

PROJECT: OIL BASE CUTTINGS TREATMENT AND REMEDIATION

CLIENT: COSTA BOLIVAR

LOCACION: BACHAQUERO, VENEZUELA

VOLUME: 3100 M3 (7441 TM)

DATE: 1999

CONTRACTOR: ECOAMBIENTE C.A (Maracaibo)



Fig. 1 . Treatment plant on site



Fig. 2. Auger tanks

TREATMENT PROCEDURE

- ▶ Mix **SuperAll**/water (1:8) with oil base cutting in double Auger tank
- ▶ Homogenize oil base cuttings with fresh dirt in double Auger tank
- ▶ Remediate treated cuttings in adjoining landfarm

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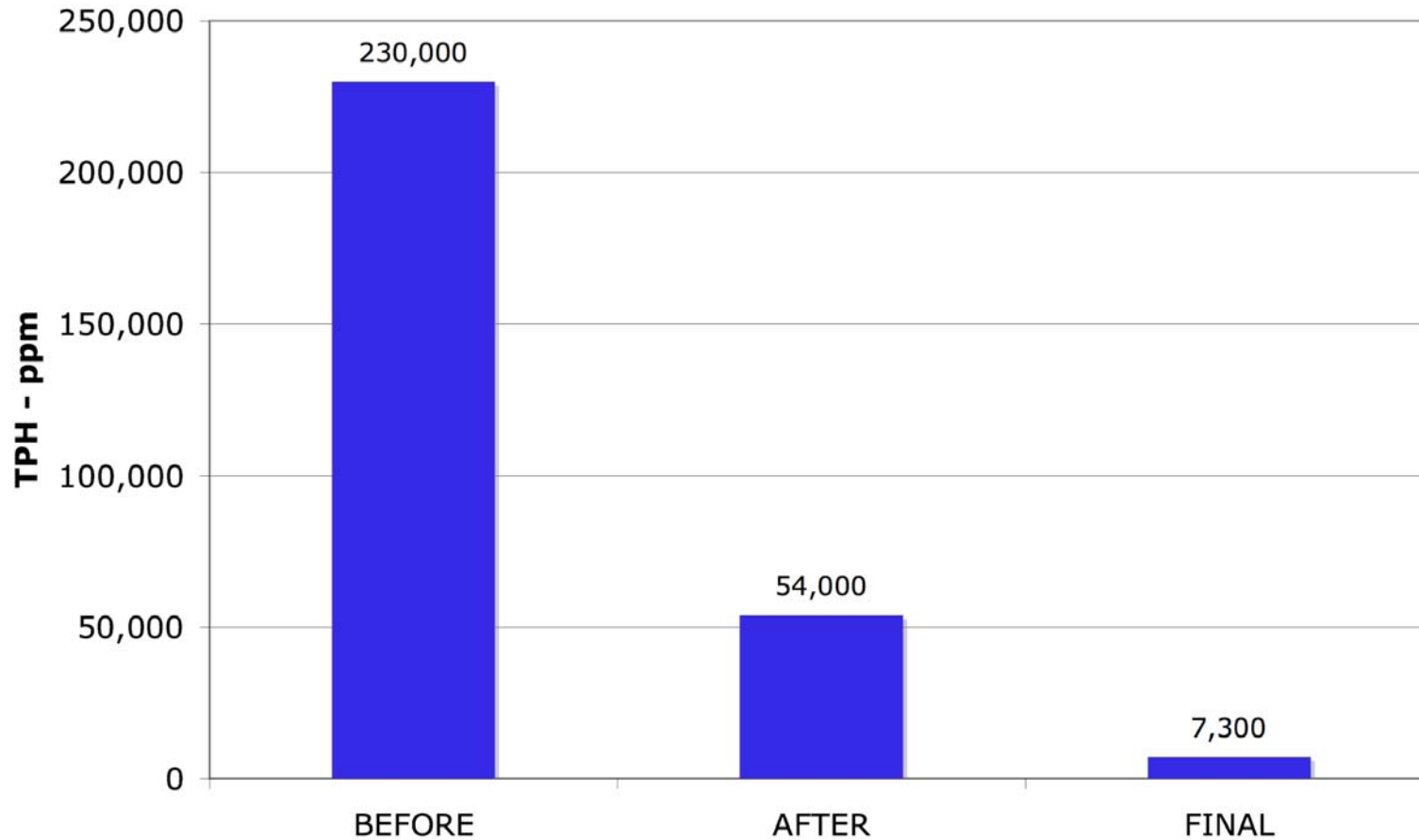
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CONCLUSIONS

- ▶ Initial treatment with **SuperAll** and fresh dirt lowered TPH 76%
- ▶ 21.40/55 gal. drums of **SuperAll** was used for the project (1.44 lts/ of **SuperAll** /m³ of oil base cuttings)
- ▶ 2737 m³ of fresh dirt was mixed with the oil base cuttings (1:1.13 ratio)
- ▶ Treated cuttings were further remediated in a landfarm lowering the TPH to 7,300 ppm (below Venezuelan norms)