

Technical Services Reports

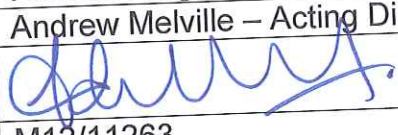
Committee Consideration – 10 July 2012
Council Resolution – 24 July 2012

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TS14.12	City of Nedlands Climate Change Local Adaptation Plan 2012-2017
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Committee	10 July 2012
Council	24 July 2012

Applicant	City of Nedlands
Owner	City of Nedlands
Officer	Phoebe Huigens - Sustainability Officer
Director	Andrew Melville – Acting Director Technical Services
Director Signature	
File ref.	M12/11263
Previous Item No's	Nil
Disclosure of Interest	No officer involved in the preparation of this report had any interest which required it to be declared in accordance with the provisions of the <i>Local Government Act (1995)</i> .

Purpose

To endorse the City's Climate Change Local Adaptation Action Plan: 2012-2017, herein referred to as the Action Plan, finalizing our contribution to the WESROC region's climate change planning which commenced in 2010.

Recommendation to Committee

Council endorses the City of Nedlands' Climate Change Local Adaptation Action Plan: 2012-2017.

Strategic Plan

KFA 5: Governance

5.1 Manage the City's resources in a sustainable and responsible manner.

Background

In 2010, the Western Suburbs Regional Organisation of Councils (WESROC) employed Coastal Zone Management Pty Ltd to undertake a Climate Change Risk Assessment and Adaptation Plan on behalf of the region.

This report stipulated a list of actions that should be taken to prepare the WESROC region for climate change. These actions were classified into two groups: those that should be tackled on a regional basis, and those best dealt with by the individual councils.

From this report, a WESROC Climate Change Adaptation Plan was developed, encompassing the regional actions. The individual councils now need to develop a Climate Change Local Adaptation Plan to encompass the remaining actions.

Proposal Detail

Using the WESROC Climate Change Risk Assessment and Adaptation Plan prepared by Coastal Zone Management in 2010, a City of Nedlands Local Adaptation Plan has been drafted. This Plan includes actions deemed more suitably dealt with by the City, than on a regional basis.

Consultation

Required by legislation: Yes No

Required by City of Nedlands policy: Yes No

Legislation

Nil

Budget/financial implications

Budget: Nil

Within current approved budget: Yes No

Requires further budget consideration: Yes No

Financial:

Any costs arising from this plan are subject to future Council decisions.

Risk Management

The accepting of this report will provide increased certainty to Council in terms of our readiness for the affects of climate change. By being proactive in regards to climate change adaptation, the City can more effectively plan and reduce potential future costs relating to events such as severe storms, pandemic and introduced flora.

Discussion

The Intergovernmental Panel on Climate Change (IPCC) report (2007) developed climate change scenarios for the year 2070, and the anticipated changes for Perth are below:

1. An increase in annual average temperature of 2.7°C, and twice as many days over 35°C per year

2. 20% reduction in annual rainfall
3. An increase of mean sea level of 0.33m (and 0.9m over a 100 year timeframe)
4. Increase in the intensity of extreme weather events such as storms.

WESROC employed Coastal Zone Management in 2010 to undertake a Climate Change Risk Assessment and develop an Adaptation Plan. The report identified the following "extreme" risks for the City of Nedlands:

- Changes in groundwater levels leading to decline in water quality;
- Shifts in distributions of plant and animal species;
- Increases in ecological disturbances and reduced ecosystem resilience to stress;
- Health impacts due to exposure to extreme weather e.g. Heat waves, hail, flooding;
- Increase in geographical range and seasonality of vector-borne diseases and the possibility for an expansion of receptive zones;
- More intense rainfall resulting in inflow and infiltration into wastewater networks;
- Increased erosion and/or exceedence of seawalls, jetties and other coastal defences;
- Inundation and/or erosion of roads in coastal and estuarine areas;
- Increased frequency, or permanent inundation of, coastal infrastructure and utilities e.g. Water, sewage, gas, telecommunications, electricity, transportation;
- Increased risk of population extinctions (flora and fauna);
- Increased coastal erosion and inundation;
- High temperatures increasing incidence of food and water-borne diseases;
- Reduction of water quality and quantity resulting in less watering/irrigation of open space, sports grounds, and subsequent closure of ovals;
- Exposure of reticulation and saltwater infiltration into groundwater sources;

- Deterioration and destruction, damage and disturbance to council-managed marinas and boat ramps; and
- Erosion or inundation leading to loss of coastal and estuarine recreational infrastructure.

The Report identified a list of actions that should be taken by the WESROC region to improve its resilience to expected climate change. Of these, some were deemed appropriate to be dealt with on a regional basis, while others were deemed appropriate to be dealt with by the individual councils.

Each individual council then needed to develop their own Climate Change Local Adaptation Plan to address local needs. The City's draft Adaptation Plan lists actions for each department, covering time frames of 1 year, 2 years, 5 years, and 20 years.

Conclusion

The City of Nedlands has developed a Climate Change Local Adaptation Plan to complement the WESROC Climate Change Adaptation Plan. The Adaptation Plan that has been drafted spans all departments within the City, and lists actions that should be taken over the next one to 20 years.

Attachments

1. City of Nedlands' Climate Change Local Adaptation Action Plan: 2012-2017

Climate Change Local Adaptation Action Plan: 2012-2017

TRIM Ref. M11/23746

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Summary

This Local Adaptation Plan accompanies the WESROC Regional Climate Change Adaptation Action Plan 2010-2011. The Regional Climate Change Adaptation Plan was developed by Coastal Zone Management in 2010, and outlines those actions that are to be completed on a regional basis, and those actions to be completed by individual councils. In addition to these plans, a regional Climate Change Project Group has been formed with representatives from each member council to discuss Climate Change impacts.

This Local Adaptation Plan identifies adaptive actions for the City that are to occur immediately; in the next 2 years; in the next 5 years; and in the next 20 years. It spans all divisions of the City, and will require cooperation between these divisions.

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Introduction

The City of Nedlands is committed to recognising, adapting to and reducing its contribution to the unavoidable impacts of climate change. The response to climate change is a two-part process: adaptation and mitigation. The City has begun the process of mitigation by developing its Carbon Inventory and Management Report, and starting to explore options for its Resource Efficiency strategy. Adapting to the affects of climate change is the next step for the City. This Local Adaptation Plan complements the WESROC Regional Climate Change Adaptation Action Plan 2010-2011, and ensures that actions that can be done at a regional level are not unnecessarily replicated at the City level, in the interests of efficiency and resource conservation. This Plan identifies adaptive actions for the City that are to occur immediately; in the next 2 years; in the next 5 years; and in the next 20 years.

Background

The Western Suburbs Regional Organisation of Councils (WESROC) employed Coastal Zone Management in 2010 to prepare a Climate Change Risk Assessment and Adaptation Plan for the region. This report identified the key threats, risks and responses for the WESROC region, and identified adaptive action to be tackled at the regional and local level.

The key objectives of the report were to identify future impacts of climate change within the WESROC region and the associated risks to participating councils; develop a regional plan for action; and review mitigation activities. From this, a Regional Climate Change Adaptation Plan has been developed, and a regional Climate Change Project Group has been formed with representatives from each member council.

Impacts of Climate Change

The Intergovernmental Panel on Climate Change (IPCC) is regarded as the most reliable source of Climate Change data within the scientific community. The IPCC report (2007) developed climate change scenarios for the year 2070, and the anticipated changes for Perth are below:

- An increase in annual average temperature of 2.7°C, and twice as many days over 35°C per year
- 20% reduction in annual rainfall
- An increase of mean sea level of 0.33m (and 0.9m over a 100 year timeframe)
- Increase in the intensity of extreme weather events such as storms.

Coastal Zone Management's report identified the following key threats for the WESROC region:

- Threat to infrastructure adjacent to the coast and river from erosion and inundation
- Impact on management and maintenance of infrastructure, drainage and wastewater networks
- Increased range of vector-borne diseases and the associated emergency response
- Impact of natural resources such as bush land and landscaped gardens, and water and air quality.

Other likely effects for the City include increased exposure to extreme temperatures by council employees and the need to adapt to reducing resources such as water, coal and oil-based fuels.

A list of key service delivery areas (KSDA) was developed in the report to ensure that the impacts from climate change were aligned to key asset and service delivery areas across all member councils:

- General Options (G)
- Infrastructure and Property Services (IPS)
- Planning (PPD)
- Health and Community Services (H)
- Emergency Management (EM)
- Recreational Services (R)
- Natural Resource Management (NRM)

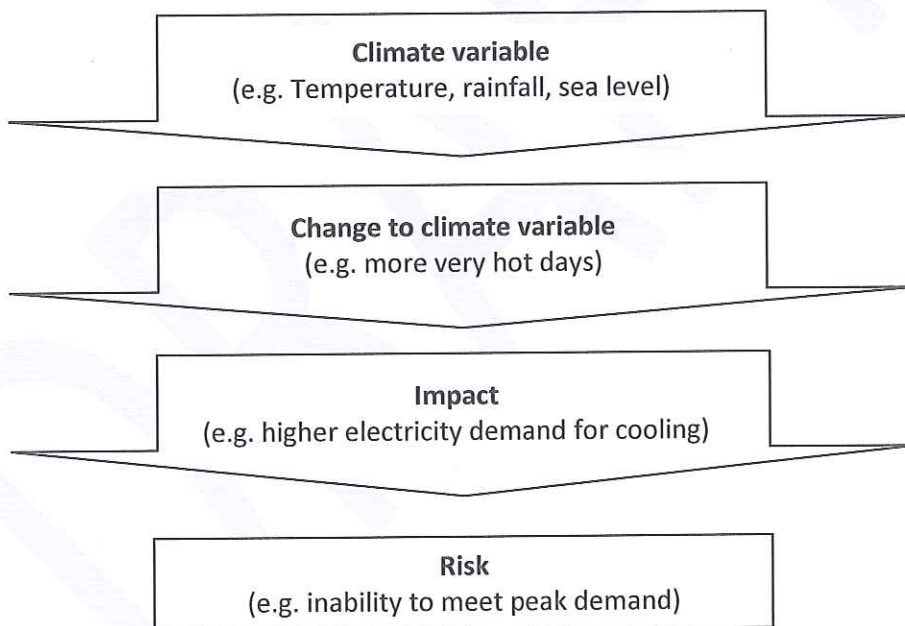
The "extreme" risks identified for the City of Nedlands are:

- Changes in groundwater levels leading to decline in water quality;
- Shifts in distributions of plant and animal species;
- Increases in ecological disturbances and reduced ecosystem resilience to stress;
- Health impacts due to exposure to extreme weather e.g. Heat waves, hail, flooding;
- Increase in geographical range and seasonality of vector-borne diseases and the possibility for an expansion of receptive zones;
- More intense rainfall resulting in inflow and infiltration into wastewater networks;
- Increased erosion and/or exceedance of seawalls, jetties and other coastal defences;
- Inundation and/or erosion of roads in coastal and estuarine areas;
- Increased frequency, or permanent inundation of, coastal infrastructure and utilities e.g. Water, sewerage, gas, telecommunications, electricity, transportation;
- Increased risk of population extinctions (flora and fauna);
- Increased coastal erosion and inundation;

- High temperatures increasing incidence of food and water-borne diseases;
- Reduction of water quality and quantity resulting in less watering/irrigation of open space, sports grounds, and subsequent closure of ovals;
- Exposure of reticulation and saltwater infiltration into groundwater sources;
- Deterioration and destruction, damage and disturbance to council-managed marinas and boat ramps;
- Increase in the spatial extent of nutrient rich sediments due to reduced river flows and increased tidal extend (due to sea level rise);
- Erosion or inundation leading to loss of coastal and estuarine recreational infrastructure.

Risk Assessment

Coastal Zone Management's report uses the following risk assessment framework to organise risks, and identify the links to climate change.



(Coastal Zone Management 2010 p.20)

Prioritising Adaptation Actions

Adaptation actions were prioritised using the following criteria:

1. Treating or managing the priority climate change risks; and
2. Having limited barriers (including financial barriers) to implementation

Adaptation Action Classification	Recommended Response
Important and Easy	Take Action Now
Important and Tricky	Begin to Remove Barriers
Not so Important but Easy	Take Action when Opportunity Presents
Too Hard for Now	Take Action to Remove Barriers and Enhance Opportunities when Opportunity Presents

Monitoring and Review

This Local Adaptation Plan will be monitored and reviewed annually to determine progress against the adaptation actions for the town.

A major review will be undertaken in 2013/14 to identify future action that may be required, and compare against the most up to date climate change information that will be available at that time.

City of Nedlands Climate Change Local Adaptation Plan

The City's Adaptation Plan begins on the following page.

Adaptation Option	Adaptation Actions	Timeframe				Responsibility	Task Completed
		Immediate (2012/2013)	Short (2012-2014)	Medium (2012-2017)	Long (20 years)		
G01	<p>1. Review most recent climate change information at a regional and local scale as it becomes available</p> <p>2. Communicate state-of-knowledge regarding climate change and climate related risks across all local government departments</p> <p>3. Ensure that there is regular review of existing and potential technology that may increase information and aid decision-making. For example, alternate road surface material with resistance to high temperatures.</p> <p>Ensure quality and validity of information sources for decision making</p>	X				Sustainability Officer	
		X				Sustainability Officer/MSN	
		X				Manager Engineering Services	

		<p>4. Maintain open dialogue with relevant state/federal departments to ensure transferability/continuity of all pertinent information to be used in decision making process as it relates to climate change adaptation</p>			X		CEO	
G02	Disseminate information on implications of identified risks of climate change within the WESROC region to relevant authorities/agencies	<p>1. Present outcomes of the study to key stakeholders; i.e. WAPC/DPI, Utility providers and representatives from other Local Government Authorities</p> <p>2. Initiate Regular Meetings/conference with key agencies to foster the creation of expertise (to enable council to undertake some of the required technical works) and to build relationships with other agencies to</p>		X			CEO	

G03	Communicate with/educate of rate payers and residents on climate change risks and adaptation activities	share information. The aim is to build local knowledge and expertise	x	x					
	1. Review options to disseminate results of the current study to the community 2. Develop information dissemination plan for the delivery of current study information to the community		x	x			Sustainability Officer	Sustainability Officer	

G04	Communicate with key service providers to facilitate 'shared care' approach to the management of the impacts of climate change on key services within the WESROC region	3. Create Community Awareness program – envisioned as a 5 year plan. Information and awareness raising for: the outcomes of the current research (Phase I); the importance of monitoring aiming for volunteer support (Phase II); the outcomes of the management review	X				Sustainability Officer	
		1. For example, contact Watercorp requesting information on the implications for council if their facilities are damaged.	X				Director Technical Services	

G05	Establish/strengthen relationships with community groups to facilitate monitoring activities, raise awareness and participate in adaptation strengthening activities	<p>1. For example, dialogue with Coastcare and Swan-Canning Estuary community groups. There needs to be recognition that there will be increased pressure on providing stabilised dunes and foreshores. In addition, ecological change must be closely monitored to support implementation of adaptive actions prior to the breaching of thresholds.</p>	X				Bushcare Officer	
G06	Strengthen the profile of climate change and capacity building within local government	<p>1. Disseminate climate change information throughout all local government areas within each member council</p> <p>2. Establish communication channels between scientists and local government staff</p>		X			WESROC Exec	WESROC Exec

G07	Incorporate climate change scenarios into policy and decision making processes (Council wide)	<p>3. Ensure all WESROC Local Governments adopt the WALGA declaration on climate change</p> <p>4. Decrease the 'silo' nature of climate change management within council through development of planning strategies that mainstream climate change adaptation across departments.</p> <p>5. Undertake targeted capacity building programs and review resourcing to address climate change</p> <p>1. Review management plans, guidelines and other decision making tools applied in all Local Government service areas, to ensure information about climate-related risk, vulnerability, and options for</p>	x				WESROC Exec	
		x					WESROC Exec	
				x			WESROC Exec	
				x			All Departmental managers	

		<p>adaptation are incorporated into planning and decision-making</p>						
		<p>2. Identify gaps in current decision making frameworks and develop strategies to incorporate climate change</p>			X		All Departmental managers	
		<p>3. Undertake iterative review of the effectiveness of implementing updated frameworks in line with scheduled climate change risk assessments and adaptation planning</p>			X		All Departmental managers	

G08	Communicate and lobby State Government to take leadership action on climate change	<p>1. Collaborate with WALGA to lobby the State Departments to ensure increased action in preparing for the potential impacts of climate change</p> <p>2. Maintain open dialogue with relevant state departments, as required, to promote increased action on climate change</p>	X	X	X	X	WESROC exec and Councillors	
G09	Review insurance coverage of council assets and liability	<p>1. Broaden insurance cover to better protect council from sudden clean-up costs</p> <p>2. Review policies, procedures and current levels of insurance coverage</p> <p>3. Awareness campaigns aimed at risk, businesses, preparation and insurance</p>	X	X	X	X	Manager of Finance	Manager of Finance

IPS01	Review the structural integrity of existing defence structures	<p>1. Consult with the DoT to gather feedback on the review of existing coastal defence structures (undertaken in 2009) - This information will inform additional adaptation planning along the coast to be undertaken in conjunction with state government</p> <p>2. Review existing defence works for valuable infrastructure (not currently being considered by DPI coastal protection review, i.e. within the Swan-Canning estuary)</p> <p>3. Develop programme of works to upgrade existing defence structures, as identified from review</p>	X	X	X	X	Manager Engineering Services	
			X	X			Manager Engineering Services	
					X		Manager Engineering Services	

IPS02	Monitor changes in condition of infrastructure items (i.e. roads, council buildings, transport and lighting) so that any modifications/retro fitting occurs on time and prior to failure	<p>1. Investigate opportunities for regional resource sharing arrangements across the WESROC region</p> <p>2. Improve record keeping allowing historical condition tracking (i.e. access to monitoring records).</p> <p>3. ID areas requiring immediate attention/Ongoing monitoring (align to integrated monitoring strategy)</p> <p>4. Identify alternative options should the existing infrastructure be impacted upon in order to maintain services and connections</p>	X				WESROC Exec	
			X				WESROC Exec	
			X				WESROC Exec	
			X				WESROC Exec	

		<p>5. Incorporate planned activities within an approved budget framework.</p>	X				WESROC Exec	
IPS03	<p>Improve storm water capture and reuse</p>	<p>1. Improve asset inventory to allow best practice design of storm water infiltrations. In some cases, current records of side entry pits and underground storm water pipe networks are not well recorded.</p> <p>2. Investigate drainage improvements at all known flash flood points of transport system within WESROC boundaries, and advocate similar actions outside WESROC boundaries</p> <p>3. Investigate management strategies and implement most effective strategies to manage storm water outfalls, i.e. nutrient stripping Gross Pollutant</p>		X			<p>Director Technical Services</p>	
					X		<p>Manager Engineering Services</p>	
					X		<p>Manager Engineering Services</p>	

		Traps, living stream and/or wetlands						
IPS04	Review and amend design specifications (retrofitting existing developments and provisions for new developments)	<p>4. Continue upgrading storm water infrastructure using water sensitive urban design methods and ensuring that modelling caters for climate change</p> <p>1. Design new low cost and relocateable access pathways and fencing</p> <p>2. Review and amend building design specifications reduce vulnerability to climate change, i.e. reduce reliance on air-conditioning; improve water use, increase</p>	X	X	X		Manager Engineering Services	
					X		Manager Engineering Services	
				X			Manager Engineering Services	
					X		Manager Property Services	

		service lifetime						
IPS05	Review geotechnical information and establish information gaps and needs	<p>3. Investigate and implement standards to reduce sensitivity of inflexible infrastructure</p> <p>1. Request detailed geotechnical information from service providers in format suitable for review and analysis in council</p> <p>2. Develop Terms of Reference for Geotechnical works along the Coastal zone</p> <p>3. Source Funding for Geotechnical works along the Foreshore (partnership with state government)</p>	X	X	X		Manager Property Services	
							Manager Engineering Services	
				X			Manager Engineering Services	
					X		Grants officer	

IPS07	Investigate opportunities to improve waste collection, management, reuse and recycling	4. Commission Geotechnical investigations at required locations 1. Continued community education in waste minimisation (see G06) 2. Explore increasing the percentage difference between a 120L and 240L bin waste service fee 3. Monitor change in landfill sites situated in the coastal and/or estuarine zone 4. Investigate the feasibility of regional resource sharing agreements	X			X	Director Technical Services	
IPS08	Investigate opportunities for increased grey-water re-use and recycling	1. Undertake a regional feasibility study into greywater treatment systems and storm water harvesting for playing fields	X	X			WMO/MSN WMO/MSN WMO/MSN WMO/MSN	Manager Parks Services

			X			Environmental Health Coordinator	
PPD01	Incorporate climate change scenarios into policy and decision making processes (planning specific)	2. Investigate opportunities for a management system to register properties that have grey-water systems Lengthen strategic planning horizons Revise planning guidelines for habitable floor levels to better protect future development	X		X	Manager Strategic Planning	
		Liaise with State Government to review/update pertinent policies and plans		X		Manager Strategic Planning	
		1. Initiate dialogue with the State government to ensure that there is action towards new policy and planning regimes that include a 'defendable line'			X	Manager Statutory Planning	

	<p>2. Initiate request for coastal protection plan and supporting materials (a guide to defence works - a manual of proven techniques)</p>			X	<p>Manager Engineering Services</p>	
	<p>3. Continue dialogue with State government to review progress towards developing a coastal protection plan. A policy is in place but there is no plan. The plan should include sufficient detail to initiate detailed design (relates to property and infrastructure services concerns)</p>		X		<p>WESROC executive</p>	

PPD02	Modify council planning approval process	<p>1. Work with member councils to adapt scheme developments to allow for: passive solar orientation and solar access, subdivisions to create 'walkable community' high density community hubs, engineered community water capture and re-use for irrigation and urban food gardens.</p> <p>2. Promote erosion and inundation sensitive urban design at the plan making and development assessment stages of the planning process: update planning schemes to give greater weight to erosion and flood risk</p>		X		Manager Strategic Planning	
				X		Manager Statutory Planning	

	<p>3. Progressively incorporate higher design standards into asset management plans and rolling capital works programs</p>		X		Manager Property Services	
	<p>4. Modify local planning requirements for major developments, to put the onus on developments to geotechnical information to support decision making</p>		X		Manager of Statutory Planning	
	<p>5. Upgrade BCA to "Sustainable residential and commercial building case" to complement passive solar design development subdivisions - increased energy, water and materials efficiency.</p>			X	Manager of Property Services	

NRM01	<p>Review current plans and strategies to incorporate local climate change impacts into NRM plans</p>	<p>For example, biodiversity plan; strategic environmental plan; conservation management plans.</p> <p>1. Review natural area management and coastal management plans, in light of outputs of the climate change risk assessment, to ensure that they incorporate the potential effects of climate change. This will inform management efforts (i.e. shift effort, abandon effort or increase effort) – Develop corridors for native vegetation along the coastal zone, and/or setbacks/greenbelts; use local indigenous native plant stock</p>		X			Bushcare officer	
					X		Bushcare officer	

NRM02	Increase community awareness of the potential impacts of climate change to encourage private land conservation	<p>2. Develop thresholds for unacceptable change in consultation with key stakeholders and the community</p> <p>3. Incorporate thresholds for unacceptable change into NRM plans and strategies</p> <p>4. Continue to provide financial and executive support for WESROC Greening Plan</p> <p>1. See G03</p>	X	X	X	X	Bushcare officer	
					X		Bushcare officer	
			X				Bushcare officer	
				X			Sustainability Officer	

NRM03	Establish coastal and/or estuarine monitoring program	<p>1. Establish extent of current monitoring regimes – what are existing monitoring programs</p> <p>*Where is monitoring undertaken?</p> <p>*How Often?</p> <p>*Who is the custodian?</p> <p>*What is the information currently used for?</p> <p>*How can this information be mainstreamed into coordinated adaptation planning?</p>	X				Bushcare officer	
		<p>2. Ensure that all existing information is collated to inform gap analysis identifying target areas for future focus based on RA outputs.</p>		X			Bushcare officer	

		<p>3. Communicate with state and federal government to ensure that local monitoring compliments work being undertaken under different umbrellas and may be used in a 'nested' fashion – use same</p> <p>4. Develop partnerships with local universities to encourage research in WESROC – e.g. research projects focused on key issues id as result of risk assessment.</p> <p>5. Design a comprehensive monitoring program based on evaluation of all above points</p>		X			Bushcare officer	
	Protect species/ecosystems through active management controls, as appropriate	<p>1. Investigate active management controls to reduce climate change impact on priority ecosystems</p>		X			Bushcare officer	
				X			Bushcare officer	
NRM04					X		Bushcare officer	

				X			Bushcare Officer	
NRM05	Increase feral animal/weed management control			X			Bushcare Officer	
			X				Bushcare Officer	
NRM06	Enhance coastal and estuarine foreshore management					X	Manager Statutory Planning Manager Engineering Services	

		<p>2. Investigate funding opportunities to meet increased demands for management works in the foreshore zone (i.e. stabilisation works)</p> <p>3. Investigate opportunities for regional resource sharing to alleviate pressure on management staff</p>	X			Bushcare Officer Grants Officer	
			X			Bushcare Officer	
EM01	Review and update disaster planning and management	<p>1. Request information (from LEMC) on the step-by-step actions that would be required in a disaster situation. For example, evacuation measures, informing businesses of risk etc</p>	X			Coordinator Corporate Services	

	<p>2. Undertake desktop scenario of potential climate change impacts on WESROC member councils and ensure outcomes of practice are incorporated into the disaster response plan</p>			X		Coordinator Corporate Services (through supporting WCLEMC group)	
	<p>3. Ensure that the disaster response plan is adaptively managed. Review plan annually to ensure response options incorporate current climate change information. In addition, ensure communication of ER plan to the community.</p>		X			Coordinator Corporate Services (through supporting WCLEMC group)	
	<p>4. Identify alternative options should the existing building and infrastructure be impacted upon in order to maintain services and connections</p>			X		Manager Corporate Services	

	5. Establish a level of cost containment for clean up following major events for benchmarking purposes	X			Director Technical Services Manager of Finance	
	6. Identify major sources and locations of clean up expenses in member councils following major events	X			Manager of Finance	
	7. Identify priority adaptations to mitigate clean up expense in balanced consideration of other risks, and incorporate in a regional action plan.		X		Director Technical Services Manager of Finance	
H01	Educate the community and local government staff on health related impacts of climate change				Sustainability Officer	
H02	Modify work practice to reduce community and staff vulnerability to the impacts of climate change		X		Manager Parks Services Manager Human Resources	

		temperatures				H03	Monitor change in human health and/or key determinants affecting human health (i.e. water quality)	1. Actions may include: upgrade information storage databases, develop a special needs database (to identify disabled, aged, frail and isolated persons at risk from the potential human health impacts of climate change); increase M&E of vectors (mosquitoes); liaise with Department of Health to ensure alignment between programs.				X	X	<p>Manager Human Resources (through supporting the development of a WESROC regional plan)</p> <p>Environmental Health Coordinator Manager Community Development Sustainability Officer</p>	
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R01	Investigate opportunities to enhance water management	<p>1. Commission study to investigate the use of 'green space' and provide recommendations for future watering allocations to greenscape in WESROC (Hydrozoning)</p> <p>2. Promote water efficient landscaping including increased community education on the importance of species selection with respect to water regimes</p> <p>3. Investigate alternative water supply options, i.e. rain water tanks, aquifer storage and recovery, grey water and groundwater and grass types; and liaise with Dept of Water to provide an inventory of private property bores.</p>		X			Manager Parks Services		
				X			Manager Parks Services		
					X		Manager Parks Services		

R02	Investigate opportunities to maintain adequate public open space/landscaped areas and street trees	<p>1. Facilitate advertising of clubs at local schools and events</p> <p>2. Identify land that may be allocated as POS, if required</p> <p>3. Educate the community on climate change and anticipated changes in open space</p> <p>4. Investigate alternative species that have higher resilience to the effects of climate change</p> <p>5. Commission study to investigate the use of 'green space' and provide recommendations for future watering allocations to greenscape in WESROC (hydrozoning)</p>		X	X		Sustainability Officer	
			X		X		Manager Parks Services	
				X	X		Manager Parks Services Sustainability Officer	
			X				Manager Parks Services	
					X		Manager Parks Services	

R03	Monitor change in public open space (in particular, coastal erosion and condition of recreational facilities)	See NRM03		X			Bushcare Officer	
R05	Allocate resources to support maintenance and provision of recreational facilities	1. Improve staffing structure where possible			X		Director Technical Services	
		2. Implement documented cross departmental annual inspections		X			Director Technical Services	
		3. Evaluate opportunities for regional resource sharing		X			Director Technical Services	

References

IPCC

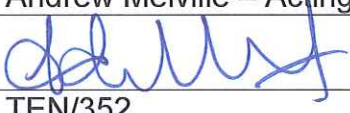
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TS15.12	Tender No. 2011/12.08 – Street Tree Pruning under Power Lines
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Committee	10 July 2012
Council	24 July 2012

Applicant	City of Nedlands
Owner	City of Nedlands
Officer	Andrew Dickson – Manager Parks Services
Director	Andrew Melville – Acting Director Technical Services
Director Signature	
File ref.	TEN/352
Previous Item No's	Item 12.3 report T09.11 – Council Minutes – 27 September 2011
Disclosure of Interest	No officer involved in the preparation of this report had any interest which required it to be declared in accordance with the provisions of the <i>Local Government Act (1995)</i> .

Purpose

The purpose of this report is to award the contract for the provision of street tree pruning under power lines to the City of Nedlands for the 2012/13 financial year and subsequent periods of extension to be awarded at the discretion of the Principal, as indicated within the contract.

Recommendation to Committee

Council:

- 1 **accepts the tender submitted by Beaver Tree Services Aust Pty Ltd trading as Beaver Tree Services for the provision of street tree pruning under power lines for the 2012/13 financial year in accordance with the submitted schedule of rates; and**

- 2 **instruct Administration to provide a progress report of the services provided to the City at the end of the initial period and prior to the negotiations for an extension of contract to extend for two (2) 12 month periods.**

Strategic Plan

KFA 5: Governance

- 5.4 Monitor and review business processes, systems, structure and policies to ensure effective service delivery and organisational performance.

- 5.6 Ensure compliance with statutory requirements and guidelines.
- 5.9 Identify, manage and seek to minimise risk.

Background

The City of Nedlands Technical Services maintenance programme includes a provision for the contracting of street tree pruning under power lines in order to meet its statutory obligations for clearance of vegetation from Western Power electricity distribution lines in accordance with the *Energy Operators (Powers) Act 1979*. The objective of this contract is to ensure that all affected trees conform to the clearance specifications as set out in legislation whilst retaining the overall aesthetic appearance, amenity value and shade within the City’s streetscapes.

As required by the *Local Government Act* for contracts of this size and to ensure the City receives the best value for money these services have been sought through the advertising of a Request for Tender.

Key Relevant Previous Decisions:

Nil

Proposal Detail

This contract is for the provision of street tree pruning under power lines to the City of Nedlands in accordance with the submitted schedule of rates and the specifications set out in tender RFT 2011/12.08 inclusive of all labour, services, plant and materials.

Consultation

Required by legislation: Yes No

Required by City of Nedlands policy: Yes No

Legislation

Local Government Act 1995

Budget/financial implications

Budget:

Within current approved budget: Yes No

Requires further budget consideration: Yes No

Financial:

Allowance has been made in the Parks Services operational budget for street tree pruning under power lines for all relevant locations throughout the City.

Risk Management

Key risk areas including financial, health, service interruption, environment and regulatory risks have been addressed through the control measures applied through the tender documentation and evaluation process. Reference checks were completed on the recommended contractor following the evaluation process.

Discussion

The tender was advertised in the West Australian newspaper on 18 April 2012 with tenders closing on Friday, 2 pm 12 May 2011.

The tender was independently evaluated by three (3) City officers in accordance with the criteria specified in the tender documentation as set out in the below table:

1. Tendered Price	Weighting 30%
2. Relevant Experience	Weighting 20%
3. Key Personnel Skills and Experience	Weighting 10%
4. Tenderer's Resources	Weighting 20%
5. Risk Assessment	Weighting 20%
TOTAL	
	100%

Tender submissions were received from the following organisations:

1. Beaver Tree Services Aust Pty Ltd trading as Beaver Tree Services
2. Arborwest Pty Ltd trading as Classic Tree Services
3. Total Tree Services

The following points were noted from the evaluation:

The tender submission from Total Tree Services was determined to be non conforming in accordance with the conditions of tendering as specified in the tender document. The tender documents specified that tenders must be lodged in the RFT 2011/12.08 e-tender box at www.tenderlink.com/nedlands. Total Tree Services tendered their submission in a hard copy over the front counter via the tender box. By law, tenders cannot be evaluated if received at any location other than that specified in the tender documents (*Regulation 18(1) of the Local Government (Functions and General) Regulations 1996*). Total Tree Services submission has not been evaluated.

Price criteria were evaluated based on the completed itemised price schedules included within the tender submissions. The priced items were compiled in to a spreadsheet for close analysis of value comparison. A price criteria score was allocated based on the best value being scored at 100% and other values scored proportionally lower.

The final evaluation score is as follows:

Beaver Tree Services	–	90.57%
Classic Tree Services	–	73.85%

Conclusion

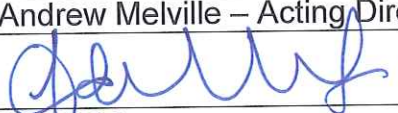
After evaluation of the tender submissions, it is recommended that Beaver Tree Services Aust Pty Ltd trading as Beaver Tree Services be awarded the contract for the provision of street tree pruning under power lines to the City for the 2012/13 financial year in accordance with the submitted schedule of rates having attained an evaluation score of 90.57%. The option to extend the contract for a further two (2) twelve (12) month periods will be at the discretion of the City.

Attachments

1. Confidential Attachment 1 - Beaver Tree Services Price Schedule (not to be published)

TS16.12	Tender No. 2011/12.12 – Jetting and Educting Services
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Committee	10 July 2012
Council	24 July 2012

Applicant	City of Nedlands
Owner	City of Nedlands
Officer	Maria Hulls – Manager Engineering Services
Director	Andrew Melville – Acting Director Technical Services
Director Signature	
File ref.	TEN/360
Previous Item No's	Nil
Disclosure of Interest	No officer involved in the preparation of this report had any interest which required it to be declared in accordance with the provisions of the <i>Local Government Act (1995)</i> .

Purpose

The purpose is to award the contract for the provision of Jetting and Educting Services within the City of Nedlands for the 2012/13 financial year and subsequent periods of extension to be awarded by the Principal, as indicated within the contract.

Recommendation to Committee

Council:

- 1 accept the tender submitted by Drainflow Services Pty Ltd for the provision of Jetting and Educting Services for the 2012/13 financial year as per the schedule of rates (Confidential Attachment 1) submitted; and
- 2 instruct Administration to provide a progress report of the services provided to the City at the end of the initial period and prior to the negotiations for an extension of contract to extend for two (2) 12 month periods.

Strategic Plan

KFA 5: Governance

- 5.4 Monitor and review business processes, systems, structure and policies to ensure effective service delivery and organisational performance.
- 5.9 Identify, manage and seek to minimise risk.

Background

The City of Nedlands Engineering Services drainage maintenance program includes a provision for the jetting and educting of deleterious materials from drainage structures by a selected contractor.

The objective of this contract is to ensure the functioning capacity of drainage structures is maintained to a high standard, ensuring adherence to the City of Nedlands Drainage Maintenance schedule.

State-wide advertising of a Request for Tender was conducted, as required by the *Local Government Act 1995* for contracts of this monetary value. This will ensure the City receives the best value for money.

Proposal Detail

This contract is for Jetting and Educting Services in preparation for drainage maintenance works.

Construction services to be in accordance with the specifications set out in tender RFT 2011/12.12 inclusive of all labour, services, plant and materials.

Consultation

Required by legislation:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Required by City of Nedlands policy:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Legislation

Local Government Act 1995

Budget/financial implications

Budget:

Within current approved budget:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Requires further budget consideration:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Financial:

Allowance has been made in the current Drainage Maintenance budget for Jetting and Educting Services within our drainage maintenance program.

Risk Management

Key risk areas including financial, health, service interruption, environment and regulatory risks have been addressed through the control measures applied through the tender documentation and evaluation process.

Discussion

The tender was advertised in the West Australian newspaper on 12 May 2012 with submissions closing at 2.00 pm on 29 May 2012.

The tender was independently evaluated by three (3) City officers in accordance with the qualitative criteria specified in the tender documentation as set out in the below table extract from RFT 2011/12.12 Jetting and Educting Services;

<p>Relevant Experience</p> <p>Tenderers must address the following information in an attachment and label it "Relevant Experience":</p> <ul style="list-style-type: none"> (a) Provide details including dates of commencement and completion, level of involvement, and details of outcomes of previous and current contracts performed for Local Government Organisations and other organisations of similar size and scope; (b) Provide details of issues that arose during a specific project and how these were managed. As an example, demonstrate how disruptive residents of a local council were dealt with in a particular situation, detailing the outcome of the situation and how the outcome was reached; (c) Demonstrate ability to meet deadlines. 	<p>Weighting 20%</p>
<p>Key Personnel skills and experience</p> <p>Tenderers must address the following information in an attachment and label it "Key Personnel Skills and Experience":</p> <ul style="list-style-type: none"> (a) Their role in the performance of the Contract; (b) Curriculum vitae inclusive of, Membership to any professional or business association and Qualifications. 	<p>Weighting 10%</p>

<p>Tenderer's Resources</p> <p>Tenderers must address the following information in an attachment and label it "Tenderer's Resources":</p> <ul style="list-style-type: none"> (a) Itemised listing of plant and equipment including the date of manufacture, model, make, capabilities (e.g. machine maximum depth of education) and assessment of current working condition; (b) Any contingency measures or back up of resources including personnel (where applicable); (c) Provide a current commitment schedule, including percentage of operational capacity represented by this work. 	<p>Weighting 20%</p>
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<p>Risk Assessment</p> <p>Tenderers must address the following information in an attachment and label it "Risk Assessment":</p> <ul style="list-style-type: none"> (a) An outline of your organisational structure inclusive of any branches and number of personnel. (b) If companies are involved, attach their current ASC company extracts search including latest annual return. (c) Provide the organisations directors/company owners and any other positions held with other organisations. (d) Provide a summary of the number of years your organisation has been in business. (e) Attach details of your referees. You should give examples of work provided for your referees where possible. (f) Are you acting as an agent for another party? If Yes, attach details (including name and address) of your principal (g) Are you acting as a trustee of a trust? If Yes, give the name of the trust and include a copy of the trust deed (and any related documents); and if there is no trust deed, provide the names and addresses of beneficiaries. (h) Do you intend to subcontract any of the Requirements? (i) If Yes, provide details of the subcontractor(s) including; the name, address and the number of people employed; and the Requirements that will be subcontracted. (j) Will any actual or potential conflict of interest in the performance of your obligations under the Contract exist if you are awarded the Contract, or are any such conflicts of interest likely to arise during the Contract? (k) If Yes, please supply in an attachment details of any actual or potential conflict of interest and the way in which any conflict will be dealt with 	<p>Weighting 20%</p>
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Risk Assessment (Continued)	
<p>(l) Are you presently able to pay all your debts in full as and when they fall due?</p> <p>(m) Are you currently engaged in litigation as a result of which you may be liable for \$50,000 or more?</p> <p>(n) If Yes, please provide details.</p> <p>(o) In order to demonstrate your financial ability to undertake this Contract, include a profit and loss statement and the latest financial return for you and each of the other proposed contracting entities, together with a list of financial referees from your bank and/or accountant.</p> <p>(p) The insurance requirements for this Request are stipulated in Part 3 of this Request. Tenderers are to supply evidence of their insurance coverage including, insurer, expiry date, value and type of insurance. If Tenderer hold "umbrella Insurance" please ensure a breakdown of the required insurances are provided. A copy of the Certificate of Currency is to be provided to the Principal within 7 days of acceptance.</p>	<p>Weighting 20%</p>

Price criteria were evaluated based on the completed itemised price schedules included within the tender submissions. The priced items were compiled into a spreadsheet for close analysis of value comparison. A price criteria score was allocated based on the best value being scored at 100% and other values scored proportionally lower.

A total of 30% weighting was allocated to the Price criteria.

Conforming submissions were received from the following organisations:

- Drainflow Services Pty Ltd
- Veolia Environmental Services Australia Pty Ltd
- Western Maze Pty Ltd T/A Western Educting Services

Evaluation:

The final evaluation scores are as follows:

- | | |
|--|-----|
| • Drainflow Services Pty Ltd | 93% |
| • Veolia Environmental Services Australia Pty Ltd | 69% |
| • Western Maze Pty Ltd T/A Western Educting Services | 65% |

Conclusion

After evaluating the tender submissions, it is recommended that Drainflow Services Pty Ltd be awarded the contract for Jetting and

Educting Services for the 2012/2013 financial year at their submitted schedule of rates (Attachment 1), having attained an evaluation score of 93%.

Attachments

1. Attachment 1 – Confidential Schedule of Rates (not to be published)