February 18, 2004
Public Meeting

Barge 120 Spill

Buzzards Bay, Massachusetts

Technical Team

- Richard J. Wozmak, P.E., P.H., LSP; GeoInsight, Inc.
  - LSP-Of-Record
- Kevin Trainer, C.P.G., P.G., LSP; GeoInsight, Inc.
  - LSP Representative, Point of Contact for reports of oil
- Wayne Kicklighter, ENTRIX
  - Marine Biology

Supporting Members

- Mike Hickey, MADMF
- Richard Packard, MADEP
- Dale Young, Massachusetts NRDA Trustee

Presentation Format

- MCP IRA Update
- Initial MCP Sampling Plan and RAO Evaluation
- Future MCP Activities and Deliverables
- Ongoing Public Outreach
- Specific Information on segments available at booth

MCP IRA Status Report

- Summarizes results of IRA activities from September through December 2003
- Transmitted to DEP on February 10, 2004
- Included on BuzzardsBay.org website

MCP IRA – Potentially Buried Oil Inspections

- Inspected 5 segments in December after significant storm event (nor'easter)
- Inspected 7 of 9 segments in January as part of pre-scheduled dates (remaining 2 segments to be inspected in March, weather permitting)
- Buried oil not encountered

MCP IRA – IRAC Segments with Further Treatment Deemed Feasible

- 5 segments inspected in December
- Limited residual oil observed (e.g., limited splatter) - did not require cleanup under IRA – no mobile oil, no imminent hazard
- Segments will be inspected again in spring

MCP IRA - Reporting of New Conditions

- No reports of new conditions

Segment Characterization Approach

- Used to evaluate risk of harm to human health, safety, public welfare, and environment
- Evaluate segments based on initial oiling category
- If conditions represent No Significant Risk – Obtain Response Action Outcome (RAO) for the segments within the oiling category
- DEP in agreement with approach

Step 1

- Develop Conceptual Site Model (CSM)
  - Defines oil release characteristics, mobility, deposition and fate in environment, and potential exposures (tells the story of what happened during the release and potential exposure scenarios)
  - CSM used to develop sampling and evaluation protocol (where and what media do we sample, how do we sample, what do we analyze samples for, how do we use results)

Step 2

- Break into two segment groupings
  - Segments that are simple to characterize due to low initial oiling and the likelihood of limited residual oil remaining
  - Segments that contain relatively higher degrees of initial oiling or have the potential for greater residual oil remaining (e.g., marshes)

Step 3

- Evaluate simple segments prior to first year anniversary date (April 27, 2004)
- Evaluate more complex segments after first year anniversary date

Simple Segment Sampling and Partial RAO Evaluation Plan

- Approach
  - Evaluate Level of Risk at Segments categorized as light and very light degrees of oiling and moderately oiled beach segments
  - Sample representative cross section of segments with analysis of sand substrate for petroleum chemicals
  - Compare petroleum chemical concentrations to generic risk-based standards
  - If below standards and condition of No Significant Risk exists submit Partial RAO for group of segments

Simple Segment RAO Sampling Plan

- Segments selected for sampling based on greatest degree of oiling and distribution within communities
- Sampling areas within a segment based on:
  - Greatest degree of oiling
  - Other areas to improve spatial distribution
- Sampling Locations
  - Upper and lower intertidal zones (some middle intertidal samples also collected)

Simple Segment Risk Evaluation

- Human Health Risk– Compare soil/sediment quality results to MCP Method 1 Standards
- Environmental Risk – Compare soil/sediment quality results to conservative ecological standards

Simple Segment Risk Evaluation

- Safety Risk – Evaluate threat of physical harm or injury to public
- Public Welfare – Evaluate potential for residual oil to create a condition that would limit public or community use

Simple Segment Risk Evaluation Results

- 68 segments included in risk evaluation
- Human Health Risk - soil/sediment quality below standards
- Environmental Risk – soil/sediment quality below standards – further evaluating potential risk associated with terrestrial exposure

Simple Segment Risk Evaluation Results

- Safety Risk - slip hazard not present
- Public Welfare – Conditions not present that would limit public or community use

Characterization Approach More Complex Segments

- Segments include Moderately Oiled (non sandy beaches) and Heavily Oiled segments
- Performed after 1st year anniversary date (April 27, 2004)
- Same risk factors
- More comprehensive study
- Performed limited sampling of more complex segments in January to aid in developing CSM and future sampling and characterization plan

Results

- Soil/Sediment Quality results generally consistent with previous results
- Will be used to develop CSM and future characterization plan

Upcoming Activities

- Continued Potentially Buried Oil Inspections
  - Next inspection dates – April and after significant storm events between now and April
- Elizabeth Islands Inspections tentatively scheduled for March – weather permitting
- Spring Inspections of previously IRAC-inspected segments where further treatment deemed feasible

Upcoming Deliverables by April 27, 2004

- Conceptual Site Model Report
- Phase I Initial Site Investigation Report
- Tier Classification
- Phase II CSA Scope of Work

Public Outreach

- Deliverables presented in Buzzardsbay.org website upon completion
- Town notification of investigation activities
- Public meetings: Next meeting will be scheduled for May 2004