

# Landfill Project Case Study: Ensenada Landfill Gas Project, Baja California.

**Workshop on Mexico Carbon Offset Projects**

Alfonso Martinez Munoz,

R&D Promotora Ambiental S.A.B. de C.V.

Mexico City, August 4, 2010



---

✓ MSW collection concessions	23
✓ Landfills Operations	22
✓ Cities Served	42
✓ Population served	6,380,180
✓ Industrial and commercial customers	30,818
✓ Collection Trucks	1,701
✓ Total employees	5,283



# Operation Stations

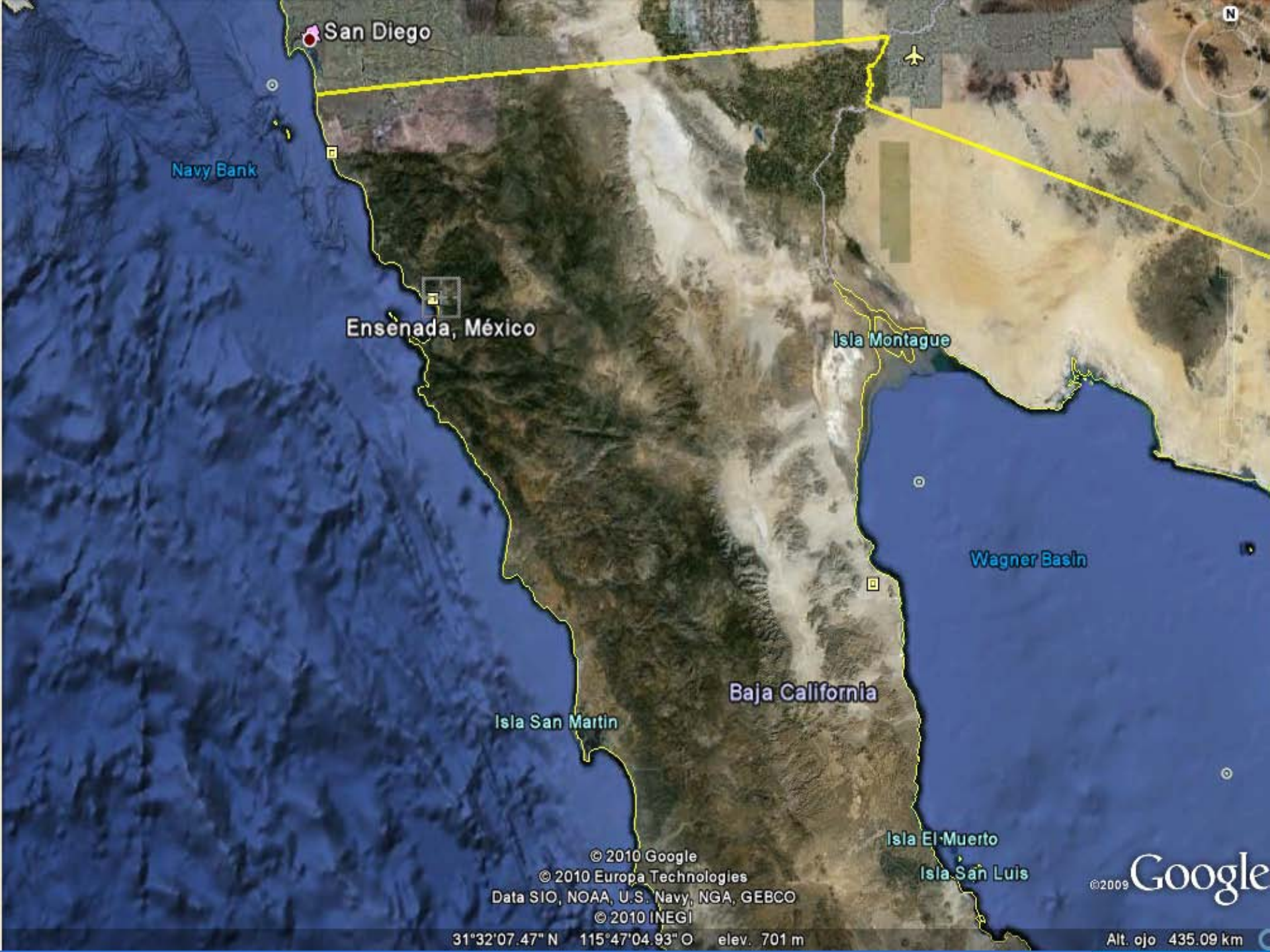




# Ensenada Landfill Gas Project







San Diego

Navy Bank

Ensenada, México

Isla Montague

Wagner Basin

Baja California

Isla San Martin

Isla El Muerto

Isla San Luis

© 2010 Google  
© 2010 Europa Technologies  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
© 2010 INEGI

©2009 Google

31°32'07.47" N 115°47'04.93" O elev. 701 m

Alt. ojo 435.09 km









## Landfill Data

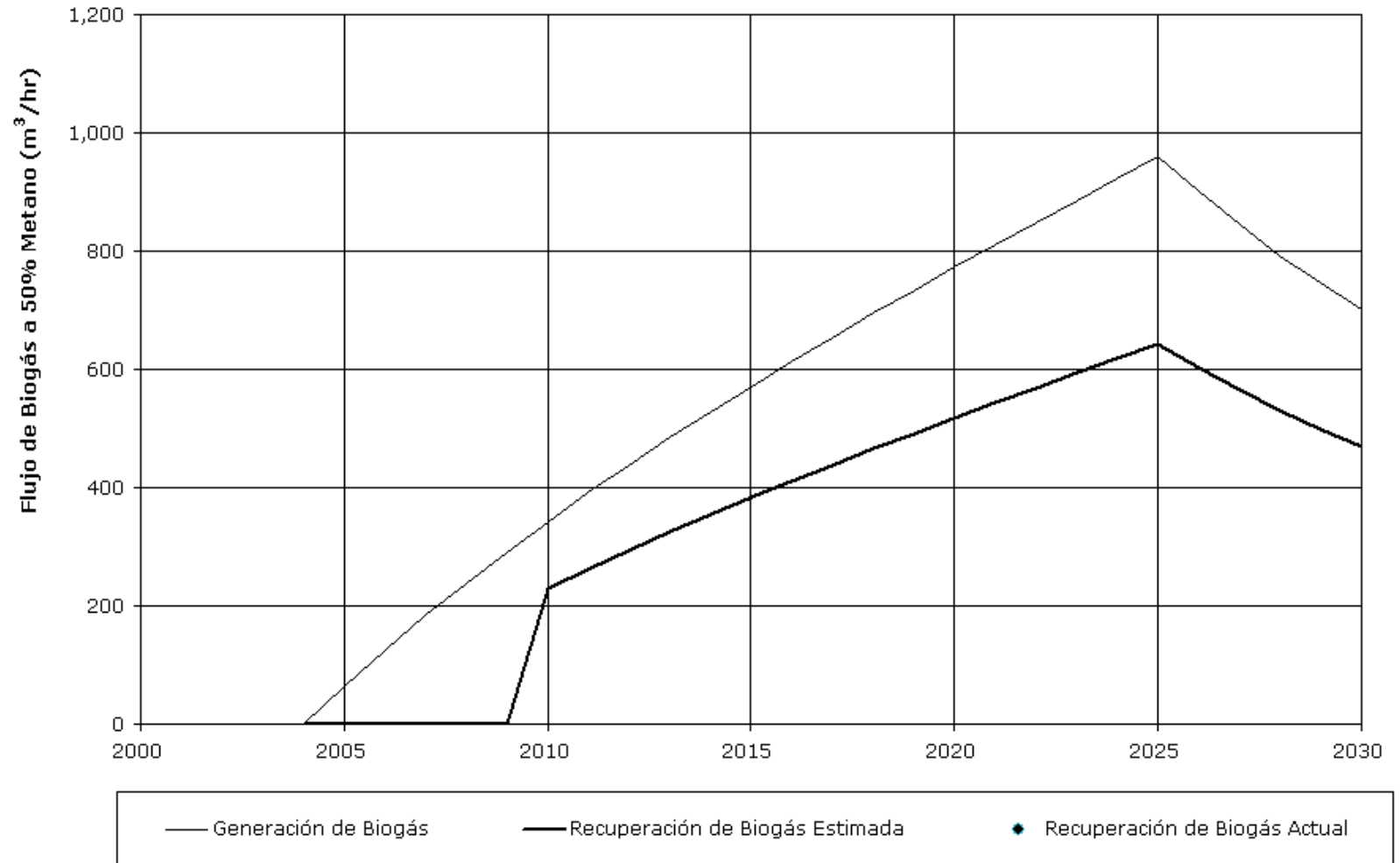
---

Start Date:	August 2004
Expected Closure Date:	August 2024
Daily Waste Disposal:	450 tonnes
Total Waste Capacity:	2.5 millions tonnes
Total Waste in Place:	745,000 tonnes
Total Property Area:	35 hectares
Total Disposal Area:	20 hectares
Current Waste Footprint:	5.6 hectares





## Proyecciones de Generación y Recuperación de Biogás Ojos Negros, Ensenada, Baja California North





## Estimated CO<sub>2</sub>eq Reductions (2011-2021)

(tonnes CH <sub>4</sub> /yr)	(tonnes CO <sub>2</sub> eq/yr)
921	19,348
1,017	21,364
1,110	23,319
1,201	25,220
1,289	27,073
1,375	28,885
1,460	30,659
1,543	32,399
1,624	34,112
1,705	35,801



**Dr. Alfonso Martínez**  
**R&D Promotora Ambiental** [www.gen.tv](http://www.gen.tv)  
**Email: [amartinezmu@gen.tv](mailto:amartinezmu@gen.tv)**

