





Kuwait Environmental Remediation Program

RemTech 2020









Outline

- KERP Background
- UNCC Claims
- Contaminated Features
- UXO Site Clearance
- KERP Projects

EcoNomics



KERP – KOC Claim Awards under UNCC Decision 258

Claim No. 5000259

(Coastal & Marine Resources)

Claim No.5000450

(Remediation of areas in and around wellhead pits and Tarcrete)

Claim No. 5000454

(Remediation of areas damaged by oil lakes, oil-contaminated piles, oil trenches & oil spills)



KERP – Contaminated Features

- > The main KERP features:
- ➤ Wet oil lakes
- ➤ Dry oil lakes
- ➤ Oil contaminated piles and
- > Tarcrete



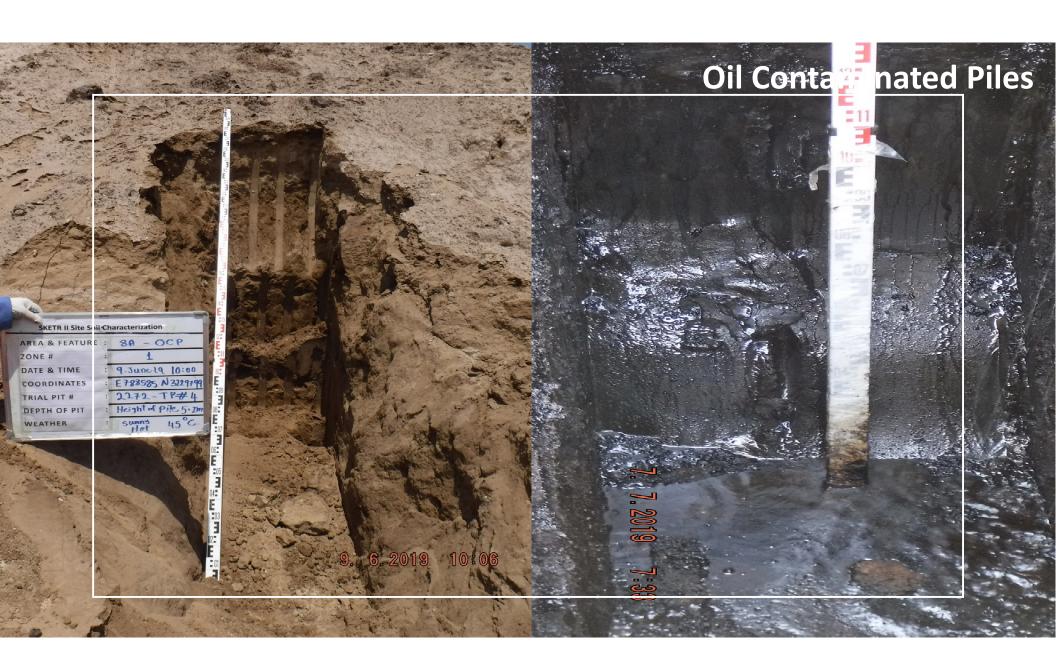


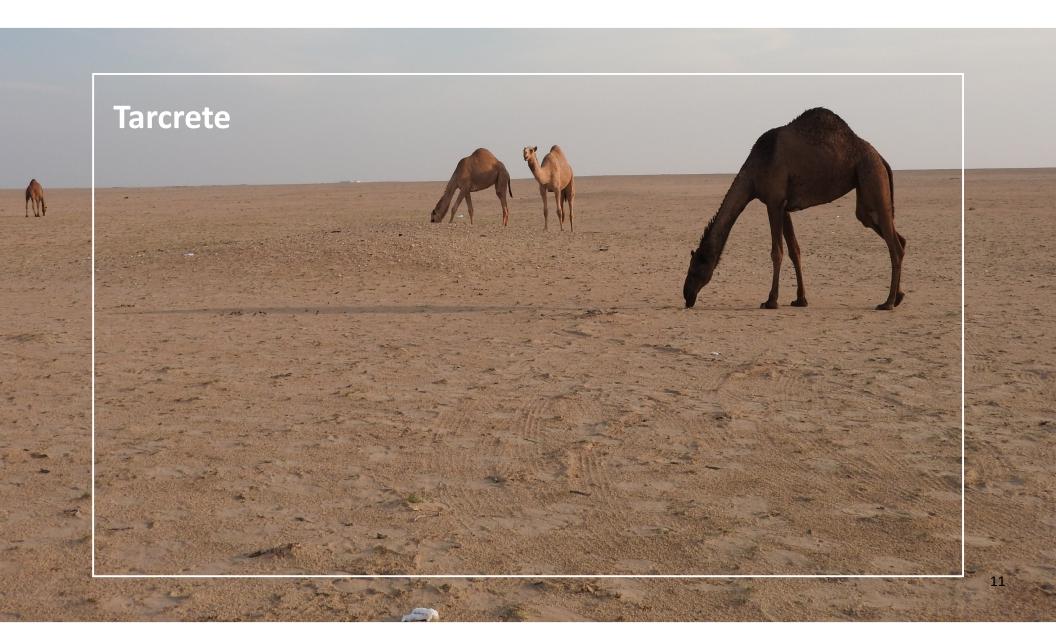


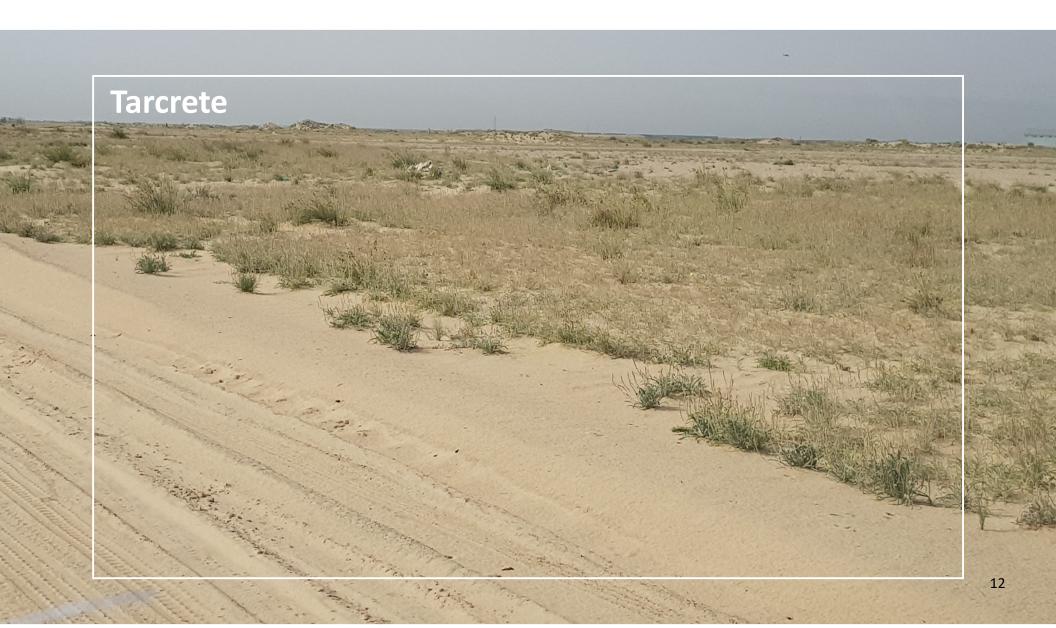












KERP – UXO Site Clearance





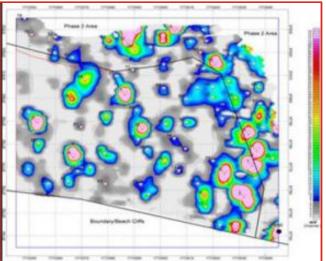


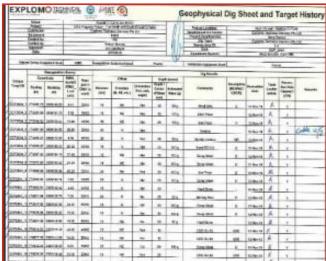


KERP – UXO Survey & Clearance Digital Geophysical Mapping









EM 61 Towed array

DGM Map

Geophysical Dig Sheets

KERP – UXO Survey & Clearance









Mechanical Screening Buckets



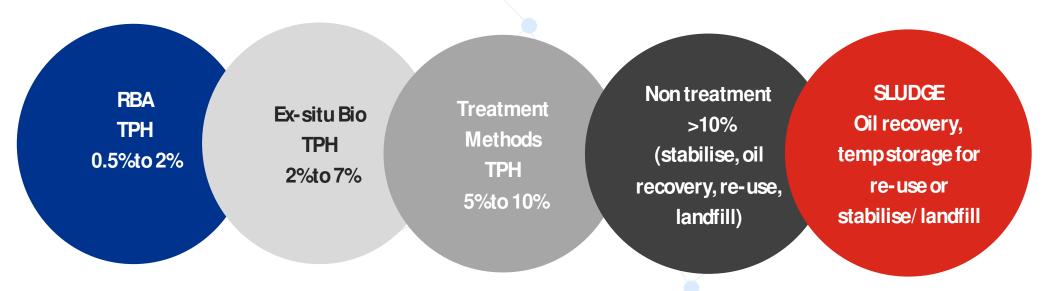
Battle Area Clearance





KERP – Strategy

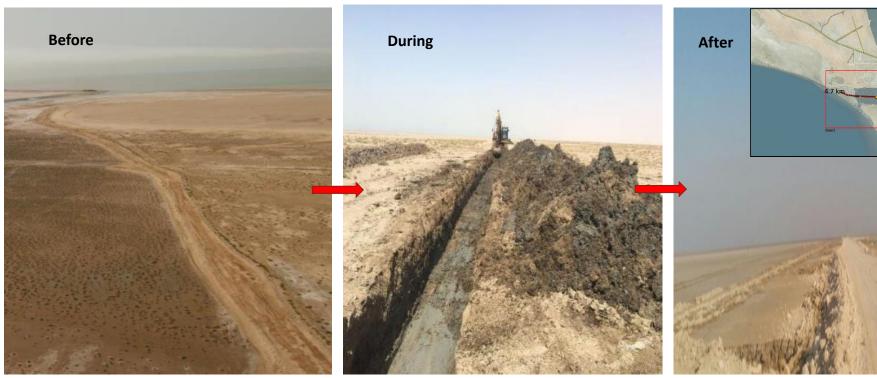
Total Remediation Solution (TRS)



KERP – Achievements: Coastal Trench

- Released Land = 8,571 m²
- Volume compacted to landfill = 5,981 m³









Advisian



KERP – Achievements: Well head pits

• 163 Well-Head Pits (65 in North Kuwait & 98 in South East Kuwait)

• Released Land = 74,588 m²

• Volume compacted to landfill = 179,112 m³







Advisian

KERP – Achievements: Dry Oil Lakes

- Released Land = 4,304,338 m²
- Volume compacted to landfill = 487,012 m³



Advisian

KERP – Achievements: Wet Oil Lakes

• Released Land = 1,190,667 m²

• Volume compacted to landfill = 814,981 m³





- KERP Achievements: Oil Contaminated Piles
 - Released Land = 329,563 m²
 - Volume compacted to landfill = 192,903 m³

