Information sheet for environmental audits and preliminary risk screen assessments (PRSAs)

Publication 2009 June 2021

Victoria’s audit system

An environmental audit system has operated in Victoria since 1989. The Environment Protection Act 2017 (the Act) provides for the appointment of environmental auditors. It also provides for Environment Protection Authority (EPA or the Authority) to have a system of preliminary risk screen assessments (PRSAs) and environmental audits. These are used in the planning, approval, regulation and management of activities, and in protection of human health and the environment.

Under the Act, the functions of an environmental auditor include to:

- conduct PRSAs and environmental audits
- prepare and issue PRSA statements and reports, and environmental audit statements and reports.

The purpose of a PRSA is to:

- assess the likelihood of the presence of contaminated land
- determine if an environmental audit is required
- recommend a scope for the environmental audit if an environmental audit is required.

The purpose of an environmental audit is to:

- assess the nature and extent of the risk of harm to human health or the environment from contaminated land, waste, pollution, or any activity
- recommend measures to manage the risk of harm to human health or the environment from contaminated land, waste, pollution, or any activity
- make recommendations to manage any contaminated land, waste, pollution or activity.

Upon completion, all PRSAs and environmental audits require preparation of either a PRSA statement, accompanied by a PRSA report, or an environmental audit statement, accompanied by an environmental audit report.

A person may engage an environmental auditor to conduct a PRSA or an environmental audit. EPA administers the environmental audit system and ensures an acceptable quality of environmental auditing is maintained. This is achieved by assessing auditor applications and conducting a quality assurance program. These measures ensure that PRSAs and environmental audits that environmental auditors undertake are completed in accordance with the relevant sections of the Act or any other Act, and with the guidelines the Authority or other government agencies have published.
Information sheet for environmental audits and preliminary risk screen assessments (PRSAs)

File structures
EPA stores digital statements and reports from PRSAs and environmental audits in three parts:
- Part A, the PRSA or environmental audit report
- Part B, report appendices
- Part C, the PRSA statement and executive summary or environmental audit statement and executive summary.

Report executive summaries, findings and recommendations should be read and relied upon only in the context of the whole document, including any appendices and the PRSA statement or environmental audit statement.

Currency of PRSAs and environmental audits
PRSAs and environmental audits are based on the conditions encountered and information reviewed at the time of preparation. They don't represent any changes that may have occurred since the completion date. As it's not possible for the PRSA or audit report to present all data that could be of interest to all readers, consideration should be made to any appendices or referenced documentation for further information.

When information about the site changes from what was available at the time the PRSA or environmental audit was completed, or where an administrative error is identified, an environmental auditor may amend or withdraw PRSA or environmental audit statements and/or reports. Users are advised to check EPA's website to ensure documents' currency.

PDF searchability and printing
EPA can only provide PRSAs and environmental audit statements, reports and appendices that the environmental auditor provided to EPA via the EPA portal on the EPA website.
All statements and reports should be in a Portable Document Format (PDF) and searchable; however at times some appendices may be provided as image-only PDFs, which can affect searchability.
The PDF is compatible with Adobe Acrobat Reader, which is downloadable free from Adobe's Website (www.adobe.com).

Further information
For more information on Victoria’s environmental audit system, visit EPA’s website or contact EPA’s Environmental Audit Unit.
Web: www.epa.vic.gov.au
Email: environmental.audit@epa.vic.gov.au

For languages other than English, please call 131 450.
If you need assistance because of a hearing or speech impairment, please visit relayservice.gov.au
Construction Environmental Audit - Containment Cell (Stage 1)
Sunbury Waste Management Facility 570 and 600 Sunbury Road, Bulla VIC 3428
Administrative Reference No. EA001031
Executive Summary and Environmental Audit Statement
Bulla Spoils Facility Pty Ltd

February 2022
Executive Summary

Table E1: Audit report summary

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auditor</td>
<td>John Nolan</td>
</tr>
<tr>
<td>Auditor account number</td>
<td>EXT001055</td>
</tr>
<tr>
<td>Date EPA notified of audit</td>
<td>15/04/2020</td>
</tr>
<tr>
<td>Auditor appointment end date</td>
<td>07/02/2024</td>
</tr>
<tr>
<td>Environment audit reference</td>
<td>EA001031</td>
</tr>
<tr>
<td>Name of person requesting audit</td>
<td>Anthony Ko</td>
</tr>
<tr>
<td>Relationship of person requesting audit to site</td>
<td>Representative of Bulla Spoil Facility Pty Ltd</td>
</tr>
<tr>
<td></td>
<td>Bulla Spoil Facility leases the site from Hi Quality Products Pty Ltd</td>
</tr>
<tr>
<td>Name of site owner</td>
<td>Hi Quality Products Pty Ltd</td>
</tr>
<tr>
<td>Date of auditor engagement</td>
<td>26/07/2021</td>
</tr>
<tr>
<td>Completion date of the audit</td>
<td>21/02/2022</td>
</tr>
<tr>
<td>Reason for audit</td>
<td>Voluntary undertaking</td>
</tr>
<tr>
<td>Environments of environment assessed</td>
<td>Ambient air, land and water</td>
</tr>
<tr>
<td>Planning permit number or requirement detail if applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>EPA region</td>
<td>Metropolitan</td>
</tr>
<tr>
<td>Municipality</td>
<td>Hume City Council</td>
</tr>
<tr>
<td>Dominant – Lot on plan</td>
<td>Lot 1 on Plan of Subdivision 645017K</td>
</tr>
<tr>
<td>Additional – Lot on plan</td>
<td>Lot 3 on Plan of Subdivision 645017K</td>
</tr>
<tr>
<td>Site/premises name</td>
<td>Sunbury Waste Management Facility</td>
</tr>
<tr>
<td>Street / Lot – Lower No.</td>
<td>570 and 600</td>
</tr>
<tr>
<td>Street Name</td>
<td>Sunbury</td>
</tr>
<tr>
<td>Street type (road, court, etc.)</td>
<td>Road</td>
</tr>
<tr>
<td>Suburb</td>
<td>Bulla</td>
</tr>
<tr>
<td>Postcode</td>
<td>3428</td>
</tr>
<tr>
<td>Site area (in square metres)</td>
<td>80,000 m²</td>
</tr>
</tbody>
</table>
| Members and categories of support team utilised | The Auditor sought landfill design and geotechnical (main bund) advice from: |}
|                                           | ▪ Leo Reid, landfill design                                                |
|                                           | ▪ Dr. Gavan Hunter, geotechnical                                           |
| Further work or requirements              | Recommendations are included in Table E-3 below                            |
| Nature and extent of continuing risk      | Not applicable                                                              |
Outcome of the environmental audit report

Construction of Containment Cell (Stage 1) excluding:
- proposed extent of LLDPE geomembrane
- proposed extent of HDPE geomembrane where additional protection geotextile and smaller sized drainage aggregate is to be placed

was in accordance with the intent of the EPA approved design documents, and the major and minor variations and procedural non-conformances, and subject to complying with the recommendations would not result in an increase in the risk of harm to the surrounding environment than that approved by the EPA.

Land use suitability

The land is suitable for the intended use subject to compliance with the recommendations

Has groundwater clean-up been undertaken as far as reasonably practicable?

Not applicable

Does groundwater contamination remain at the site and is the site the source?

No

If groundwater contamination remains, does it extend off-site?

No

Is a GQRUZ recommended?

No

If applicable, please indicate which of the following are threatened environmental values of groundwater

Not applicable

Is ongoing groundwater monitoring required?

Yes, as per the Hi-Quality Products Pty Ltd, Sunbury Waste Management Facility Environmental Management Plan, prepared by GHD dated March 2021

Is ongoing vapour/gas monitoring required

N/A. Gas monitoring undertaken by Hi Quality Products as part of verified monitoring program for landfill operations

Are vapour/gas mitigation measures required

No

List any other ongoing management requirements if applicable

Recommendations (Table E-3).

Table E-2: Physical site information

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current EPA Permission/s and related Permission ID if applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Historic land use</td>
<td>Farming and open grazing</td>
</tr>
<tr>
<td>Current land use</td>
<td>Construction of Containment Cell (Stage 1)</td>
</tr>
<tr>
<td>Proposed land use</td>
<td>Sunbury Waste Management Facility – Containment Cell (Stage 1)</td>
</tr>
<tr>
<td>Current land use zoning</td>
<td>Majority - Special Use Schedule 1 (SUZ1), northern portion Minor - Urban Growth Zone Schedule 9 (UGZ9), southern portion</td>
</tr>
</tbody>
</table>
### Proposed land use zoning
No change from current. Hume Planning Scheme Amendment C248Hume introduces the incorporated document "Bulla Spoil Processing, March 2021" into the Hume Planning Scheme to facilitate the use and development of the site for the purposes of a spoil processing and disposal facility associated with the West Gate Tunnel Project.

### Surrounding land use – north
Hi Quality operations including landfill, waste resource recovery facility, quarry, receipt and use of clean fill and receipt and treatment of acid sulphate soil. Organic processing facility to north-east.

### Surrounding land use – south
Farmland and open grazing within High Quality property, Sunbury Road to its south. UGZ9 zone to south of Sunbury Road.

### Surrounding land use – east
Farmland and open grazing. Zoned Green Wedge (GWZ). Bulla Tip and Quarry - about 1 km south-east of the site. Melbourne Airport - about 8 km south-east of the site.

### Surrounding land use – west
Farmland and open grazing. Urban Growth Zone Schedule 9 (UGZ9). Sunbury Golf Range - about 1 km west of the site. Goonawarra Public Golf course - about 2.5 km north-west of site.

Has EPA been notified about the site under Section 40 of the Environment Protection Act 2017?
No

Nearest surface water receptor - name
Emu Creek

Nearest surface water receptor – direction
Emu Creek – north-north-east

Likely point of groundwater discharge
Port Phillip Bay and Emu Creek

Site aquifer formation
Older Volcanic aquifer undertaken by the Werribee Formation aquifer which overlies bedrock aquifers

Groundwater flow direction
North-east

Groundwater TDS range (mg/L)
- 4,000 to 4,300 mg/L (Older Volcanics)
- 1,500 to 2,700 mg/L (Werribee Formation)
- 2,000 mg/L (Bedrock)

Groundwater segment
Segment B

Are there multiple aquifers impacted by pollution at the site
No

Perched groundwater depth – upper (metres below ground level (mbgl))
>6

Perched groundwater depth – lower (mbgl)
>6

Regional groundwater depth – upper (mbgl)
20

Regional groundwater depth – lower (mbgl)
41

Number of bores within 2 km
Nine
Audit Recommendations

The Auditor has prepared recommendations with assigned priorities (Table E-3).

Table E-3: Audit recommendations

<table>
<thead>
<tr>
<th>No</th>
<th>Recommendation</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intention</td>
<td>Medium</td>
</tr>
<tr>
<td></td>
<td>Each lift of the soil protection layer is subject to an addendum audit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Measurable outcome</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Each lift of the soil protection layer meets the requirements of the Technical Specification and CQA Plan.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Measure</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The following must be submitted to the Auditor for verification:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ work method statement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ particle size density testing undertaken at a frequency of 3 tests per source</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ photographic evidence of each lift placed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ as-built survey</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ calculations to demonstrate that the protection soil is sufficient for free leachate drainage to the leachate collection system (if not, amend design with a higher permeability material or drainage pipes down the side wall).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Every third lift must be inspected by the Auditor.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Each lift must be subject to an addendum audit which must submitted and accepted by the EPA.</td>
<td></td>
</tr>
</tbody>
</table>

| 2  | Intention      | High     |
|    | The replacement of the section of HDPE geomembrane with LLDPE geomembrane and use of reduced aggregate size and increased protection geotextile as per Sketch 12522193-SK001 (Rev. B) of Major Variation #3 is subject to an addendum audit which must be completed prior to placement of dewatered tunnel spoil adjacent these areas. |          |
|    | **Measurable outcome** |          |
|    | Dewatered waste spoil is not placed in these areas until conditions associated with EPA acceptance of Major Variation Request #3 are met and the addendum audit is submitted and accepted by the EPA. |          |
|    | **Measure**    |          |
|    | Conditions associated with EPA acceptance of Major Variation Request #3 must be met as a precondition for the addendum audit. |          |
|    | The addendum audit must submitted and accepted by the EPA. |          |

<p>| 3  | Intention      | High     |
|    | Each lift of the leachate riser is subject to an addendum audit. |          |
|    | <strong>Measurable outcome</strong> |          |
|    | Each lift of the leachate riser meets the requirements of the amended Technical Specification and amended CQA Plan for ITP02. |          |
|    | <strong>Measure</strong>    |          |</p>
<table>
<thead>
<tr>
<th>No</th>
<th>Recommendation</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>In advance of the dewatered tunnel spoil, each leachate riser lift must be placed, surveyed for level, pump reinstalled and measuring device reinstalled. Every third lift must be inspected by the Auditor. Each lift must be subject to an addendum audit which must submitted and accepted by the EPA.</td>
<td>High</td>
</tr>
<tr>
<td>5</td>
<td>Avoid clean stormwater entering Containment Cell (Stage 1). Stormwater management plan is finalised and stormwater management system constructed in accordance with plan. Prior to accepting dewatered tunnel spoil the stormwater management plan must be finalised, endorsed by the Auditor, and in place.</td>
<td>High</td>
</tr>
<tr>
<td>6</td>
<td>Drainage aggregate is in accordance with Technical Specification, CQA Plan and drawing, underlying geomembrane does not leak and separation geotextile is in place. The relevant requirements of the Technical Specification and CQA Plan are met.</td>
<td>High</td>
</tr>
<tr>
<td>7</td>
<td>Filling in accordance with Technical Specification (Section 11) and not to extend to main bund until repairs completed and addendum audit submitted and accepted by the EPA. Completed waste filling plan approved by the Auditor.</td>
<td>High</td>
</tr>
<tr>
<td>7</td>
<td>To be able to check maximum leachate levels are not exceeded at the riser. A permanent depth monitoring device is in place in the leachate sump’s riser.</td>
<td>High</td>
</tr>
</tbody>
</table>

Prior to accepting dewatered tunnel spoil a permanent depth monitoring device must be placed within the leachate sump’s riser at least 150 mm below the maximum leachate level and be surveyed to Australian Height Datum.
No | Recommendation | Priority
---|----------------|-------
8 | Intention | High |

To be capable of monitoring settlement and stain on the main bund’s lining system, and to initiate mitigation measures to reduce risk to an acceptable level if required.

**Measurable outcome**

An updated Instrumentation Plan that reflects the Auditor’s recommendation in the Major Variation Request #3 endorsement and the EPAs acceptance of this request.

**Measure**

Prior to accepting dewatered tunnel spoil, the Instrumentation Plan must be updated in accordance with the Auditor’s recommendation in the Major Variation Request #3 endorsement and the EPAs acceptance of this request.

This executive summary must be read in conjunction with this entire audit report and must not be taken out of the entire report context.
Environmental audit statement
Under Part 8.3 of the Environment Protection Act 2017
Publication F1032 published September 2021

This statement is a summary of the findings of an environmental audit conducted under Part 8.3 of the Environment Protection Act 2017 for:

**Containment Cell (Stage 1) – 570 and 600 Sunbury Road, Bulla VIC 3428**

Further details are provided in the environmental audit report that accompanies this statement.

## Section 1: Environmental audit overview

<table>
<thead>
<tr>
<th>Environmental audit ID number:</th>
<th>EA001031</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental auditor details</td>
<td></td>
</tr>
<tr>
<td>Name:</td>
<td>John Nolan</td>
</tr>
<tr>
<td>Company:</td>
<td>Nolan Consulting Pty Ltd</td>
</tr>
<tr>
<td>Address:</td>
<td>31 Knox Drive, Barwon Heads, Vic, 3227</td>
</tr>
<tr>
<td>Phone:</td>
<td>0410 099-314</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:john.nolan@nolan-consulting.com.au">john.nolan@nolan-consulting.com.au</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site owner/occupant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
</tr>
<tr>
<td>Company:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental auditor engaged by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
</tr>
<tr>
<td>Company:</td>
</tr>
<tr>
<td>Relationship to site owner:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason for the environmental audit</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Requirement under the Planning and Environment Act 1987 (e.g. planning permit)</td>
</tr>
<tr>
<td>☐ Requirement under the Environment Protection Act 2017 (e.g. remedial notice or licence)</td>
</tr>
<tr>
<td>☐ Requirement under other legislation</td>
</tr>
</tbody>
</table>
| ☒ Other  
  Voluntary |
Environmental audit statement

Section 2: Environmental audit scope

Details of the site in respect of which the environmental audit was conducted

<table>
<thead>
<tr>
<th>Site/premises name</th>
<th>Sunbury Waste Management Facility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>570 and 600 Sunbury Road, Bulla VIC 3428</td>
</tr>
<tr>
<td>Title details</td>
<td>Containment Cell (Stage 1)</td>
</tr>
<tr>
<td>Area (hectares)</td>
<td>8</td>
</tr>
<tr>
<td>☑ a plan of the site is attached</td>
<td></td>
</tr>
</tbody>
</table>

Details of the activity in respect of which the environmental audit was conducted

<table>
<thead>
<tr>
<th>Activity</th>
<th>Construction of Containment Cell (Stage 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components of the activity:</td>
<td>Subgrade, select fill, GCL, CCL, geomembrane, geotextiles, drainage aggregate and leachate collection system including sump and riser</td>
</tr>
<tr>
<td>Site/premises name</td>
<td>Sunbury Waste Management Facility - Containment Cell (Stage 1)</td>
</tr>
<tr>
<td>Address where activity is undertaken</td>
<td>570 and 600 Sunbury Road</td>
</tr>
<tr>
<td>Geographical extent considered in relation to the activity:</td>
<td>See plan of Containment Cell (Stage 1) - attached</td>
</tr>
</tbody>
</table>

Elements of the environment assessed in the environmental audit

☒ Ambient air
  ☑ all environmental values were considered
  ☐ all environmental values other than the following were considered:

☐ Ambient sound
  ☐ all environmental values were considered
  ☑ all environmental values other than the following were considered:
    No ambient sound environmental values were considered. See exclusions below.

☒ Land
  ☐ all environmental values that apply to the land use category were considered
  ☑ all environmental values that apply to the land use category, other than the following, were considered:
    Buildings and structures. See exclusions below.

☒ Water
  ☑ Surface water
    ☑ all environmental values that apply to the applicable segment were considered OR
    ☐ all environmental values that apply to the applicable segment, other than the following, were considered:

☒ Groundwater
  ☑ all environmental values that apply to the applicable segment were considered OR
  ☐ all environmental values that apply to the applicable segment, other than the following, were considered:
Environmental audit statement

Standards and reference documents considered

- Environment Protection (Management of Tunnel Boring Machine Spoil) Regulations 2020
- Environment Protection Act 2017
- Environment Protection Regulations 2021
- Environment Reference Standard 2021
- EPA-approved Technical Specification and CQA Plan
- EPA approval for major variations
- EPA requirements specified in the Environmental Management Plan approval letter
- Best practice environmental management — Siting, design, operation and rehabilitation of landfills,
  EPA Publication 788.3
- Any other publications deemed relevant by the environmental auditor.

Assumptions made during the environmental audit or any limitations

- Environmental value - Land (Building) as buildings not proposed within activity area and basements not on site.
- Environmental value - Ambient sound as addressed in EMP.
- Community/stakeholder involvement as addressed in EMP.

Exclusions from the environmental audit and the rationale for these

This statement is accompanied by the following environmental audit report:

<table>
<thead>
<tr>
<th>Title:</th>
<th>Construction Environmental Audit - Containment Cell (Stage 1), Sunbury Waste Management Facility 570-650 Sunbury Road, Bulla VIC 3428 Administrative Reference No. EA001031</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report no:</td>
<td>EA001031</td>
</tr>
<tr>
<td>Date:</td>
<td>21 February 2022</td>
</tr>
</tbody>
</table>
Environmental audit statement

Section 3: Results and recommendations of the environmental audit

Results of the environmental audit

Based on my assessment of the risk of harm to human health or the environment from the construction of the Containment Cell (Stage 1), I conclude that construction was in accordance with the intent of the EPA approved design documents and the major and minor variations and procedural non-conformances and if the recommendations are complied with would not result in an increase in the risk of harm than that approved by the EPA (excluding the proposed extent of LLDPE geomembrane and the proposed extent of HDPE geomembrane where additional protection geotextile and smaller sized drainage aggregate is to be placed and subject to an addendum audit).

Recommendations

<table>
<thead>
<tr>
<th>No</th>
<th>Recommendation</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intention</td>
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<tr>
<td></td>
<td>Each lift of the soil protection layer is subject to an addendum to the audit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Measurable outcome</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Each lift of the soil protection layer meets the requirements of the Technical Specification and CQA Plan.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Measure</strong></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td>Every third lift must be inspected by the Auditor.</td>
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<td></td>
<td>Each lift must be subject to an addendum to the audit which must submitted and accepted by the EPA.</td>
<td></td>
</tr>
</tbody>
</table>

| 2  | Intention      | High     |
|    | The replacement of the section of HDPE geomembrane with LLDPE geomembrane and use of reduced aggregate size and increased protection geotextile as per Sketch 12522193-SK001 (Rev. B) of Major Variation #3 is subject to an addendum audit which must be completed prior to placement of dewatered tunnel spoil adjacent these areas. |          |
|    | **Measurable outcome** |          |
|    | Dewatered waste spoil is not placed in these areas until conditions associated with EPA acceptance of Major Variation Request #3 are met and the addendum to the audit is submitted and accepted by the EPA. |          |
|    | **Measure**    |          |
|    | Conditions associated with EPA acceptance of Major Variation Request #3 must be met as a precondition for the addendum to the audit. |          |
|    | The addendum to the audit must submitted and accepted by the EPA. |          |

| 3  | Intention      | High     |
|    | Each lift of the leachate riser is subject to an addendum to the audit. |          |
|    | **Measurable outcome** |          |
|    | Each lift of the leachate riser meets the requirements of the amended Technical Specification and amended CQA Plan for ITP02. |          |
## Environmental audit statement

<table>
<thead>
<tr>
<th>No</th>
<th>Recommendation</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measure</strong></td>
<td>In advance of the dewatered tunnel spoil, each leachate riser lift must be placed, surveyed for level, pump reinstalled and measuring device reinstalled. Every third lift must be inspected by the Auditor. Each lift must be subject to an addendum to the audit which must submitted and accepted by the EPA.</td>
<td></td>
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<tr>
<td>4</td>
<td><strong>Intention</strong> Avoid clean stormwater entering Containment Cell (Stage 1). <strong>Measurable outcome</strong> Stormwater management plan is finalised and stormwater management system constructed in accordance with plan. <strong>Measure</strong> Prior to accepting dewatered tunnel spoil the stormwater management plan must be finalised, endorsed by the Auditor, and in place.</td>
<td>High</td>
</tr>
</tbody>
</table>
| 5 | **Intention** Drainage aggregate is in accordance with Technical Specification, CQA Plan and drawing, underlying geomembrane does not leak and separation geotextile is in place. **Measurable outcome** The relevant requirements of the Technical Specification and CQA Plan are met. **Measure** Prior to accepting dewatered tunnel spoil, after the 1m thick ramp/finger drainage aggregate extending from the intersection of the internal bund and the western bund across, bisecting the cell is removed the following must occur:  
- a dipole leak location survey is undertaken over this area  
- the top of aggregate level is resurveyed and must demonstrate the tolerance range specified in Section 2.8.2 of the Technical Specification is satisfied  
- the separation geotextile is laced in accordance with an Auditor approved Work Method Statement and proposed panel layout plan  
- the above works are undertaken in accordance with the CQA Plan ITP02/Item 6, ITP07/Items 2 and 6, and ITP10 Items 1 to 4. | High |
| 6 | **Intention** Filling in accordance with Technical Specification (Section 11) and not to extend to main bund until repairs completed and addendum audit submitted and accepted by the EPA. **Measurable outcome** Completed waste filling plan approved by the EPA. **Measure** Prior to accepting dewatered tunnel spoil, a waste filling plan must be prepared and submitted to the Auditor for approval. The filling plan must stipulate that fill not be placed on areas as shown in Sketch 12522193-SK001 (Rev. B) of Major Variation #3 until conditions associated with the EPA acceptance of Major Variation Request #3 are met and the addendum audit is submitted and accepted by the EPA. | High |
| 7 | **Intention** To be able to check maximum leachate levels are not exceeded at the riser. **Measurable outcome** A permanent depth monitoring device is in place in the leachate sump’s riser. **Measure**  | High |
Environmental audit statement

<table>
<thead>
<tr>
<th>No</th>
<th>Recommendation</th>
<th>Priority</th>
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<tbody>
<tr>
<td>8</td>
<td>Prior to accepting dewatered tunnel spoil a permanent depth monitoring device must be placed within the leachate sump’s riser at least 150 mm below the maximum leachate level and be surveyed to Australian Height Datum.</td>
<td>High</td>
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</table>

**Intention**
To be capable of monitoring settlement and stain on the main bund’s lining system, and to initiate mitigation measures to reduce risk to an acceptable level if required.

**Measurable outcome**
An updated Instrumentation Plan that reflects the Auditor’s recommendation in the Major Variation Request #3 endorsement and the EPAs acceptance of this request.

**Measure**
Prior to accepting dewatered tunnel spoil, the Instrumentation Plan must be updated in accordance with the Auditor’s recommendation in the Major Variation Request #3 endorsement and the EPAs acceptance of this request.

Other related information
Nil

**Section 4: Environmental auditor’s declaration**
I state that:

- I am appointed as an environmental auditor by the Environment Protection Authority Victoria under the Environment Protection Act 2017.
- The information contained in this statement represents a true and accurate summary of the findings of the environmental audit that I have completed.

Date: 21 February 2022
Signed: John Nolan
Name: Environmental Auditor
1. Proprietary Information.

2. All work and information is subject to the terms of the construction contract.

3. All works not referred to herein are the responsibility of the Principal Contractor.

4. No construction work is to commence on site until the approval of the Principal Engineer in writing.

5. All works not specified herein are subject to the terms and conditions of the construction contract.

6. No construction work is to commence on site until the approval of the Principal Engineer in writing.

7. All works not referred to herein are subject to the terms and conditions of the construction contract.

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Conditions of Use:

1. This plan is for the use of Sunbury Waste Management Facility only and shall not be reproduced in any other way or by any other person.
2. It is not to be used for Construction unless otherwise signed as Approved.
3. The Construction Director shall have the right to stop any construction work which is in contravention of this plan.
4. The Principal shall be notified if unforeseen conditions are found.
5. The Principal is to be notified if any work is performed which is not in accordance with this plan.

Notes:

1. It is the responsibility of the Contractor to implement erosion controls as required to ensure the safety of the construction works.
2. The Contractor is to implement stormwater control measures as required.
3. The Contractor is to implement groundwater control measures as required.
4. The Contractor is to implement decommissioning measures as required.
5. The Contractor is to implement access track measures as required.
6. The Contractor is to implement leachate collection pipe measures as required.
7. The Contractor is to implement leachate collection measures as required.
8. The Contractor is to implement trenching measures as required.
9. The Contractor is to implement infill of surface water into containment cell.

Legend:

- Extent of Works
- Minor Leachate Collection Pipe
- Major Leachate Collection Pipe
- Cell Wall Liner (Existing)
- Cell Wall Liner
- General Liner
- Proposed Stormwater Flow Path - Stage 1
- Proposed Stormwater Flow Path - Stage 2

Scale 1:2000
NOTES:

1. VERTICAL HEIGHT BETWEEN BENCHES ON OUTER BATTER OF PERIMETER BUND FOR STAGE 2 AND 3 SHALL BE NO MORE THAN 10 METRES HIGH. BENCHES SHALL BE 5 METRES WIDE. CONTRACTOR SHALL CONSTRUCT ADDITIONAL BENCHES AS REQUIRED.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF EROSION PROTECTION FOR EXTERNAL BATTERS OF THE PERIMETER BUND.