



CRESTWOOD ENVIRONMENTAL LTD

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Primary and Secondary Containment

**Novidon Limited,
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Report Reference: CE-WH-1801-RP13-Containment - Final

Report Date: 06 January 2023

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LANDSCAPE

NOISE

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HERITAGE

WATER

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AIR QUALITY

LAND QUALITY

VISUALISATION

Crestwood Report Reference: CE-WH-1801-RP13-Containment - Final:

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1 INTRODUCTION

1.1.1 As per the letter received from the NRW dated 17th February 2022, reference PAN-015479, point 3 requiring further information relating to the site containment measures.

- a full inventory of primary containment and secondary containment measures

1.1.2 A site visit was conducted on the 23rd February 2022 and the following details and evidence collected.

2 ON SITE RAW MATERIALS

Table 1 – Raw Materials

Raw Material	Storage Type	Maximum Storage Capacity	Annual Usage	Notes
Caustic Soda 32%	Self banded Tanks x 2	108 tonnes	2,827 tonnes	
Monochloroacetic acid 80%	Self banded Tank	46 tonnes	1,290 tonnes	
Indox RD18	Delivered in IBC's	5 tonnes	16 tonnes	Starch crosslinker
Mergal 204	Delivered in IBC's	24 tonnes	87 tonnes	Preservative for wallpaper
Potato Starch	Delivered in FIBC's	1000 tonnes	6000 tonnes	
Mergal MC14	Delivered in IBC's	1 tonne	2 tonnes	Preservative for Drilling starch
Mergal 303	Delivered in IBC's	205 Litre drums	300 Litres	Cleaning of starch system
Calcium Carbonate	Delivered in FIBC's	24 tonnes	500 tonnes	Addition to drilling starch
Salt	Delivered in 25Kg sacks	1 tonnes	2 tonnes	For boiler feed water softener
Bardac	Delivered in IBC's	3 tonnes	2 tonnes	Preservative

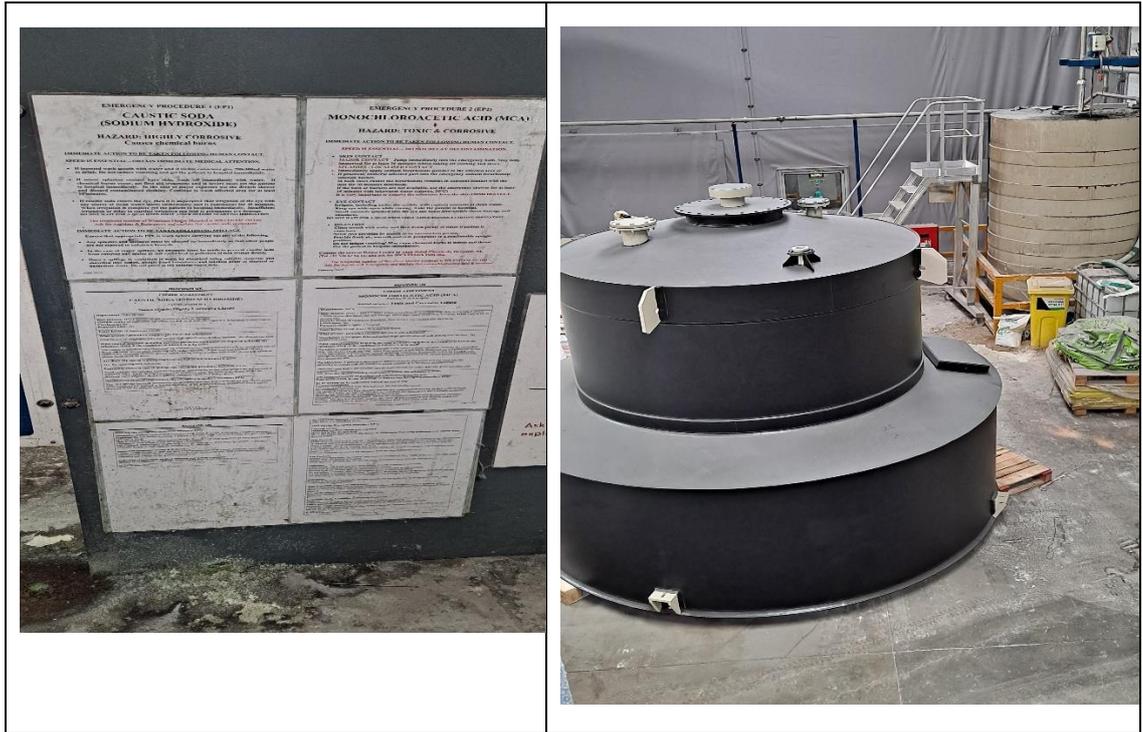


3 ON-SITE CONTAINMENT

3.1.1 Caustic Soda (32%) and Monochloroacetic acid (80%).

3.1.2 The tanks are made from Polypropylene and are self-bunded (110%). Each tank holds 43,000 Litres





3.1.3 The following picture shows a new Polypropylene, self-bunded (110%) tank, purchased to update current storage.

3.2 IBC STORAGE AND CONTAINMENT

3.2.1 IBC storage consists of several 100% polyethylene, UV stabilised, moveable bunds.

3.2.2 The bunds hold 110% of the contents of an IBC.







3.3 DRUM STORAGE AND CONTAINMENT

3.3.1 Drum storage consists of several 100% polyethylene, UV stabilised, moveable bunds. The bunds hold 110% of the contents of a standard Drum.



3.4 DOSING CHEMICALS

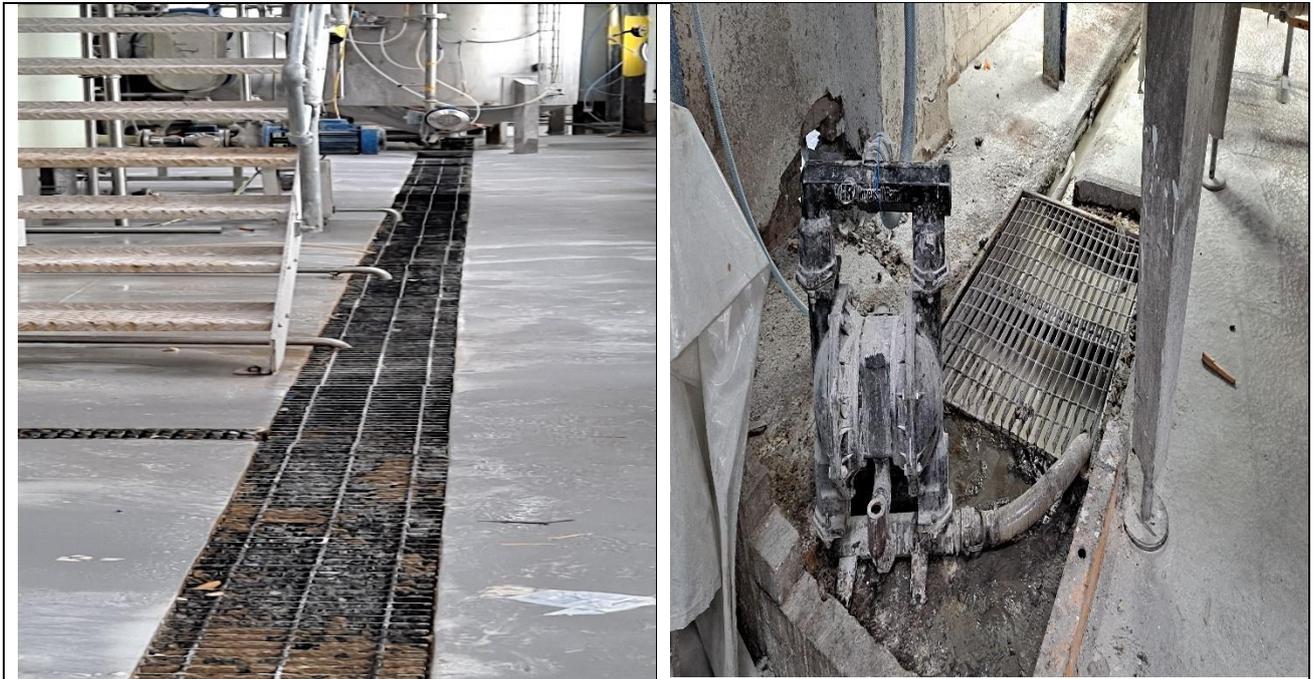
3.4.1 The dosing tanks are made from MDPE with integrated bund.





3.5 INTERNAL DRAINAGE

3.5.1 Internal drainage and sump, with pump. Liquids can be pumped into IBC's or drums for removal or into the effluent system, leading to the external discharge tank.



3.6 EFFLUENT STORAGE TANK





3.7 PENSTOCK VALVES

3.7.1 The two external Penstock valves are closed until required.



3.8 FUEL OIL STORAGE

3.8.1 Site fuel is stored and dispensed from a self-bunded High-Density Polyethylene tank.





3.9 LABORATORY CHEMICALS

3.9.1 Laboratory chemicals are contained within a secure lockable chemical cabinet.

