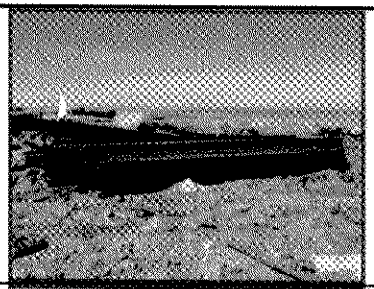
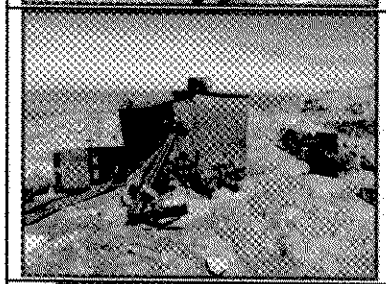
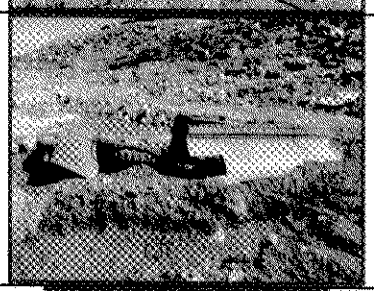
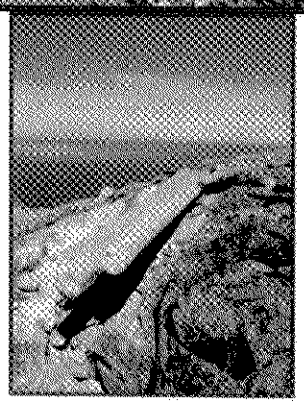
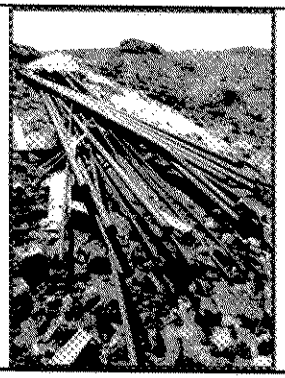
LANDFILL AREA – EAST SIDE

Heaps of metal and wood debris

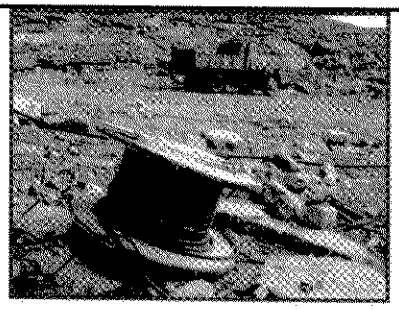

Overall dimensions

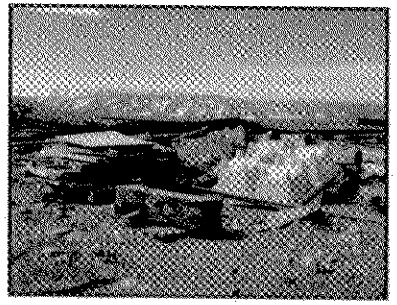
1. $5{,}30 \times 3{,}50 \times 0{,}4 = 7{,}5\ m^3$
2. $24 \times 9{,}5 \times 1{,}5 = 350\ m^3$
3. $3{,}3 \times 2 \times 0{,}5 = 3{,}5\ m^3$
4. $2\ m^3$
5. 7 poles $\times$ 14 $\times$ $\pi 0{,}2^2/4 = 3\ m^3$
6. $8{,}3 \times 1 \times 0{,}2 = 1{,}6\ m^3$
7. $\pi 2^2/4 \times 1 = 3\ m^3$

Volume of the non-hazardous waste: ≈ 60 m^3

LANDFILL AREA – SOUTH SIDE

About 30 cut poles Wood heaps, metal pipes, metal debris, metal and plastic drums, old trucks, POL tank dismantled



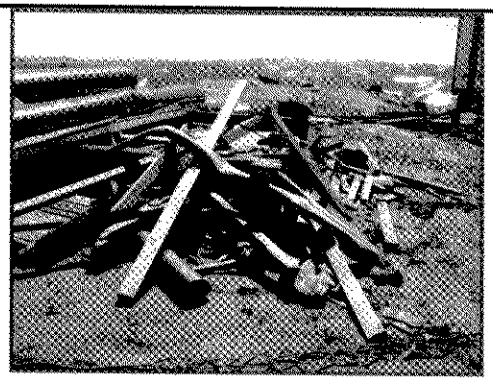
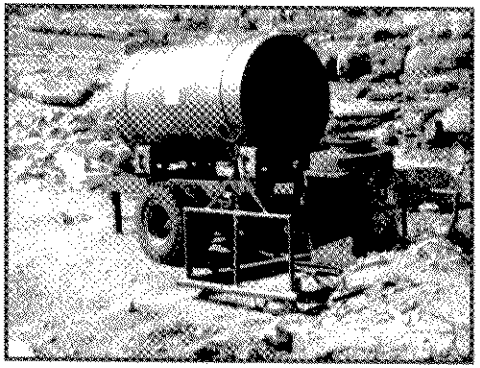
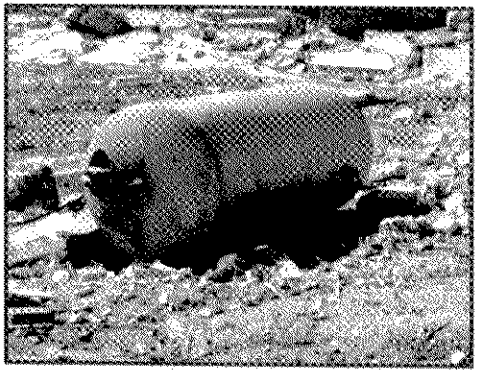


Overall dimensions

1. 30 poles × 3,5 × $\pi 0,2^2/4$ = 3,5 m^3
2. 2 trucks: 2 × 6,5 × 4 × 3 = 160 m^3
3. 5 × 1,5 × 0,5 = 4 m^3
4. 1,5 × 1,5 × 1,5 = 3,5 m^3
5. 10 × 3 × 0,5 = 15 m^3
6. 7 × 1,5 × 0,5 = 5 m^3
7. 13 plastic drums
8. 14 metal drums $\pi 0,6^2/4$ × 1 = 0,3 m^3 and about 10 % when shredded: 0,03 m^3; thus 0,5 m^3
9. dismantled tank: 200 m^3
10. 1,5 × 1,5 × 1,5 = 3,5 m^3
11.

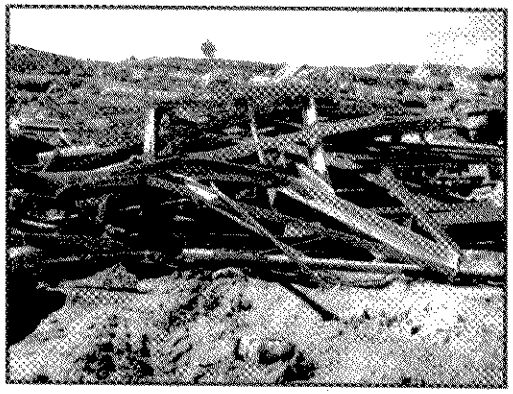
Volume of the non-hazardous waste: ≈ 190 m^3 not compacted

LANDFILL AREA – WEST SIDE

Wood, membrane, tank, truck	  	Overall dimensions 1. $6 \times 6 \times 0,3 = 11\ m^3$ 2. trailer: $12 \times 2,5 \times 4 = 120\ m^3$, when torn down volume $\approx 5\ \% \times 120\ m^3 = 6\ m^3$ 3. tank on wheels: $3,5 \times 2 \times 3 = 21\ m^3$ 4. incinerator: $1 \times 1 \times 1,5 = 1,5\ m^3$ 5. tank: $3 \times 2 \times 1,5 = 9\ m^3$ 6. tank right side of the main road: L = 5 m and D = 2,5 m = $25\ m^3$ **Volume of the non-hazardous waste: ≈ 70 m^3 not compacted**

SOUTH OF S1/S4 VALLEY

Metal and wood debris, metal drums

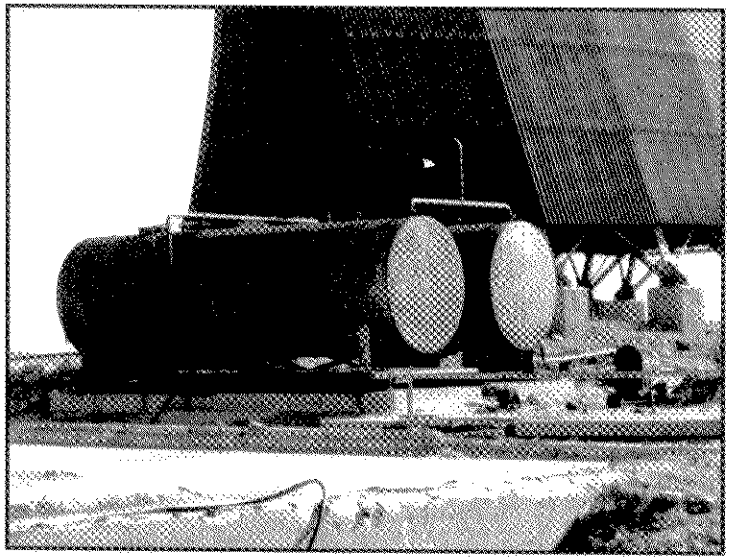
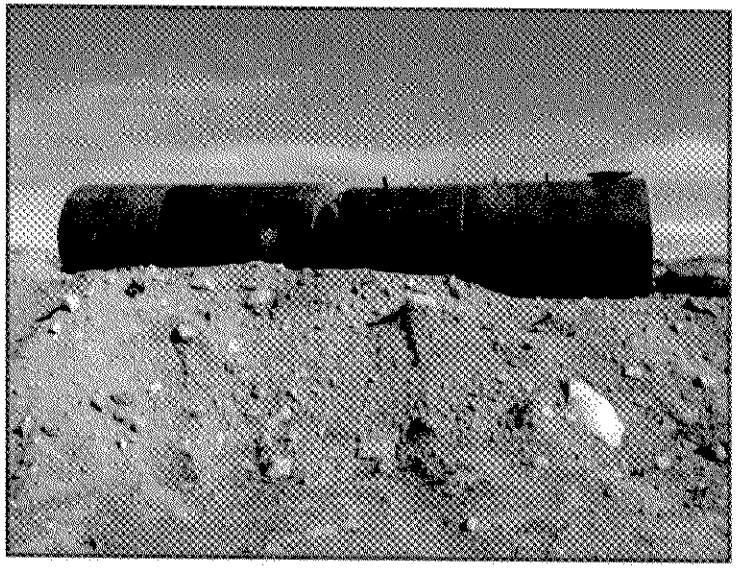


Overall dimensions

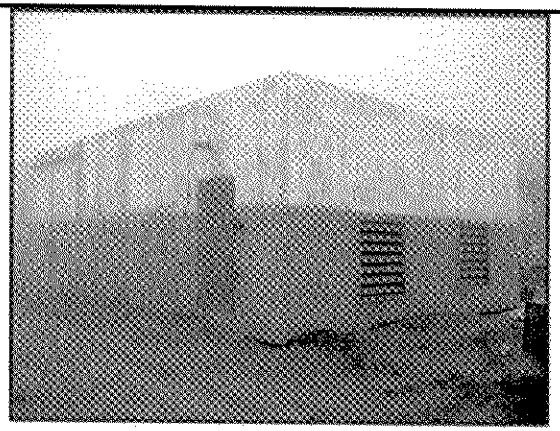
1. $3 \times 6 \times 0,3 = 5,5\ m^3$
2. $4 \times 2,5 \times 1 = 10\ m^3$
3. $7 \times 6 \times 1,5 = 65\ m^3$
4. $3 \times 2 \times 0,3 = 2\ m^3$
5. $1 \times 1 \times 0,5 = 0,5\ m^3$
6. 24 metal drums $\times\ 0,03\ m^3 = 0,7\ m^3$
7. $2 \times 2,5 \times 0,5 = 2,5\ m^3$
8. $20 \times 3 \times 1 = 60\ m^3$
9. $5 \times 2 \times 0,3 = 3\ m^3$
10. $17 \times 3 \times 1 = 50\ m^3$
11. $8 \times 8 \times 1 = 64\ m^3$
12. $6 \times 4 \times 1 = 24\ m^3$
13. $2 \times 2 \times 0,5 = 2\ m^3$
14. $3 \times 5 \times 1 = 15\ m^3$

Volume of the non-hazardous waste: ≈ 300 m^3 not compacted

TOP OF THE S1/S4 VALLEY

5 tanks **+ aluminium debris**	 	2 tanks: L = 5 m and D = 1,8 m 2 tanks: L = 8,3 m and D = 2,70 m 1 tank: L= 3 m and D = 1,5 m Aluminium debris once shredded: volume of a flower pot ≈ 4 m^3 **Volume overall dimensions = 130 m^3**

GENERATOR HOUSE AREA

Generator house		Overall dimensions: $11 \times 6 \times 4 = 264\ m^3$ Dismantled before landfilled Volume after dismantlement = 10 % × 264 $m^3 \approx 30\ m^3$ **Volume of the dismantled generator house ≈ 30 m^3**
Waste behind the generator house (drums, flower pots…)		**A few m^3**

NORTH SLOPE DUMP

1 tank: $3 \times 2,5 \times 1,5 = 11\ m^3$
About 10 m^3 of waste

About 20 m^3 of waste

IN FRONT OF THE GARAGE

About 65 metal drums × 0,03 m^3 = **2 m^3**

PIPES

POL line: 4 to 5 km of 4 inches metal pipe ≈ **35 m^3**
Old water line: 3 km of a 0,3 m metal pipe ≈ **212 m^3**

MISCELLENEOUS DEBRIS

About 200 m^3

TOTAL: About 2 300 m^3, camp not included However due to the distance between the camp, where most of the non hazardous waste are located, and the beach landfill, the hauling's length would represent a lost of time. For this reason a new landfill close to the camp would represent a better solution.

CAMP

Overall dimensions (trailers –except the new one, garage, radom building) ≈ 6 000 m^3

All the buildings will be dismantled before covered by clean soil, volume when dismantled: 10 % × 6 000 = 600 m^3

TOTAL: About 2 900 m^3, camp included