

**NAS SOUTH WEYMOUTH
FORMER SEWAGE
TREATMENT PLANT SITE**

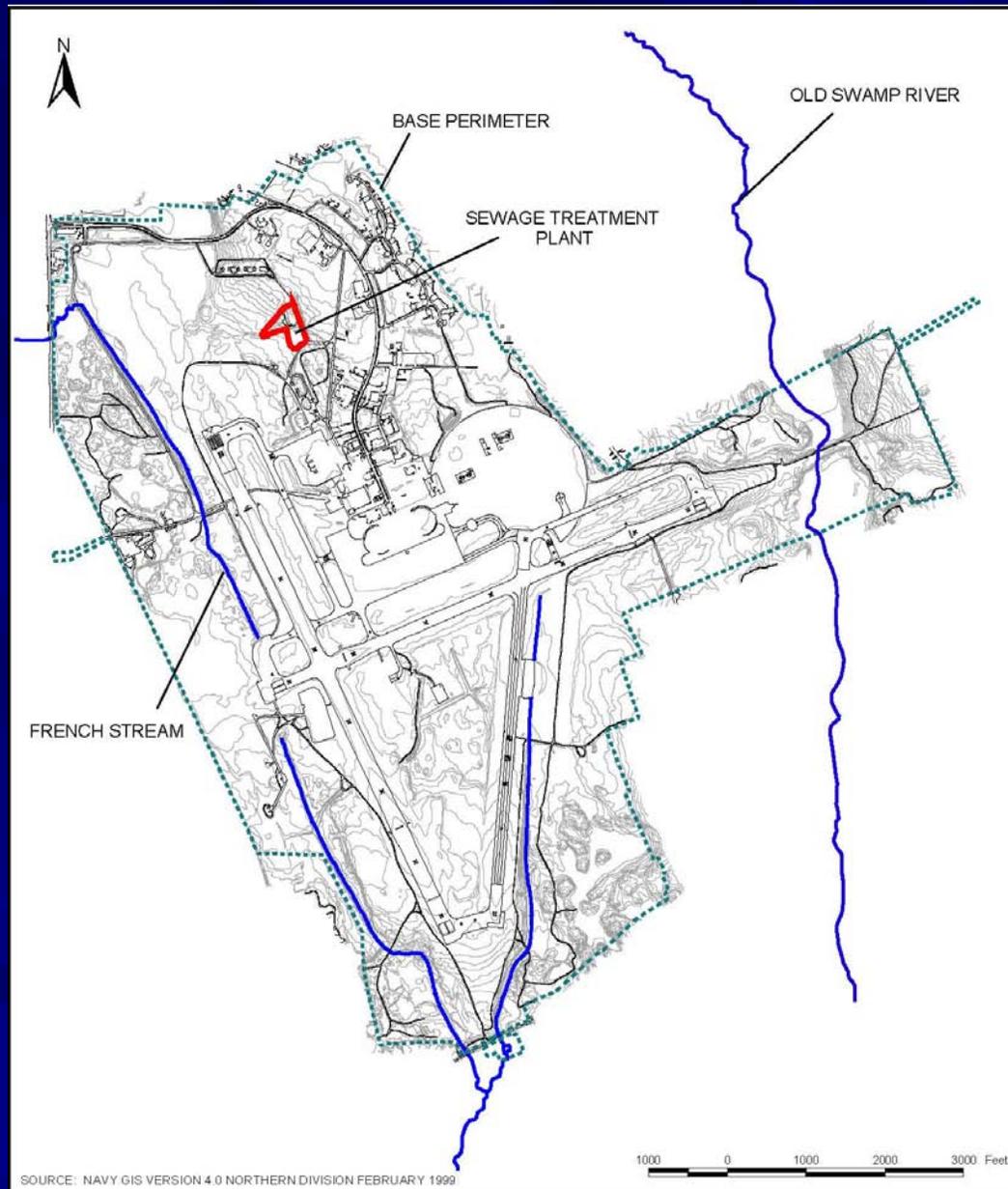
FEASIBILITY STUDY

RAB MEETING NOVEMBER 9, 2006

Phoebe Call
Tetra Tech NUS, Inc.
Project Manager

Diane Baxter
Tetra Tech NUS, Inc.
STP Site Manager

STP SITE LOCUS



FEASIBILITY STUDY PRIMARY OBJECTIVE

DEVELOP AND EVALUATE POTENTIAL
REMEDIAL ALTERNATIVES TO ADDRESS
UNACCEPTABLE RISKS TO HUMANS
AND THE ENVIRONMENT POSED BY
SITE CONTAMINANTS

FEASIBILITY STUDY PROCESS

- IDENTIFY MEDIA AND CONTAMINANTS OF CONCERN
- DEVELOP REMEDIAL ACTION OBJECTIVES AND CRITERIA
- IDENTIFY REMEDIAL TECHNOLOGIES AND ALTERNATIVES
- EVALUATE REMEDIAL ALTERNATIVES

IDENTIFY MEDIA AND CONTAMINANTS OF CONCERN

- SITE INVESTIGATION RESULTS
- HUMAN HEALTH RISK ASSESSMENT RESULTS
- ECOLOGICAL RISK ASSESSMENT RESULTS
- PERTINENT REGULATORY REQUIREMENTS

STP SITE

MEDIA OF CONCERN

■ SOIL and SEDIMENT

Contaminants may pose unacceptable human health and ecological risks → **media of concern**

■ GROUNDWATER and SURFACE WATER

No unacceptable human health or ecological risks → **not media of concern**

DEVELOP REMEDIAL ACTION OBJECTIVES AND CLEANUP CRITERIA

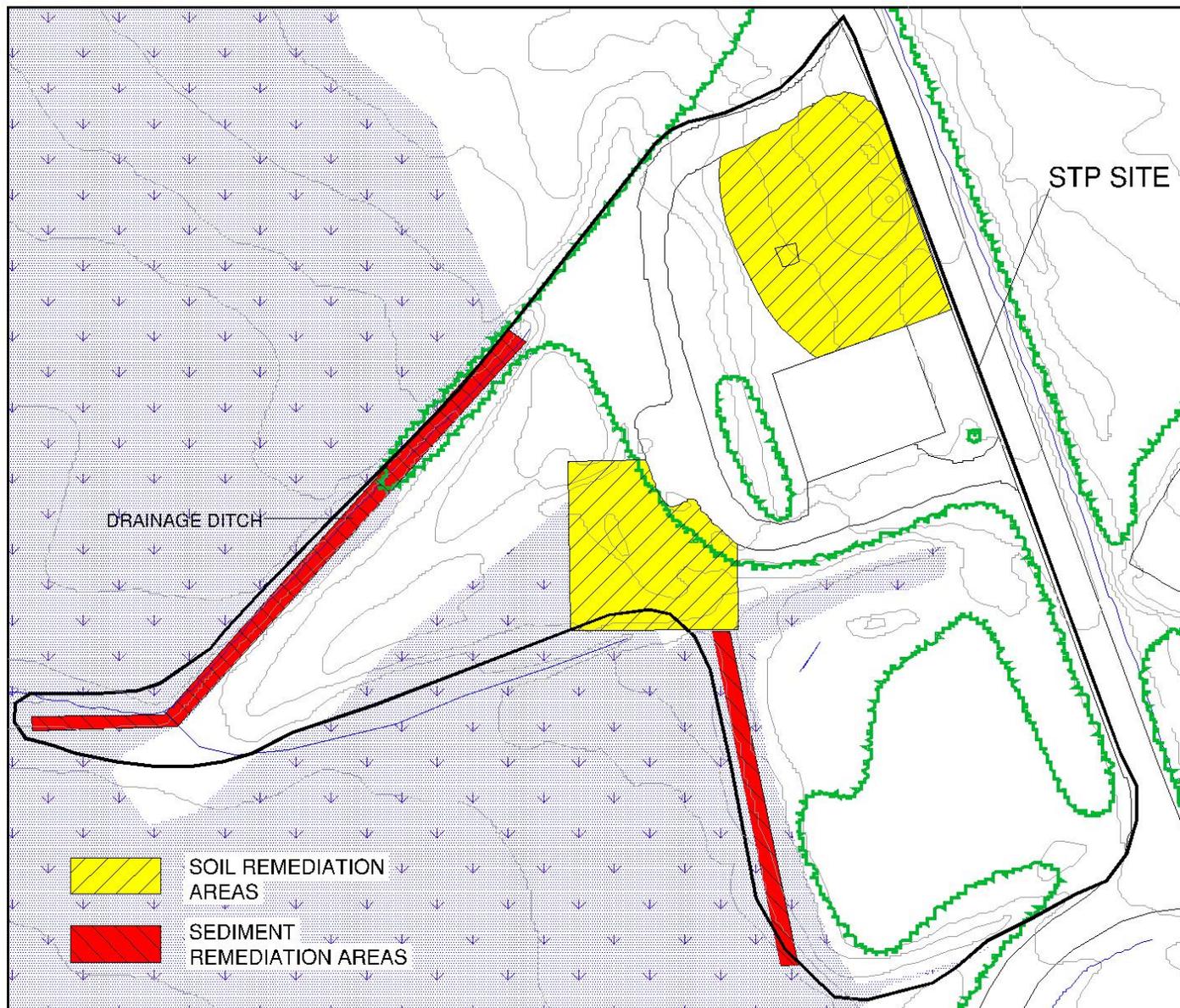
- PROTECTIVE OF HUMAN HEALTH
- PROTECTIVE OF THE ENVIRONMENT
- COMPLY WITH REGULATORY REQUIREMENTS

STP SITE REMEDIAL ACTION OBJECTIVES

FOR SOILS AND SEDIMENT

- ELIMINATE HUMAN EXPOSURE TO CONTAMINANTS EXCEEDING CLEANUP CRITERIA
- ELIMINATE ECOLOGICAL EXPOSURE TO CONTAMINANTS EXCEEDING CLEANUP CRITERIA

STP REMEDIATION AREAS



IDENTIFY REMEDIAL TECHNOLOGIES AND ALTERNATIVES

- IDENTIFY AND SCREEN POTENTIAL TECHNOLOGIES
- EVALUATE PROMISING TECHNOLOGIES
- DEVELOP ALTERNATIVES USING VIABLE TECHNOLOGIES

REMEDIAL TECHNOLOGY TYPES

- TREATMENT
- CONTAINMENT / CAPPING
- REMOVAL / DISPOSAL (LANDFILL)
- LAND USE CONTROL
- ACCESS RESTRICTION

COMBINE TO FORM ALTERNATIVES

STP SITE REMEDIAL ALTERNATIVES

1. NO ACTION
2. IN-SITU BIOREMEDIATION AND PHYTOREMEDIATION
3. OFF-SITE DISPOSAL AND/OR RECYCLING
4. ON-SITE EX-SITU SOLVENT EXTRACTION TREATMENT

EVALUATE REMEDIAL ALTERNATIVES

- EVALUATE EACH ALTERNATIVE AGAINST SEVEN CRITERIA
- COMPARE ALTERNATIVES AGAINST EACH OTHER

THRESHOLD EVALUATION CRITERIA

1. OVERALL PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT
2. COMPLIANCE WITH LAWS AND REGULATIONS

BALANCING EVALUATION CRITERIA

3. LONG-TERM EFFECTIVENESS & PERMANENCE
4. REDUCTION OF TOXICITY, MOBILITY, OR VOLUME THROUGH TREATMENT
5. SHORT-TERM EFFECTIVENESS
6. IMPLEMENTABILITY
7. COST

MODIFYING CRITERIA - EVALUATED IN RECORD OF DECISION (ROD)

8. STATE ACCEPTANCE
9. COMMUNITY ACCEPTANCE

STP REMEDIAL ALTERNATIVE EVALUATION

	Evaluation Criteria	1 No Action	2 In-Situ Bio/Phyto Remed.	3 Off-Site Disposal/ Recycling	4 Ex-Situ Solvent Extraction
1*	Overall Protection of Human Health and Environment	∅	○	●	●
2*	Compliance with Laws and Regulations	∅	●	●	●
3	Long-Term Effectiveness and Permanence	∅	○	●	●
4	Reduction of Toxicity, Mobility, Volume through Treatment	∅	●	○	●
5	Short-Term Effectiveness	○	●	●	●
6	Implementability	∅	○	●	○
7	Cost in \$ Millions (Total Present Value)	0.107	1.101	0.598	1.387

STP CERCLA Status

- Final FS issued by Navy in September 2006.
- Received comments from EPA and MADEP.
- Navy will respond to comments and complete the FS process.
- Draft Proposed Plan currently scheduled for December 2006.
- Public hearing for Proposed Plan anticipated in spring 2007.

Fire Fighting Training Area (FFTA)

Release Abatement Measure
(RAM) Update

FFTA RAM Status

Excavation of petroleum-impacted soils completed.

Soils will be shipped off-site for disposal following receipt of waste characterization data.

Soils currently stored on-site in covered stockpiles.

- Site restoration will be completed soon.



FFTA – Concrete anchor left in place



**FFTA – End of the day fill
area**



FFTA – Soil excavation



**FFTA – Partially filled
excavation**



FFTA – New outfall area



**FFTA – Swale with erosion
mats**



FFTA – Typical sidewall



FFTA –Covered stockpiles

Rubble Disposal Area

Construction Completion
Update

RDA – 2006 Construction Activities

Construction activities were completed as of May 8, 2006 when final hydroseeding of the PCB area and additional low density vegetation areas was performed.

- Long-term monitoring and operations and maintenance activities to commence once the LTM and O&M plans are finalized.

RDA Cap – Fall 2004



RDA Cap – August 2006



RDA Swale/Fence – Fall 2004



RDA Swale/Fence – August 2006



RDA Cap – August 2006



RDA Cap/Gas Vents – August 2006



Finding of Suitability to Transfer - FOST - Update

Restoration Advisory Board
NAS South Weymouth
November 9, 2006



Naval Air Station Property Conveyance

Conveyance After These Processes Complete:

NEPA Process

Real Estate Process

FOST Process

FOST = Finding of Suitability to Transfer

This is the culmination of a number of environmental assessments including:

CERCLA (Superfund)

MCP (Massachusetts Contingency Plan)

EBS (Environmental Baseline Survey)

Regulator (MA DEP & US EPA) walkovers

SSTTDC Due Diligence

\$22 Million of Assessment & Remediation

Result is no undue risk to human health & the environment

FOST Area Selection

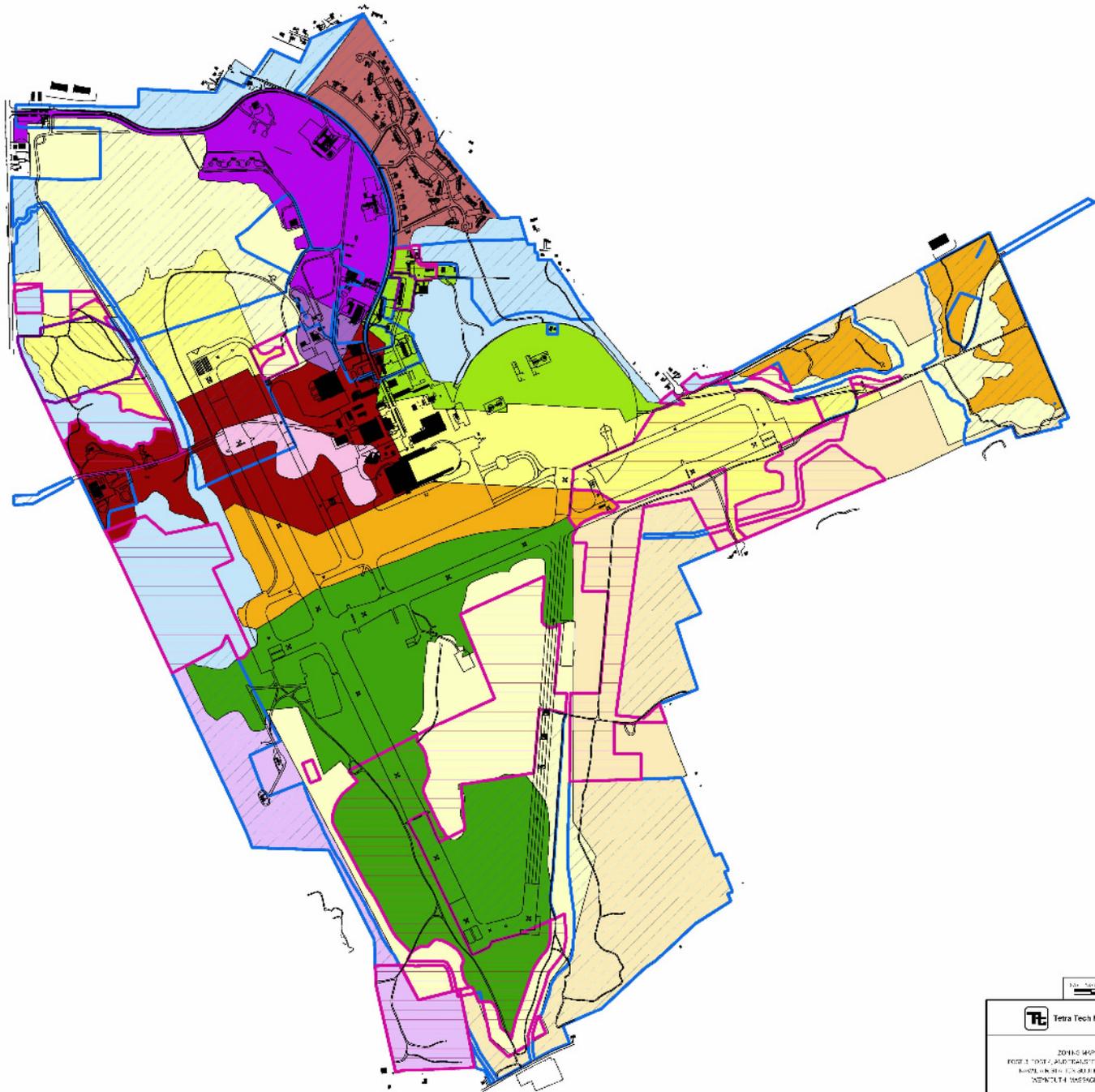
- PA/SI
- Phase I RI/Phase II RI
- Environmental Baseline Survey (EBS)
- MCP Site Reports
- Visual Site Inspection
- Draft Decision Documents (DD's)



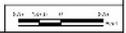
FOST Document

- Memorandum
- References
- Area Specific EBS (EBST)
- Environmental Covenants, Conditions, Reservations and Restrictions
- Summary of Sites





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Tetra Tech NUS, Inc.

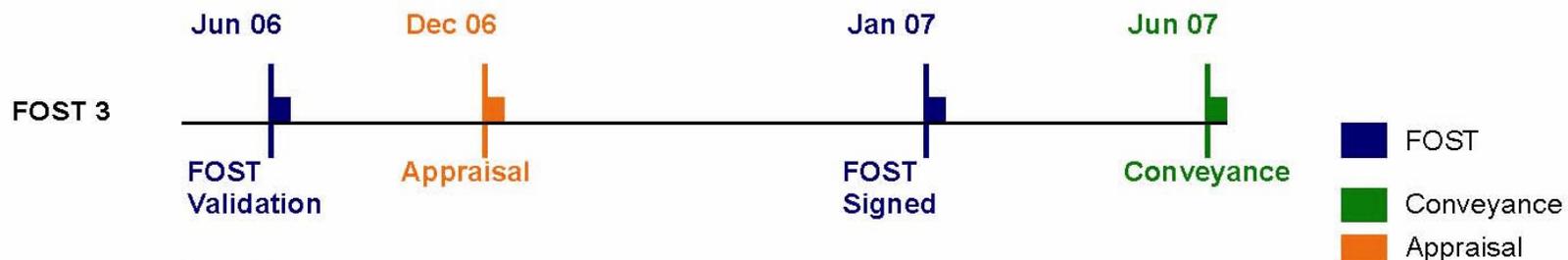
ZONING MAP
 PROJECT: 100% LAND TRACT DEVELOPMENT
 MAP SHEET: 13-0001-P-001-014
 WENTWORTH WASTEWATER

DATE	2018
SCALE	AS SHOWN
DATE	08/11/2018
BY	01



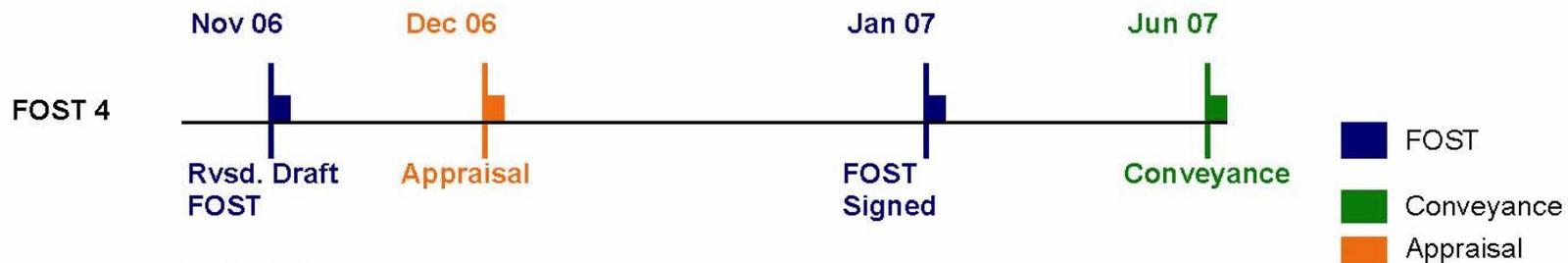
Timeline and Status

BRAC
PMO



Next Steps:

- Review and respond to comments
- Sign FOST



Next Steps:

- Submit revised FOST for Comments
- Submit responses to earlier comments
- Review and respond to new comments
- Sign FOST

Issues & Comments

- Reuse Plan
- Public Access
- Adjacent Sites
- Wildlife Survey
- Public Process
- Solid Waste

