




Pacific Community
Communauté du Pacifique

Science Activities in IW Project

1st Regional Science and Technical Committee
Nuku'alofa, Tonga
August 1st 2017









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Review of Science and Technical Activities

National IW Environmental Stress Reduction Targets

Municipal Waste Pollution Reduction
<ul style="list-style-type: none"> 749kg/yr (34%) reduction of TN through constructed wetland system serving 15 houses in demonstration area in Nauru 1623 kg/yr (20%) TN reduction through 200 households septic system upgrades and construction of 15 sand filter on-site wastewater treatment systems in the demonstration area in Niue 2,255kg/yr (10%) TN reduction through 40 household on-site wastewater treatment system upgrades and construction of 40 eco-sanitation toilets in the demonstration area in Tonga 919 kg/yr TN and 503 kg/yr P reduction through conversion of 50 wash-down piggens to dry-litter systems in Tuvalu
Pollution Reduction to Aquifer
<ul style="list-style-type: none"> 7.6 kg/ha/yr TN pollution reduction to groundwater system from conversion of 50 piggeries to dry-litter system in Tuvalu 0.32 kg/ha/yr pollution reduction to groundwater system from on-site sanitation treatment system upgrades in demonstration area in Niue
Restored Habitat
<ul style="list-style-type: none"> 10 ha of coastal area re-vegetated with salt and drought tolerant species at 10 critical sites in Nauru 1,200 ha of protected area re-vegetated in Samoa's Apia watershed (above 600m) 30 ha established and planted with rare endemic species in Vanuatu 5,598 ha of buffer area re-vegetated at Port villa demonstration site in Vanuatu







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National IW Environmental Stress Reduction Targets


Conserved/Protected Wetland
<ul style="list-style-type: none"> 200 ha of fish refugia and wetland habitat protected through Integrated Coastal Management Plan for Honiara in the Solomon Islands 90 ha of conserved/protected fish refugia habitat in the development of coastal and fisheries management plans in Tonga
Catchment Protection Measures
<ul style="list-style-type: none"> 8,018 ha under improved catchment management in Muri Lagoon area of Rarotonga, Cook Islands 1,905 ha under improved catchment management in Tofol, Kosrae, Federated States of Micronesia 4,608 ha under improved catchment management in Alofi North and Alofi South, Niue 544 ha under improved catchment management in the Laura Village, Majuro Atoll, Marshall Islands 3,027 ha proposed for improved management under Sustainable Land Use Strategy in Kovi/Kongulai catchment









Review of Science and Technical Activities

Activities led by the Regional IW Project

- Develop, supply and administer regional portable water quality testing kit:
 - Use at national pilot project sites
 - For baseline assessment & monitoring of national IW projects
 - For Rapid Coastal Assessment
- Database and GIS portal development
 - National and regional database interlinked
 - Regional online GIS portal
 - Sharing of data challenges







Review of Science and Technical Activities

Activities led by the Regional IW Project


- Rapid Coastal Assessments at pilot project sites and nationally determined priority sites (through diagnostic analysis workshops)
 - Terrestrial monitoring
 - Coastal monitoring
 - Water quality monitoring
 - Socio-economic surveys
 - Governance and legislation survey









Review of Science and Technical Activities

Activities led by the Regional IW Project

- State of the Coast Report
 - Incorporates data collected from rapid coastal assessments, pilot site baseline assessments, STAR Project data and existing data
 - Indicator specific report and summary report
 - Report data linked with online GIS portal
- Diagnostic Analysis
 - National consultative workshops identify priority coastal sites for future R2R intervention and investment
 - Update IWRM Diagnostic Analysis of 2010
 - Broad report and summary reports







Review of Science and Technical Activities

Activities led by the Regional IW Project

- Strategic Action Framework for ICM/IWRM/R2R
 - Incorporates information from State of the Coast, and Diagnostic Analysis
 - Regionally appropriate and agreed upon structure
 - Key elements and governance arrangements

Review of Science and Technical Activities

Activities led by the Regional IW Project

- Harmonised results reporting framework for multi-focal area projects
 - Awaiting appointment of Country Coordination and Monitoring and Evaluation Adviser
- Systematic reporting templates for gender data, lessons learned, stakeholder engagement

