

Community Meeting Former Kast Property Tank Farm

Samuel Unger, PE
Executive Officer

Los Angeles Regional Water Quality Control Board

January 25, 2012

Meeting hosted by the City of Carson

Mission of the Regional Board

- Regional Board mission is to preserve and restore California's water resources
- Authority to order investigation and cleanup of contaminated areas to restore waters of the State - surface & groundwater

Activities From Past Year

- Community Meeting - Feb. 2011
- Final Cleanup & Abatement Order - March 2011
- Draft Pilot Test Work Plan - May 2011
- CEQA
 - Public review - Sept. 2011
 - Approved – Nov. 2011
- Approved Pilot Test Work Plan – Nov. 2011

Residential Sampling Summary

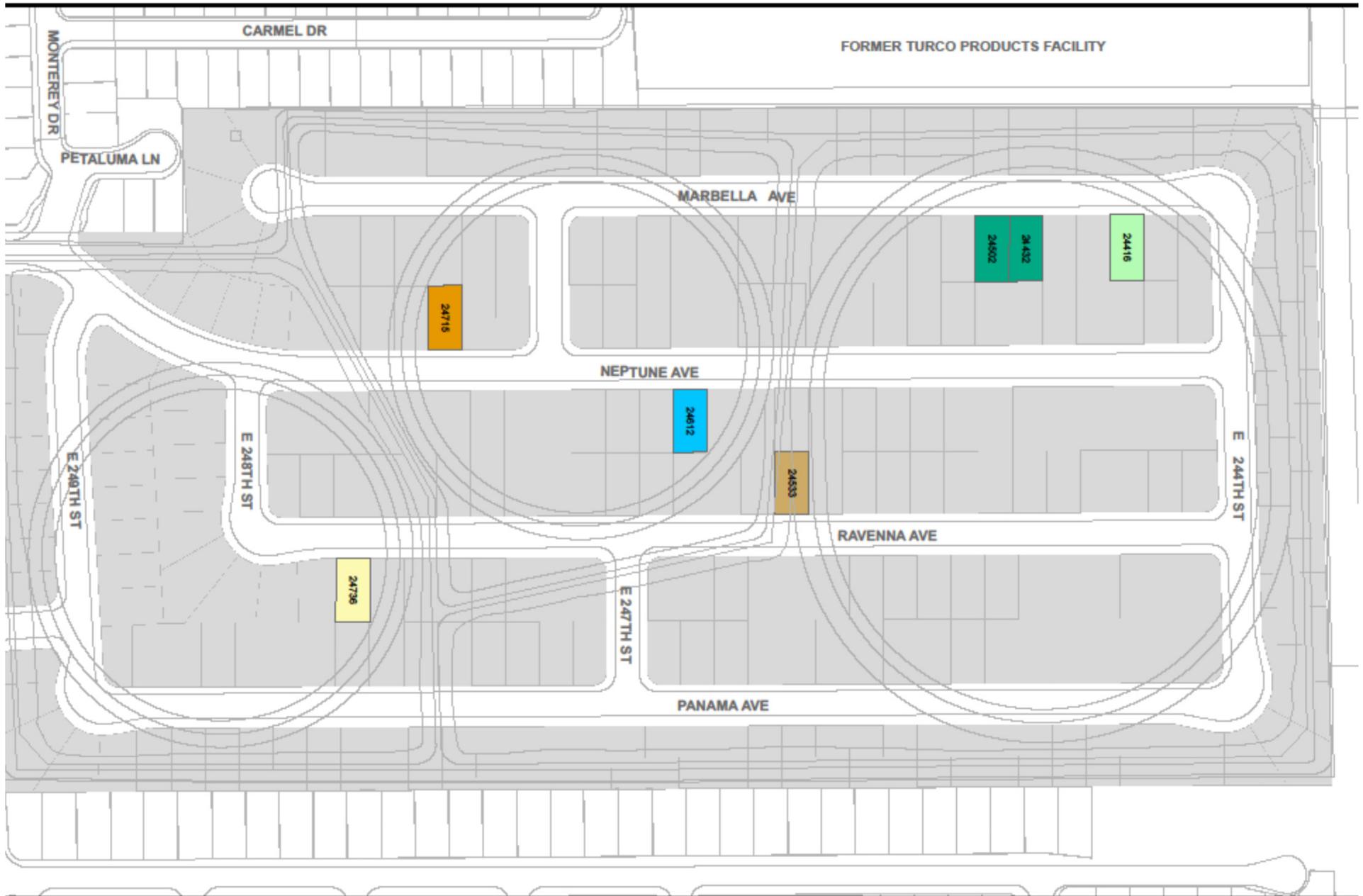
- 262 homes (92%): Methane Screening
- 262 homes (92%): Shallow Soil Sampling
- 262 homes (92%): Sub-Slab Probe Installed
- 252 homes (88%): Sub-Slab Probe Sampling
- 42 homes (15%): Indoor Air Sampling

Remediation Pilot Test Projects

- Three approaches to cleanup contamination
 1. Soil Vapor Extraction (SVE)
 2. Excavation
 3. In-Situ (in-place) soil treatment

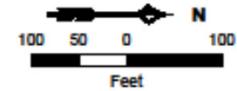
Remediation Pilot Test Projects

- Excavation
 - Removal of contaminated soil to depth of 10 ft.
 - Five excavation methods evaluated
 - Six proposed properties
 - Requires temporary resident relocation & mitigation measures
 - Backfill with certified clean soil
 - Landscape



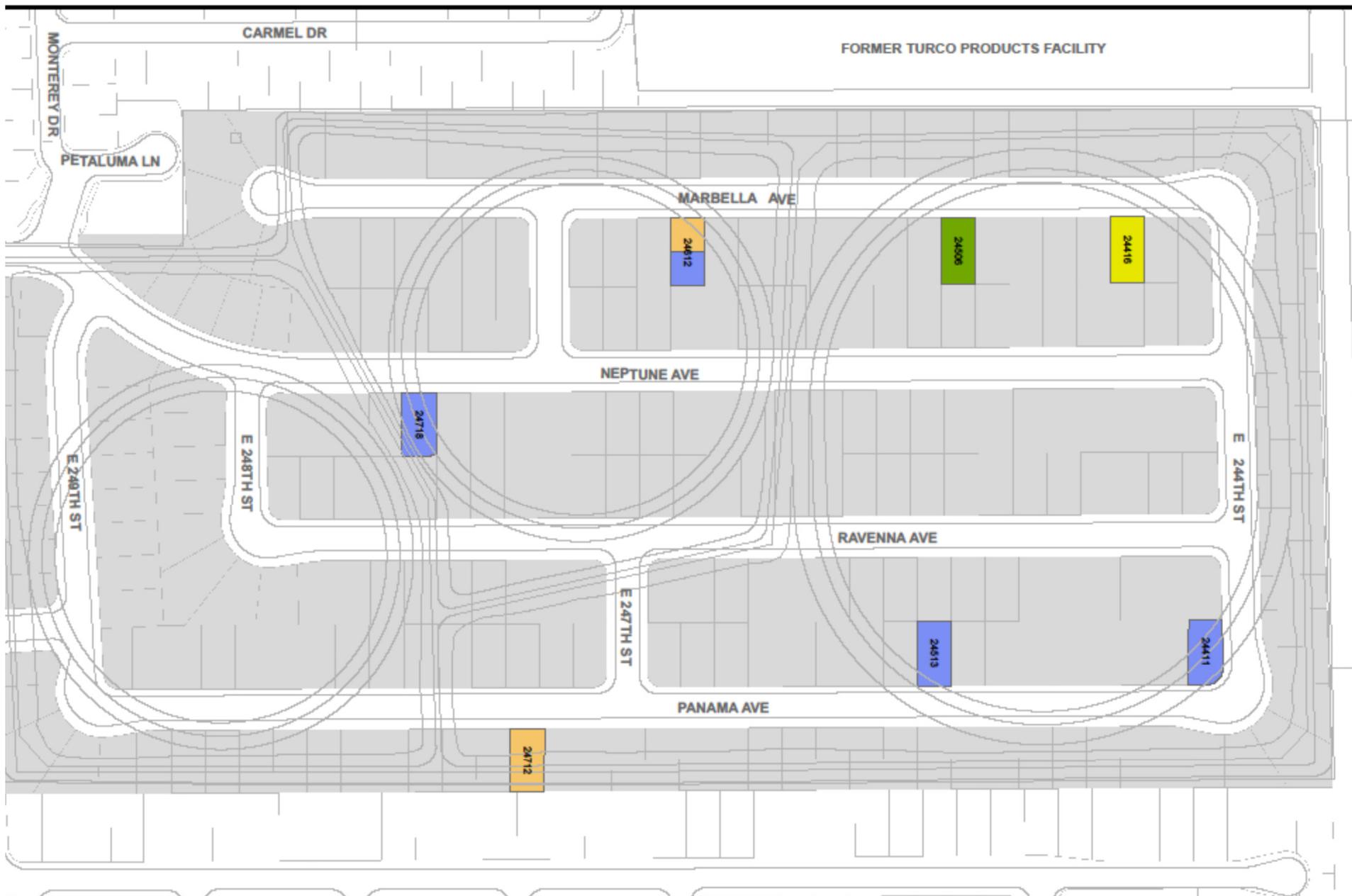
*PROPERTY
 (SHORED EXCAVATION
 (OPERIES)
 OT-TRENCH EXCAVATION
 IDE-RAIL SHORED EXCAVATION

- FRONT-YARD TRENCH-BOX SHORED EXCAVATION
- BACK-YARD SLOT TRENCH EXCAVATION
- BACK-YARD SURGICAL EXCAVATION

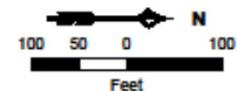


Remediation Pilot Test Projects

- In-situ (in-place) Soil Treatment
 - Chemical Oxidation
 - Process of chemical oxidation used to treat soil contamination
 - Bioventing
 - Oxygen used to enhance bacterial degradation of contamination



- PROPERTY
- LIQUID TRACER TEST
- ZONE INJECTION TEST
- FRONT-YARD HORIZONTAL WELL BIOVENTING TEST (2 LOCATIONS)
- FRONT AND BACK-YARD VERTICAL WELL BIOVENTING TEST (4 LOCATIONS)



Steps Before Pilot Test Can Begin

- Required Permits
 - State
 - County
 - City / Local agencies
- Home owner permission required to access properties

What's Next Under CAO

- Pilot Test Results Report
 - Due March 22, 2012
- Site-Specific Cleanup Goals
 - Due March 22, 2012
 - 30-day public comment period
- Remedial Action Plan
 - Due April 21, 2012
 - 30-day public comment period
 - Regional Board review and approval
 - Implementation

Contact Information

Technical Questions

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General Questions

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