

# ARCELOR MITTAL, FRANCE

## Ice Pigging Case Study

World leaders in steel production for markets including automotive, construction, household appliances and packaging industries, Arcelor Mittal employ 210,000 employees across 60 countries and have industrial presence in 19 countries.

### The Challenge

The customer was experiencing decreased flow rates in an oil waste pipe due to a build up of grease and sediment.

The pipe geometry was also very complex and for the 40 years that the pipe was in service, it had not once been cleaned.

### Key Requirements

- ▶ Improve flow rates to the pipe
- ▶ Remove reliance on waste tankers
- ▶ Intervention to take place with minimal outage time

### The Results

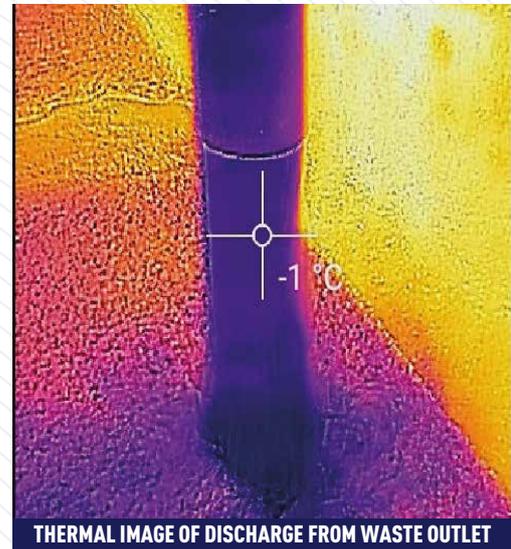
- ✓ Pipe now keeps up with flow requirements
- ✓ Saved money by eliminating the use of waste tankers
- ✓ Pipe outage of only six hours

## The Project - Waste Water

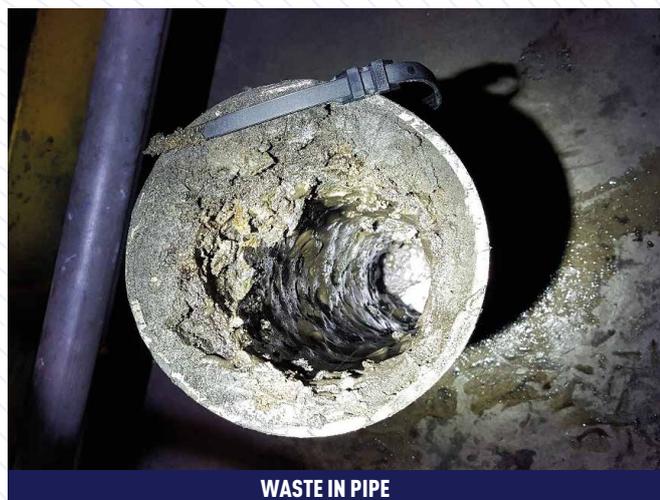
Ice Pigging was selected because of its speed and simplicity to clean 650m of a 150mm stainless steel pipe that was unable to keep up with required flows. Due to the difficulty with removing built up grease, the project required an onsite ice conditioning unit, allowing for a very thick ice slurry to be produced directly into the pipe. This type of ice slurry with very low liquid content generates a much higher wall shear than the type used in standard applications and the results were excellent. A large amount of grease and dirt laden ice was seen at the outlet and after the operation the pipe was able to keep up with the required rate.



VIEW OF DISCHARGE FROM WASTE PIPE OUTLET



THERMAL IMAGE OF DISCHARGE FROM WASTE OUTLET



WASTE IN PIPE

#### UTILITIES



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