

Former Fort Ord, Monterey County, California

Fort Ord Operable Unit 2 Landfills

Technical Review Committee Meeting, February 11, 2021

Derek S. Lieberman, P.E.



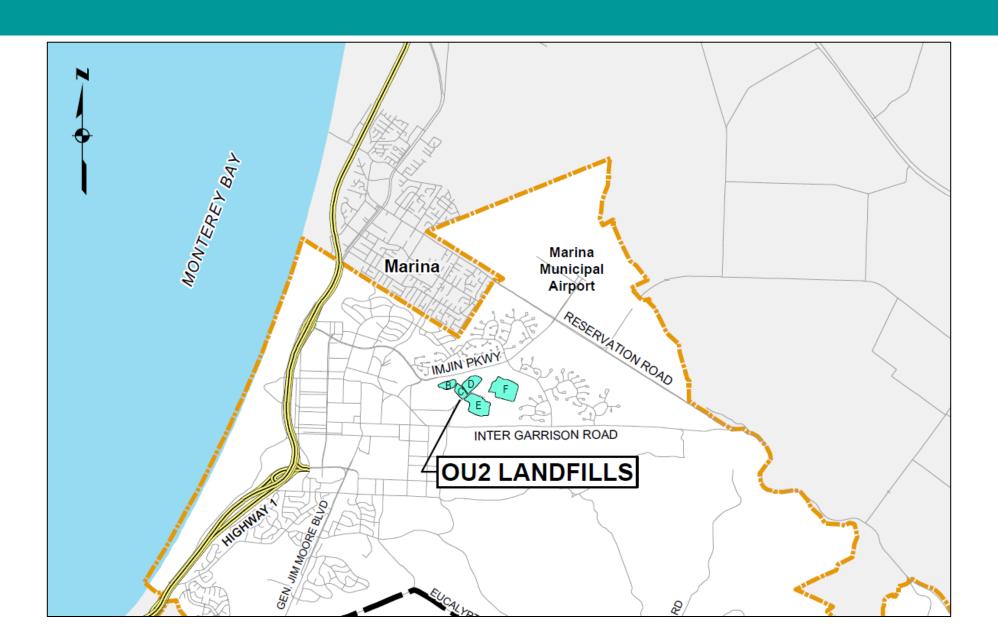
Eric Schmidt

Fort Ord OU2 Landfills

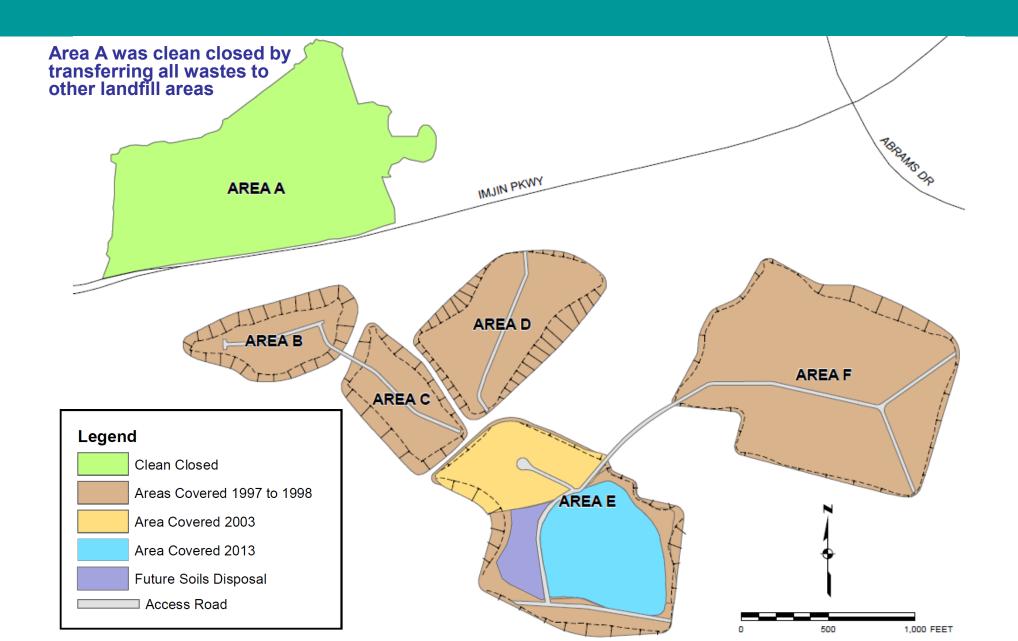


- Used for residential and on-base waste disposal, 1956 to 1987
- Record of Decision 1994
 - Identifies the selected remedy for the Landfills as an engineered cover system
 - Agreement between the Army, U.S. Environmental Protection Agency (USEPA) and California EPA
- Engineered cover constructed in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

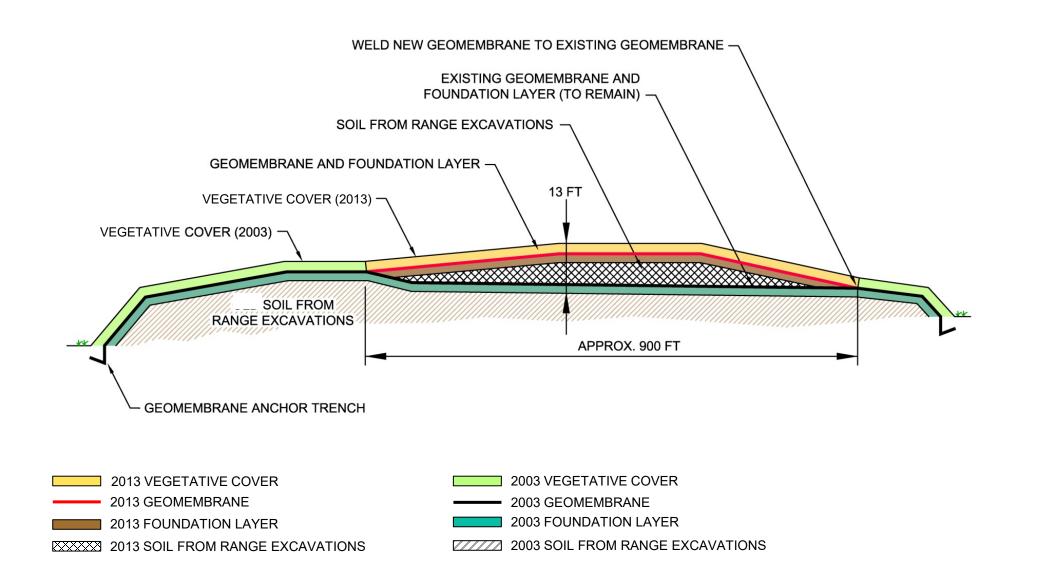
Fort Ord OU2 Landfills Location



Fort Ord OU2 Landfills Status



Area E Cover System Installed in 2013



Area E Cover Construction - 2003



Covering Area E in 2013



Geomembrane factory inspection



Welding geomembrane seams



Rolling out geomembrane



Placing vegetative cover soil



Joining geomembrane seams



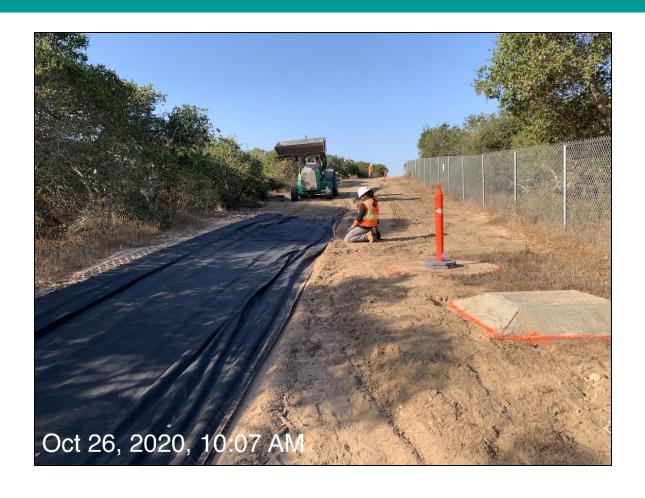
Hydroseeding with native seed

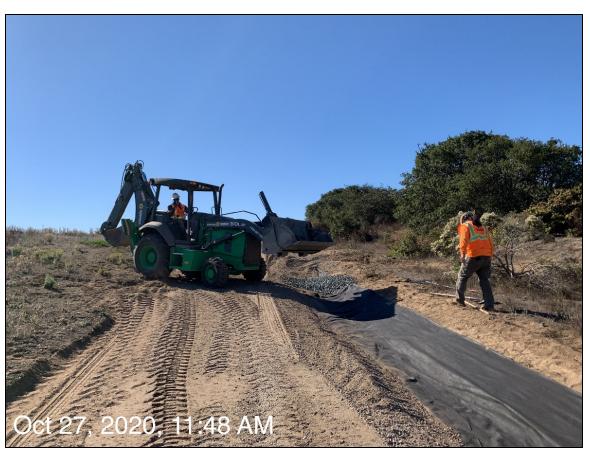


Area F vegetative cover erosion damage



Area F vegetative cover erosion repairs





Perimeter Road Erosion Repairs





Standard owl nest box installed at Area D





Owl nest box with raptor perches installed at Area B







Raptor Perch Locations

Landfill Gas

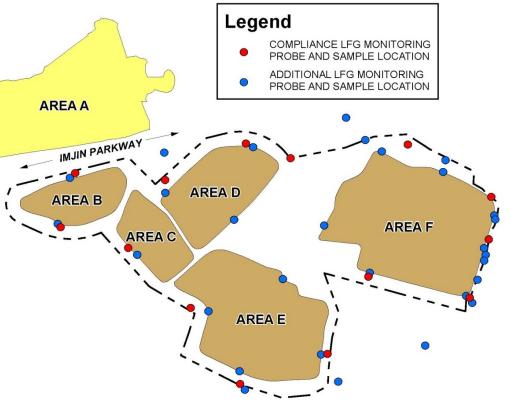


- Produced in all landfills when organic waste decomposes
- Gases are mostly methane and carbon dioxide
- Trace amounts of other organic gases are produced (similar to compounds that have been found in groundwater beneath the landfill)
- Landfill gas is extracted and treated

Landfill Gas Monitoring Locations

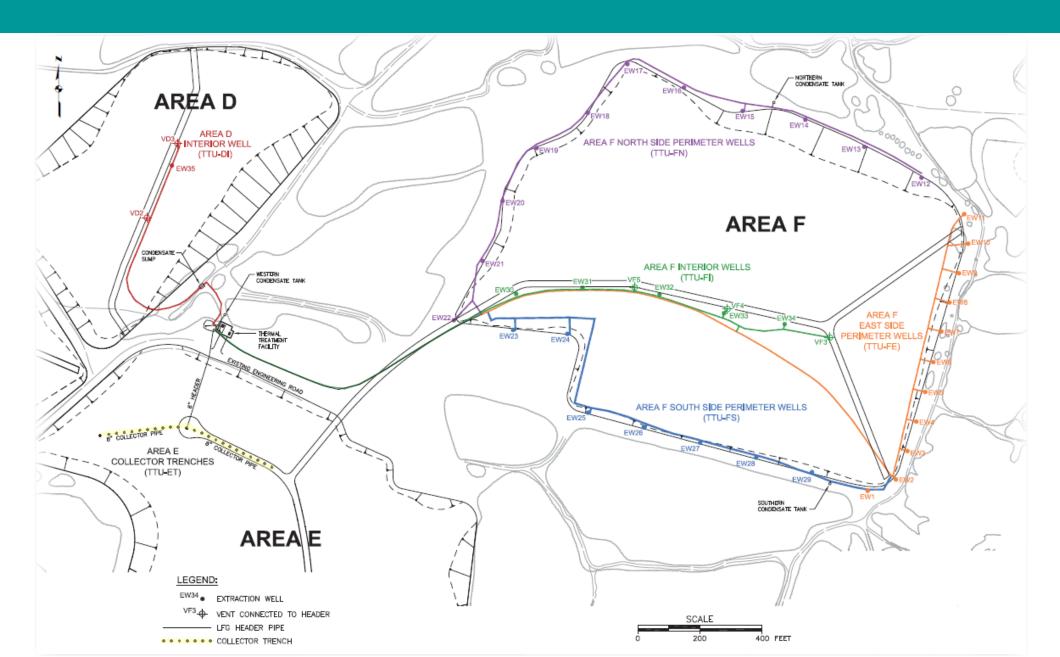
- Monitoring is required by California regulation to show that methane does not exceed 5% at landfill perimeter
- Monitoring of probes and ambient air has demonstrated no impact to surrounding community





 Methane is monitored below ground with "perimeter probes" installed all around the landfill property boundary

Landfill Gas Extraction and Treatment

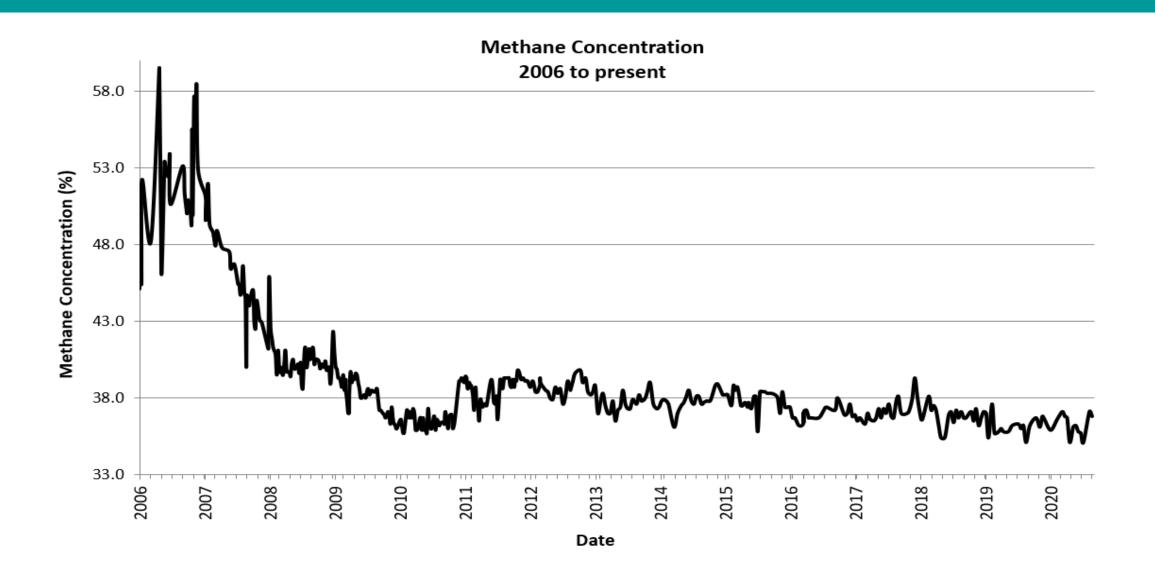


Landfill Gas Thermal Treatment Unit

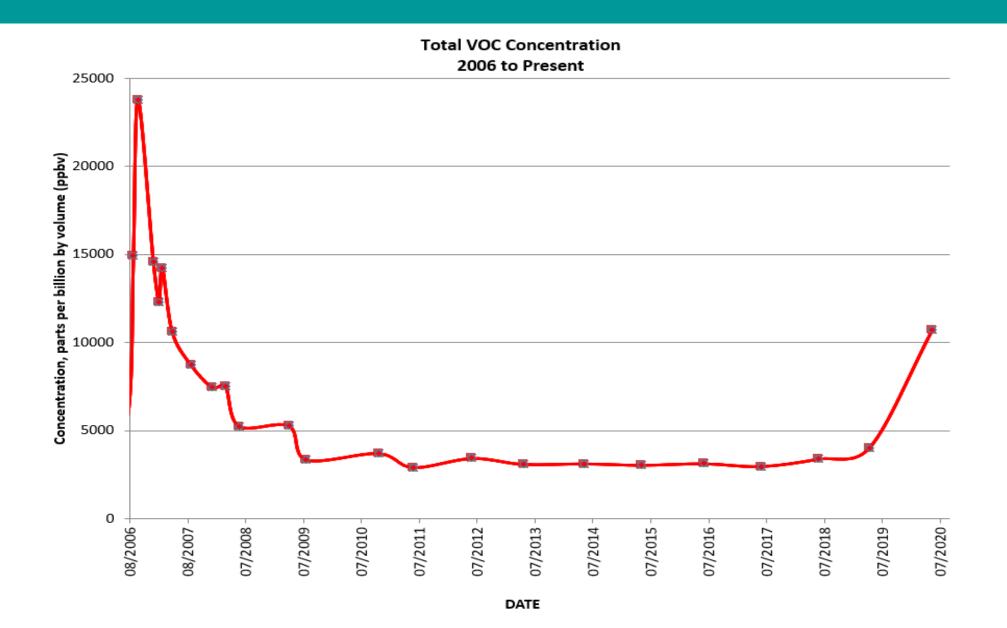


- Industry standard design
- High temperature destruction of organic compounds including methane
- Operating since April 2006
- Destroys volatile organic compounds (VOCs) that otherwise could potentially reach soil, groundwater or the atmosphere

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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