



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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LICENCE NUMBER : 12/9/11/L191016090639/4/R
CLASS : CLASS A
SECTOR : STORAGE, TREATMENT, RECOVERY AND DISPOSAL FACILITY
WASTE MANAGEMENT FACILITY : SHONGWENI WASTE MANAGEMENT FACILITY.
LOCATION : PORTION OF THE FARM REMAINDER OF KIRKFALLS 14227, DURBAN, ETHEKWINI MUNICIPALITY, KWAZULU NATAL PROVINCE.
LICENCE HOLDER : ENVIROSERV WASTE MANAGEMENT (PTY) LTD
ADDRESS : P.O BOX 9385, EDENGLLEN 1613
CONTACT PERSON : MR NEIL BRINK
CONTACT DETAILS : TEL: 011 456 5400
Email: Neilb@enviroserv.co.za

WASTE MANAGEMENT LICENCE ISSUED IN TERMS OF SECTION 49(1)(a) AND REVIEWED IN TERMS OF SECTION 53 OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 (ACT NO. 59 OF 2008)

In terms of the National Environmental Management: Waste Act, 2008 (Act No.59 of 2008) read with the Environmental Impact Assessment Regulations 2014, published in Government Notice No. 982 of 04 December 2014 (the Regulations), the Chief Director: Hazardous Waste Management and Licensing, acting under



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delegation, hereby grants EnviroServ Waste Management (Pty) Ltd a Waste Management Licence for the following waste management activities as listed in Category A and B of Government Notice No 921 dated 29 November 2013:

Category A

(13) *"The expansion of a waste management activity listed in Category A or B of this Schedule which does not trigger an additional waste management activity in terms of this Schedule."*

Category B

(1) *"The storage of hazardous waste in lagoons excluding storage of effluent, wastewater and sewage."*

(2) *"The use or recycling of hazardous waste in excess of 1 ton per day, excluding reuse or recycling that takes place as an integral part of an internal manufacturing process within same premises."*

(3) *"The recovery of waste including the refining, utilisation, or co-processing of the waste at a facility that processes in excess of 100 tons of general waste per day or in excess of 1 ton of hazardous waste per day, excluding recovery that takes place as an integral part of an internal manufacturing process within the same premises."*

(4) *"The treatment of hazardous waste in excess of 1 ton per day calculated as a monthly average; using any form of treatment excluding the treatment of effluent, wastewater or sewage."*

(7) *"The disposal of any quantity of hazardous waste to land".*

(8) *"The disposal of general waste to land covering an area in excess of 200m² and with a total capacity exceeding 25 000 tons".*

(10) *"The construction of a facility for a waste management activity listed in Category B of this Schedule (not in isolation to the associated waste management activity)".*



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In this Licence, "Director" means the Director: Licensing of the National Departmental Affairs who may be contacted at the address below:

Director: Licensing
Department of Environmental Affairs
Private Bag X447
PRETORIA
0001

In this Licence, "Director: RPW" means the Director: Resource Protection and Waste of the National Department of Water and Sanitation (DWS) who may be contacted at the address below:

Director: Resource Protection and Waste.
Department of Water and Sanitation
Private Bag X 313
PRETORIA
0001

1. SITE DETAILS

1.1 LOCATION

1.1.1 This Licence authorises the above listed waste activities on a Portion of the Farm Remainder Kirkfalls 14227 within the jurisdiction of eThekweni Metropolitan Municipality, Kwa-Zulu Natal Province (hereafter referred to as "the Site").

1.1.2 The location of the Site must be according to the co-ordinates as listed in Annexure III.

1.2 DOCUMENTS CONSIDERED

1.2.1 96/122/GHR by Geomeasure Services, dated 22 November 1996;



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- 1.2.2 8203.66 by A.A Loudon & Partners, dated 29 January 1997;
- 1.2.3 S/SLPEICR.597 by Lombard & Associates, dated 22 May 1997;
- 1.2.4 S/SLPEICRA.797 by Lombard & Associates, dated 28 July 1997;
- 1.2.5 The Shongweni Waste Management Facility Site Operational Control Plan;
- 1.2.6 Design Aspect and Operating Procedures Report No. G45/9/6898 compiled by Jones and Wagener, dated May 1999;
- 1.2.7 Water Monitoring Protocol for the Shongweni Waste Disposal Facility Report No. JW136/10/B196 Rev 00 compiled by Jones and Wagener Consulting Civil Engineers, dated October 2010;
- 1.2.8 External Compliance and Environmental Audit Report compiled by En-Chem Consultants cc, dated October 2012;
- 1.2.9 Permit issued by the Department of Water Affairs and Forestry, dated 28 August 1997;
- 1.2.10 Amendment Permit (Permit No.16/2/7/U60/B3/Y1/P270) issued by the Department of Water Affairs, 28 September 2005;
- 1.2.11 Amendment Permit (Permit No. 16/2/7/U602/B3/Y1/P270/A5) issued by the Department of Environmental Affairs, 07 August 2007;
- 1.2.12 The Waste Management Licence Application Form, dated 26 October 2010;
- 1.2.13 The Final Environmental Impact Assessment Report for the Introduction of Treatment Technologies at the Shongweni Hazardous Waste Disposal Site compiled by Synergistics Environmental Services (Pty) Ltd, dated 10 September 2012;
- 1.2.14 The Waste Management Licence for storage, recovery and treatment of hazardous waste and effluent, dated 14 May 2013 (Reference number: 12/9/11/L467/4);
- 1.2.15 The Waste Management Licence for disposal of waste, dated 08 April 2014 (Reference number: 12/9/11/L1200/4);



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- 1.2.16 The Shongweni Waste Disposal Facility Water Quality Monitoring Report compiled by Jones & Wagener Engineering & Environmental Consultants, dated 09 July 2018;
- 1.2.17 The Waste Management Licence variation, dated 24 July 2018 (Reference number: 12/9/11/L467/1/V1);
- 1.2.18 The External Waste Management Licence compliance audit report: EnviroServ – Shongweni Landfill compiled by Dorean Environmental Services cc, dated June 2019; and
- 1.2.19 The Decision regarding uplifting of the suspension of waste management licence 12/9/11/L1200/4 issued to EnviroServ, dated 26 August 2019.

LICENCE CONDITIONS

1.3 SITE SECURITY AND ACCESS CONTROL

- 1.3.1 The Licence Holder must ensure effective access control of the waste management site to prevent unauthorised entry.
- 1.3.2 Weatherproof, durable and legible signs in English and Zulu must be displayed at each entrance to the site.
- 1.3.3 The signs must indicate the risks involved in entering the Site, including the name, address and telephone number of the Licence Holder and the person responsible for the operation of the Site.

2 MANAGEMENT

2.1 GENERAL MANAGEMENT

- 2.1.1 The activities shall be managed and operated:
 - a) In accordance with an approved Environmental Management Programme (EMPr), that, *inter alia*, identifies and minimises the risk of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformance as well as those drawn to the attention of the Licence Holder as a result of complaints;



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- b) In accordance with the site operational and maintenance plan;
- c) In accordance with conditions of this Licence and any other written instruction by the Director; and
- d) By an adequate, competent staff complement.

2.1.2 Any persons having duties that are or may be affected by this Licence must have convenient access to a copy thereof, which copy must be kept at or near the place where those duties are carried out.

2.1.3 A copy of this Licence may be published by the Department, in its discretion, on any website or other media.

2.2 DESIGNATION OF WASTE MANAGEMENT CONTROL OFFICER

2.2.1 A Waste Management Control Officer (WMCO) must be designated in writing to monitor and ensure compliance and correct implementation of all mitigation measures and provisions as stipulated in the Licence and standard operation procedures. The Licence Holder must keep proof of designation of the WMCO.

2.2.2 The WMCO must report any non-compliance with any Licence conditions or provisions of NEM: WA to the licensing authority.

2.2.3 The duties and responsibility of the WMCO should not be seen as exempting the Licence Holder from any other legal obligations in terms of the NEM: WA.

2.3 EMERGENCY PREPAREDNESS PLAN

2.3.1 The Licence Holder must maintain and implement an emergency preparedness plan and review it annually when conducting an audit and after each emergency incident and major accident. The plan must, amongst others, include measures to address:

- a) Power failure;
- b) Operational malfunction;
- c) Site fires;



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- d) Spillage (on Site); and
- e) Natural disasters such as floods

2.3.2 The plan must include contact details of the nearest police station, ambulance services and the emergency centre as well as the contact details of the on-site emergency response person/s.

3. PERMISSIBLE WASTE

3.1 Any portion of the Site, which has been constructed or developed according to condition 4 below maybe used for the above listed waste activities.

3.2 The acceptance of waste must be according to the "Waste Classification and Management Regulations and associated norms and standards" (GN R 634, 635, 636 of 23 August 2013).

3.3 Waste streams with a leachable sulfate concentration of <250 mg/l may be disposed of at the Site.

4. FURTHER CONSTRUCTION OF THE FACILITY

4.1 Further construction and development of the waste disposal site must be according to engineering drawings that are approved by a registered professional engineer, as compliant with recognised civil engineering standards and approved by the Chief Director/ Director.

4.2 The disposal site design reports and drawings must only be changed under the supervision of a registered professional engineer and upon approval by the Chief Director/ Director.

4.3 Any further developments within the Site must be carried out under the supervision of a Professional Registered Engineer.

4.4 After construction of the disposal site or further development within the Site, the Professional Registered Engineer must submit a letter to the Director for approval, confirming that the disposal Site has been constructed in accordance with the approved engineering designs before the disposal of waste can commence.

4.5 The disposal facility must be constructed in accordance with recognised engineering practices, with



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special consideration to stability.

- 4.6 The slope of the sides of the disposal Site must be constructed and maintained in such a manner that the occurrence of erosion is minimised.
- 4.7 The maximum height of the disposal Site must not exceed the heights as depicted in the engineering design approved by the Director.
- 4.8 Contaminated storm water works must be of such a capacity as to maintain a freeboard of half a metre and to accommodate all contaminated storm water run-off, which could be expected as a result of the estimated maximum precipitation during a period of 24 hours with an average frequency of once in a fifty years (hereinafter referred to as the estimated maximum precipitation).

5. IMPACT AND OPERATION MANAGEMENT

- 5.1 No waste streams containing aluminium that have the potential for reactivity under landfill disposal conditions may be disposed of at the site.
- 5.2 No trenching into the existing waste body is allowed.
- 5.3 No recirculation of leachate or contaminated storm water into the waste body is allowed.
- 5.4 Waste which is not permissible on site must be dealt with according to the relevant legislation or the Department's policies and practices.
- 5.5 The Licence Holder must prevent spillages on Site. Where they happen nonetheless, condition 2.3.1 above shall apply and the Licence Holder must ensure the effective and safe cleaning of such spillage.
- 5.6 The leachate must not impact on a water resource or on any other person's water use, property or land and must not be detrimental to the health and safety of the public and the environment in the vicinity of the activity.
- 5.7 The Licence Holder must ensure that impact of odour from emissions from the Site is minimised.
- 5.8 The Licence Holder must minimise the occurrence of nuisance conditions or health hazards.



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- 5.9 The Licence Holder must ensure a system is in place to record and investigate complaints and incidents concerning the activities on site.
- 5.10 The Licence Holder must ensure that contaminated storm water is not discharged to a water source, or to land where it could cause pollution. Contaminated storm water must be contained and disposed of in terms of the relevant legislation.
- 5.11 The Licence Holder must ensure that all personnel who work with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risks involved. Records of training and verification of competence must be kept by the Licence Holder.
- 5.12 The Licence Holder must ensure that all reasonable steps, such as suitable zoning or written agreements with adjacent landowners to establish and maintain an inbuilt "buffer" zone between the Site and the nearest residential and/or light industrial areas during the operative life of the Site. The "buffer zone" must be maintained as follows:
- (a) 180 metres to the north
 - (b) 600 metres to the east
 - (c) 350 metres to the south and west
- 5.13 Only compatible land uses may be permitted within the buffer zone.
- 5.14 The Licence Holder must ensure that records in terms of volume/weight, sources and nature of all waste received, treated and disposed are maintained, kept and supplied to the Department on request.
- 5.15 Waste disposed of on Site must be compacted and covered on a daily basis with a minimum of 150 millimetres of soil and ash or any other material approved by the Director.
- 5.16 Reclamation of waste must be done at designated areas under very strict control taking into account that the facility is Class A though general waste is permitted.
- 5.17 Waste disposed on Site must not be allowed to burn.
- 5.18 The Licence Holder must apply sufficient dust control measures to prevent windblown dust from



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causing nuisance conditions.

- 5.19 The Licence Holder must implement adequate measures to the satisfaction of the Director to ventilate methane gas generated in the waste disposal area; and to prevent the build - up of dangerous concentrations within the Site.
- 5.20 The recovery and treatment areas must have firm and impermeable bases to prevent contamination of soil and groundwater.
- 5.21 The Licence Holder must ensure that waste treatment and recovery activities are operated within their design parameters at all times.
- 5.22 The Licence Holder must register for the storage of waste on Site and comply with the National Norms and Standards for the Storage of Waste, GN 926, dated 29 November 2013.
- 5.23 The Licence holder must register and comply with the National Standards for the extraction, flaring or recovery of landfill gas.

6. RUN - OFF MANAGEMENT

- 6.1 All runoff water (storm water) arising as a result of precipitation on land adjacent to the site must be prevented from coming into contact with any substance, whether such substance is solid, liquid, vapour or gas, or a combination thereof, which is produced, used, stored, disposed or spilled in the premises, including leachate and must be diverted and drained from the site, by means of works constructed by the Licence Holder in accordance with condition 4.
- 6.2 All runoff water (stormwater) arising as a result of precipitation on the Site, must be prevented from coming into contact with any substance, as enumerated in condition 6.1 and must be diverted and drained from the Site and working face of the Site, by means of works constructed by the Licence Holder in accordance with condition 4.
- 6.3 In the event that runoff water referred to in condition 6.1 and 6.2 becomes contaminated, it must be contained. Runoff water arising from operational actions must be regarded as contaminated runoff and shall be managed according to condition 7.
- 6.4 Uncontaminated runoff water must under no circumstances be used to dilute leachate emanating



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from the site but must be diverted to the Mgoshongweni River.

7. LEACHATE MANAGEMENT

7.1 All leachate from the Site must be contained into approved leachate containment tanks from where it must be treated or lawfully managed.

8. MONITORING

8.1 MONITORING METHODS AND PARAMETERS

8.1.1 The Licence Holder must carry out all tests required in terms of this Licence in accordance with internationally published standard methods conducted by laboratories accredited by the South African National Accreditation System (SANAS).

8.1.2 The Licence Holder may use another method of analysis if approved by the Director.

8.2 WATER QUALITY MONITORING

8.2.1 Monitoring of ground and surface water quality must be conducted according to the Water Monitoring Protocol in Jones and Wagener Report JW 136/10/B196 Rev 00 or its successor as approved by Director.

8.2.2 Monitoring Boreholes where the ground water in the borehole is at an expected higher hydraulic pressure level of the ground water under the Site, shall be considered as background monitoring for ground water quality and must be conducted for each monitoring occasion as per the approved water monitoring protocol.

8.2.3 The established groundwater monitoring network for the site shall be maintained by the Licence Holder to the satisfaction of the Director, so that unobstructed sampling, as required in terms of this Licence can be undertaken.

8.2.4 Monitoring boreholes must be equipped with lockable caps. The Department and the DWS reserves the right to take water samples at any time and to analyse these samples, or to have them analysed.



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8.3 SURFACE WATER MONITORING NETWORK

8.3.1 Surface water monitoring shall be performed in the storm water drain adjacent to the Site and at locations selected in conjunctions with DWS and at such a frequency as may be determined by the Director.

8.3.2 Surface water monitoring must be conducted as specified in Report No. JW136/10/B196 Rev 00 or its successor as approved by the Director.

8.3.3 Bio-monitoring of the Mgoshongweni stream below the Site, upstream of the road crossing and before the confluence with the tributary must be conducted bi-annually.

8.4 BACKGROUND MONITORING

8.4.1 Boreholes located sufficiently up-gradient of the site rest water levels (masl) at a higher elevation than those on the site shall be considered as background monitoring boreholes.

8.4.2 Background groundwater monitoring must be conducted annually in terms of the approved water monitoring protocol for water quality variables listed in Annexure I.

8.5 DETECTION MONITORING

8.5.1 Monitoring for surface water and groundwater quality must be conducted quarterly for the variables listed in Annexure I and II.

8.5.2 Monitoring of leachate and contaminated runoff water must be conducted quarterly for the water quality variables listed in Annexure I and annually for water quality variables listed in Annexure II.

8.5.3 Leak and Failure Detection Monitoring.

8.5.3.1 The leachate detection system must be monitored as defined in the approved protocol for the occurrence of leakages, and a higher frequency of monitoring, as approved by the Director, must be initiated should a leak be suspected and/ or identified.

8.5.3.2 All pipes exposed to the leachate shall be subjected to annual testing for leaks where practical. A record must be made available on request by the Director.



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- 8.5.3.3 Inspections of liners where liners are accessible must be conducted monthly.
- 8.5.3.4 Should a leak or failure be suspected or detected during monitoring, inspections or test conducted in accordance with conditions or at any time, it must be regarded as an incident according to condition 11.1 and addressed according to condition 8.5.3.5
- 8.5.3.5 Liners must be repaired when possible, or replaced when necessary under the supervision of the Professional Registered Engineer.

8.6 INVESTIGATIVE WATER MONITORING

- 8.6.1 If, in the opinion of the Director, a water quality variable at any monitoring point listed under the detection monitoring programme, as referred to in condition 8.5.1, shows a significant increasing trend, the Licence Holder shall initiate a monthly monitoring programme for the water quality variables listed in the approved water monitoring protocol.

9. INVESTIGATIONS

- 9.1 If, in the opinion of the Director, pollution, nuisance or health risks may be or is occurring on the Site, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem.
- 9.2 Should the investigation carried out as per condition 9.1 above reveal any unacceptable levels of pollution, the Licence Holder must within 14 days submit mitigation measures to the satisfaction of the Director.

10. RECORDING

- 10.1 All records required or resulting from activities required by this Licence must:
- (a) Be legible;
 - (b) Be made as soon as reasonably practicable and should form part of the external audit report;
 - (c) If amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable; and



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(d) Be retained in accordance with documented procedures.

10.2 Records demonstrating compliance with condition 10.1 and 10.2 must be maintained for five (5) years.

11. REPORTING

11.1 The Licence Holder must, within 24 hours, notify the Director of the occurrence or detection of any incident on the Site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.

11.2 The Licence Holder must, within 14 days, or a shorter period of time, if specified by the Director, from the occurrence or detection of any incident referred to in condition 11.1, submit an action plan, which must include a detailed time schedule, and resource allocation signed off by top management, to the satisfaction of the Director of measures taken to -

- (a) Correct the impact resulting from the incident;
- (b) Prevent the incident from causing any further impact; and
- (c) Prevent a recurrence of a similar incident.

11.3 In the event that measures have not been implemented within 21 days of the incident to address impacts caused by the incident referred to in condition 11.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the Licence Holder.

11.4 The Licence Holder must keep an incident report and complaints register, which must be attached to the external audit report, and made available to the Department for audit purposes.

11.5 The Department must be notified, within 24 hours of the occurrence, in the case of the following:

- a) Any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is causing or may cause significant pollution;
- b) The breach of this Licence; and
- c) Any significant adverse environmental and health effects.



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- 10.6 The Department must be notified within 14 days of the following changes:
- a) Licence Holder's trading name, registered name or registered office address;
 - b) Particulars of the licence Holder's ultimate holding company (including details of an ultimate holding where a Licence Holder has become a subsidiary) and;
 - c) Steps taken with a view to the Licence Holder, or any one of them, going into bankruptcy, entering into composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 11.6 The water quality monitoring reports must be submitted annually to the Director. All monitoring results must be presented graphically as per minimum requirements for monitoring second edition 1998.
- 11.7 Each external audit report referred to in condition 12.2 below must be submitted to the Director within 30 days from the date on which the external auditor finalised the audit report.
- 11.8 The Licence Holder must register on the South African Waste Information System (SAWIS) as required and report quantities of waste disposed.
- 11.9 Monitoring and reporting of the operational studies and efficiency of the landfill gas extraction, treatment and flaring system on a monthly basis.
- 12 AUDITING
- 12.1 INTERNAL AUDITS
- 12.1.1 Internal audits must be conducted biannually by the Licence Holder and on each audit occasion an official report must be compiled by the relevant auditor to report the findings of the audits, which must be made available to the external auditor specified below.
- 12.2 EXTERNAL AUDITS
- 12.2.1 The Licence Holder must appoint an independent external auditor to audit the facility annually and the auditor must compile an audit report documenting the findings of the audit, which must be submitted by the Licence Holder according to condition 12.2.2 below.



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12.2.2 The audit report must:

- a) Specifically state whether conditions of this licence are adhered to;
- b) Include an interpretation of all available data and test results regarding the operation of the site and all its impacts on the environment;
- c) Specify target dates for the implementation of the recommendations by the Licence Holder to achieve compliance;
- d) Contain recommendations regarding non-compliance or potential non-compliance and must specify target dates for the implementation of the recommendations by the Licence Holder and whether corrective action taken for the previous audit non conformities was adequate.
- e) Show monitoring results graphically and conduct trend analysis.

12.3 DEPARTMENTAL AUDITS AND INSPECTIONS

12.3.1 The Department reserves the right to audit and/or inspect the Site without prior notification at any time and frequency as may be determined by the Director.

12.3.2 The Licence Holder must make any records or documentation available to the Director upon request, as well as any other information he/she may require.

13 MONITORING COMMITTEE

13.1. The Licence Holder must maintain and ensure the continued functioning of a Monitoring Committee for the normal operative lifetime of the Site, or such longer period as may be determined by the Director.

13.2. The Monitoring Committee must formulate Terms of Reference (ToR) and a code of conduct, according to the latest edition of the Environmental Monitoring Committees (EMCs), Integrated Environmental Management (IEM) Information Series 21.

13.3. The Monitoring Committee must be representative of relevant Interested and Affected Persons (I & APs) as recommended in the latest Environmental Monitoring Committees (EMCs), Integrated Environmental Management (IEM) Information Series 21.

13.4. The Monitoring Committee must meet at least once every six (6) months. The latest external audit



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report must be presented in the meetings.

- 13.5. The Licence Holder must keep minutes of all meetings of the Monitoring Committee and distribute the minutes to all members of the Monitoring Committee, including the Director within 30 days after the meeting.

14 LEASING AND ALIENATION OF THE SITE

- 14.1 Should the Licence Holder want to alienate or lease the Site, he/she must notify the Director in writing of such an intention at least 120 days prior to the said transaction for approval.
- 14.2 Should the approval be granted, the subsequent Licence Holder shall remain liable for compliance with all licence conditions.

15 TRANSFER OF WASTE MANAGEMENT LICENCE

- 15.1 Should the Licence Holder want to transfer the Licence, he/she must apply in terms of Section 52 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008)
- 15.2 Any subsequent Licence Holder shall be bound by conditions of this Licence.

16 GENERAL

- 16.1 This WML is not transferable unless such transfer is subject to condition 15.1 above.
- 16.2 This WML must not be construed as exempting the Licence Holder from compliance with the provisions of the National and Provincial Legislations and any relevant Ordinance, Regulation, By-law or relevant National Norms and Standards.
- 16.3 Transgression of any condition of this Licence may result in the Licence being withdrawn by the Department.
- 16.4 Non-compliance with a condition of this Licence may result in criminal prosecution or other actions provided for in Section 67 (1) of the National Environmental Management: Waste Act, 2008.



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- 16.5 In terms of section 28 and 30 of the NEMA and section 19 and 20 of the National Water Act No.36 of 1998, any costs incurred to remedy environmental damage must be borne by the person responsible for the damage. It is therefore imperative that the Licence Holder reads through and understands the legislative requirements pertaining to the project. It is the Applicant's responsibility to take reasonable measures which include informing and educating contractors and employees about the environmental risks of their work and training them to operate in an environmentally acceptable manner.
- 16.6 This Licence is valid for a period of ten (10) years and shall be reviewed within two (2) years from the date of issue or at any time before or after that date. Based on the results of the review, especially compliance to Licence conditions or recommendations from the audit reports and or changing legislation, the Licence could be amended or withdrawn or the validity thereof extended.

MS MISHELLE GOVENDER

CHIEF DIRECTOR: HAZARDOUS WASTE MANAGEMENT AND LICENSING

DATE:

26/03/2020



ANNEXURE I

**WATER QUALITY VARIABLES FOR BACKGROUND MONITORING, DETECTION AND
INVESTIGATIVE MONITORING: CONDITION 8.4, 8.5 AND 8.6**

Alkalinity (P.AIk)
Ammonia as N
Arsenic (As)
Boron (B)
Barium (Ba)
Cadmium (Cd)
Calcium (Ca)
Chemical Oxygen Demand (COD)
Chromium (hexavalent) (Cr⁶⁺)
Chromium (Total) (Cr)
Chloride (Cl)
Copper (Cu)
Cyanide (CN)
Electrical conductivity (EC)
Fluoride (F)
Iron (Fe)
Lead (Pb)
Magnesium (Mg)
Mercury (Hg)
Manganese (Mn)
Nitrate (as N) (NO₃ – N)
pH
Phosphate (P)
Potassium (K)
Sodium (Na)
Sulphate (SO₄)
Total dissolved solid (TDS)
Volatile Organic Hydrocarbons (VOH)



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ANNEXURE II
WATER QUALITY VARIABLES REQUIRED FOR DETECTION MONITORING: CONDITON 8.5

pH

Electrical conductivity (EC)

Chemical Oxygen Demand (COD)



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**ANNEXURE III
SITE CO-ORDINATES**

NUMBER OF CORNERS	LATITUDE	LONGITUDE
1.	29° 49' 55.02436"S	30° 44' 43.86134"E
2.	29° 49' 51.02912"S	30° 44' 58.33554"E
3.	29° 49' 50.579040"S	30° 44' 58.18729"E
4.	29° 49' 50.22845"S	30° 45' 1.535623"E
5.	29° 49' 49.60328"S	30° 45' 3.431221"E
6.	29° 49' 49.95205"S	30° 45' 3.588658"E
7.	29° 49' 49.37397"S	30° 45' 6.012679"E
8.	29° 49' 48.62365"S	30° 45' 6.812749"E
9.	29° 49' 48.84665"S	30° 45' 7.795535"E
10.	29° 49' 47.77074"S	30° 45' 10.06917"E
11.	29° 49' 47.5231"S	30° 45' 12.41711"E
12.	29° 49' 45.70736"S	30° 45' 15.39167"E
13.	29° 49' 45.96212"S	30° 45' 19.68156"E
14.	29° 49' 36.78956"S	30° 45' 15.67086"E
15.	29° 49' 31.57306"S	30° 45' 16.11306"E
16.	29° 49' 31.57089"S	30° 45' 17.5731"E
17.	29° 49' 28.67491"S	30° 45' 18.23643"E
18.	29° 49' 26.77056"S	30° 45' 18.44779"E
19.	29° 49' 18.72312"S	30° 45' 15.0465"E
20.	29° 49' 19.12145"S	30° 45' 13.2157"E
21.	29° 49' 25.78966"S	30° 45' 0.301703"E
22.	29° 49' 26.51631"S	30° 44' 58.32292"E
23.	29° 49' 26.86349"S	30° 44' 56.26871"E
24.	29° 49' 28.1069"S	30° 44' 53.98283"E
25.	29° 49' 27.97245"S	30° 44' 52.79094"E
26.	29° 49' 23.45026"S	30° 44' 51.32702"E
27.	29° 49' 25.16001"S	30° 44' 50.40798"E
28.	29° 49' 29.63443"S	30° 44' 48.27931"E



EnviroServ Waste Management (Pty) Ltd – Shongweni Waste Management Facility

29	29° 49' 31.20016"S	30° 44' 47.62543"E
30	29° 49' 32.21606"S	30° 44' 47.47872"E
31	29° 49' 33.84511"S	30° 44' 47.326"E
32	29° 49' 35.09391"S	30° 44' 47.03233"E
33	29° 49' 36.29736"S	30° 44' 46.63038"E
34	29° 49' 39.54611"S	30° 44' 45.35318"E