



Former Fort Ord, Monterey County, California

Fort Ord Operable Unit 2 Landfills February 2022

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Ahtna

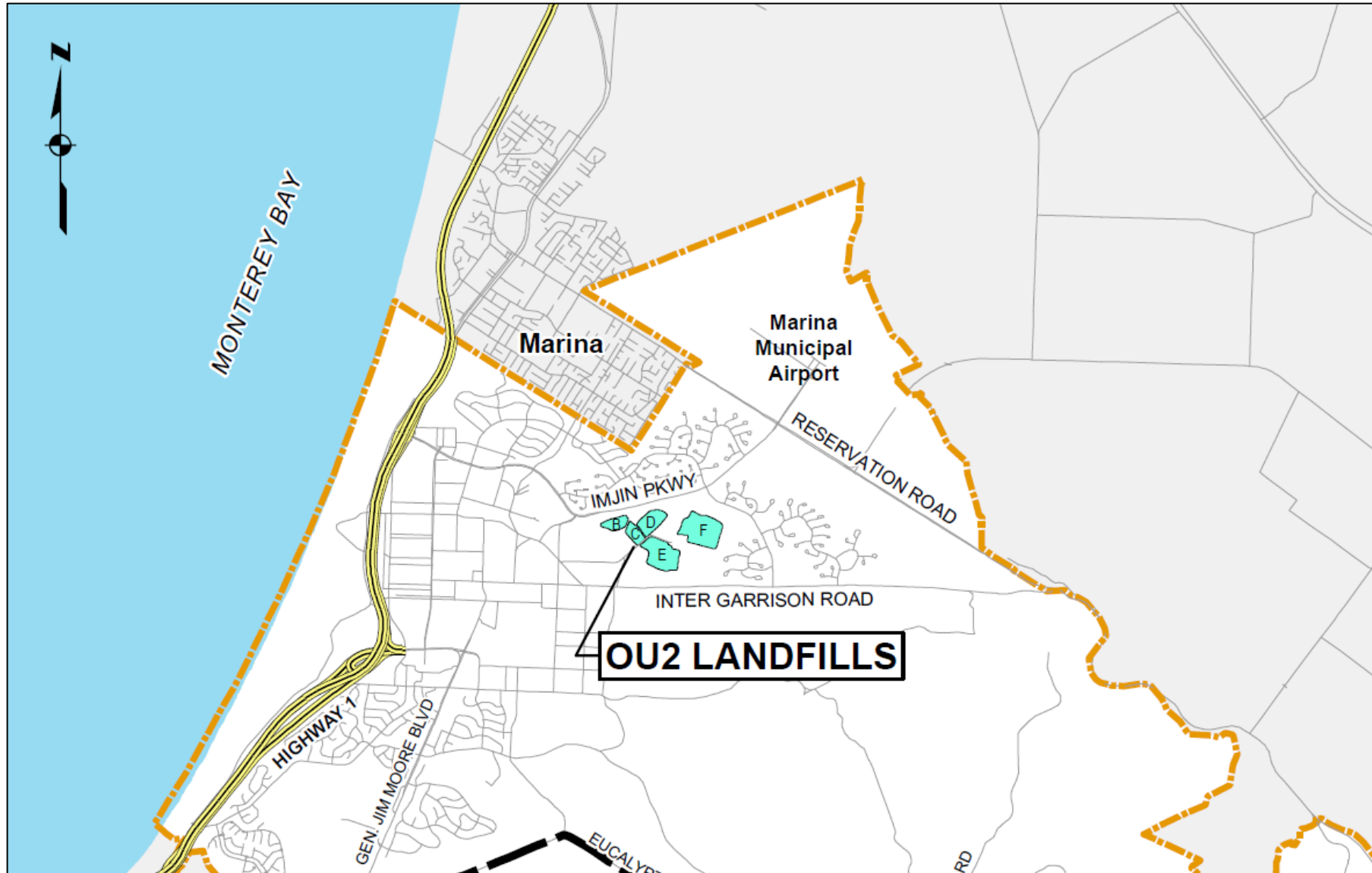
Eric Schmidt

Fort Ord OU2 Landfills

- Used for residential and on-base waste disposal, 1956 to 1987
- Record of Decision 1994
 - Identifies the selected remedy for the Landfills as an engineered cover system
 - Agreement between the Army, U.S. Environmental Protection Agency (USEPA) and California EPA
- Engineered cover constructed in 3 phases
 - 1997 to 1998
 - 2002 to 2003
 - 2013
- Landfill incorporates soils from other Fort Ord remediation sites, placed under the engineered cover

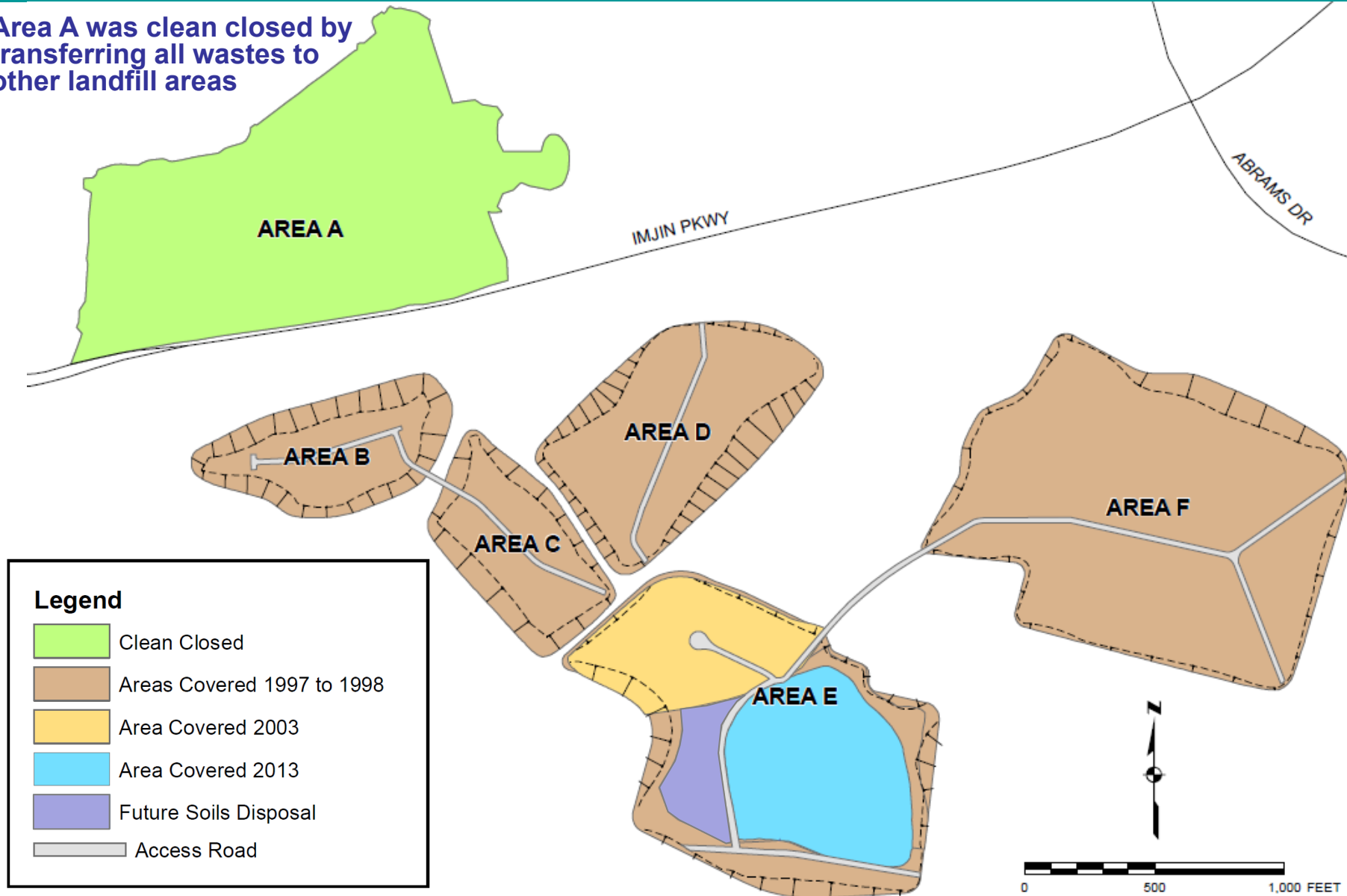


Fort Ord OU2 Landfills Location

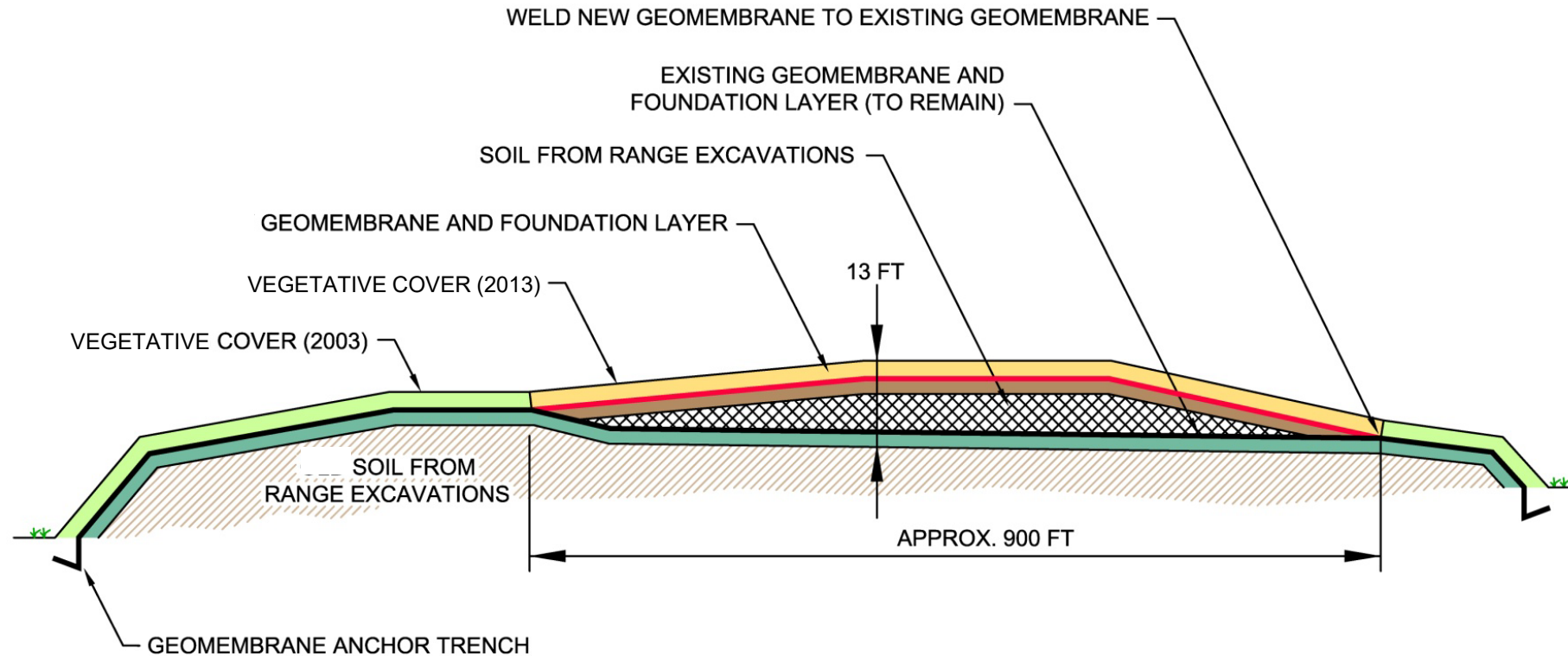


Fort Ord OU2 Landfills Status

Area A was clean closed by transferring all wastes to other landfill areas



Area E Cover System Installed in 2013



- 2013 VEGETATIVE COVER
- 2013 GEOMEMBRANE
- 2013 FOUNDATION LAYER
- 2013 SOIL FROM RANGE EXCAVATIONS

- 2003 VEGETATIVE COVER
- 2003 GEOMEMBRANE
- 2003 FOUNDATION LAYER
- 2003 SOIL FROM RANGE EXCAVATIONS

Area E Cover Construction - 2003



Covering Area E in 2013



Geomembrane
factory inspection



Rolling out
geomembrane



Joining geomembrane
seams



Welding
geomembrane seams



Placing vegetative
cover soil



Hydroseeding
with native seed

Landfills Cover Maintenance



Area F vegetative cover erosion
damage



Area F vegetative cover erosion
repairs

Landfills Cover Maintenance



Perimeter Road Erosion Repairs

Landfills Cover Maintenance



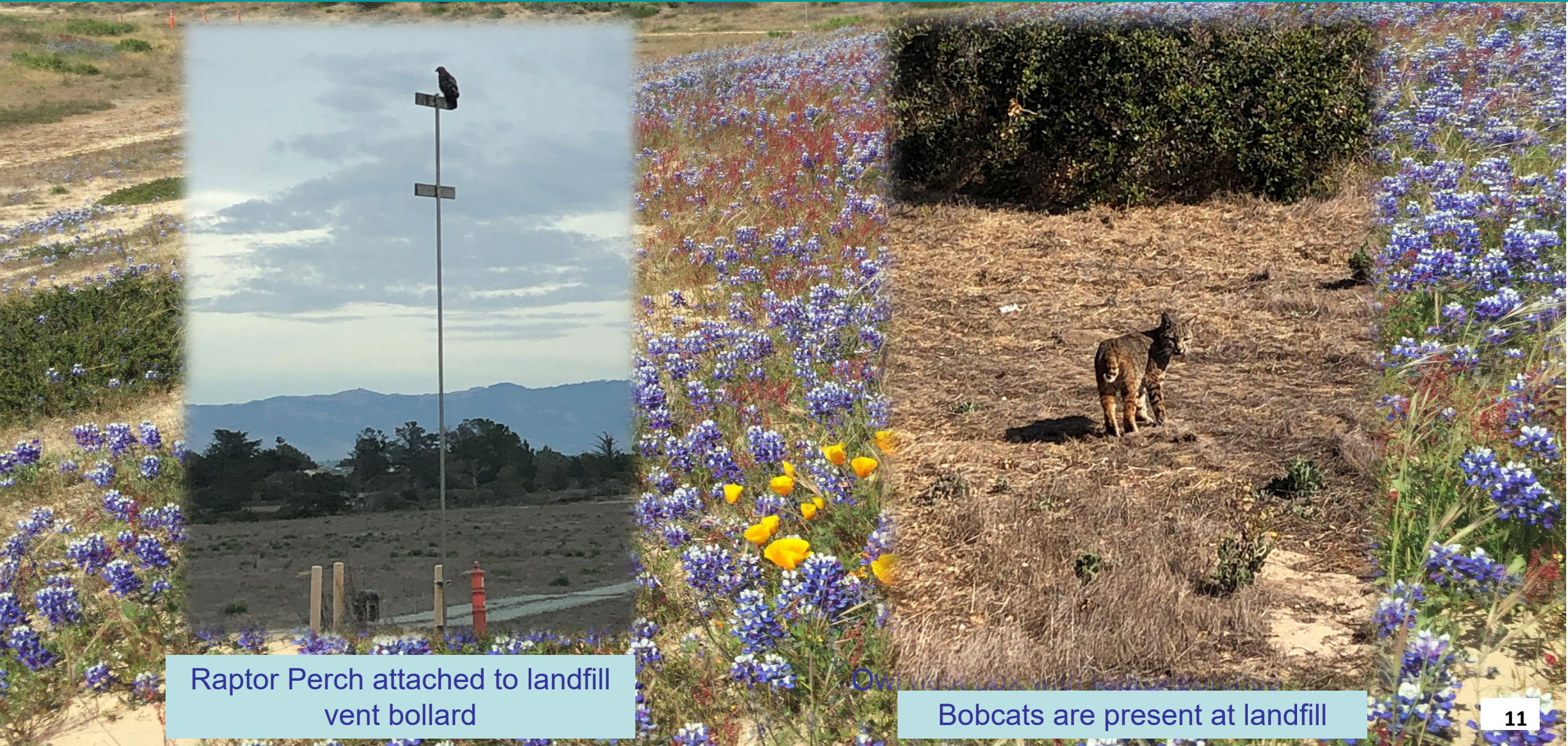
Standard owl nest box installed at
Area D



Owl nest box with raptor perches
installed at Area B



Landfills Cover Maintenance



Raptor Perch attached to landfill vent bollard

Owl visit with raptor perch

Bobcats are present at landfill

Landfills Cover Maintenance



Landfills Cover Maintenance



Raptor Perch Locations

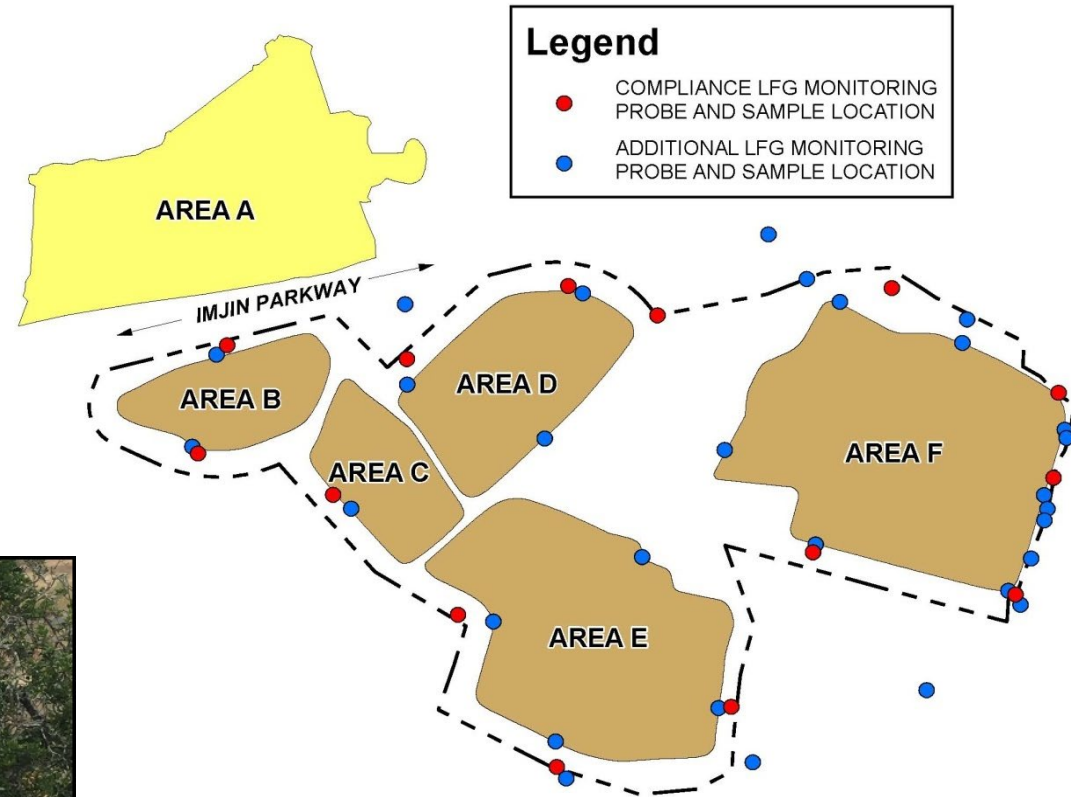
Landfill Gas



- Produced in all landfills when organic waste decomposes
- Gases are mostly methane and carbon dioxide
- Trace amounts of other organic gases are produced (similar to compounds that have been found in groundwater beneath the landfill)
- Landfill gas is extracted and treated

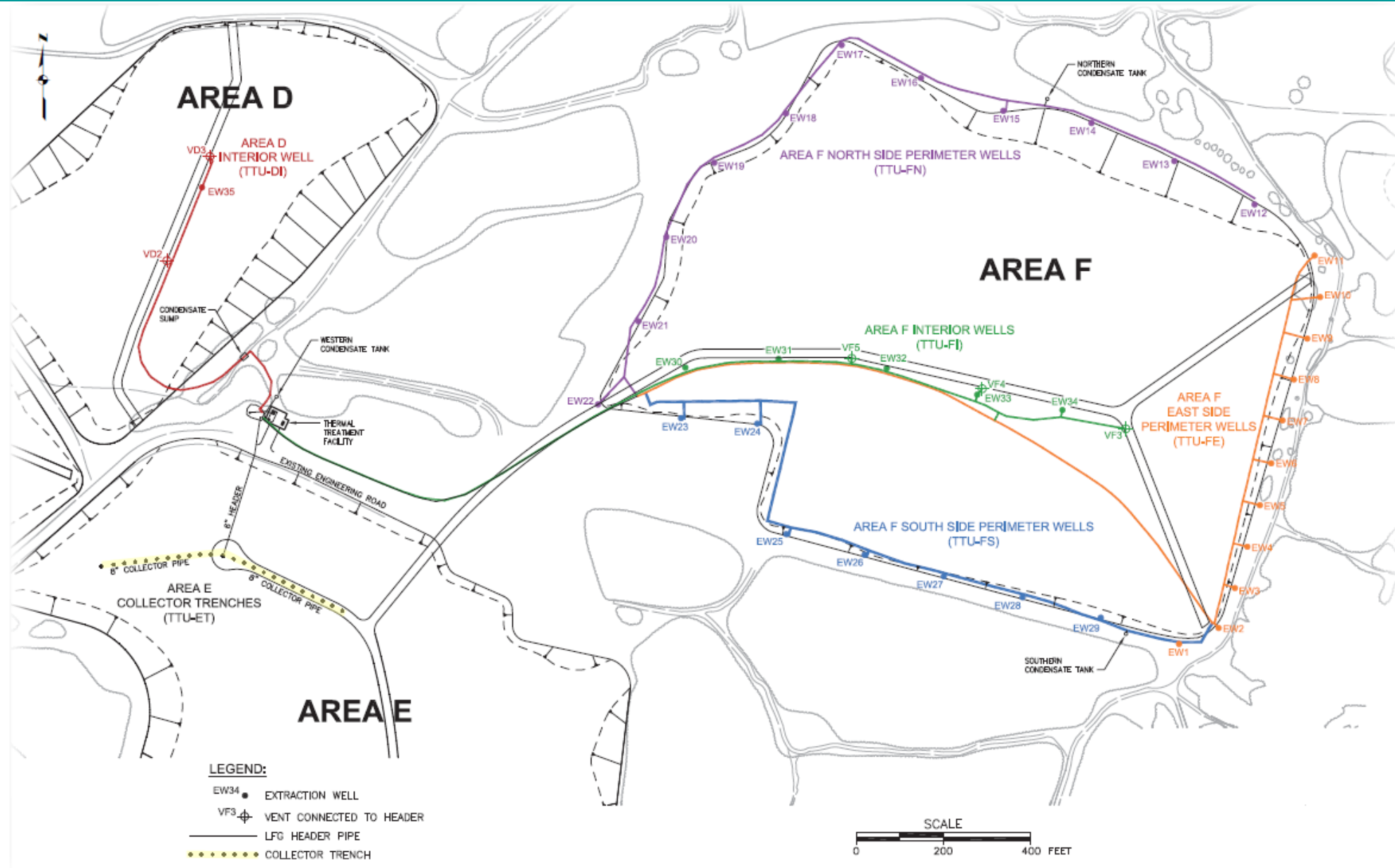
Landfill Gas Monitoring Locations

- Monitoring is required by California regulation to show that methane does not exceed 5% at landfill perimeter
- Monitoring of probes and ambient air has demonstrated no impact to surrounding community

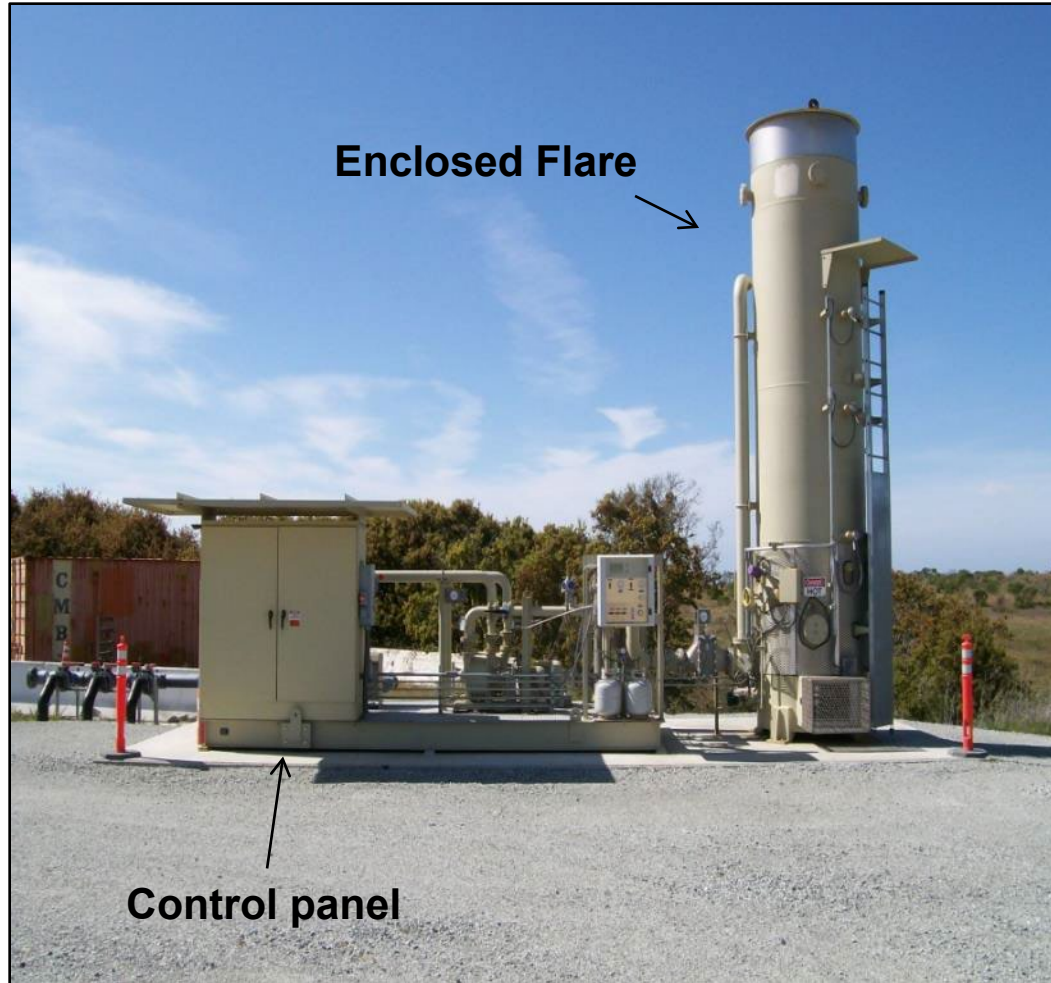


- Methane is monitored below ground with “perimeter probes” installed all around the landfill property boundary

Landfill Gas Extraction and Treatment

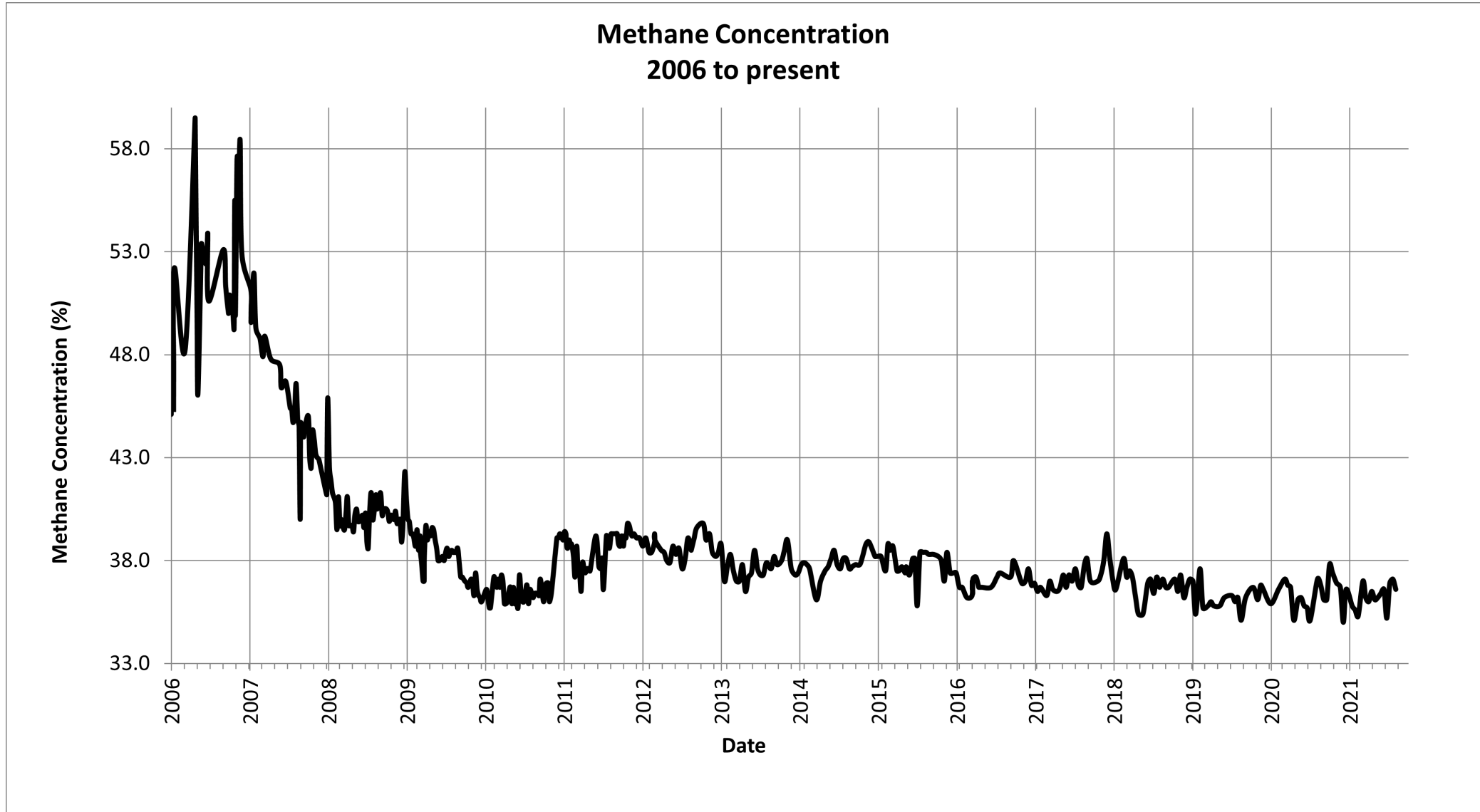


Landfill Gas Thermal Treatment Unit

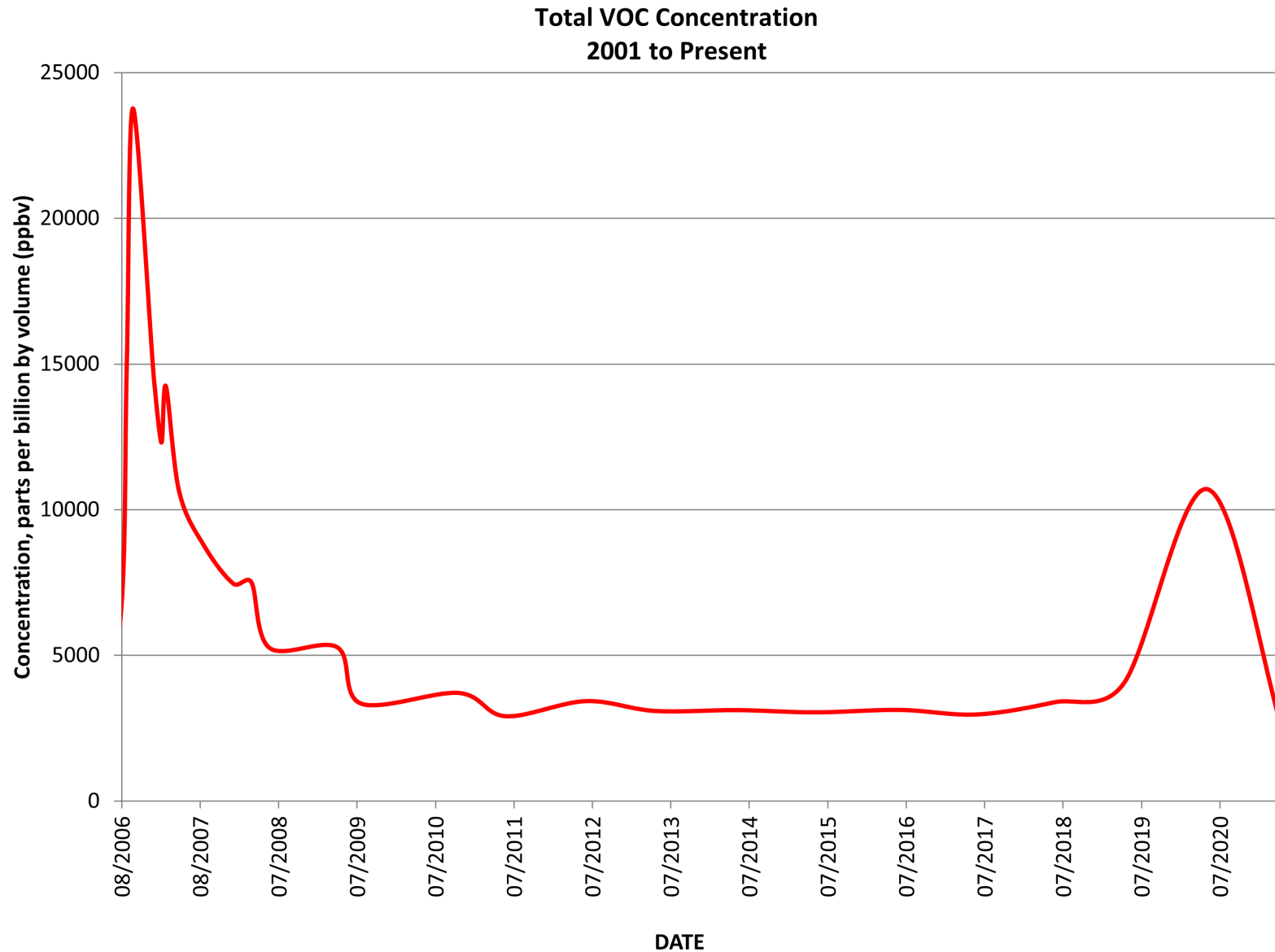


- Industry standard design
- High temperature destruction of organic compounds including methane
- Operating since August 2006
- Destroys volatile organic compounds (VOCs) that otherwise could potentially reach soil, groundwater or the atmosphere

Landfill Gas Thermal Treatment Unit



Landfill Gas Thermal Treatment Unit



For Additional Information

Visit the Army's website at:
www.fortordcleanup.com

Visit the Fort Ord Administrative Record at:
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