

Corridor Restoration Opportunities

Over time, the cumulative delivery of these projects will advance the environmental health of the Oxley Creek corridor and its value as a community asset.

The Corridor Restoration Project Opportunities identify range of investigatory and on-ground-delivery projects, focused on improving environmental health within the Oxley Creek Transformation project area.

The list of projects is not exhaustive. As projects are completed, new initiatives will be identified using the condition assessment's goals, objectives and actions, becoming the next steps to advance the environmental health of the Oxley Creek corridor and its value as a community asset.

Projects listed relate directly to the goals, objectives and actions associated with the nine condition indicators. The condition indicators are used to represent a different aspect of ecological health, quality and condition of the Oxley Creek corridor and its catchment. Some projects address improvements relating to a single condition indicator, while others provide benefits across multiple indicators.

The identified projects will be delivered across a range of timelines over the duration of the Oxley Creek Transformation project according to feasibility, priority and opportunity. Some projects will be delivered within a short period whilst others, particularly more complex projects that require longer-term research, consultation, support or planning, will be implemented over a longer timeframe. Projects currently identified as '*monitoring and research*' or '*assessments and reports*' may develop into future on-ground delivery projects, where suggested by the findings of their investigatory scopes.



Timeframe designations for delivery include:

- short term (**S**): 1-3 years to deliver
- medium term (**M**): 3-7 years to deliver
- long term (**L**): 7+ years to deliver
- ongoing (**O**) project delivery.

Identified projects include:

- those that require ongoing monitoring and research (**M&R**)
- those that provide advocacy and facilitation to groups and communities (**A&F**)
- one-off assessments and reports (**A&R**) intended to help understand aspects of the corridor to further identify priority restoration projects
- on-ground delivery projects (**D**).

Nine condition indicators (as identified in the Restoration Strategy)

Social value

Riparian vegetation

Water quality

Vegetation cover

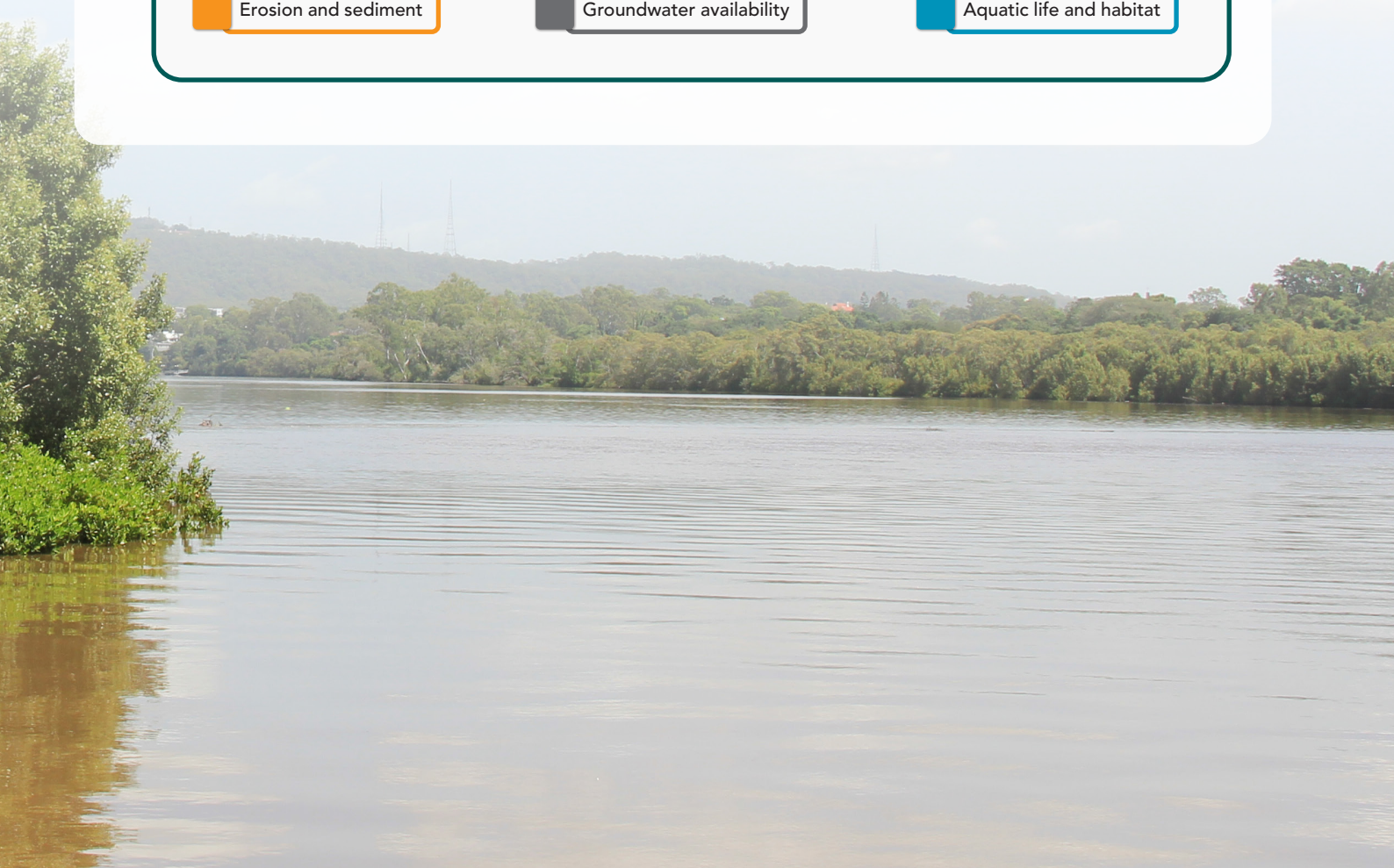
Wildlife and habitat

Hydrology

Erosion and sediment

Groundwater availability

Aquatic life and habitat



Community focused projects

Increase the community value and perception of the Oxley Creek corridor.



Community surveys

Understand how the community use, care for, and value the creek corridor and measure changes over time.

Currently identified projects	Time scale	Condition indicator focus	Project type
Annual survey and ongoing assessment, evaluation and reporting.	S/O	<input type="checkbox"/>	M&R
Completed projects			
<ul style="list-style-type: none"> Baseline survey 			

Connection to Country

Develop a strategy that identifies opportunities to tell the story of the creek corridor through both Traditional Owner and European interpretation. Deliver tangible and non-tangible experiences to create a meaningful connection for both Traditional Owners and visitors.

M-L



A&R

Community support




Support community initiatives within the corridor that align with the intentions and values of the Oxley Creek Transformation project.

Currently identified projects	Time scale	Condition indicator focus	Project type
Provision of a catchment centre and nursery for Oxley Creek Catchment Association as part of the delivery of the Archerfield Wetlands Parkland.	M	<input type="checkbox"/>	D
Participation in Peaks to Points events and activities.	S/O	<input type="checkbox"/>	A&F
Community waterway clean-up events support and participation.	S/O	<input type="checkbox"/>	A&F
Community-focused environmental grant funding bid support.	S/O	<input type="checkbox"/>	A&F

Community focused projects (continued)

Tracks and trails

Deliver tracks and trails within the creek corridor to provide increased recreational access to open space, natural areas, the creek and associated water bodies.





Currently identified projects	Time scale	Condition indicator focus	Project type
Glider Forest Reserve trail network.	S		D
Establishment of the Greenway, a 20-kilometre recreational trail through the Oxley Creek corridor.	L		D
Oxley Creek Common walking trails and nature observation points.	M-L		D

Completed projects

- Warril Parkland Shared Trails (provision of public access and wayfinding signage to three kilometres of maintenance tracks)
- Archerfield Wetlands Discovery Trail and Wetlands Lookout Trail (construction of shared path (2.9 kilometres) and walking track (450 metres) with wayfinding and interpretive signage)

Waterway recreation

Deliver outcomes that promote and encourage access to, and use of, the creek and associated waterbodies.

Currently identified projects	Time scale	Condition indicator focus	Project type
Assess and, where required, upgrade existing pontoons to provide improved recreational access to the waterway.	M-L		D
Deliver 1-2 new water access points to increase opportunities for safe recreational access to the waterway.	M-L		D
Promote and enhance the existing Oxley Creek Paddle Trail through installation of regulatory, interpretive and wayfinding signage.	M-L		D
Provide a source point of up-to-date information on the water quality of Oxley Creek to support community member decision-making when accessing the waterway for recreation.	S/O		D

Education, research and stewardship projects

Educate local businesses, residents and visitors on the value of the Oxley Creek corridor as an important environmental asset, thereby encouraging stewardship and behavioural change.



Interpretive signage

Provide interpretive and educational signage as a part of priority parkland delivery that showcase the values of the waterway corridor.

Currently identified projects	Time scale	Condition indicator focus	Project type
Archerfield Wetlands Parkland.	M	<input type="checkbox"/>	A&F,D
Cliveden Pocket Walk.	M	<input type="checkbox"/>	A&F,D
Oxley Creek Common Secret Forest and Pelican Lagoon Walks.	M-L	<input type="checkbox"/>	A&F,D

Green Heart Ranger program

Provide engaging interpretive and educational signage for children between 3 and 12 years, that builds an understanding of, and appreciation for, the local natural environment.

Currently identified projects	Time scale	Condition indicator focus	Project type
Archerfield Wetlands Parkland.	M	<input type="checkbox"/>	D
Oxley Creek Common.	M-L	<input type="checkbox"/>	D




Completed projects

- Warril Parkland Discovery Trail and associated online educational support material (11 interactive interpretive signage stations with a focus on local flora, fauna and cultural heritage).

Education, research and stewardship projects (continued)


Community, industry and business engagement program

Target key private properties within the corridor to investigate opportunities to reduce litter, oils and chemicals, nutrients, unsecured materials and sediment entering the creek via general runoff and/or flooding.

Currently identified projects	Time scale	Condition indicator focus	Project type
Work with sporting field owners to investigate if current fertilising and weed eradication activities may have an unintended effect of nutrients and chemicals entering the waterway via runoff.	S/O		A&F
Engage with industrial businesses, adjoining or in proximity to the creek, to investigate if current business and site practices may be having unintended detrimental effects on the waterway and/or waterway corridor, both in general operations and during flood events.	S/O		A&F
Engage with residents, clubs and businesses to encourage preparation for annual storms and flooding to reduce gross pollutants entering the waterway.	S/O		A&F

Privately owned open space engagement program

Partner with landowners to assist them in managing and protecting the natural areas within their property.

Currently identified projects	Time scale	Condition indicator focus	Project type
Identify properties within the corridor that are eligible for Council initiatives to improve the environmental health and biodiversity within their backyards. Monitor and assess level of engagement and stewardship over time.	S/O		A&F

Research and monitoring

Encourage groups such as universities, schools or research organisations to undertake environmentally focused research and monitoring programs within the Oxley Creek corridor.

S/O

All condition indicators

M&R




Vegetation improvement projects

Increase the canopy and density of trees within the corridor to improve biodiversity, the health of the waterway and human comfort within the recreational areas by providing shade as well as reducing the heat island effect.



Planting for shade

Plant trees and avenues along existing and proposed path and trail networks within the corridor as stand alone works, or as part of larger priority projects. Avenue and tree planting within priority projects will contribute towards Council's urban forest target to increase shade cover to 50% for footpaths and bikeways in residential areas by 2031.

Currently identified projects	Time scale	Condition indicator focus	Project type
Archerfield Wetlands District Park pathways.	S		D
Graceville Riverside Parklands pathways.	M		D
Monitor and assess changes to vegetation cover within the corridor over time.	S/O		M&R

Completed projects

- Warril Parkland Stage 1 (250 trees planted along the newly constructed pathways, providing more than 50% shade coverage when mature).
- Archerfield Wetlands Discovery Trail (250 trees planted along the newly constructed trail, providing more than 50% shade coverage when mature).

Vegetation improvement projects (continued)

Natural habitat enhancement

Increase natural habitat within riparian and biodiversity corridors, as well as at key habitat areas, in line with Council's 'Target 40'. Projects to be categorised into those that the Agency will deliver, those that qualify for environmental offsets, bushcare group delivery and partnership projects.

Currently identified projects	Time scale	Condition indicator focus	Project type
Assess riparian vegetation (quality, connectivity and width) within the corridor to identify and prioritise natural habitat riparian restoration projects, targets and delivery paths along Oxley Creek, including where its tributaries join the creek to enhance riparian connections. Assessment to include opportunities for natural recruitment of mangroves where appropriate.	S/O		A&R
Assess vegetation cover within the corridor to identify and prioritise restoration projects, targets and delivery paths within both natural and modified natural habitat areas. Assessment to include opportunities for strengthening biodiversity and wildlife corridors that connect the creek corridor to adjacent habitat areas.	S/O		A&R
Natural habitat restoration and riparian planting works at Archerfield Wetlands Parkland, including strengthening the wildlife corridor to the Blunder Creek corridor, where feasible.	S-M/O		D
Delivery of priority restoration projects as identified from natural habitat assessment and project prioritisation.	S-M/O		D
Restoration of riparian corridor adjacent to existing land uses, identifying opportunities to qualify for environmental offsets where possible.	S-M		D
Annual monitoring and reporting of increases in areas of restoration improvement works and provision of additional natural habitat areas within the corridor by the Agency, catchment and bushcare groups, communities and partnerships.	S/O		M&R
Ongoing Groundwater Dependant Ecosystems assessments within the corridor to understand extent and monitor changes over time.	S/O		M&R
Work together with Council in undertaking 'Target 40' natural habitat condition assessments.	S/O		M&R
Work with Council and community and/or research groups in undertaking significant flora surveys to confirm the extent of populations of highly threatened species, and identify projects to assist in reestablishing these species in key areas.	S-M/O		M&R, D
Incorporate koala feeding and shelter tree species within restoration planting works in areas of the creek corridor that sit within the Queensland Government's defined Koala Priority Areas.	S-M/O		D

Completed projects

- Success Street, Acacia Ridge, planting event 2018 (290 trees/shrubs planted within the creek riparian zone).
- Kendall Street, Oxley, planting event 2018 (120 trees/shrubs planted within the creek riparian zone).
- Warril Parkland and Archerfield Wetlands District Park Revegetation projects.

Fauna habitat and connectivity projects

Monitor changes to the abundance and diversity of specific fauna within Oxley Creek Transformation priority project areas as projects progress.

Remove man-made wildlife movement barriers within the corridor to allow animals to move, breed and access food.



Monitoring fauna abundance and species diversity




Undertake baseline and periodic fauna surveys to understand biodiversity changes as a result of improvements to the corridor.

Currently identified projects	Time scale	Condition indicator focus	Project type
Oxley Creek Common baseline bird survey.	M	■	M&R
Ongoing bird survey monitoring at Archerfield Wetlands and Oxley Creek Common.	S-M/O	■	M&R
Work with Council and community and/or research groups in undertaking of surveys and monitoring of mammals, birds, reptiles and amphibians to assist in establishing baselines to help determine improvements to biodiversity across the corridor over time.	S/O	■ ■	M&R
Ongoing evaluation and reporting on aquatic monitoring initiatives currently undertaken by both Healthy Land and Water and Council within the Oxley Creek corridor.	S/O	■	M&R
Completed projects			
<ul style="list-style-type: none"> Archerfield Wetlands baseline bird survey. 			



Fauna habitat and connectivity projects (continued)

Fish barrier assessment and removal

Undertake channel assessment to identify barriers preventing aquatic fauna movement within Oxley Creek. Identify and prioritise locations for connectivity enhancement.

Currently identified projects	Time scale	Condition indicator focus	Project type
Undertake Oxley Creek fish barrier and instream habitat connectivity and channel assessment, cost benefit analysis and project prioritisation.	S-M		A&R
Upgrade culverts at Archerfield Wetlands Parkland to support movement of aquatic fauna between Archerfield Wetlands and Oxley Creek.	S-M		D
Remove or reduce impacts of top prioritised and feasible fish barriers.	M-L/O		D

Terrestrial wildlife movement barrier removal

Work with Council to identify project opportunities for safe wildlife passage (wildlife friendly crossings) across urban infrastructure at wildlife hotspots. Advocate for removal of barriers where feasible and appropriate.	S-L/O		A&F
Undertake periodic promotion via social media of Council and RSPCA wildlife injury public reporting channels to improve identification of wildlife and vehicle conflict points.	S-L/O		A&F

Completed projects

- In 2019, Oxley Creek Transformation worked with Council to deliver four glider poles on Stapylton Road at Heathwood. The poles facilitate glider movements between two nature reserves separated by the roadway.

Water quality, flows and channel form/stability projects

Improve water quality and hydrology within Oxley Creek to support a diverse aquatic ecosystem within the creek corridor and reduce sediment and nutrient loads from entering the Brisbane River and Moreton Bay.








Water quality monitoring

Undertake monitoring to understand the changes in water quality within Oxley Creek over time.

To note: Some monitoring sites will be measured annually or monthly, while others will provide real time data. Monitoring will assist in identifying sources contributing to poor water quality which can be further investigated.

Identifying trends and changes to water quality is a complex process, and can often only be understood over long-term timeframes after sufficient consistent data has been captured.

Currently identified projects	Time scale	Condition indicator focus	Project type
Annual Oxley Creek Water Quality Monitoring Program.	S/O		M&R
Recreational Water Monitoring (Tennyson Pontoon, Beatty Road and Warril Parkland).	S/O		M&R
Cliveden Avenue and Beatty Road enterococci point source investigation and remediation.	S-L		M&R
Partner with Urban Utilities to point source possible sewer overflow areas.	S-L/O		A&F
Provide real-time water quality data to the public to support recreational use.	S-M/O		A&F




Completed projects

- Warril Parkland Recreational Water Monitoring (establishment of real-time water quality sensor within former sandmining lake).

Water quality, flows and channel form/stability (continued)







Stormwater detention, polishing and gross pollutant reduction

Investigate the provision of additional infrastructure to detain and polish water (as well as providing increased aquatic habitat). Identify and protect groundwater recharge areas within the corridor. Identify areas along the creek corridor where enhancements to existing wetland systems can be undertaken. Identify major sources and locations of gross pollutants within the corridor. Identify and prioritise locations for installation of gross pollutant traps (GPT) and creek clean up initiatives.

Currently identified projects	Time scale	Condition indicator focus	Project type
Archerfield Wetlands hydrology assessment.	S		A&R
Work with local environmental and community groups to undertake a program of community cleanup days.	O		D
Install GPTs in locations identified as high priority.	M		D
Completed projects			
Work with Council to identify and prioritise potential GPT locations.			

Channel form/stability

Stabilise banks and/or improve channel health to reduce erosion and improve flow and habitat. Assessment and prioritisation to identify sediment and/or nutrient abatement offset opportunities. Develop funding partnerships to assist in delivery.

Currently identified projects	Time scale	Condition indicator focus	Project type
Undertake channel assessment to identify and prioritise bank stabilisation and channel improvement projects.	S-M		A&R
Delivery of identified high priority erosion and sediment improvement projects.	M-L/O		D
Develop strategic partnerships with public and private partners to assist in project delivery.	S-L/O		D
Remediation of the headcut erosion. To be delivered through partnership programs associated with sediment and nutrient reduction.	M-L		D
Long-term monitoring of erosion and sediment patterns within the corridor to understand changes over time to assist in long-term project planning.	L/O		M&R
Support initiatives that assist in further understanding changes in hydrological flow over time.	S-L/O		M&R

