
QSA Environmental Mitigation Program

Jessica Humes
Environmental Project Manager, Sr.



Environmental Mitigation Program

- *Implementation of environmental mitigation measures related to the Quantification Settlement Agreement Water Transfer and IID's Water Department Operation and Maintenance Activities*
- *Environmental Documentation*
 - *Transfer Project Final EIR/EIS*
 - *Draft Habitat Conservation Plan*
 - *In-Valley Biological Opinion*
 - *In-Valley CESA Permit*



Burrowing Owl Mitigation

- *Population Estimates conducted in 2007-2008 and 2011-2012*
- *Population Estimate being conducted this year*
- *Preconstruction Surveys*
- *Pre O&M surveys*



Desert Pupfish Mitigation

- *Pupfish Refugium – constructed in 2010*
- *Population monitoring within IID drains*
- *Drain connectivity*



Managed Marsh Complex

- *950 acres of emergent, riparian and shrub-scrub bosque habitat to be created for operation and maintenance to IID's canal and drains*
- *Phase 1 built in 2009*
- *Phase 2 built in 2014*
- *Phase 3 in final design*



Managed Marsh Complex



IID

A century of service.

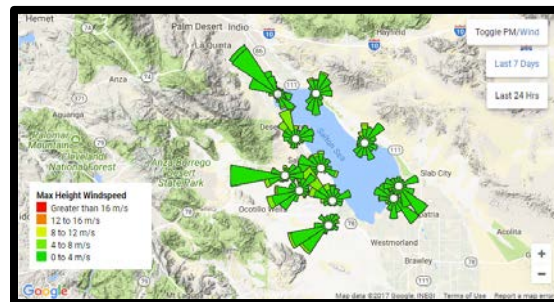
www.iid.com

IID's Salton Sea Air Quality Mitigation Program



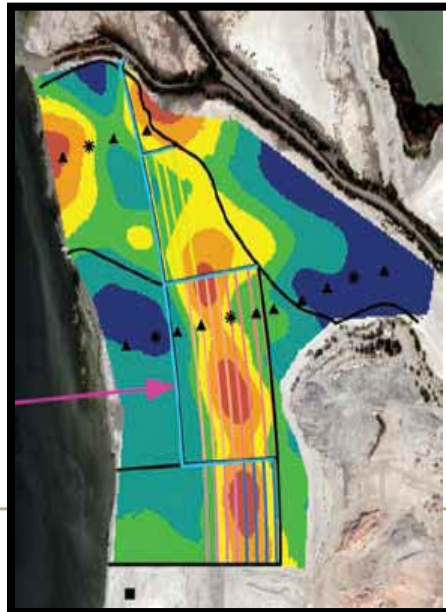
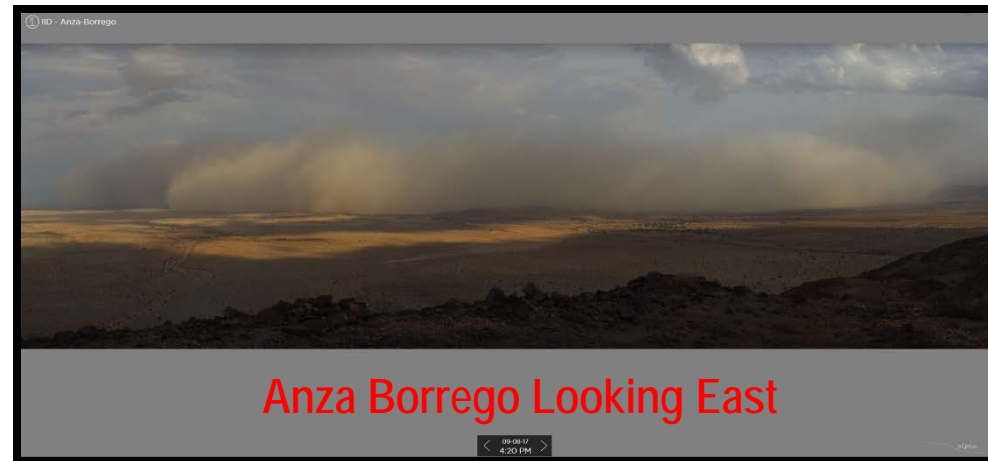
Annual Emissions Monitoring

- Salton Sea Air Quality Monitoring Network
- Quantify dust emissions from exposed playa and adjacent desert areas
 - *PISWERL*
 - *Soil coring and mapping of Salton Sea Playa*
 - *Mobile MET stations and cameras*



Annual Dust Control Planning

- Emissions monitoring results
- Plot and field study findings
- Playa conditions and dust control measure suitability
- Land use considerations



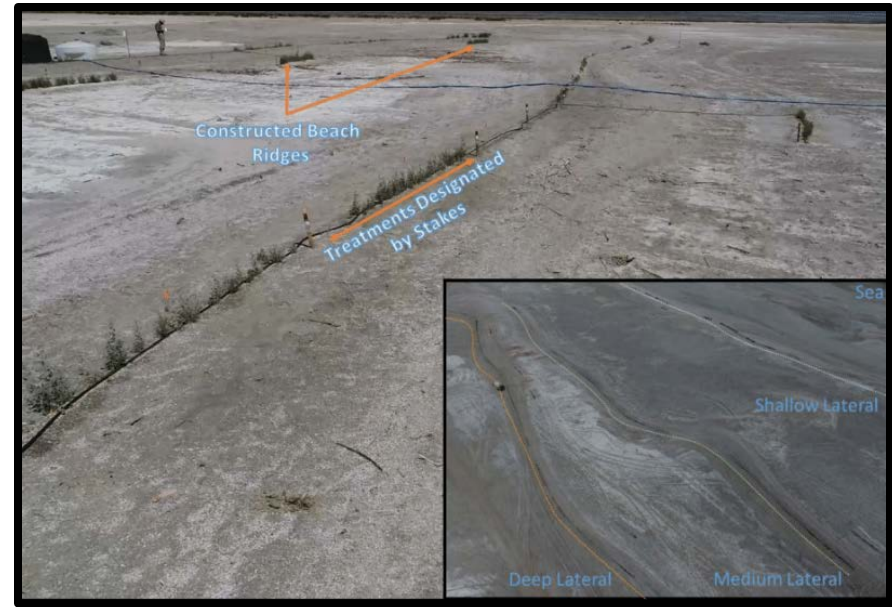
Surface Roughening

- Random roughness to provide quick, waterless, and effective dust control
- Suitable soils: high silt and clay
- Creates a better area for vegetation to establish naturally



Vegetation Enhancement

- Modifies air flow and traps soil particles
- Engineer beach ridges or seed areas with surface roughening
- Promote continuous cover of native species



Salt Bush, Iodine Bush, Bush Seepweed and Fourwing Salt Bush

Websites

IID Website	www.iid.com
IID Environmental Mitigation	https://www.iid.com/water/library/qa-water-transfer/mitigation-implementation
IID Salton Sea Air Quality Mitigation Program	www.iid.com/airquality
QSA Joint Powers Authority	www.qsajpa.org

