

Review of Environmental Factors

Multi-program - Category B

SP0041 rising main relining, Stage 2 and Stage 4A works, North Strathfield.

1 Determination

This Review of Environmental Factors Multiprogram - Category B (Category B REF) is to be read in conjunction with the Review of Environmental Factors Multi-program pipeline and related infrastructure replacement, repair and upgrades (Multi-program REF) (May 2023). Together both documents assess the potential environmental impacts of SP0041 rising main relining, Stage 2 and Stage 4A works, North Strathfield. These documents were 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 Category B REF and Multi-program REF. Additional environmental impact assessment may be required if the scope of work or work methods described in either the Multi-program REF or this Category B REF change significantly following determination.

Decision Statement

The main potential construction environmental impacts of the proposal include vegetation removal, disturbance of contaminated soils, traffic, access and noise. The proposal will result in positive operational impacts, as it aims to improve wastewater system performance. 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) and/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 Category B REF and the Multi-program REF, the proposal 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

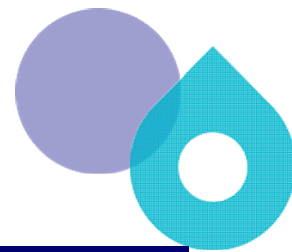
I certify that I have reviewed and endorsed this REF and, to the best of my knowledge, it is in accordance with the EP&A Act and the Environmental Planning and Assessment Regulation 2021 (EP&A Regulation). The proposal has been considered against matters listed in section 171 (**Appendix A**) and the guidelines approved under section 170 of the EP&A Regulation. The information it contains is neither false nor misleading.

Prepared by:	Reviewed by:	Endorsed by:	Approved by:
Alexandra Northam Sydney Water Date: 21/05/2025	Sarah Mitchell Senior Environmental Scientist, Sydney Water Date: 28/05/2025	Haydn Chellew Project Manager, Sydney Water Date: 28/05/2025	Murray Johnson Senior Manager Environment and Heritage Sydney Water Date: 28/05/2025

2 Proposal Summary

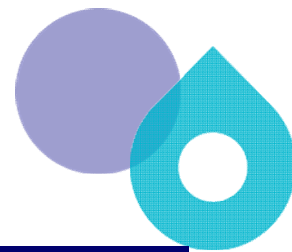
Table 1 Description of proposal

Aspect	Detailed description
Location	<p>The proposal is located within the suburb of North Strathfield in Strathfield Local Government Area (LGA).</p> <p>Stage 2 works</p> <p>A portion of SP0041 pressure main (PM)1 is being relined between:</p> <ul style="list-style-type: none">• Site 1: launch pit located on Sydney Water land (2/-/DP549147) and Crown Land (Public Reserve) adjacent to 15 Lemnos Street, North Strathfield (1/-/DP204518)• Site 2: retrieval pit located within Arnotts Reserve, which is both Public Reserve (2/-/DP1002876) and Occupied Land (6/-/DP15561 and 5A/-/DP15561). <p>Stage 4A works</p> <p>A portion of SP0041 PM1 is being relined as a part of the Stage 4A works, between:</p> <ul style="list-style-type: none">• Site 2: launch pit located within Arnotts Reserve, which is both Public Reserve (Lot 2 DP1002876) and Occupied Land (Lot 6 DP15561 and Lot 5A DP15561)• Site 3: receival pit located within Ismay Reserve, which is Public Reserve (2/-/DP1002876). <p>Note that the retrieval pit for Stage 2 is at the same location for as the launch pit for the Stage 4A works (Site 2).</p>
Approved REF	<p>Review of Environmental Factors Multi-program pipeline and related infrastructure replacement, repair and upgrades (Multi-program REF) (May 2023).</p>
Proposal description	<p>The proposal is covered under the programs of work with equivalent relining scopes detailed in the Multi-program REF. The wastewater pipeline will be relined to improve the wastewater system performance and to reduce the likelihood of asset failure that results in environmental harm. In recent years, there have been multiple failures along the rising main, and inspections have revealed extensive corrosion within the rising main affecting its structural integrity.</p> <p>Stage 2 and Stage 4A works form part of a larger program of works that is being completed to ensure that Sydney Water complies with Special Condition E3 in Environment Protection Licence (EPL) 372.</p> <p>Clause E3.1 of EPL 372 states that:</p> <p><i>The Licensee must complete relining of the pressurised section of the 750mm rising main at Homebush/Strathfield (which receives flows from</i></p>



Aspect	Detailed description
	<p><i>sewer pumping station SP0041) as soon as is reasonably practicable and by no later than 31 December 2025.</i></p> <p>The proposal involves the following activities:</p> <ul style="list-style-type: none">• trim, remove and replant vegetation• construct temporary access tracks• excavate land to create entry/exit pits to the rising main• scour rising main• cut existing rising main• clean and CCTV rising main• reline the existing rising main• pressure test the rising main• backfill site• decommission existing air valve• construct new air valve, excavate footpath, and connect relief pipe from rising main to new air valve• install relief pipe to adjacent maintenance hole through trenching• restore site• remove all temporary structures and waste. <p>The proposal relies on the use of an overland bypass approved under a previous stage of this project.</p> <p>While the existing site compound area (located at 26 Pomeroy Street, Homebush) will be used during the Stage 2 and Stage 4A works, plant and equipment will also be stored at Site 1, Site 2 and Site 3.</p> <p>An access track for Site 1 has already been approved under the Stage 3 approval process, and has since been established. The existing footpaths within Ismay Reserve will be used to access Site 3 from Allen Street, Homebush in the north, or Powell Street, Homebush in the south. Access tracks will be constructed using geofabric and road base at Site 2, from Allen Street into Arnotts Reserve. This track will be about 25 metres in length. Access via Powell Street will be ad-hoc and only be used when needed.</p> <p>The proposal is shown in Figure 1, Figure 2 and Figure 3.</p>
Plant and equipment	<p>Plant and equipment required include, but are not limited to:</p> <ul style="list-style-type: none">• skip bins• generators• concrete saws





Aspect	Detailed description
	<ul style="list-style-type: none">• road saws• hand tools• site facilities and amenities (caravan setup)• tipper trucks• excavators• mobile cranes• medium-heavy rigid trucks• semi and flatbed delivery trucks• light vehicles• vacuum trucks• concrete trucks• plate compactors• compactor rammer• fencing and water filled barriers• portable traffic booms.
Proposal timing	<p>The proposal is expected to occur during standard daytime construction hours.</p> <p>Both Stage 2 and Stage 4A are expected to take 6-8 weeks to complete. Stage 2 will be completed first.</p> <p>There may be the need to occasionally transport plant and equipment to and from the work site outside of hours, but the impacts are expected to be minimal.</p>





Figure 1 Location of proposal and environmental constraints.



Figure 2 Site 1 layout.



Figure 3 Site 2 and Site 3 layout.



3 Consultation

Community and stakeholder consultation

Our approach to community and stakeholder consultation is guided by Sydney Water’s community and stakeholder engagement guidelines. The nature, scale and extent of the proposal’s potential impact has been evaluated in this REF. If our work impacts the community in some way, we will consult with affected groups throughout the proposal. This includes engaging the broader community and stakeholders during plan or strategy development or before making key decisions.

Strathfield Council have been notified of the proposal and Sydney Water has been liaising with them on the package of works since 2024. Council’s feedback on Stage 2 and Stage 4A works have been incorporated into the site layouts and methodology.

Consultation required under State Environmental Planning Policies and other legislation

Sydney Water must consult with councils and other authorities for work in sensitive locations or where the work may impact other agencies’ infrastructure or land. This requirement is specified in the State Environmental Planning Policy (Transport and Infrastructure) 2021 (TISEPP). See **Appendix B** for details regarding consultation required under the TISEPP.

4 Legislative requirements

There are additional legislative requirements beyond those already assessed in the Multi-program REF.

Table 2 Consideration of additional environmental legislation relevant to the proposal

Legislation	Additional considerations
State Environmental Planning Policy (Resilience and Hazards) 2021	<p>Chapter 4 (Remediation of Land)</p> <p>The remediation (clean-up) of land triggers Chapter 4 of this State Environmental Planning Policy (SEPP). Section 4.6 requires that a consent authority must not consent to the carrying out of any development on land unless it has considered whether the land is contaminated, and if the land is contaminated, the level of remediation needed to allow the proposed development to be carried out.</p> <p>Under section 4.11(b)(ii), remediation work that “may be carried out without consent under another State Environmental Planning Policy or a Regional Environmental Plan” is Category 2 remediation work. As outlined above, this work is permissible under TISEPP. The proposal is permissible without consent under the TISEPP, therefore if remediation is required it would be classified as Category 2 remediation work, and development consent for remediation under SEPP 55 would not be required.</p> <p>In accordance with section 4.13, 4.14, and 4.15, we will consult with the relevant council prior to and on completion of remediation work undertaken as part of the proposal.</p> <p>Under section 4.13(2)(b), we are required to notify council no later than the day before the commencement of remediation work.</p>

Legislation

Additional considerations

Under section 4.14(3), a notice of completion of remediation will be provided to council within 30 days of completion.

5 Additional environmental impacts and mitigation measures

The tables below list the additional environmental impacts that could result from the proposal and the additional mitigation measures. All other environmental impacts and mitigation measures identified in the Multi-program REF remain the same and will be incorporated into the Contractor's Construction Environmental Management Plan (CEMP).

Table 3 Environmental impacts table

Aspect	Additional impacts	Additional mitigation measures
Topography, geology and soils	<p>All sites are mapped as Class 5 Acid Sulfate Soils (ASS), meaning they are located within 500 metres of areas where ASS is likely to be found.</p> <p>Site 2 and Site 3 are on land mapped as 'Critical Information Coverage' on MapInfo as it is a contaminated site (see Figure 3). The corresponding <i>Environmental Management Plan, Ismay Reserve Homebush NSW, January 2020, Ramboll Australia Pty Ltd</i> (EMP, 2020) (Appendix C) applies indefinitely to this land. The requirements of the EMP apply to activities on this land which could involve:</p> <ul style="list-style-type: none"> disturbance or exposure of contaminants in soil beneath the marker and/or physical barrier, or partial removal of the barrier, including 'underground utility installation, maintenance or removal' or excavation. <p>Site 2 and Site 3 lie within Area C in the EMP, 2020. Previous investigations within Area C have identified fill material impacted by asbestos, Polynuclear Aromatic Hydrocarbon (PAHs) and lead. Some remediation has been undertaken within Area C, although this was undertaken at shallow depths, so contaminated material could still be encountered at Site 2 and Site 3.</p> <p>The approximate sizes of the excavations are outlined below:</p> <ul style="list-style-type: none"> Site 1: 3-3.5 metres deep x 5 metres long x 3 metres wide 	<p>Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).</p> <p>In addition:</p> <ul style="list-style-type: none"> Perform works at Site 2 and Site 3 in accordance with the framework set out in the <i>Environmental Management Plan, Ismay Reserve Homebush NSW, January 2020, Ramboll Australia Pty Ltd</i> (Appendix C). A construction Contamination Management Plan must be prepared by a suitably qualified person as part of the CEMP and reviewed by Sydney Water's Environmental Representative in consultation with Sydney Water's Contamination and Hazardous Material

Aspect	Additional impacts	Additional mitigation measures
	<ul style="list-style-type: none"> Site 2: 2.5 metres deep x 5 metres long x 3 metres wide Site 3: 2.5 metres deep x 8 metres long x 3 metres wide. <p>Therefore, the EMP, 2020 should be applied to works at Site 2 and Site 3. The work site will be restored to existing levels using approved methods defined in the EMP, 2020.</p> <p><i>A Waste Classification and Virgin Excavated Natural Material Report</i> was prepared by Alliance Geotechnical Pty Ltd (20 January 2025) (Alliance Report, 2025) (Appendix D) for Delivering for Customers (D4C). The investigations included sampling of boreholes BH3-01 and BH3-02 (Site 2) and BH4-01 and BH4-02 (Site 3). No evidence of staining, odours or visual evidence of potential asbestos containing material (PACM) was present in the samples collected. The material classification for these sites are as follows:</p> <p>Site 2 - BH3-01 & BH3-02:</p> <ul style="list-style-type: none"> Fill - General solids waste – 0.0-0.6 metres bgl Natural - Virgin Excavated Natural Material (VENM) – 0.6-1.2 metres bgl. <p>Site 3 - BH04-01 & BH4-02:</p> <ul style="list-style-type: none"> Fill - Restricted Solid Waste (non-putrescible) – 0.0-2.2 metres bgl. 	<p>Team. The plan must identify the type and location of known/potential contamination, land-owner notification, management requirements (waste minimisation, waste segregation and classification) and reuse, offsite recycling and/or disposal measures.</p> <ul style="list-style-type: none"> Perform works at Site 2 and Site 3 in accordance with the recommendations set out in <i>Waste Classification and Virgin Excavated Natural Material Report</i> prepared by Alliance Geotechnical Pty Ltd (20 January 2025) (Alliance Report, 2025) (Appendix D). Consult with Strathfield Council prior to and on completion of remediation work undertaken as part of the proposal. Notify Strathfield Council no later than the day before the commencement of remediation work. Provide Strathfield Council with a notice of completion of remediation within 30 days of completion of remediation work.

Aspect	Additional impacts	Additional mitigation measures
Water and drainage	<p>The proposal is near Powells Creek, a concrete lined stormwater canal (see Figure 2). Powells Creek is located:</p> <ul style="list-style-type: none"> • adjacent to Site 1 • 30 m east of Site 2 • 15 m east of Site 3. <p>Ground disturbing works across all sites have the potential to produce sediment that could impact the water quality of Powells Creek.</p> <p>In addition, Site 1 and a portion of Site 3 are located in the 1 in 100 year flood level (see Figure 1). Flooding has the potential to impact construction and increase the movement of spoil offsite. The potential impacts can be adequately mitigated through the implementation of mitigation measures outlined in the Multi-program REF (May 2023).</p> <p>Given the investigations completed to date (desktop assessment and physical investigation works including non-destructive digging (NDD) to the depth of excavation), no ground water is expected to be encountered as a part of the proposal.</p> <p>Once SP0041 PM1 is relined, the main will undergo hydrostatic testing, which involves filling the main with water from a hydrant or water cart up to a certain pressure. Once the testing is complete, the water will then be discharged to Powells Creek in accordance with Sydney Water's Water Quality Management During Operational Activities Policy (D0001667).</p>	<p>Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).</p> <p>In addition:</p> <ul style="list-style-type: none"> • should groundwater be encountered during construction and dewatering is required, Sydney Water will obtain a groundwater Water Supply Works Approval. Where dewatering is >3ML per water year (from 1 July), Sydney Water will also obtain a Water Access Licence from NRAR. The Contractor is responsible for: <ul style="list-style-type: none"> - providing expert hydrogeological technical information to obtain the approvals preparing a Dewatering Management Plan - complying with the conditions of the above approvals (such as protecting water quality; minimising aquifer extraction volumes, monitoring extraction with flow meters and recording volumes). • Discharge all water in accordance with Sydney Water's Water Quality Management During Operational Activities Policy (D0001667) including

Aspect

Additional impacts

Additional mitigation measures

erosion controls, discharge rate, dichlorination and monitoring. Re-use potable / groundwater water where possible.

Flora and fauna

The Grey-headed Flying-fox is mapped in 3 locations within 500 metres of Site 2, including:

- 280 metres south-west of Site 2
- 390 metres east of Site 2
- 500 metres west of Site 2.

Grey-headed Flying foxes are listed as Vulnerable under both the *Biodiversity Conservation Act 2016* and *Environment Protection and Biodiversity Conservation Act 1999*. There are no known Grey-headed Flying-fox camps within 100 metres of the proposal. Night works are not proposed and therefore there would be minimal disruption to the nocturnal feeding behaviour of the bats. Given the existing noise environment during the daytime from commercial premises and passing traffic, daytime construction works are also unlikely to impact any bats if present within in the surrounding area.

No other threatened fauna or flora species are mapped within 200 metres of the proposal.

There are no native vegetation communities mapped within or adjacent to the proposal.

The proposal requires vegetation trimming at Site 3, and potentially vegetation removal and re-planting at Site 2 (see **Figure 3**), as described below:

- **Site 2:** one Water gum tree (*Tristaniopsis laurina*) may need to be removed to provide access for personnel, plant and equipment to the site. However, the preferred approach is to retain the tree, using ground protection and hoarding adjacent to the tree, while being able to provide safe access for personnel, plant and equipment to site. If this is not possible, the existing tree will be removed, and it will be replaced with a new tree of a comparative size post the completion of construction. Strathfield Council approved of this approach via email on 21 May 2025.

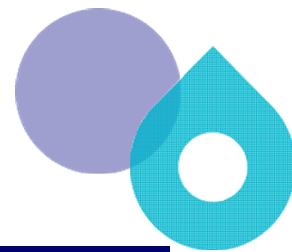
Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).

In addition:

- Vegetation removal must not occur until:
 - the area to be removed has been physically delineated, and
 - the Contractor's Environmental Representative has confirmed consistency with approval documentation.
- Continue to liaise with Strathfield Council regarding the impacts to vegetation at Site 2.
- Notify Strathfield Council ([REDACTED]) via email once an approach to vegetation management has been determined at Site 2. Any additional controls recommended by Strathfield Council will be considered as part of the CEMP.
- At Site 2, all trees within the course of the access track will be hoarded and

Aspect	Additional impacts	Additional mitigation measures
	<ul style="list-style-type: none"> Site 3: some fig trees located along the pathway between Site 2 and Site 3 will need to be trimmed (up to 4.3 m high) to allow for safe access of vehicles and plant to sites. Strathfield Council endorsed this approach in person, then via email on 28 October 2024. <p>Impacts to flora and fauna can be mitigated by the measures in this REF and the Multi-program REF (May 2023).</p>	<p>ground protection will be installed.</p> <ul style="list-style-type: none"> If removed, the water gum tree will be replaced with a new tree of comparative size. The new tree is to be supplied and planted by a suitably qualified horticulturist. If required, the horticulturist will develop a maintenance schedule to provide the tree with the best chance for survival. Strathfield Council is to be notified if the existing (or replanted) trees at Site 2 exhibit signs of dying or death (signs may include but not limited to dead or brittle branches, discoloured leaves, lack of leaves, presence of pests). If required, notify affected residents of any tree removal.
Aboriginal Heritage	A basic search of the Aboriginal Heritage Information Management System (AHIMS) register on 9 May 2025 did not identify any AHIMS sites within 200 metres of the proposal. The proposal is located within a previously disturbed area and impacts to Aboriginal Heritage during construction and operation are not anticipated.	No additional mitigation measures required. Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).
Non-Aboriginal Heritage	<p>Three locally listed heritage items are within 200 metres of the proposal (see Figure 1), and include:</p> <ul style="list-style-type: none"> I541 – Bakehouse Quarter (about 22 metres east of Site 3). Listed in Canada Bay Local Environmental Plan 2013 (LEP) I213 – Sub-station (about 150 metres east of asset 3907514 being relined). Listed in Canada Bay LEP 	No additional mitigation measures required. Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).

Aspect	Additional impacts	Additional mitigation measures
	<ul style="list-style-type: none"> I51 – 1950s garden (about 150 metres west of Powells Creek centreline/asset 3907514 being relined). Listed in Strathfield LEP 2012. <p>No works will occur within the curtilage of the above properties. Due to the distance of the works from each item and the minor excavation needed for the proposal no impacts to heritage are expected.</p>	
Noise and vibration	<p><i>Noise</i></p> <p>Noise associated with the construction will be intermittent and scheduled during standard construction hours. Noise impacts are expected to be localised due to the small scale of the proposal.</p> <p>The likelihood of noise impacts from the proposal was reviewed against risk factors (based on Table 2 of the EPA's 2020 Draft Construction Noise Guideline). The review indicated that the construction noise would be low-medium risk, and therefore, a qualitative noise impact assessment was undertaken.</p> <p>Receivers surrounding the proposal include residential properties, Arnotts Reserve, Ismay Reserve and a shopping centre.</p> <p>The proposal is located within a mixed-use area, with the existing noise environment characterised by traffic along Geroge Street, Ismay Avenue, Allen Street, the nearby railway line, Western Motorway and industrial areas. The nearest sensitive receiver is approximately 5 metres from the excavation area at Site 1 and has a direct line of sight.</p> <p>The Transport for NSW (TfNSW) Construction and Maintenance Noise Estimator (TfNSW, 2024) was used to assess potential noise impacts. The noise management levels (NMLs) were established using the Rating Background Level (RBL) for the R3 representative environment defined in the noise estimator. This level best reflects the surrounding traffic volumes and noise catchment.</p> <p>The noise propagation type was identified as 'Residential receiver - developed settlements (urban and suburban)' and 'Non-residential receiver – Active Recreation'.</p> <p>The background noise levels for the assessment were:</p> <ul style="list-style-type: none"> Day – 50 dBA Evening – 45 dBA 	<p>Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).</p> <p>In addition:</p> <ul style="list-style-type: none"> Community engagement will commence before works proceed, with notification to impacted residents within the noise impacted areas (see Figure 4). Consultation may include N: Notification (e.g. letterbox drop), PC: Phone calls and RO: Respite Offer (e.g. work blocks of three hours with one hour breaks in between).



Aspect	Additional impacts	Additional mitigation measures
	<ul style="list-style-type: none">Night – 40 dBA. <p>The TfNSW Noise Estimator Assessment was carried out by selecting the Distance Based Scenario ‘Drainage Infrastructure’. This assessment predicted the worst-case noise impacts and appropriate mitigation measures for impacted receivers, to help inform community engagement. The noise assessment was conducted for Sites 1, Site 2 and Site 3 together, to assess concurrent operations, with works occurring during standard daytime construction hours.</p> <p>Residential receivers</p> <p>The scenario-based assessment concluded that for residential receivers with a direct line of sight:</p> <ul style="list-style-type: none">noise will be highly intrusive for receivers within 25 metres of the proposal (> 30 dB(A) > background)noise will be moderately intrusive for receivers within 45 metres of the proposal (20-30 dB(A) > background). <p>Noise impacts behind a substantial barrier concluded:</p> <ul style="list-style-type: none">the noise will be moderately intrusive for receivers within 15 m of the proposal. <p>However, the ‘behind a standard barrier’ results were excluded from the assessment results (and Figure 4), as it was considered that properties < 45 meters to the proposal will have a direct line of sight to the works and are included in the direct line of sight assessment.</p> <p>Non-residential receivers</p> <p>The scenario-based assessment concluded that for non-residential receivers with a direct line of sight within 25 m may be highly affected by the noise from the proposal (LAeq (15 minute) 75 dB(A) or greater).</p> <p>Noise impacts behind a substantial barrier concluded that properties within 5 m of the work corridor would experience noise impacts. Therefore, this is excluded from the assessment, as these properties are already captured in the direct line of sight 25 m buffer.</p> <p>The noise contours are displayed in Figure 4 and include recommended mitigation measures at different distances for residential and non-residential receivers, as identified by the noise estimator tool. These are to be considered by</p>	



Aspect

Additional impacts

Additional mitigation measures

Sydney Water's Community team and offered where appropriate:

- notification (e.g. letterbox drop)
- phone calls
- respite offer (e.g. work blocks of three hours with one hour breaks in between).

Vibration

The use of vibration intensive equipment during construction is not proposed and indirect impacts to surrounding buildings, infrastructure and heritage sites are not anticipated.

Air and energy

Local residents may be temporarily impacted by odour and dust emissions from the excavation, trenching, cutting and cleaning of the rising main.

Excavation activities are expected to take 2-3 weeks to complete at each site. Trenching activities are expected to take about one week to complete at Site 2 and Site 3. The potential dust emissions from these activities can be adequately managed in accordance with mitigation measures in the Multi-program REF (May 2023).

The potential odour emissions from the cutting open and cleaning of the rising main will be managed by forced ventilation (fans).

Operational air quality and odour impacts are not expected.

Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).

In addition:

- Manage potential odour impacts from cutting and cleaning of the rising main at each of the sites by forced ventilation (fans).

Waste and hazardous materials

Site 2 and Site 3 are on land mapped as 'Critical Information Coverage' on MapInfo as it is a contaminated site (see **Figure 3**). The implications of this, including to waste management, are covered under the *Topography, Geology and Soils* section of this report.

The proposal is expected to generate waste in the form of green waste, contaminated spoil, debris and construction waste. Waste should be managed in accordance with the Waste Classification Guidelines, EMP, 2020 and Alliance Report. Where materials are not suitable for re-use on-site or offsite, materials should be disposed of at an appropriately licenced facility.


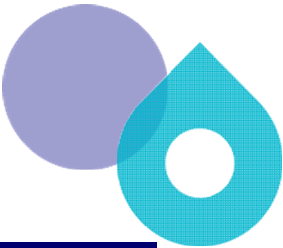
Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).

Traffic and access

Parking along Lemnos Street, Allen Street and the cul-de-sac along Ismay Avenue will be temporarily impacted.

Manage potential impacts in accordance with mitigation

Aspect	Additional impacts	Additional mitigation measures
	<p>During work hours, Traffic Control will manage the access to and from private properties where their driveways are temporarily blocked by construction supply trucks. At the end of each shift, the access to the driveway will be returned in full to the residents.</p> <p>The impacts to parking along Allen Street are a result of a portion of street parking being kept free to allow for safe entry and exit of larger vehicles to Site 2.</p> <p>Residents and stakeholders will be consulted prior to the commencement of the works regarding the impacts to their property access.</p>	<p>measures in the Multi-program REF (May 2023).</p> <p>In addition:</p> <ul style="list-style-type: none"> Consult with residents and stakeholders prior to the commencement of the works regarding the impacts to their property access.
Social and visual	<p>Social impacts relating to noise, vibration, odour, traffic and parking are assessed above.</p> <p>Visual impacts from the proposal could be caused by the presence of plant and equipment, increased number of vehicles, tree trimming and fencing during construction. Following construction, there may be a temporary visual change in the surfaces that are restored.</p> <p>Following the implementation of the mitigation measures, the social and visual impacts are expected to be minor and temporary.</p>	<p>Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).</p> <p>In addition:</p> <ul style="list-style-type: none"> Inform the nearby receivers of the works, including the expected duration of the works and a site contact name and phone number. Install signage on fencing within Arnotts Reserve and Ismay Reserve informing the community of the works, the expected duration of the works and a site contact name and phone number. Schedule deliveries outside of peak hour to minimise local traffic impacts.
Cumulative and future trends	<p>The sequencing of the stages of work across the program may cause a minor increase in the impacts to residential receivers.</p> <p>However, given the small scale and short-term nature of the proposal, potential impacts during construction would</p>	<p>Manage potential impacts in accordance with mitigation measures in the Multi-program REF (May 2023).</p>

Aspect	Additional impacts	Additional mitigation measures
	be minor and localised, and unlikely to make a significant contribution to any cumulative environmental impact on a local or regional scale.	

Table 4 Environmental mitigation measures

General
<p>Should the proposal change from the EIA, no further environmental assessment is required provided the change:</p> <ul style="list-style-type: none"> • remains within the assessment area of the REF and has no net additional environmental impact or • is outside the assessment area of the REF but: <ul style="list-style-type: none"> - reduces impacts to biodiversity, heritage or human amenity or - avoids engineering (for example, geological, topographical) constraints and - after consultation with any potentially affected landowners and relevant agencies. <p>The Contractor must demonstrate in writing how the changes meet these requirements, for approval by Sydney Water's Project Manager in consultation with the environmental and community representatives.</p>
<p>Assign single person with accountability for coordinating communication and information flow across contractors and consultants and provide the contact details of this person in the Environmental Works Method Statement and/or CEMP.</p>



Figure 4 The predicted worst case scenario of noise impacts during day works, to both residential and non-residential receivers. Mitigation measures for each of these impact levels are included in the legend.



6 Conclusion

This Category B REF outlines potential environmental impacts associated with vegetation trimming and removal, disturbance to contaminated soils, traffic and access and noise, as part of the SP0041 rising main relining, Stage 2 and Stage 4A works, North Strathfield. Any additional environmental impacts are considered minor and potential impacts can be mitigated through implementation of the measures outlined in this Category B REF and the Multi-program 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 Multi-program REF.

Appendix B – Consideration of TISEPP consultation

TISEPP section	Yes	No
Section 2.10, council related infrastructure or services – consultation with council		
Will the work:		
Potentially have a substantial impact on stormwater management services provided by council?		X
Be likely to generate traffic that will strain the capacity of the road system in the LGA?		X
Connect to, and have a substantial impact on, the capacity of a council owned sewerage system?		X
Connect to, and use a substantial volume of water from a council owned water supply system?		X
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?		X
Excavate a road, or a footpath adjacent to a road, for which the council is the roads authority, that is not minor or inconsequential?		X
Section 2.11, local heritage – consultation with council		
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?		X
Section 2.12, flood liable land – consultation with council		
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?		X
Section 2.13, flood liable land – consultation with State Emergency Services		
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)?		X
Section 2.14, development with impacts on certain land within the coastal zone– council consultation		
Is the work on land mapped as coastal vulnerability area and inconsistent with a certified coastal management program?		X
Section 2.15, consultation with public authorities other than councils		
Will the proposal be on land adjacent to land reserved under the <i>National Parks and Wildlife Act 1974</i> or land acquired under Part 11 of that Act? <i>If so, consult with DPE (NPWS).</i>		X
Will the proposal be on land in Zone C1 National Parks and Nature Reserves or on a land use zone that is equivalent to that zone? <i>If so, consult with DPE (NPWS).</i>		X
Will the proposal include a fixed or floating structure in or over navigable waters? <i>If so, consult TfNSW.</i>		X
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>		X
Will the proposal be on land in a Western City operational area specified in the <i>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>		X
Will the proposal clear native vegetation on land that is not subject land (ie non-certified land)? <i>If so, notify DPE 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>		X



Appendix C – Environmental Management Plan, 2020



Appendix D – Waste Classification and Virgin Excavated Natural Material Report, 2025