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#### **CWDP** overview



- Initial CWDP received 26 June 2017
- Amendment application submitted 17 Nov 2017 to include the RO Plant
- Amended permit received 09 March 2018
- A Dispersion Modelling report was conducted by Anchor Environmental and submitted to DEA on 09 August 2018.
- On 10 September 2019 Sea Harvest submitted an EIA Applicability checklist to DEADP in order to discharge the
  industrial effluent from the Added Value factory at the end of the government jetty. And feedback was
  received that Sea Harvest does not require environmental authorization from the competent authority.
- On 07 November 2019, Sea Harvest received an amended CWDP from DEA, in respect of applications made on 09 July 2018 and 27 September 2018 for :
  - three effluent streams (FFP,AV & RO brine ) to be discharged at a common point on the government jetty
  - an increase in sea water abstraction and effluent discharge volumes as a result of the Desalination plant intake and discharge
- As of 18 November 2019, the AV industrial effluent is being discharged at the end of the government jetty.

### **CWDP** overview

- In accordance with the revised CWDP issued on 07 November 2019, Anchor Environmental launched monitoring equipment in the bay on 24 January 2020, to start 12-month continuous RMZ monitoring.
- A 1<sup>st</sup> quarterly report, based on the amended CWDP received on 07 November 2019 was submitted to DEA: Oceans and Coasts and stakeholders i.e DEADP on 07 February 2020.
- In respect of comments received from Department of Environmental Affairs and Development Planning, Western Cape issued on 11 December 2019, a revised report was submitted to the Saldanha Bay Municipality on 29 January 2020.
- The 2<sup>nd</sup> External audit date from SBM / DEADP is also awaited.
- The Desalination Plant's membranes were changed on 13 and 14 February 2020.
- Currently an investigation to install an AFM filtration system to reduce the COD in the effluent being discharged to sea.
- On 04 March 2020, Sea Harvest received site visit(inspection) from the Green Scorpions.

# cwdp overview

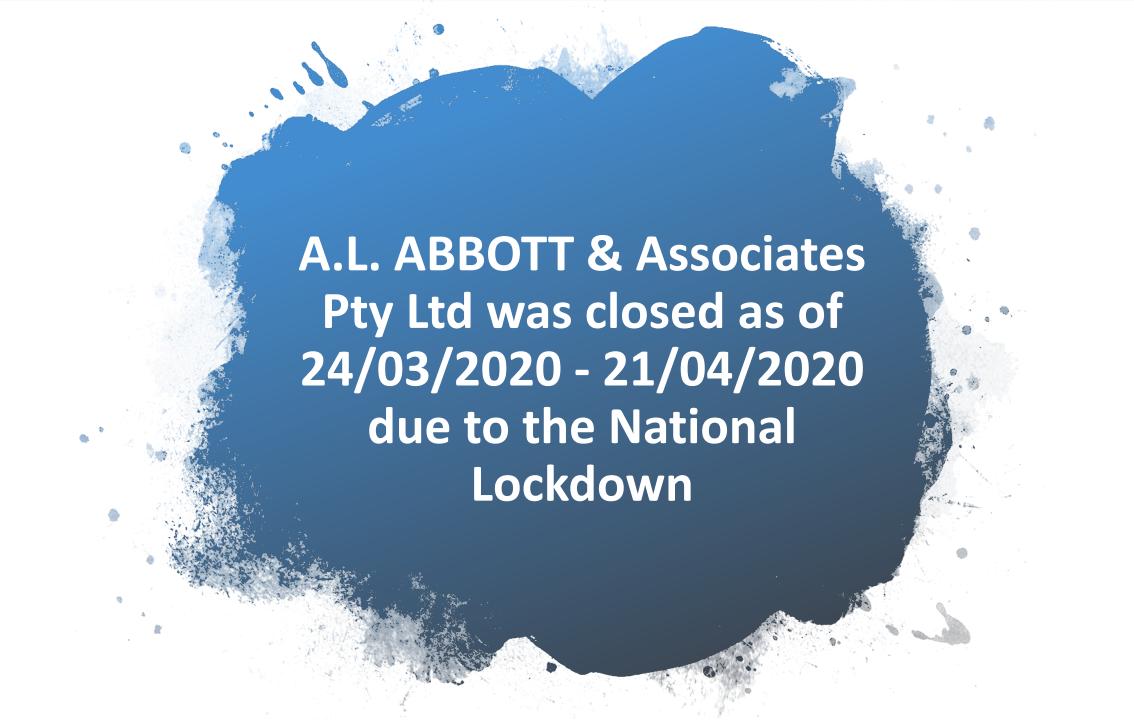


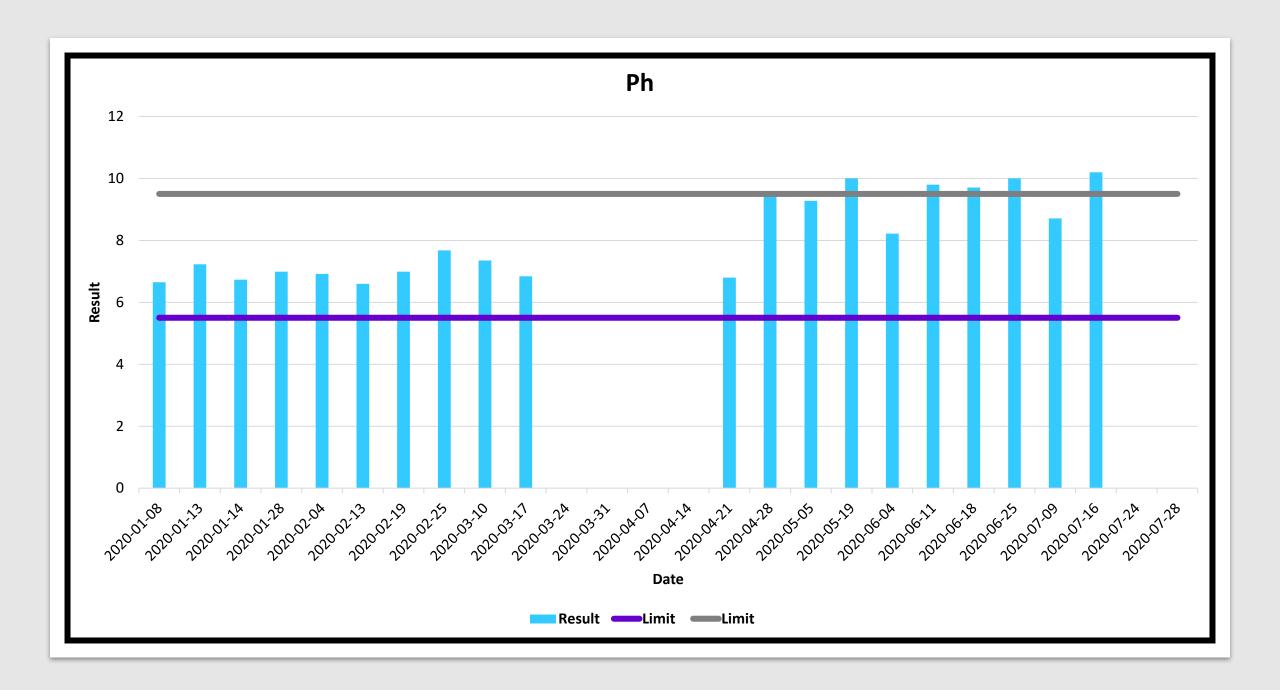
- On 01 April 2020, Sea Harvest received feedback from DEADP in respect of final audit report submitted. Communication between SBM and Sea Harvest with regards to 2<sup>nd</sup> /3<sup>rd</sup> Audit date. Provisional date for the 2<sup>nd</sup> audit was received, and the audit is scheduled for August 2020.
- Sea Harvest bi-annual external sampling was conducted on 28 April 2020 to liaise with the annual State of the Bay Report.
- In accordance with the revised CWDP issued on 07 November 2019, Anchor Environmental launched monitoring equipment in the bay on 24 January 2020, to start 12-month continuous RMZ monitoring. The first quarter report was received from Anchor Environmental by 30 April 2020
- A 2<sup>nd</sup> quarterly report, based on the amended CWDP received on 07 November 2019 was submitted to DEA: Oceans and Coasts and stakeholders i.e DEADP on 07 May 2020.
- The second quarter report was received from Anchor Environmental by 26 June 2020
- On Friday, 17 July 2020, the Sea Harvest Desalination Plant was switched off due a red residue which was observed floating on the sea's surface and an investigation was initiated into this matter.
- A 3<sup>rd</sup> quarterly report, based on the amended CWDP received on 07 November 2019 was submitted to DEA: Oceans and Coasts and stakeholders i.e DEADP on 07 August 2020.

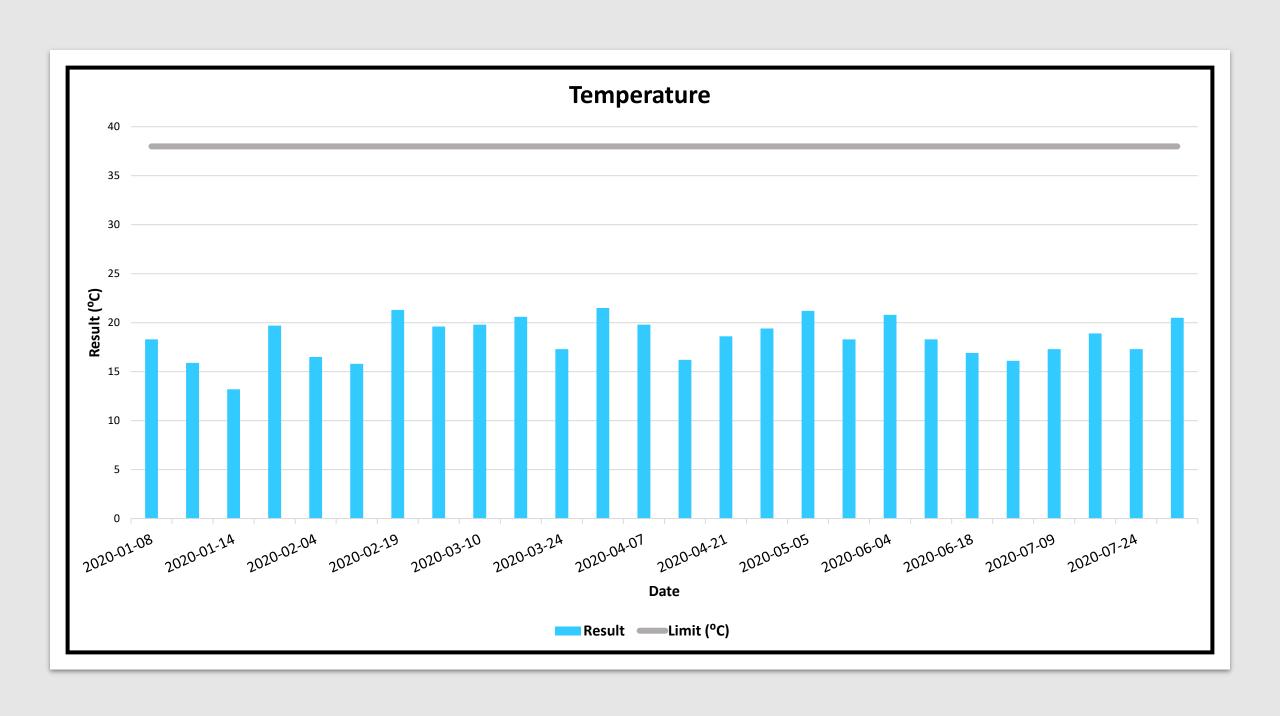
## **CWDP** monitoring parameters

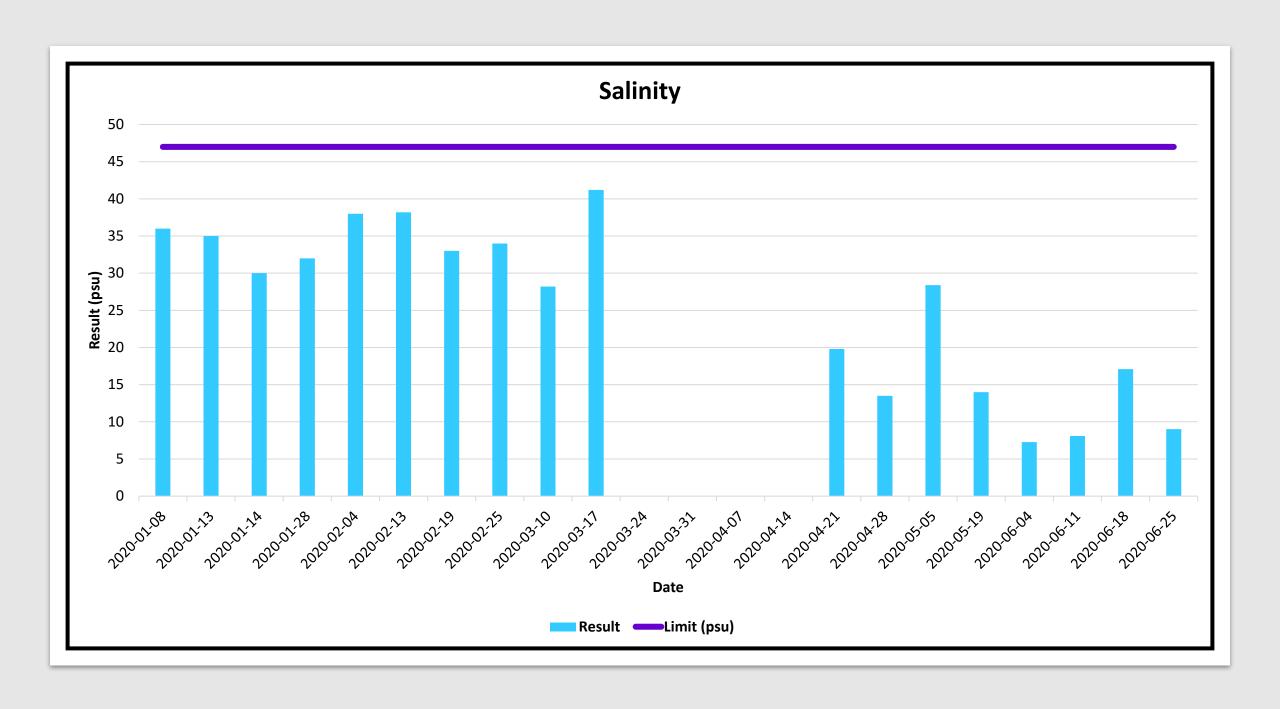


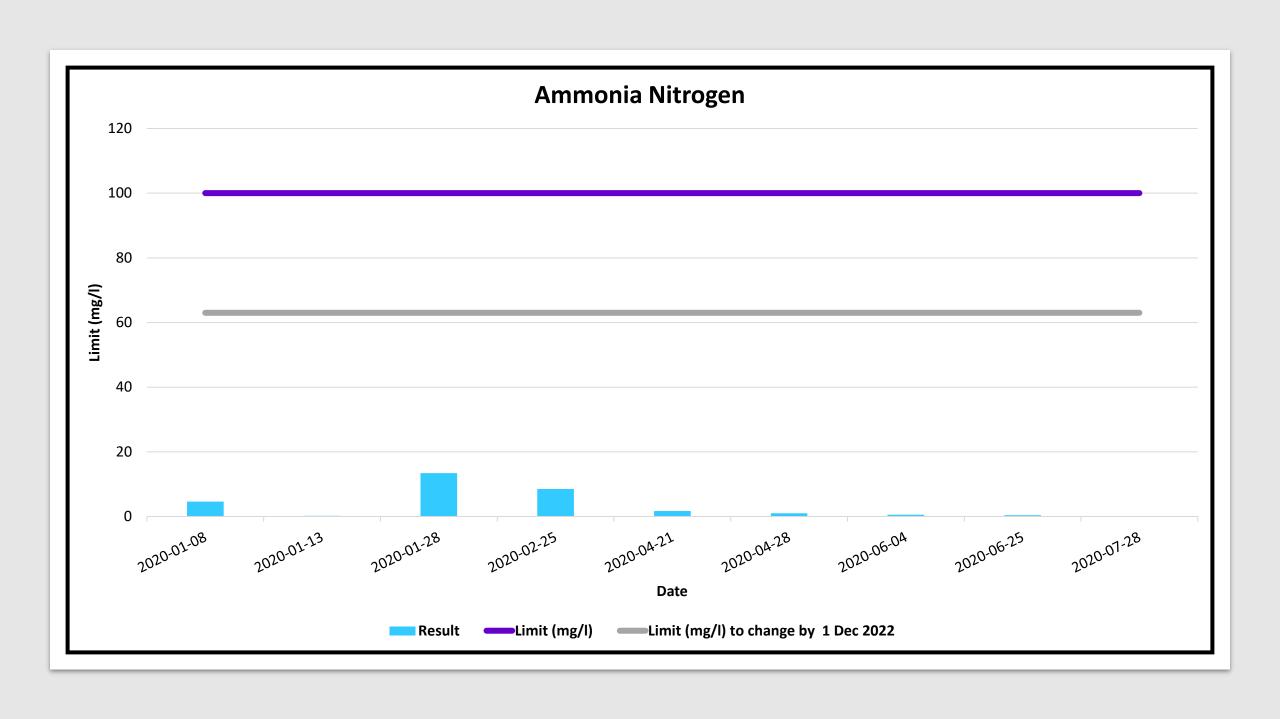
Parameter	Limits from 07 November 2019	Limits from 01 December 2022	Frequency
Temperature	38 °C	38 ℃	Weekly
Ph	5.5-9.5	5.5-9.5	Weekly
Salinity	47 psu	47 psu	Weekly
Chemical Oxygen Demand	250 mg/l	250 mg/l	Monthly
Ammonia Nitrogen	230mg/l	63mg/l	Monthly
Total Suspended Solids	100mg/l	20mg/l	Monthly

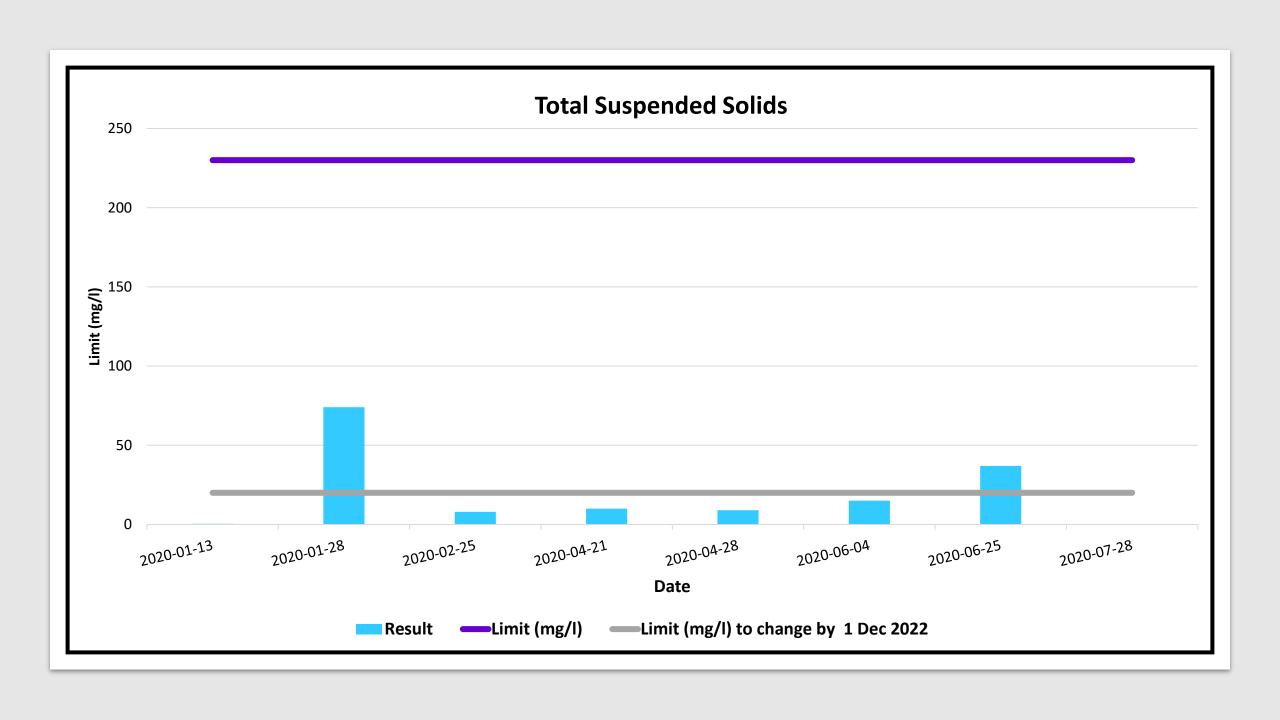


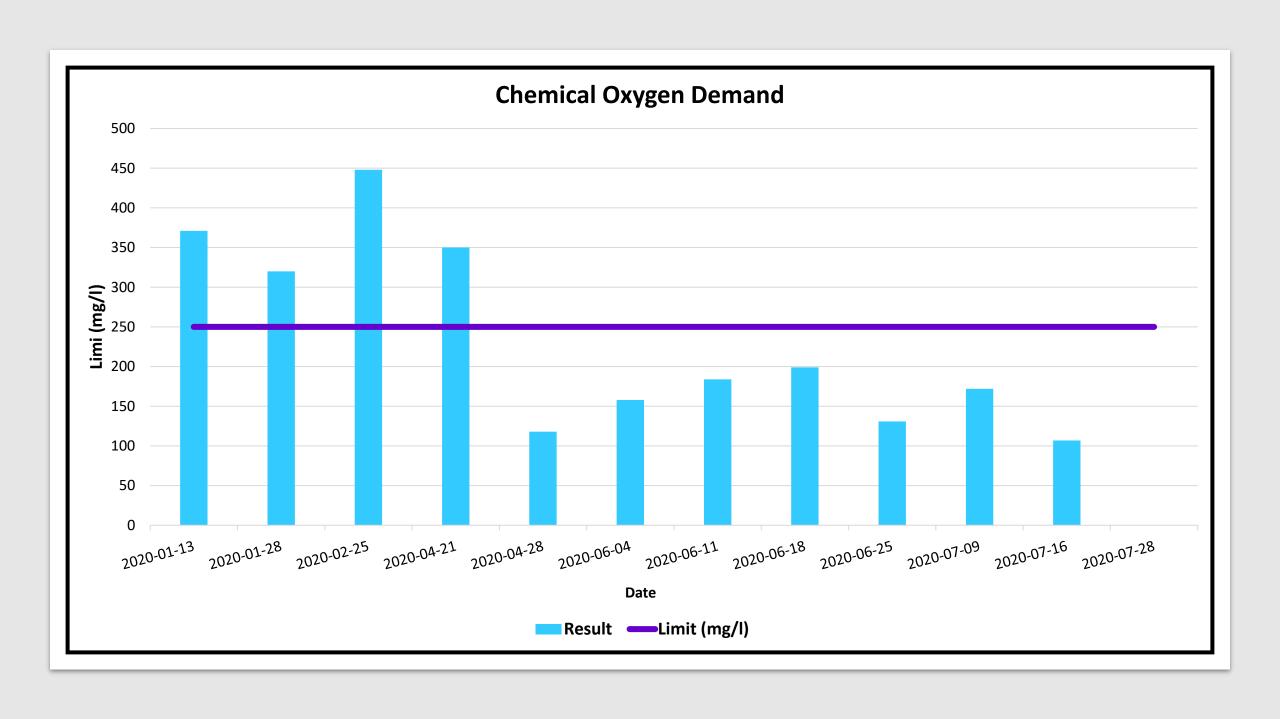


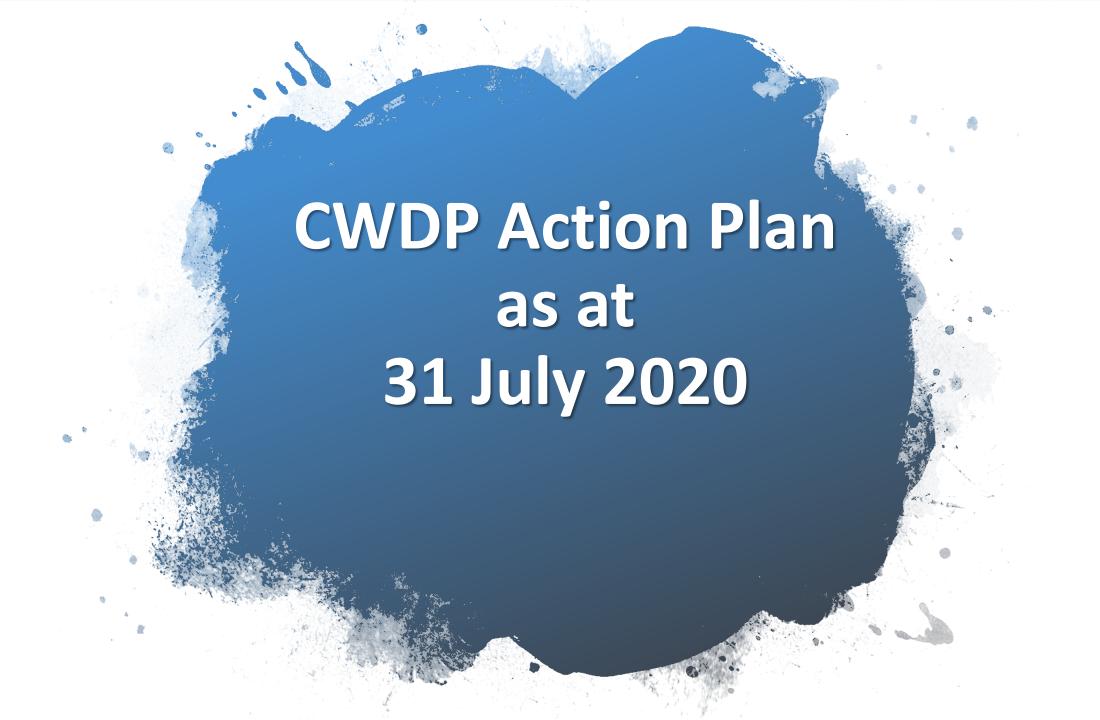












#### **COASTAL WATERS DISCHARGE PERMIT - 7 NOVEMBER 2019**

#### PERMIT NUMBER - 2012 / 025 / WC / SEA HARVEST

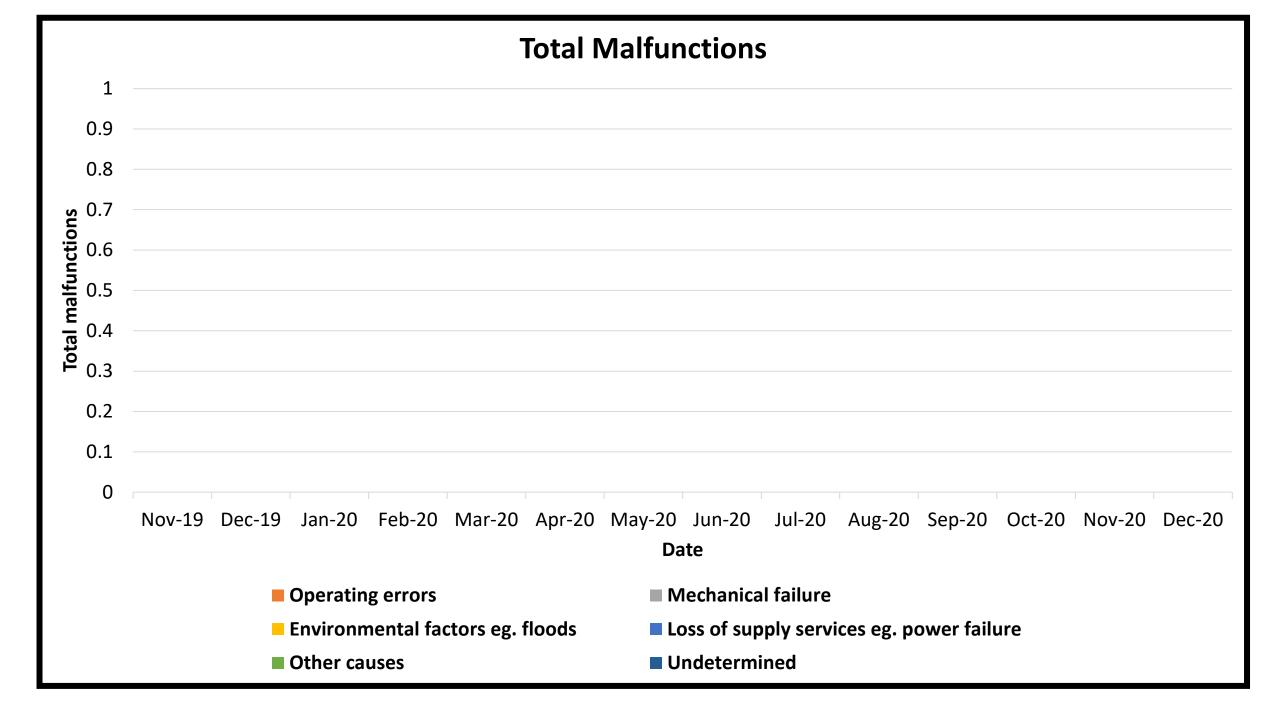
NvH	Nico van Houwelingen	Complete	С
ME	Meryl-Lee Edwards	On going	OG
NM	Nadia Martin	On Hold	ОН
JN	Jo-Ann Nel	Outstanding	0

SECTION NUMBER	ACTION	RESPONSIBLE	STATUS 31/07/2020	FREQUENCY
E 9	If an incident resulting in a discharge that exceeds the limits prescribed in this permit occurs, whether the requisite permission has been obtained from the Department or not, the permit holder must report the incident immediately to the Department, or where that is not possible, at the earliest opportunity, which must be within seven calendar days, providing full details of the cause of the incident, the measures taken to mitigate the incident, alternatives considered other than the discharge of effluent, the volume of effluent released, the location where effluent released and any other information requested by the Department subsequent to the reporting of the incident:	ME		Adhoc
E 10	The permit holder must, in addition to condition 9 above, comply with the requirements of Section 30 of the National Environmental Management Act, 1998(Act No. 107 of 1998) ('NEMA"), where applicable.	ME	OG	Adhoc
F 1.1 & 1.3	The permit holder must not exceed the daily discharge volumes in Section C of this permit-6000m³ and must not be exceeded without prior authorisation by the Delegated Authority.	NvH	OG	Daily
F 2.2	The maximum limits prescribed in <b>Table 1</b> , for the constituents of the effluent to be discharged via coastal discharge pipeline-refer permit	NvH	OG	Weekly/ Monthly

F 3.3.3	Where the sampling and analysis is done internally, an independent, reputable external service provider must be appointed to determine compliance with section F: condition 1 and 2 of this permit, every 6 months. The reports must be submitted to the Department bi-annually (twice a year)	ME	Oct-20	Bi-annual
F 4.1	The permit holder must submit a monitoring programme to the Department for approval within 6(six) months from the date of issue of this permit. The monitoring programme must include, as minimum, the following aspects: 4.1.1 An indication of the extent of the mixing zone 4.1.2 Management strategies and actions to ensure compliance with the permit conditions 4.1.3 Management strategies and actions to ensure compliance with the quality objectives as per the South African Water Quality Guidelines for Coastal Marine Waters( Volume 1): Natural Environment, published by the Department of Water Affairs in 1995, or any amended version thereof and effectiveness thereof. 4.1.4 Management and contingency actions to immediately shut down the discharge if Table 2 limits are not compiled with and/or environmental quality objectives at the end of the mixing zone are not met. Additional monitoring(as per Water Quality Guidelines (Volume 3 & 4) at beneficial end users/facilities such as recreational in the vicinity must be undertaken within 48 hours.	ME	С	
F4.1.7	The monitoring programme(s) mentioned above, must be implemented by a <b>suitably qualified person(s)</b> appointed by the permit holder.	ME	c	
F4.1.8	The Department may request investigations of any other issues regarding effluent discharge and the marine environment if and when it is considered necessary.	NvH		adhoc
F 4.2	The permit holder must submit a <b>Marine Impact Assessment</b> every year from the date of commencement of the brine discharge for two years and every three years thereafter. <b>NB</b> : This timeframe will be reviewed, should the volume or constituents deviate from this permit or should the impact assessment show potential or definite impacts.  4.2.1 This must include the assessment of potential marine impacts resulting from the effluent discharge  4.2.2 It must take into account historical baseline data where available  4.2.3 Water quality and benthic macrofauna monitoring must be conducted every year for two years and 3 years thereafter at the above locations  4.2.4 Compliance with <b>Table 2</b> must be achieved at the Recommended Mixing Zone (RMZ) i.e. within 100 m of the discharge point.	ME	OG	
F6.1	Accurate, up-to-date records of all system malfunctions resulting in the disposal of water containing effluent not in accordance with the requirements of this permit must be kept.	ME/NM		Adhoc
F6.3	The following headings must be used for the above records, accompanied by a full explanation of all contributory circumstances and proposed / implemented mitigation measures:operating errors; 6.3.1 operating errors 6.3.2 mechanical failure (including design, installation and maintenance; 6.3.3 environmental factors (e.g. floods 6.3.4 loss of supply services (e.g. power failure); 6.3.5 other causes; and 6.3.6 Undetermined.	ME		Adhoc

F7.1	The permit holder must submit an updated contingency plan to the Department for approval within 6(six) months of the date of issue of this permit and must consist of stipulated procedures, schedules and responsibilities which include, inter alia: (7.1.1 - 7.1.9)	JC/NvH	С	Adhoc
F 7.2	The permit holder must provide the details on the type of mitigating measures to be implemented for discharge into the coastal environment that exceeds the limits prescribed in this permit.	NvH		Adhoc
F 7.5	The permit holder must ensure that the contingency plan, once approved by this Department, is immediately implemented at the facility mentioned in Section B.	ME	С	Adhoc
F 8.2	The following must be reported on or presented quarterly to the Department: 8.2.1 The exact volume discharged, showing daily and monthly discharge volumes; 8.2.2 Incidences that occurred during emergency, malfunction or upset conditions. Such incidences must be reported. 8.2.3 All minutes emanating from the effuent discharge monitoring forum, where established. 8.2.4 The result/ findings of the monitoring requirements in terms of this permit and where further monitoring is required.	ME	07-Aug-20	Quarterly
F 8.4	The following must be reported on and represented at the <b>compliance review meeting</b> to the Department: 8.4.1 A report detailing complaince with Section F of this permit 8.4.2 Any investigations carried out in terms of Section F:9 at the compliance review and upon submission of a renewal/ new application	ME	он	Adhoc
F 8.5	Any defects or deficiencies in terms of the coastal outfall pipeline must be reported to the Department immediately, or where that is not possible, at the earliest opportunity, which must be within 7(seven) days. Where necessary, repairs must be carried out on the pipeline immediately.	ME/ NvH		Adhoc
F 9.1	A compliance review consisting of authorities (as determined by the department) will be established.	ME	ОН	Adhoc
F 10.1	The permit is valid for a period of (10) ten years, subject to a compliance review at 30 months. A compliance review committee consisting of members determined by the Department will be established for compliance review.	DEA		
F 10.2	The permit holder must submit a renewal application at least 6(six) months prior to the expiry date of this permit to the Department.	ME		Nine yearly

No malfunctions have occurred at FFP Offcuts & Trimmings Plant nor at the ADV DAF Plant (Jan – Jul 2020)



No complaints were received for Industrial effluent and Brine discharge (Jan – Jul 2020)

