



**SPIRAC**  
Conveying Technology

# Case Study

No. CS-4330-AU-ScW

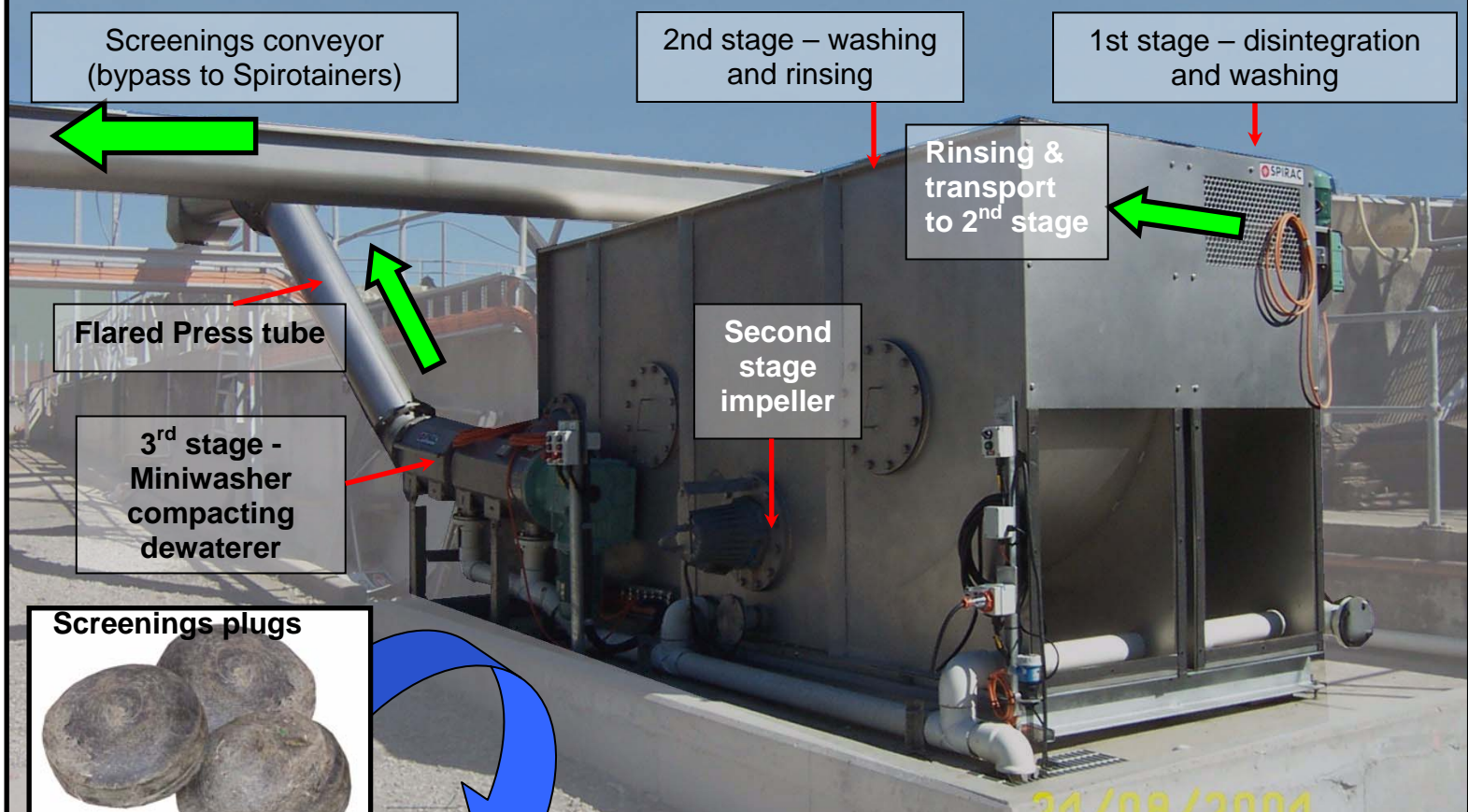
## **Application:**

Screenings washing, compacting and dewatering

**The site:** Glenfield WWTP located in Sydney Australia handles 39M l/day (450 lps) ADWF wastewater for a regional population 136,000.

**The challenge:** Strict local landfill regulations required that screenings removal from the 6mm gap ST screens be washed and compacted to be almost unrecognizable as sewage screenings, and severely reduced of odour, organics and moisture.

## HI-IMPACT SCREENINGS WASHER

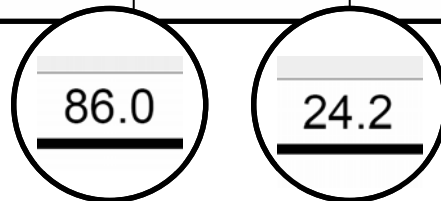


**Excerpt from Independent Lab Analysis\***

Analytical Results				Client Sample ID :	IN	OUT
Sample Matrix Type / Description :					SOIL / SOIL	SOIL / SOIL
Sample Date / Time :					( 30 Mar 2005 )	( 30 Mar 2005 )
Laboratory Sample ID :					( 12:00 )	( 12:00 )
Analyte	CAS number	LOR	Units	ES0502355-001	ES0502355-002	
EA055: Moisture Content						
Moisture Content (dried @ 103°C)		1.0	%	86.0	24.2	

\* Results based on maximum compression. If compression levels are reduced, discharge moisture levels will increase.

**Moisture Content %**



**Contact: Website - [www.spirac.com](http://www.spirac.com)**

**In**

**Out**



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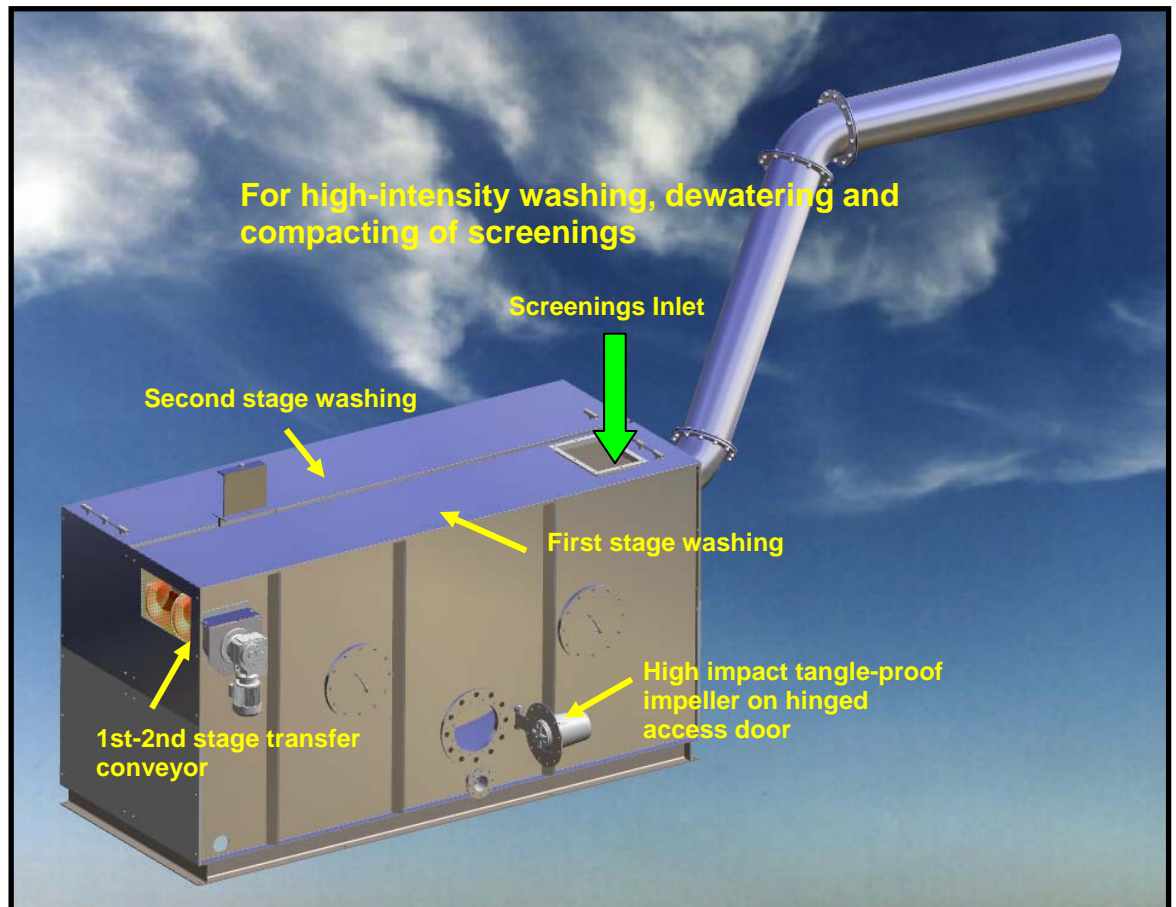
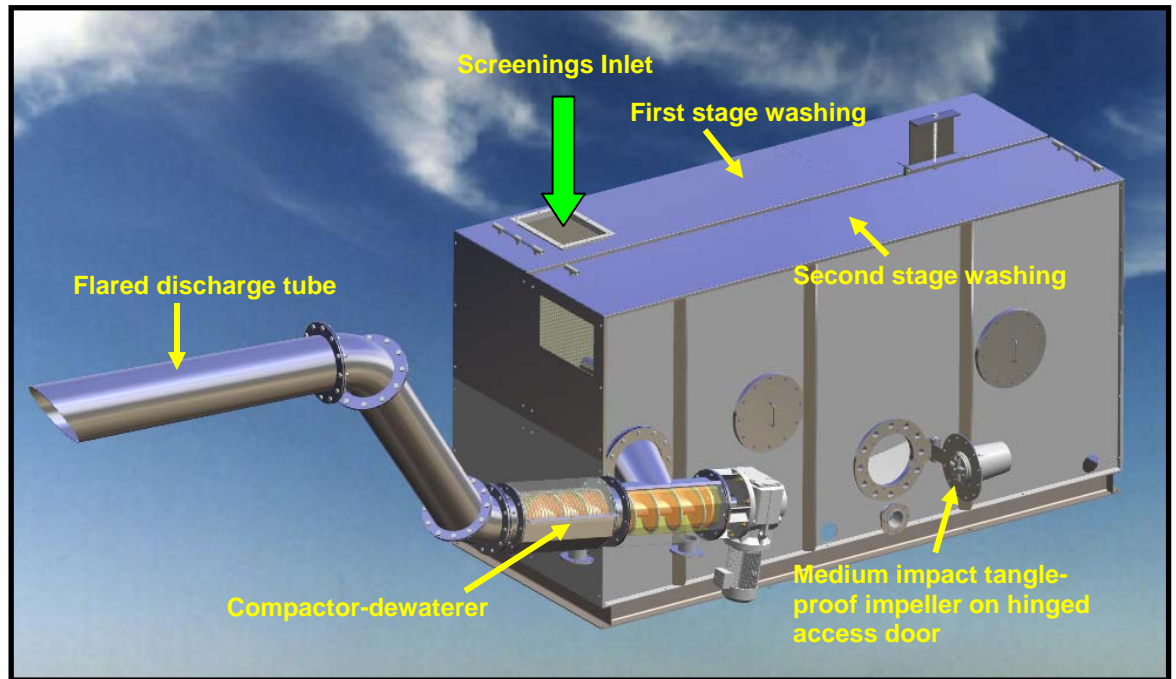
**The solution:** The Hi Impact Washer HIW-402 has a throughput of 4m<sup>3</sup>/hr of inlet screenings with volume reduction rate exceeding 80% and a discharge DS exceeding 50%. This package offers the most extreme screenings washing available.

### **Technical details:**

Impeller 1 – 7.5 kW  
Impeller 2 – 4.0 kW  
Washpress – 5.5 kW  
Transfer Conv – 1.5 kW

Rinse water requirement  
1<sup>st</sup> stage – 1 lps  
2<sup>nd</sup> stage – 1 lps  
Washpress – 2 lps

Operation – cyclic by screen operation and time.



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