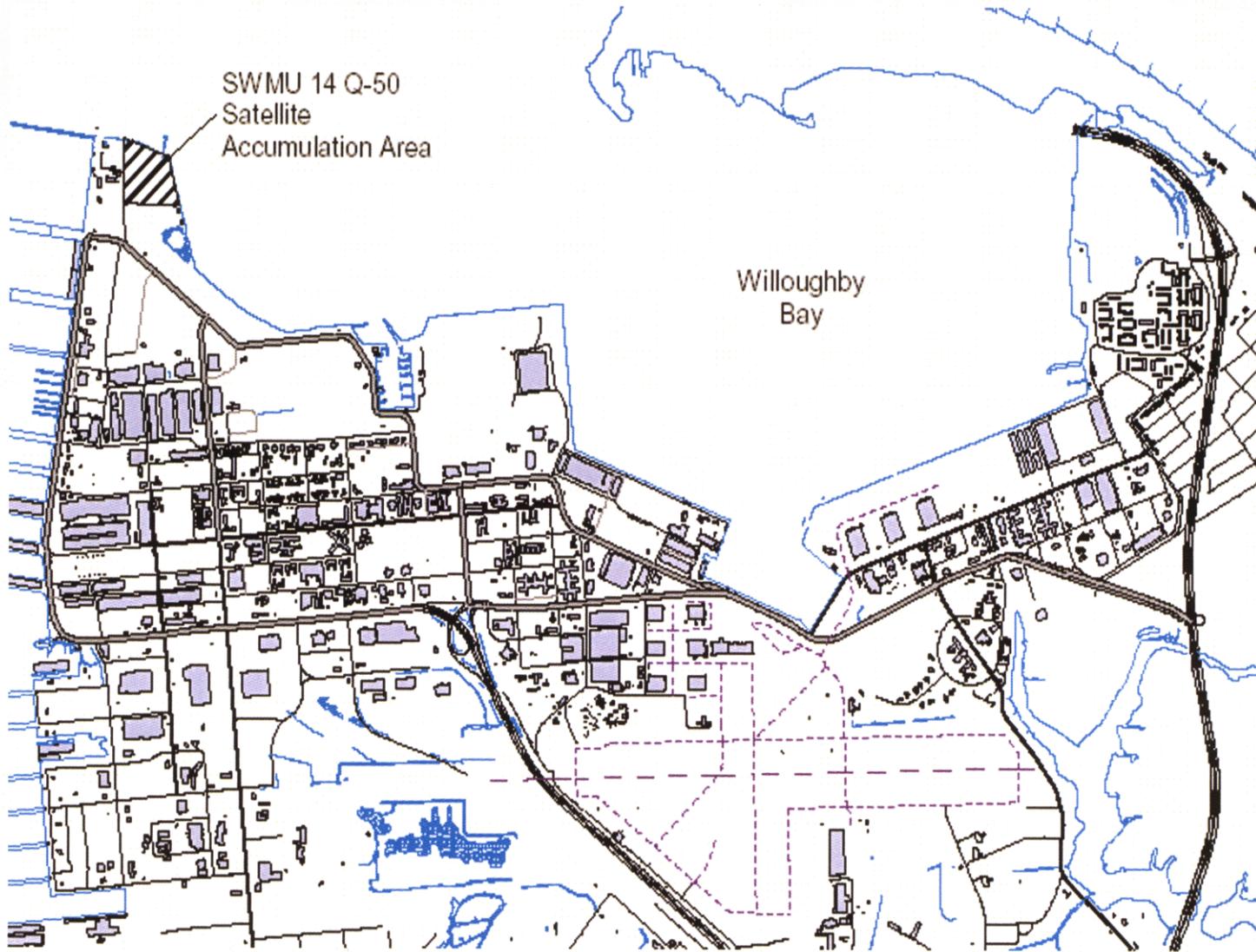


Specific Updates

SWMU 14 - Q-50 Satellite
Accumulation Area/Site 9 - Q
Area Landfill

Naval Station Norfolk

November 2002



SWMU 14 Q-50
Satellite
Accumulation Area

Willoughby
Bay

01127AB11Y



SWMU 14

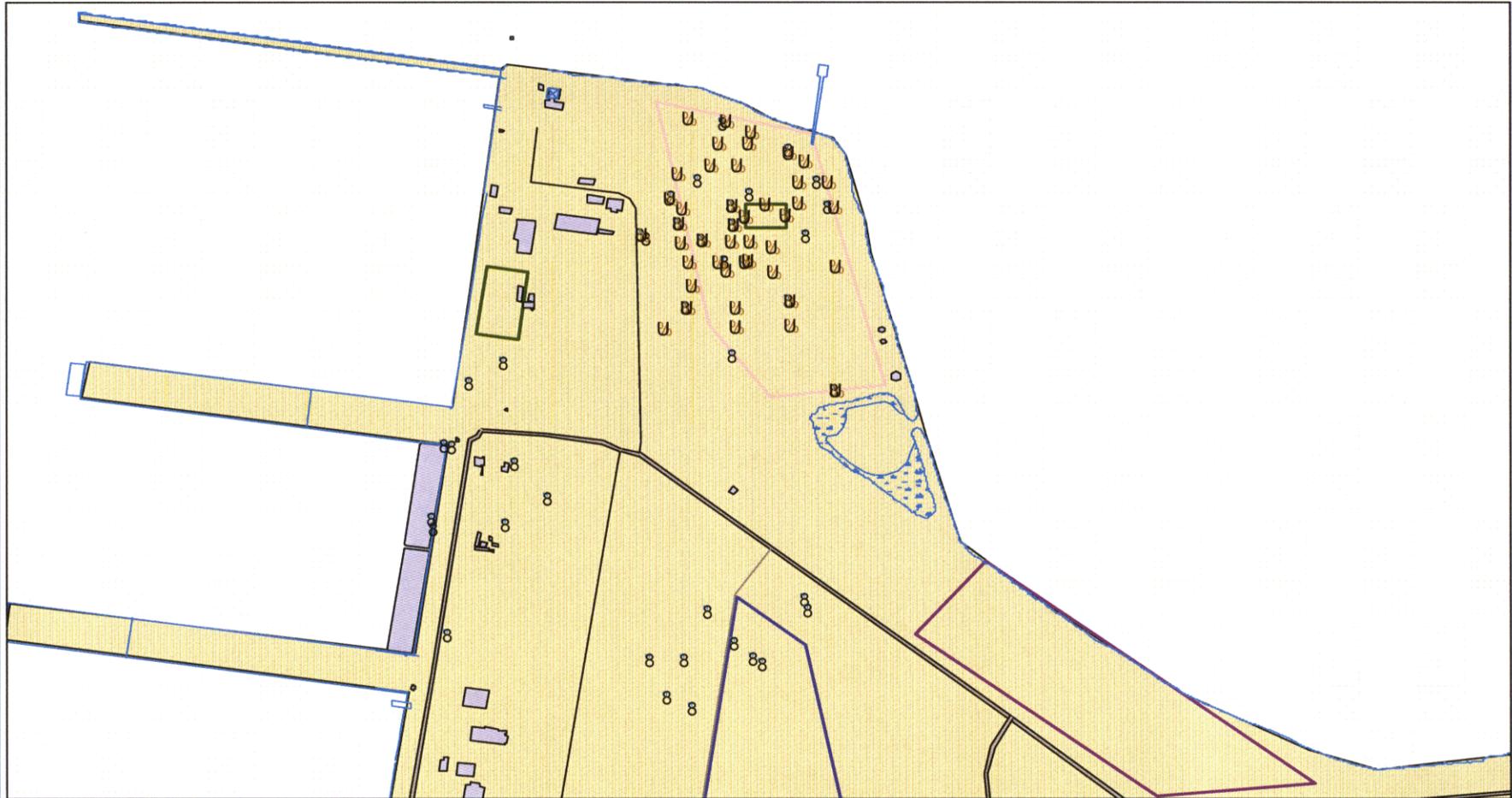
Q-50 Satellite Accumulation Area





SWMU 14 Q-50 Satellite Accumulation Area

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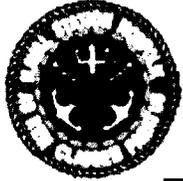


LEGEND

| | | |
|----------------------------------|---|-------------------------------------|
| Samples: Subsurface Soil | Remedial/Site Investigation in Progress | Remedial Design in Progress |
| Samples: Groundwater | NFA Sites Per Close-out Reports | Remedial/Removal Action Complete |
| NFA Sites Per FFA | Remedial/Removal Action in Progress | Remedial/Removal Action in Progress |
| Remedial/Removal Action Complete | Remedial/Site Investigation in Progress | |

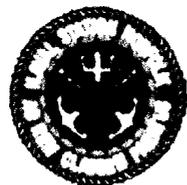
Figure 3
 Soil and Groundwater Samples
 SWMU 14
 IRP Investigation
 Naval Station Norfolk
CH2MHILL

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SWMU 14/Site 9

- Background:
 - SWMU 14 and Site 9 are co-located
 - Site 9 landfill operated from 1974 to 1978 to dispose of construction debris
 - These filling activities formed much of Sewell's Point peninsula
 - SWMU 14 consisted of a concrete storage pad that was constructed on top of the Site 9 landfill
 - The pad served as a 90-day accumulation area where wastes were processed before shipping for disposal
 - Pad has subsequently been removed
- Current Status:
 - Draft Remedial Investigation is being reviewed by the Team



Community Involvement Opportunities

Naval Station Norfolk

November 2002



Community Involvement Opportunities

- The Administrative Record is available at Kirn Memorial library
- Community Relations Plan submitted in August 2003
- Fact sheets pending for Community Relations Plan and the Five-Year Review



Community Involvement Contacts

Commander Navy Region Mid-Atlantic
9742 Maryland Avenue
Norfolk, VA 23511-3095
Attention: Community Outreach
Coordinator
Mr. John Ballinger
(757) 433-3443

Remedial Project Manager
USEPA, Region III (3HS13)
1650 Arch Street
Philadelphia, PN 19103
Attention: Mr. Todd Richardson
(215) 814-5264

Commander, Atlantic Division
Naval Facilities Engineering Command
1510 Gilbert Street (Bldg. N-26)
Norfolk, VA 23511-2699
Attention: Public Affairs Officer,
Mr. John E. Peters
(757) 322-8005

Virginia Dept. of Environmental Quality
Federal Facilities Program
629 East Main Street, 4th Floor
Richmond, VA 23240-0009
Attention: Mr. Devlin Harris
(804) 698-4226

Comments/Announcements

Closing Remarks