



# ENERGY FACILITY SITE EVALUATION COUNCIL

TESORO/SAVAGE Vancouver Energy Project

December 16, 2014

## INFORMATION NEEDS AND DEIS DEVELOPMENT PRESENTATION



### PRESENTERS:

**SONIA BUMPUS (EFSEC)**

**JAN AARTS (Cardno)**

**ALISON UNO (Cardno)**

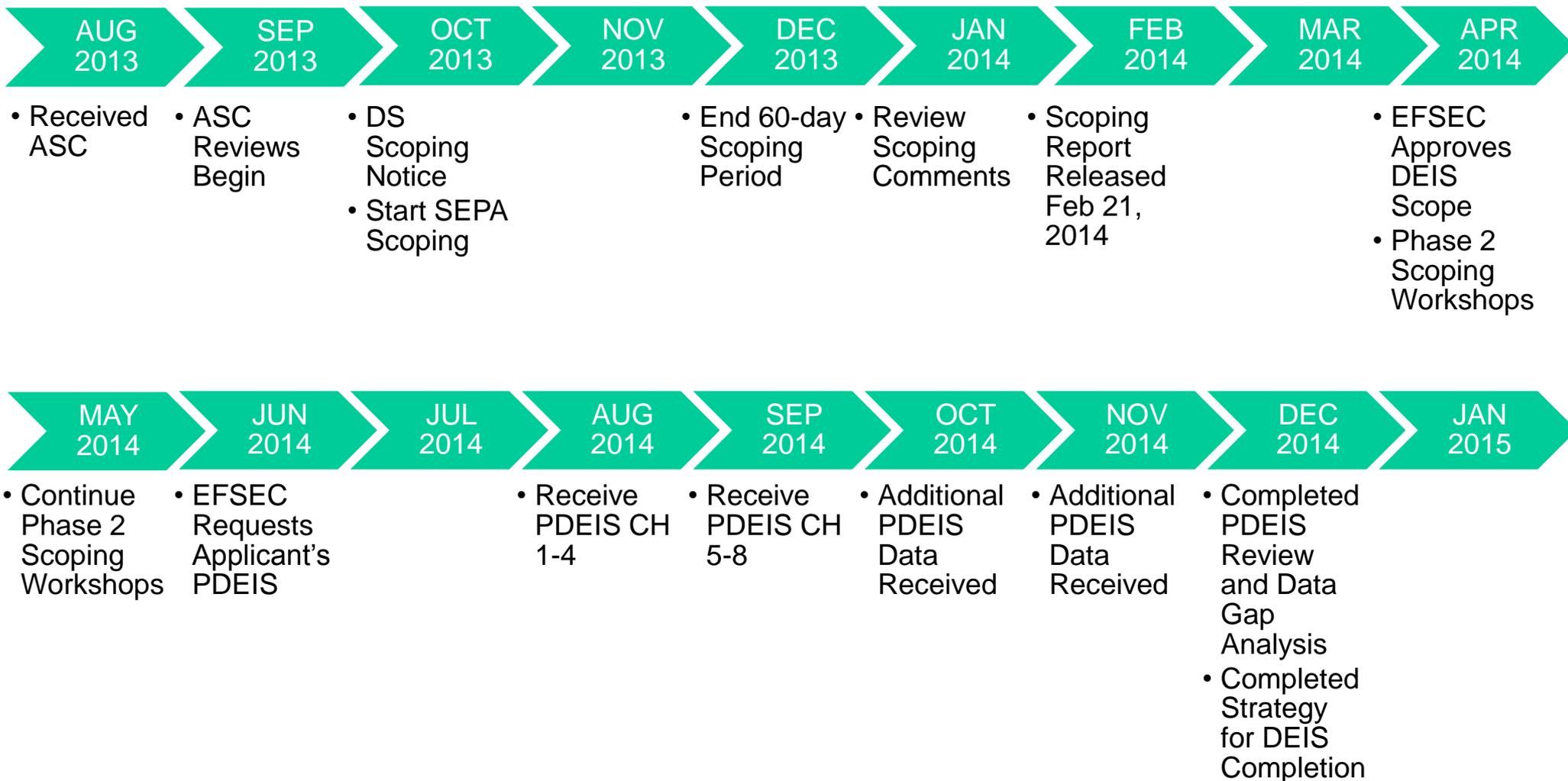


## **PRESENTATION:**

- ✓ **EFSEC SEPA ENVIRONMENTAL REVIEW PROCESS**
- ✓ **DISCUSS KEY GAPS AND CORRECTIVE ACTIONS**
- ✓ **DEIS SCHEDULE**
- ✓ **QUESTIONS**



# EFSEC ENVIRONMENTAL REVIEW PROCESS





## **EFSEC DEIS GOALS**

- **Ensure compliance with SEPA**
- **Capture EFSEC's SEPA scope informed by EFSEC scoping period**
- **Create a well organized, understandable, and informed DEIS**

## **OBJECTIVES**

- **Obtain a clear understanding of the project and analyses performed**
- **Identify informational gaps and additional data requirements**
- **Develop a strategy to obtain additional information, perform additional analyses**
- **Perform additional analyses and data collection**
- **Incorporate PDEIS information and results from additional analyses into a complete DEIS**



## **DEVELOP DEIS**

- **Build on extensive work completed by the Applicant**
- **Reorganize PDEIS to improve clarity and project understanding**
- **Revise text to achieve a balanced and objective tone**
- **Supplement information in PDEIS with additional data**
- **Clearly describe analytical methods used to identify potential impacts**
- **Clearly differentiate between onsite and offsite impacts**
- **Include separate section analyzing potential impacts from accidental releases**

## **OBJECTIVES**

- **Create an easy to follow document that clearly presents technical information**
- **Enable clear understanding of potential impacts and proposed mitigation**
- **Provide EFSEC objective and up-to-date information to make an informed decision**



## **PERFORM ADDITIONAL ANALYSES**

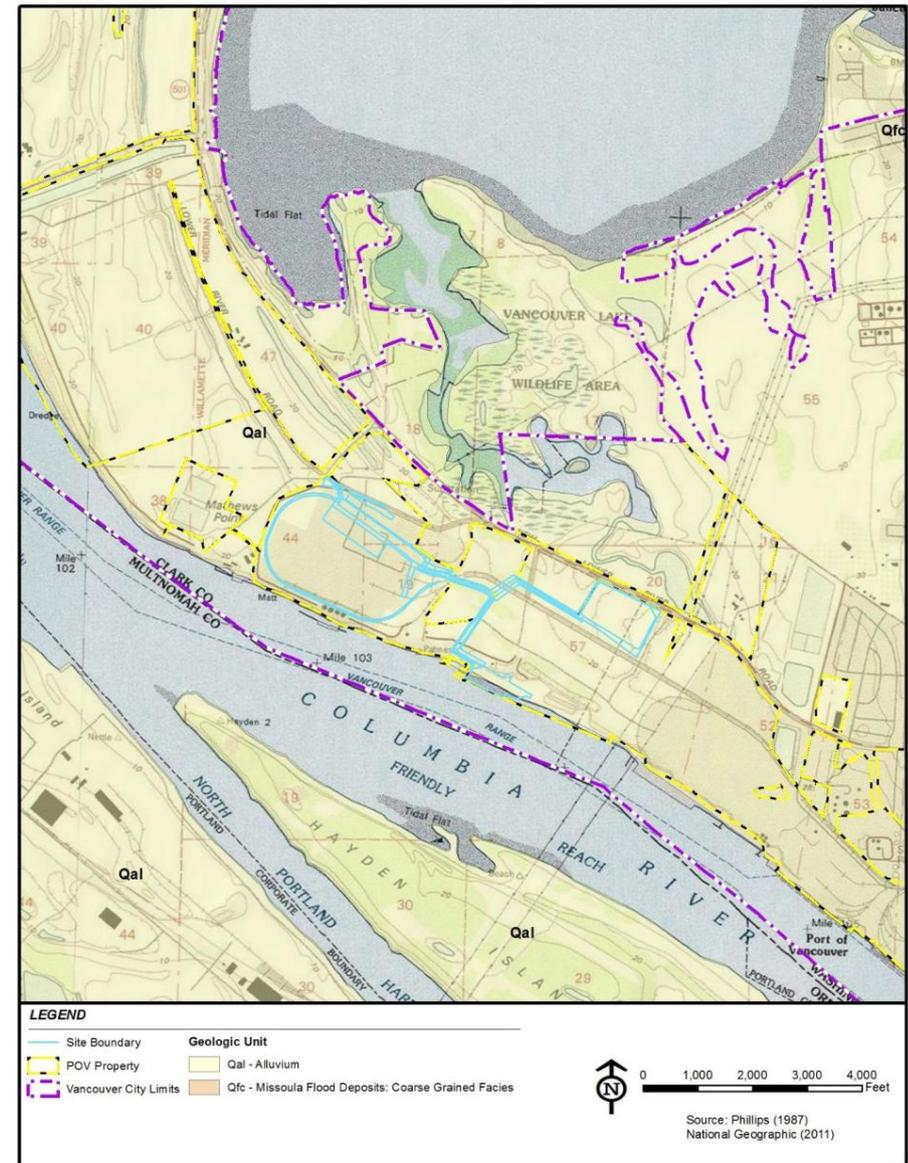
- **Review Applicant prepared geotechnical studies, seismic hazards analysis, and facility design**
- **Evaluate potential impacts from the proposed project on the Vancouver Fire Department's operational and response capabilities**
- **Conduct independent assessment of rail and vessel risk analysis**
- **Expand air quality analysis to include construction activity and mobile sources**

## **OBJECTIVES**

- **Carefully evaluate topics of concern raised by the public and agencies**
- **Use best available data and independent experts to analyze risks and potential impacts**
- **Prepare a document that informs decision makers of potential environmental impacts and identifies appropriate mitigation for the proposed action and alternatives**
- **Ensure compliance with SEPA**

# PERFORM ADDITIONAL ANALYSES

- Conduct independent review of Applicant prepared geotechnical studies, seismic hazards analysis, and facility design
- Seismic hazards to be evaluated:
  - Ground motion
  - Soil liquefaction susceptibility and likelihood
  - Liquefaction-induced permanent ground deformation (settlement and lateral spreading) and effects on foundation loads
  - Earthquake-induced landslides other than those due to liquefaction
  - Surface fault-rupture potential at site
  - Tsunami potential
- Focus on seismic hazards and mitigation options



# PERFORM ADDITIONAL ANALYSES

- Evaluate potential impacts on Vancouver Fire Department's operational and response capabilities
- Study to include:
  - Interviews with members of the VFD to clearly understand operational capabilities, emergency response personnel, equipment, and training
  - A local and regional risk assessment based on projected increase in crude oil transport (rail and vessel) within the VFD response area
  - Identification of potential gaps between the proposed facility's emergency systems and VFD's response capabilities
  - Recommendations to mitigate identified impacts, including emergency plans, tactics and strategies, training, equipment, and other resources



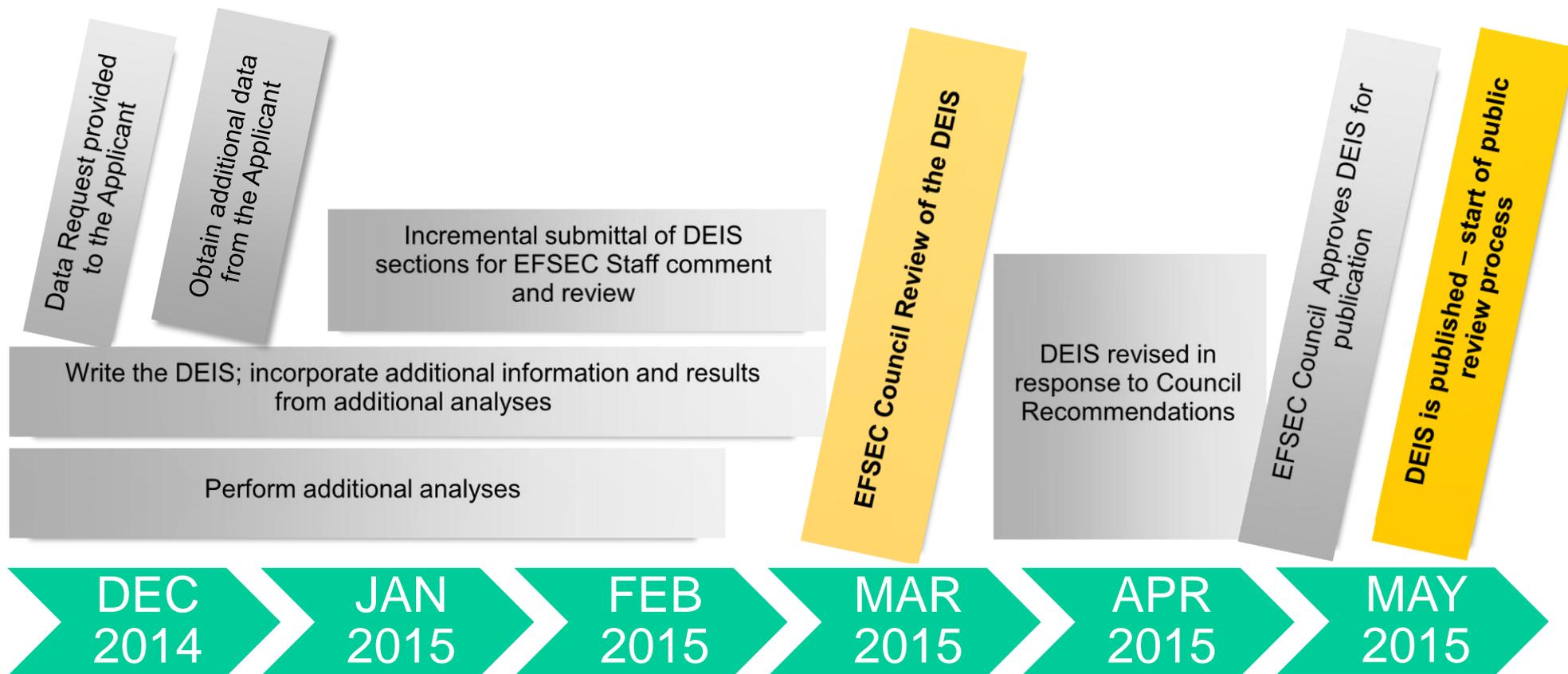
# PERFORM ADDITIONAL ANALYSES

- **Conduct independent assessment of Applicant prepared vessel and rail risk analysis**
- **Independent experts will:**
  - Review assumptions, analytical methods, and results
  - If necessary, conduct additional analysis to more accurately assess risks associated with rail or vessel traffic
  - Prepare a written report describing amended approaches, methods, and risk outcomes
- **The risk analysis will focus on:**
  - Probability of spill incidents
  - Nature of those incidents with regard to geographic location and spill volume
  - Potential impacts of spills





# TIMELINE OF FUTURE KEY EVENTS





**QUESTIONS?**