

INDUSTRIAL & POTABLE WATER TREATMENT

CLARIFICATION PROCESS

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INDUSTRIAL WATER TREATMENT

UNITES COMPACTES DEGREMONT UCD®

As PE and Goro Nickel needed to treat their industrial and potable waters, CDE has been asked to provide solutions to treat :

- Camp site potable water production,
- Coal yard water,
- Storm water ,
- Power plant process and industrial areas water.

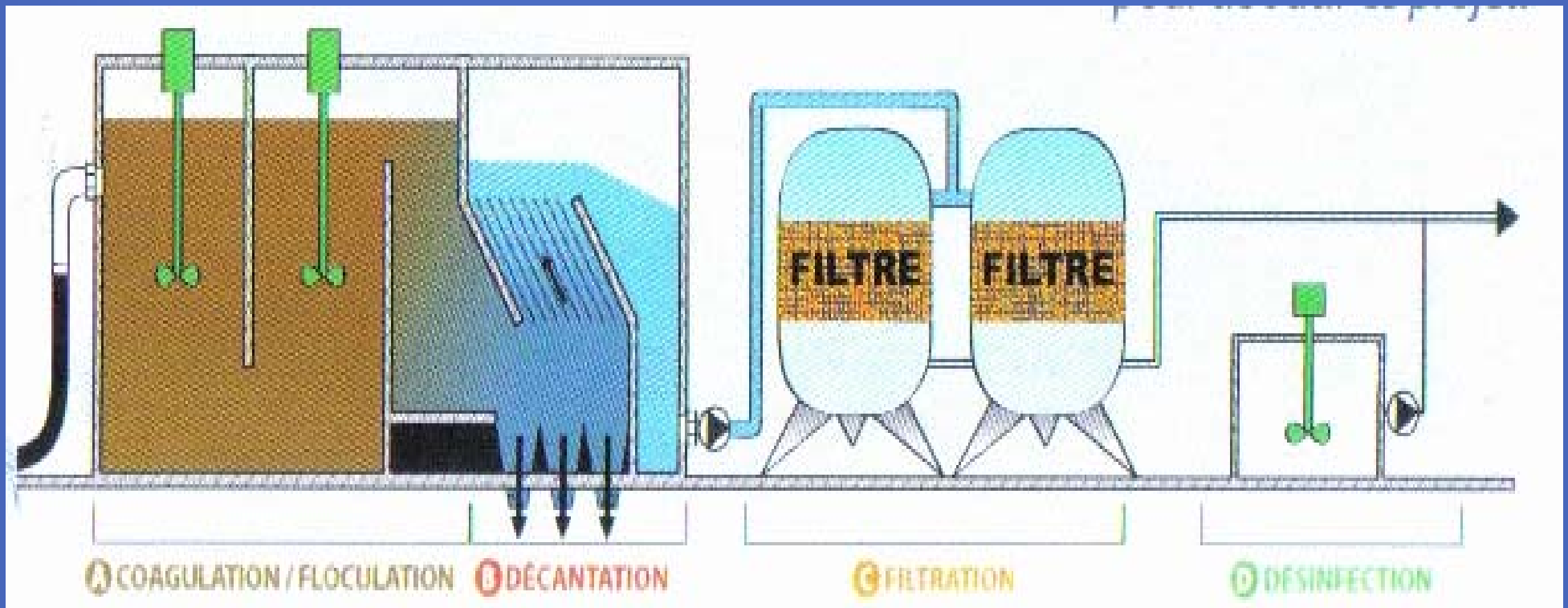
CDE has provided UCD® solutions, consisting in :

coagulation – flocculation – lamellar decantation – sand pressure filtration

With UCD®, CDE has provided :

- standard installations addressing PE issues (pH, TSS and turbidity)

WATER CLARIFICATION PROCESS



WATER CLARIFICATION PERFORMANCE

	WATER TO BE TREATED	TREATED WATER
pH	< 6.5 and > 9	6,5 to 9,0
TSS	500 ppm	< 1 ppm
Turbidity	1000 NTU	< 2 NTU
Bacteria (GORO Nickel)	Present	0

GORO Nickel Camp site Potable Water Supply

Photo UCD 80



UCD[®] 20 m³/h PRONY ENERGIES



UCD 20 m³/h STORM WATER



Goro Nickel site (New Calédonia)

UCD® 20 m³/h PRONY ENERGIES



Goro Nickel site (New Calédonia)

UCD[®] 80 m³/h PRONY ENERGIES



UCD 80 m³/h Charcoal Yard



Goro Nickel site (New Calédonia)

UCD® 80 m³/h PRONY ENERGIES

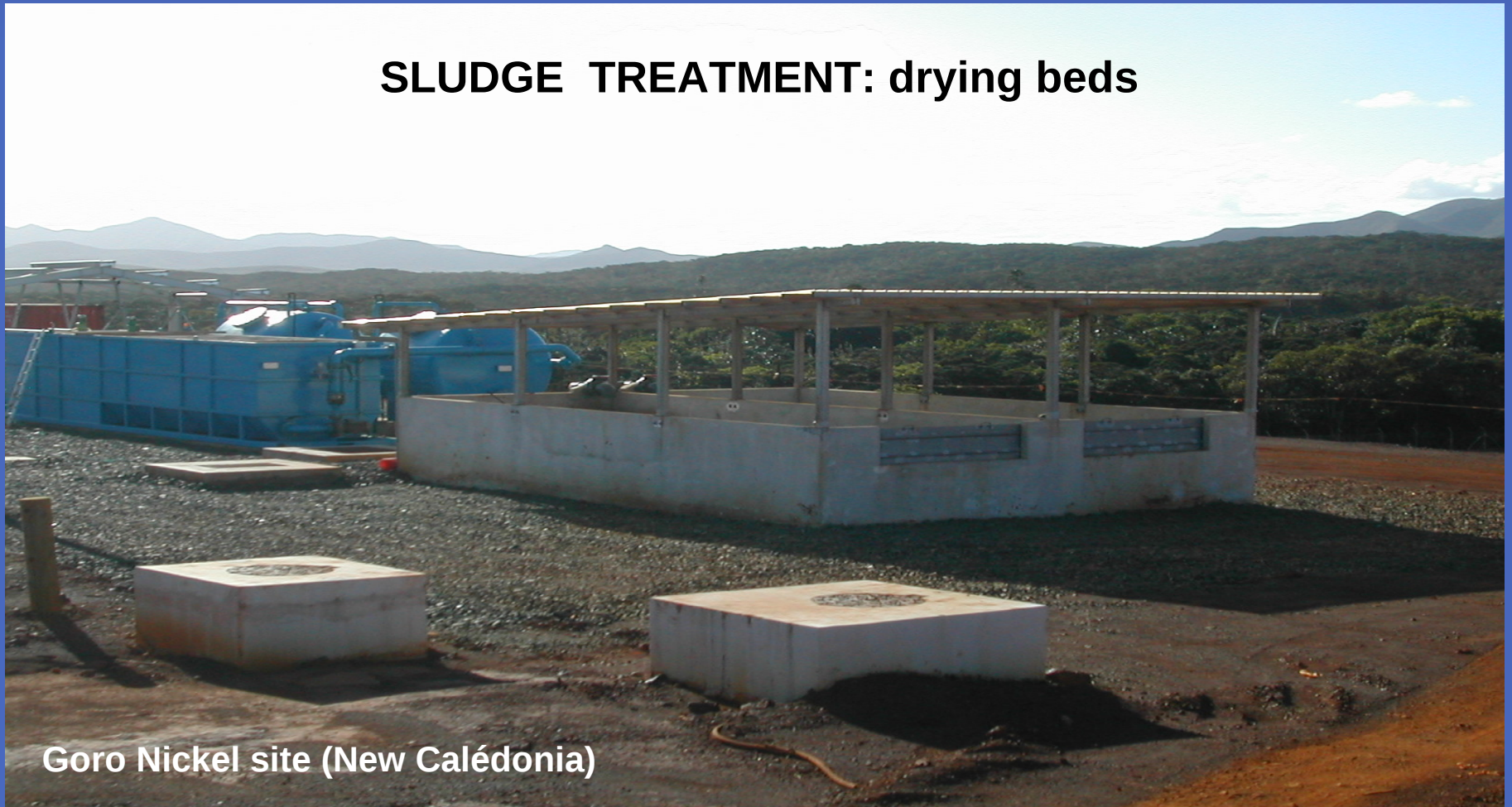


Goro Nickel site (New Calédonia)

UCD® 80 m³/h PRONY ENERGIES



SLUDGE TREATMENT: drying beds



UCD® 125 m3/h PRONY ENERGIES

2 x UCD 125 m3/h: Power plant process and industrial areas water



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Goro Nickel site (New Calédonia)

UCD® 125 m3/h PRONY ENERGIES



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Goro Nickel site (New Calédonia)

UCD® 125 m³/h PRONY ENERGIES



Goro Nickel site (New Calédonia)

UCD® 125 m³/h PRONY ENERGIES



Goro Nickel site (New Calédonia)



Nizip (Turkey) - 1 unit - 540.m³/h + 1 unit - 720.m³/h
General view on site (during the erection)



Zhana Uzen (Kazakhstan) - 2 units - 720.m³/h
On site - Construction of the building after erection of the plants



Mayotte (French Comoros) - 1 unit - 30.m³/h each - *At our Workshop*



Ajaokuta (Nigeria) - 6 units – 100 m³/h each - *At our Workshop*



Samarinda (Indonesia)
1 unit - 360.m³/h
General view on site

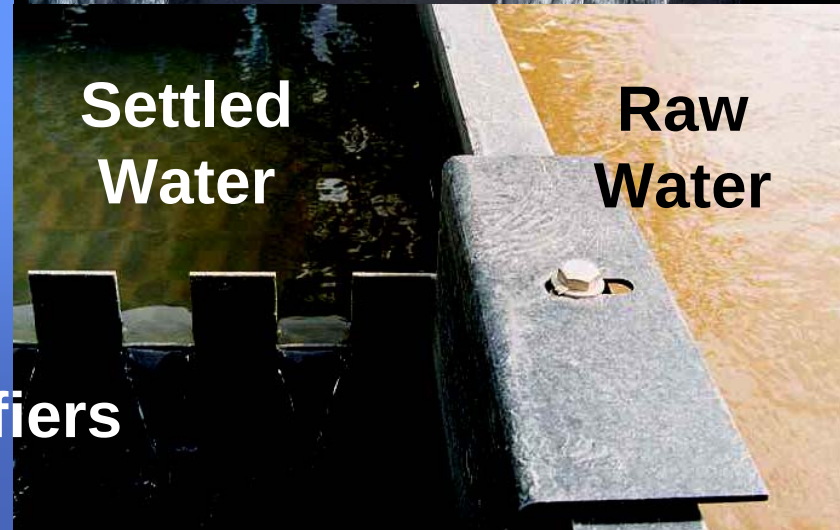


Ocotal (Nicaragua)
1 unit - 180.m³/h
General view on site



**Settled
Water**

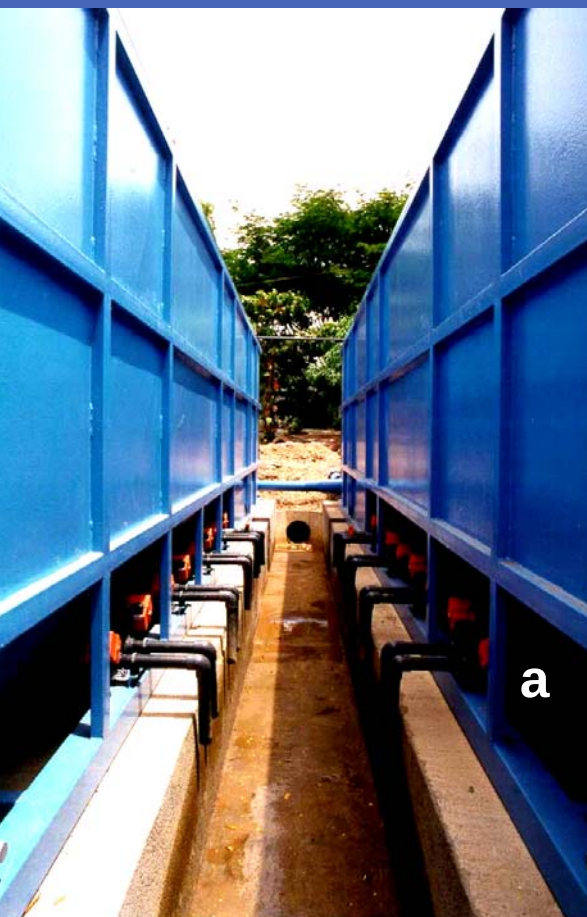
**Raw
Water**



Very high efficiency of the lamellar clarifiers



Zhana Uzen (Kazakhstan)
2 units - 720.m³/h each
*Inside a filter: Placement of
nozzles on filter floor*



Details of Ocotal (Nicaragua)

1 unikt - 180.m3/h

Ph.a - Sludge Draw-off

Ph.b - Flocculation/settling tanks

Ph.c - Filters

Ph.d - reagents and pumping skid

REFERENCES

UNITES COMPACTES DEGREMONT U.C.D.[®]

