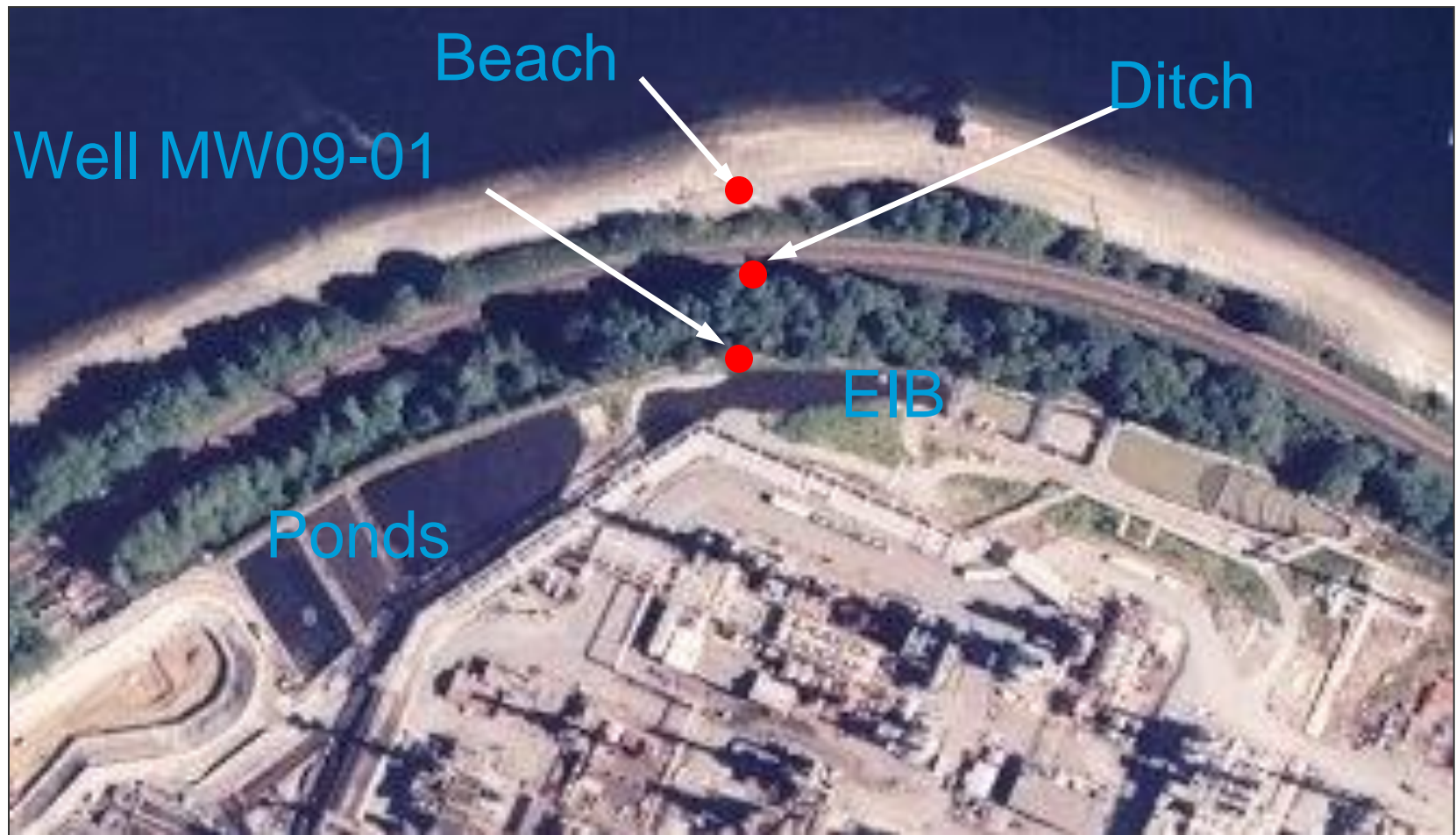


# Burnaby Refinery Area 2 Hydrocarbon Seep Community Advisory Panel (CAP) June 24, 2010



# Area 2 Location



EIB = East Impounding Basin

# Situation

- Stain by railroad observed April 20, 2010
- On April 21 confirmed as being a hydrocarbon seep along with detected beach seep
- Reported to CP Rail and Provincial Emergency Program (PEP) the same day
- Commenced recovery operations same day



# Railroad, April 20-21





# Railroad, April 22



# Railroad



- interception and removal of accumulated material using vacuum trucks





# Beach, April 21-23



# Source Investigation

- Liquid hydrocarbon sample analyses:
  - Approximately 25% diesel and remainder heavier gasoline
  - Possibility for small amounts of jet fuel and/or crude oil
- Investigation:
  - Team convened
  - Splitter crude line pressure tested – no leaks
  - Refinery effluent and storm water sewer system
    - video inspection – no breaks/failures detected to date
    - excavating test holes near associated manholes and some joints as these are the next most likely possibilities for seepage



# Delineation

## On-site:

- “Nested” exploratory drill holes to help define geology and potential sub-surface migration pathways

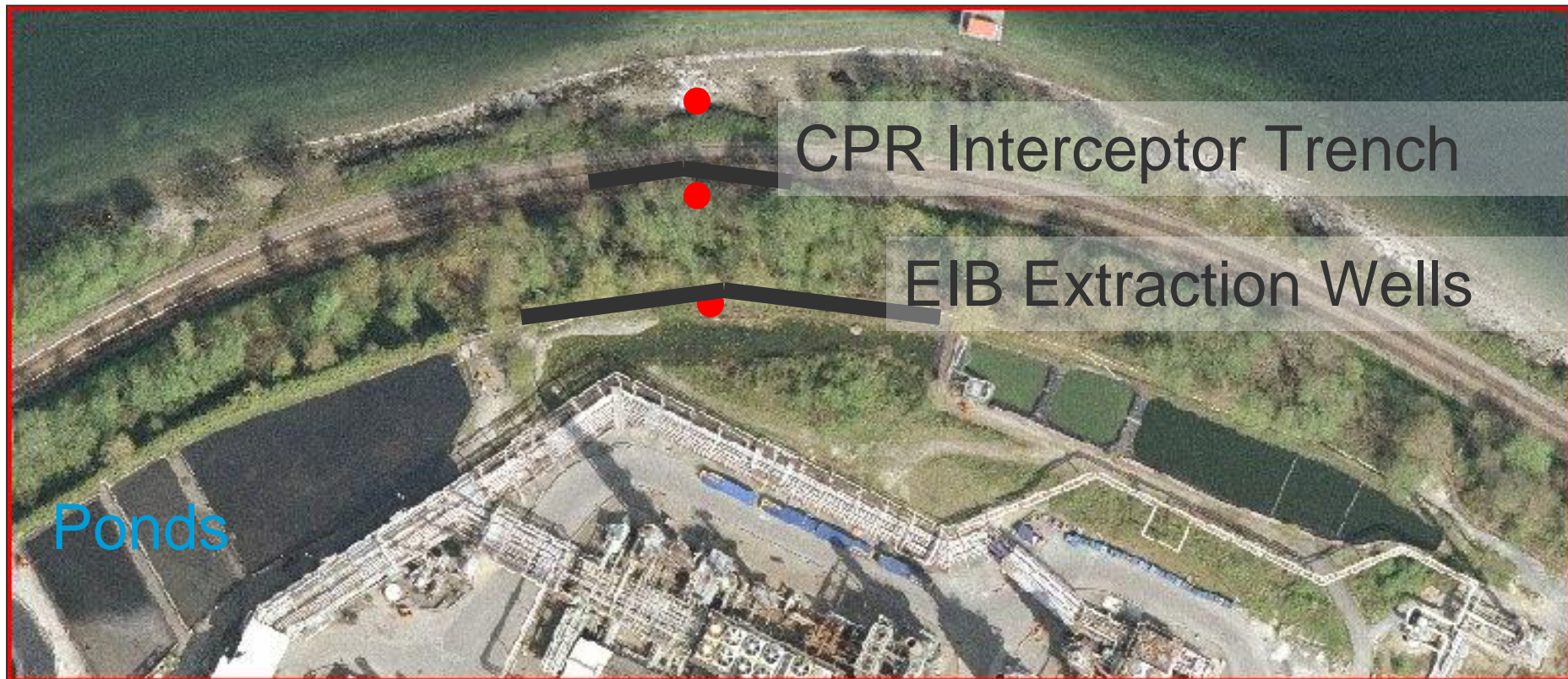
## Beach:

- A Stage 2 PSI (Preliminary Site Investigation plan) is being prepared by consultants to start delineation of the extent of any hydrocarbon contamination.

## Timeline:

- Data collection, analysis, fill-in sampling (Detailed Site Investigation plan) and interpretation by late September

# Remediation – 2 lines of extraction



EIB = East Impounding Basin



# Regulatory Oversight

## Regulatory Oversight:

- BC Ministry of the Environment (MOE) is the Lead Agency
  - Contaminated Sites Regulation Division

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- BC Safety Authority
  - pressure vessels and piping
    - requirements being met

# Visitors

- Saleh Haidar – Environmental Services Officer, City of Burnaby
- Richard Lee – MLA for Burnaby North
- David Suzuki Foundation has been to the beach site and Chevron has been in contact with their representative
- Refinery CAP Members
- Media



# Timelines

- Beach Stewardship - ongoing
  - Pads and boom – recovering & monitoring daily for months
- CPR Trench - ongoing
  - Vacuum and monitoring – daily for months
- EIB Wells
  - Installation – 10 holes drilled
  - Equipment and piping installation
  - Ready to start towards end of July; collect data; evaluate performance; modify as necessary
  - Operational timeframe – years

# Resources

- Leadership Team – Refinery Manager & Health, Environment, Safety Manager
- Project Management – Environmental Specialist
- Engineering – Project Engineer
- Construction/Safety – Field Representative
- Environmental Contractors – URS Canada, SLR Canada, Chevron Engineering Technology Company, Chevron Environmental Management Company
- Railroad – Levelton, CP Rail
- Vacuum extraction – Mac & Mac Hydrodemolition Services
- Beach Stewardship – CIMS, Burrard Clean
- Public Affairs – Refinery Public & Govt. Affairs Manager



# Commitment

- Chevron is committed to ensuring that we protect our local environment, and mitigate and contain any potential impacts relating to this seepage.
- Our priority has been to contain and prevent material from leaving our site, with oversight by the designated regulator.

# Questions and Answers

