

Proposed Project Approach: Levee Improvement Project

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PEN 1 & PEN 2 - Original Project Timeline

PHASE 1 (2012-2015)
Investigate Current Condition of Levees



PHASE 3
Implement Repairs

PHASE 4Certify & Submit Documentation



Phase 2: Proposed Project Approach





Proposed Project Timeline

PHASE 1 (2012-2015)

Levee Engineering Assessments (PEN 1 and PEN 2)

PHASE 2 (2015-2016)

Levee Engineering Assessments (MCDD and SDIC) Current Conditions Assessment (system wide)

PHASE 3 (2016-2017)

Risk Based Decision Model - Alternatives Analysis System Wide Design and Finance Repairs

PHASE 4

Implement Repairs System Wide

PHASE 5

Certify & Submit Documentation for System Wide Accreditation



Phase 2: Current Conditions Assessment

System Wide Levee Eng. Assessment Economic Conditions Environmental Conditions Conditions Community's Desired Outcomes Desired Level of Protection

Phase 3: Risk Based Decision Model - Alternatives Analysis
System Wide Design and Finance Repairs

Prioritize Economic, Social, and Environmental Assets



Phase 2: Current Conditions Assessment



System Wide Investigation



Economic Conditions



Environmental Conditions



Social Conditions



Phase 2: Desired Outcomes

Desired Level of Protection

Prioritize Economic,
Social, and
Environmental
Assets

Summary Water Surface Elevations for PEN 2 Levee System – NAVD88

River Mile	1%-annual-chance	0.2%-annual-chance	Design Flood
	(100 Year) FEMA	(500 Year) FEMA	(470 Year) USACE
107.4	31.8 ft.	35.3 ft.	35.1 ft.



Benefits of Proposed Approach

- Project Benefits
 - More public engagement, regional participation
 - Comprehensive end product
 - Better understanding of risk
- Economic benefits
 - Potential to reduce costs
 - Potential to distribute costs



Risks of Proposed Approach

- Project Risks
 - Agreement with federal partners regarding holistic approach
 - PEN 1 and PEN 2 expired certifications



Proposed Timeline Jan 2016 Jan 2017 Jan 2015 Jan 2018 OS Oregon Solutions Phase 2 / Community Involvement **Alternatives** DOC Phase 1 Development & **Economic Study** MCDD & **Fund** PEN 1 & Climate Change Study SDIC ing 2 **Environmental Baseline Study** Encroach. Analysis **Community Asset Mapping** Eval MCDD & SDIC Investigation PEN 1 & 2 Encroachment Evaluation **Community Input Community Input**

