Agenda

• Introductions
• Project background
• Process and timeline
• Permitting process discussion
PROJECT BACKGROUND
Project Purpose

MODEL PERMITTING PROCESS AND CODE DEVELOPMENT

CLEAN SOIL BANK FEASIBILITY STUDY
Background

- Historical Application of Lead Arsenate Pesticides in Central Washington between late 1800s and 1940s
- Nearly 115,000 acres of land potential contaminated by lead and arsenic
Past Effort Timeline

Ecology convenes LPWG to develop solutions for remediation of historical orchards.

Model Remedy
Ecology publishes draft, then final model remedy detailing cleanup options.

Pilot Project
Cameo Development pilot cleanup project used to develop additional process tools and quantify costs.
Resources

Legacy Pesticide Working Group

Model Remedy
Model Remedy 101

- Capping
  - soft
  - hard

- Excavation

- Mixing

- Consolidation
Example: Multiple Cleanup Scenario

IMPLEMENTED CLEANUP TECHNOLOGIES
- **SOFT CAPPING**
- **HARD CAPPING**
- **EXCAVATION**
- **CONSOLIDATION**
- **PARCEL BOUNDARY**
Clean Soil Bank Models

CLEAN SOIL SOURCE

SOIL REPOSITORY

TREATMENT FACILITY
**Tools**

- Ecology Dirt Alert Web Map
- Ecology Soil Sampling
- Outreach and Education Materials
- Ecology Model Remedy

- Model Developer Agreements
- Model Notice to Owners
- Self-Certification Forms
### Stakeholder Engagement

<table>
<thead>
<tr>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Q1</th>
<th>Q2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JAN</strong></td>
<td><strong>FEB</strong></td>
<td><strong>MAR</strong></td>
<td><strong>APR</strong></td>
<td><strong>MAY</strong></td>
<td><strong>JUN</strong></td>
</tr>
<tr>
<td><strong>STAKEHOLDER ENGAGEMENT</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steering Committee Meetings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stakeholder Focus Groups</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community Meetings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Model Remedy Implementation Case Study

- **Code Review Research**
- **Model Codes and Guidebook Development**

### Soil Bank Feasibility Study

- **Cleanup Case Studies**
- **Supply Demand Analysis**
- **Soil Bank Concept Development**
- **Feasibility Study Report**
PERMITTING PROCESS DISCUSSION
Pre-application/ due diligence

Lead Arsenate present on the site?

- √: Model Remedy Required
- ×: Waiver (below clean-up level)

Regular permit process

Permit approved