

# Review of Environmental Factors Addendum

## NST Wet Well Desilting – Extended Silt Bin Storage

### 1 Determination

This Review of Environmental Factors Addendum (REFA) assesses potential environmental impacts of increasing duration of silt bin storage and was prepared under Division 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act), with Sydney Water both the proponent and determining authority.

The Sydney Water Project Manager is accountable for ensuring the proposal is carried out as described in this REFA and the Northside Storage Tunnel Wet Well Desilting and Decline Tunnel Rehabilitation August/September 2023 (approved REF). Additional environmental impact assessment may be required if the scope of work or work methods described in this REFA change significantly following determination.



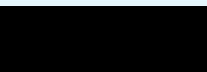

#### Decision Statement

During construction, the main potential environmental impacts of the proposal are typical construction impacts such as traffic and odour. No additional impacts are anticipated during operation. The proposal will not be carried out in a declared area of outstanding biodiversity value and is not likely to significantly affect threatened species, populations or ecological communities, or their habitats. Therefore, a Species Impact Statement (SIS) or Biodiversity Development Assessment Report (BDAR) is not required.

Given the nature, scale and extent of impacts and implementation of the mitigation measures outlined in this REFA and the approved REF, the proposed work is unlikely to have a significant impact on the environment. Therefore, we do not require an Environmental Impact Statement (EIS) and the proposal may proceed.

#### Certification

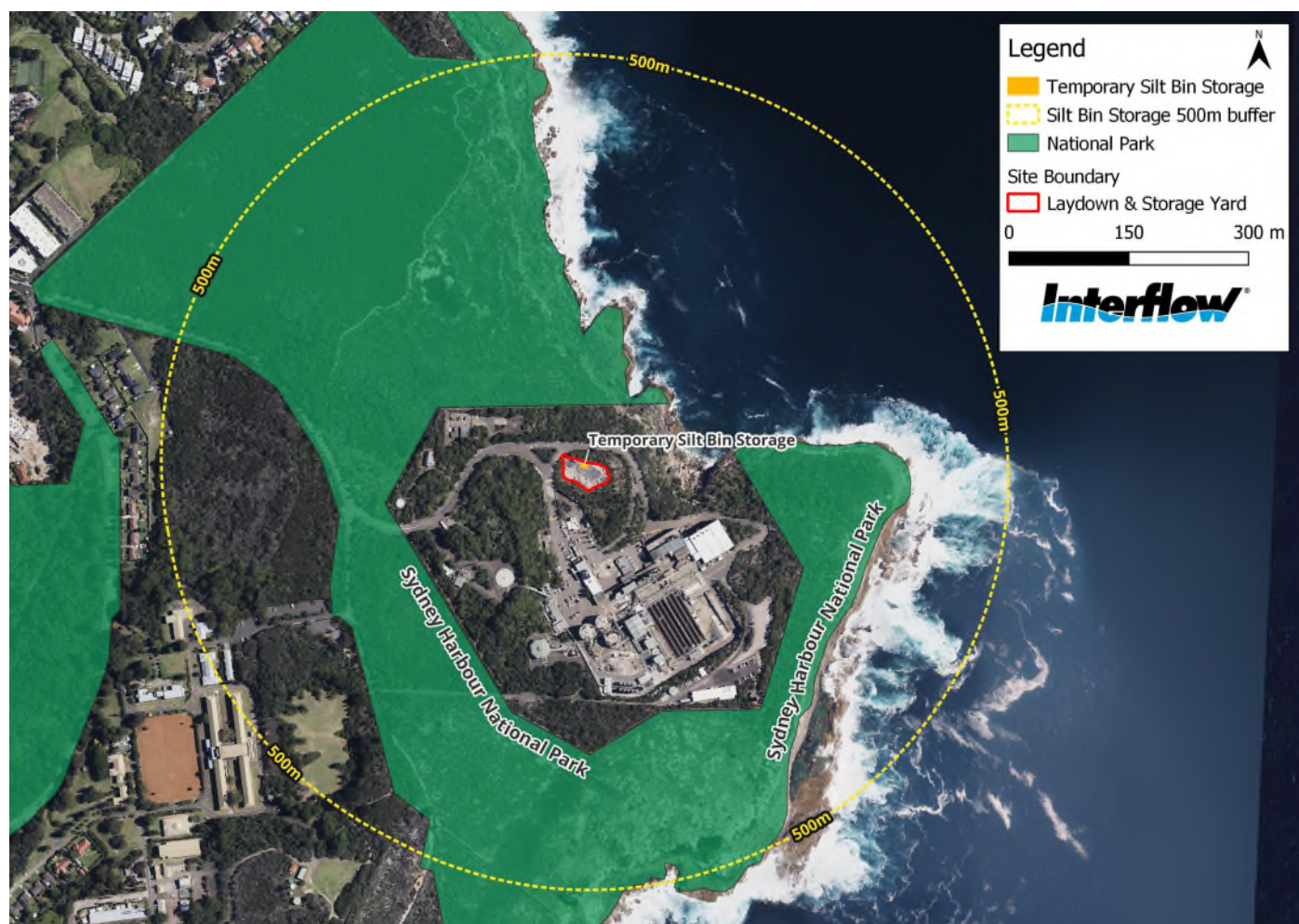
I certify that I have reviewed and endorsed this REFA and, to the best of my knowledge, it is in accordance with the EP&A Act and the Environmental Planning and Assessment Regulations (EP&A Regulation). The proposal has been considered against matters listed in section 171 (Appendix A) and the guidelines approved under section 170 of the EP&A Regulation and the information it contains is neither false nor misleading.

Prepared by:	Reviewed by:	Endorsed by:	Approved by:
 Jacob Reid Environmental Business Partner Interflow Pty Ltd Date: 06/06/2024	 John Eames Snr Environmental Scientist Water and Environment Sydney Water Date: 11/06/2024	 Jordan Mulhearn P/Project Manager Program Delivery Sydney Water Date: 12/6/2024	 Murray Johnson Environment and Heritage Manager Sydney Water Date: 20/06/24

## 2 Proposal Summary

Aspect	Detailed description
Proposal location	The works are located at the North Head Waste Resource Recovery Facility (WRRF) ST0020, Lot 1 DP604428, in the Northern Beaches local government area.
Approved REF	Northside Storage Tunnel Wet Well Desilting and Decline Tunnel Rehabilitation August/September 2023
Proposal scope	The NSOOS rehabilitation program involves desilting and rehabilitation of the rock lined NSOOS tunnel. Wastewater flows within the NSOOS are being diverted to the NST to enable these works. Due to this wastewater diversion the NST Wet Well has filled with silt and debris. This requires removal to ensure continued operation of the NST and to provide continued capacity for the diversion needed by the NSOOS rehabilitation project.
Proposal change	<p>To facilitate desilting works, it is necessary to store silt bins above ground for more than 24 hours. However, this requirement conflicts with the REF mitigation measure which states potential odours must be minimised by ensuring silt and debris are stored for less than 24 hours in sealed and covered skip bins on a ventilated site above ground.</p> <p>Under the following circumstances, greater than 24 hour limit will be allowed:</p> <ul style="list-style-type: none"><li>• Desilting activities conducted on Fridays require storage of silt bins over the weekend.</li><li>• Disposal operations can be delayed during public holidays.</li><li>• Breakdowns of essential equipment, such as hook trucks, can create backlogs and silt bins may require longer on-site storage.</li><li>• Landfill closures due to rainfall can delay silt bin disposal.</li></ul> <p>The contractor commits to disposing of dewatered silt as soon as is reasonably practicable.</p>
Justification for proposal change	<p>The proposed change is required to facilitate efficient operation of desilting works in the circumstances described in the proposal change above, if the 24 hour limit cannot be achieved. By allowing the storage of silt bins above ground for longer than 24 hours, delays in desilting operations can be minimised.</p> <p>The potential impacts of additional storage time are limited as the storage area is set away from sensitive receivers within the boundary for the WRRF. In addition, this Addendum proposes additional mitigation measures (section 5) to maintain the intent of the original mitigation while accommodating the practical needs of the desilting operations.</p>

Figure 1 Proposal change



### 3 Consultation

Proposal will be incorporated into any consultation when contacting stakeholders listed in the REF.

### 4 Legislative consideration

There are no additional legislative requirements above those already assessed in the approved REF.

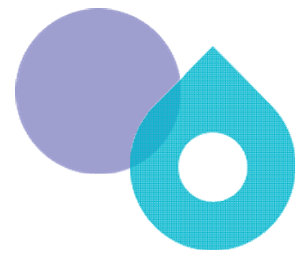
### 5 Additional environmental impacts and mitigation measures

The table below lists the additional environmental impacts that could result from the proposed change compared to the approved REF and the additional mitigation measures. All other environmental impacts and mitigation measures identified in the approved REF remain the same and will be incorporated into the contractor's CEMP.

Environmental impacts table		
Aspect	Additional impacts	Additional mitigation measures
Air and energy	Longer potential exposure time for extracted silt to emit odours gasses such as H <sub>2</sub> S into the environment, as bins will be stored for longer than 24 hours. No emissions to air are anticipated, however additional monitoring and silt bin testing is proposed and any additional impacts identified will require further assessment.	<ul style="list-style-type: none"><li>• Trialling storage of silt bins above ground over a weekend, with H<sub>2</sub>S monitoring within the laydown yard area to determine any additional impacts of this change (and additional monitoring for background H<sub>2</sub>S at the WRRF).</li><li>• Weekly silt bin condition inspection</li><li>• Inspection and cleaning of silt bin seals prior to use</li></ul>

### 6 Conclusion

This REFA outlines potential environmental impacts associated with the increased duration of silt bin storage as part of the Northside Storage Tunnel Wet Well Desilting and Decline Tunnel Rehabilitation REF. Any additional environmental impacts are considered negligible and potential impacts can be mitigated through implementation of the measures outlined in this REFA and the approved REF. The proposal is not likely to significantly impact the environment.



## **Appendix A – Section 171 checklist**

There are no requirements in addition to those considered in the approved REF.





## Appendix B – Consideration of TISEPP consultation

TISEPP section	Yes	No
<b>Section 2.10, council related infrastructure or services – consultation with council</b>		
Will the work:		
Potentially have a substantial impact on stormwater management services provided by council?		N
Be likely to generate traffic that will strain the capacity of the road system in the LGA?		N
Connect to, and have a substantial impact on, the capacity of a council owned sewerage system?		N
Connect to, and use of a substantial volume of water from a council owned water supply system?		N
Require temporary structures on, or enclose, a public space under council's control that will disrupt pedestrian or vehicular traffic that is not minor or inconsequential?		N
Excavate a road or a footpath adjacent to, a road for which the council is the roads authority that is not minor or inconsequential?		N
<b>Section 2.11, local heritage – consultation with council</b>		
Is the work likely to affect the heritage significance of a local heritage item, or of a heritage conservation area (not also a State heritage item) more than a minor or inconsequential amount?		N
<b>Section 2.12, flood liable land – consultation with council</b>		
Will the work be on flood liable land ( land that is susceptible to flooding by the probable maximum flood event) and will works alter flood patterns other than to a minor extent?		N
<b>Section 2.13, flood liable land – consultation with State Emergency Services</b>		
Will the work be on flood liable land (land that is susceptible to flooding by the probable maximum flood event) and undertaken under a relevant provision*, but not the carrying out of minor alterations or additions to, or the demolition of, a building, emergency works or routine maintenance? * (e) Div.14 (Public admin buildings), (g) Div. 16 (Research/ monitoring stations), (i) Div. 20 (Stormwater systems)?		N
<b>Section 2.14, development with impacts on certain land within the coastal zone– council consultation</b>		
Is the work on land mapped as coastal vulnerability area and inconsistent with a certified coastal management program?		N
<b>Section 2.15, consultation with public authorities other than councils</b>		
Will the proposal be on land adjacent to land reserved under the <i>National Parks and Wildlife Act 1974</i> or to land acquired under Part 11 of that Act? <i>If so, consult with DPIE (NPWS).</i>		N
Will the proposal be on land in Zone E1 National Parks and Nature Reserves or on a land use zone that is equivalent to that zone? <i>If so, consult with DPIE (NPWS)</i>		N
Will the proposal include a fixed or floating structure in or over navigable waters? <i>If so, consult TfNSW</i>		N
Will the proposal be on land in a mine subsidence district within the meaning of the <i>Coal Mine Subsidence Compensation Act 2017</i> ? <i>If so, consult with Subsidence Advisory NSW.</i>		N
Will the proposal be on land in a Western City operational area specified in <i>the Western Parkland City Authority Act 2018</i> , Schedule 2 and have a capital investment value of \$30 million or more? <i>If so, consult the Western Parkland City Authority.</i>		N
Will the proposal clear native vegetation on land that is not subject land (ie non-certified land)? <i>If so, notify DPIE at least 21 days prior to work commencing. (Requirement under s3.24 Chapter 3 Sydney Region Growth Centres - of the SEPP (Precincts – Central River City) 2021).</i>		N

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