



CARMEN WALKER

CURRICULUM VITAE

ACADEMIC QUALIFICATIONS

Diploma of Conservation and Land Management, Charles Darwin University, N.T, 2010

Bachelor of Environmental Science, Environmental Management, Charles Darwin University, N.T, 2013

EMPLOYMENT HISTORY

2012 - Present	Consultant Environmental Scientist, <i>EcoScience NT Pty Ltd</i>
2013 - Present	Research Assistant, <i>Research Institute for the Environment and Livelihoods</i> , Charles Darwin University, N.T
2012	Urban Bushland Team, <i>City of Darwin</i> , N.T
2011	<i>Crocwise</i> Education Officer, <i>Northern Territory Government</i> , N.T
2010	GIS Officer, <i>Northern Territory Government</i> , N.T

PROFESSIONAL EXPERIENCE

Consultant Environmental Scientist

Monitoring of Rehabilitation Success, Gas Export Pipeline, Dec 2014 - INPEX Browse

Rehabilitation Works, Gas Export Pipeline Project, October 2014– Boskalis for INPEX Browse.

Flora Survey and Field Report, Woodcutters Mine & Creek, September 2014 – Newmont Asia Pacific.

Baseline Monitoring of Mangrove Rehabilitation, Gas Export Pipeline Project, Oct - Dec 2014– Cardno for INPEX.

Mangrove Monitoring Program, Ichthys INPEX Gas Export Pipeline Project – Post-Construction Phase Survey. October 2014– Boskalis

Mangrove Rehabilitation Plan and Works for INPEX Ichthys Onshore - Gas Export Pipeline, Dec 2013- present, Boskalis.

Mangrove Monitoring Program, Ichthys INPEX Gas Export Pipeline Project –Construction Phase Survey. October 2014– Boskalis

Mangrove Health Monitoring Program, INPEX Onshore at Blaydin Point, (Feb, June ,Sept and Dec 2014 surveys), AEC and INPEX Browse

Mangrove Monitoring Program, Ichthys INPEX Gas Export Pipeline Project – Pre-Construction Phase Survey. Feb 2014– Boskalis

Quarterly Mangrove Community Health Monitoring - Dredging Survey 6: Mangrove Health Monitoring Program, Ichthys Nearshore EMP, Jan 2014, Cardno & INPEX Browse.



- Quarterly Mangrove Community Health Monitoring - Dredging Survey 5: Mangrove Health Monitoring Program, Ichthys Nearshore EMP, Oct- Nov 2013, Cardno & INPEX Browse.
- Scientific Monitoring of Mangrove Flora & Fauna at Wickham Point Immigration Accommodation Facility, Wet season, Sept 2013 – for Wickham Point Development.
- Quarterly Mangrove Community Health Monitoring Report- Dredging Survey 4: Mangrove Health Monitoring Program, Ichthys Nearshore EMP, Jul- Aug 2013, Cardno & INPEX Browse.
- Quarterly Mangrove Community Health Monitoring Report- Dredging Survey 3: Mangrove Health Monitoring Program, Ichthys Nearshore EMP, Apr- May 2013, Cardno & INPEX Browse.
- Scientific Monitoring of Mangrove Flora & Fauna at Wickham Point Immigration Accommodation Facility, Wet season, Mar 2013 – for Wickham Point Development.
- Quarterly Mangrove Community Health Monitoring Report- Dredging Survey 2: Mangrove Health Monitoring Program, Ichthys Nearshore EMP, Jan-Feb 2013, Cardno & INPEX Browse.
- Quarterly Mangrove Community Health Monitoring Report- Dredging Survey 1: Mangrove Health Monitoring Program, Ichthys Nearshore EMP, Nov 2012, Cardno & INPEX Browse.
- Scientific Monitoring of Mangrove Flora & Fauna at WPIAF, Oct 2012, for Wickham Point Development.

RESEARCH EXPERIENCE

- 2012-2014** **Research Assistant, Research Institute for Environment and Livelihoods (RIEL), Charles Darwin University**
- Projects include:**
- 2014** **Australian Research Council- Impacts of deforestation and afforestation on greenhouse gas emissions, and carbon and water resources in the Daly River catchment, north Australia:**
- Monitoring of soil-gas exchanges (using the Fast Greenhouse Gas Analyser), soil moisture (using the Time-Domain Reflectometer), leaf area index (using digital hemispherical photography) and termite sampling were key activities involved in this project.
- 2013** **Carbon Farming Initiative (CFI) Soil Carbon Project:**
- Research activities investigating soil carbon benefits through reforestation in sub-tropical and tropical Australia. Initial set-up of plots and sub-plots for savanna, pasture and plantation sites. Quantification of carbon required collection and preparation biomass harvests and soil cores for analysis.
- 2013** **AusPlots Rangelands/TERN project:**
- Baseline research activities investigating terrestrial ecosystems. Flora survey including tree identification and measurements; and remote sensing exercises using technologies such as LAI 2200, TRAC and DHP to assess biomass, carbon and LAI for correlation with energy fluxes from terrestrial ecosystem to atmosphere.
- 2013** **Towards remote sensing of fuel productivity: C4 grass dynamics at the Howard Springs TERN Flux Site:**
- Biomass and leaf area index (LAI) data collected to analyse carbon, nitrogen and chlorophyll content for correlation with satellite imagery. Primary data sources were biomass harvests, LAI 2200 and DHP runs.
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- 2012** **The colour of mud: Blue carbon storage in Darwin Harbour mangrove communities:**
- Quantification of carbon stored in the Darwin Harbour mangrove estate through measurement of carbon stored in above- and below-ground biomass and soil. Soil extraction and preparation for carbon testing and allometric calculations.

AWARDS & SCHOLARSHIPS

- 2012** **George Brown Memorial Scholarship (Full year), Charles Darwin University, N.T.**

TRAINING & QUALIFICATION

- 2013** Apply First Aid Certificate, St John Ambulance, N.T
- 2010** Operate 4X4 in off-road conditions, Charles Darwin University, N.T
- 2010** Chemical Safety, SMARTtrain, Charles Darwin University, N.T
- 2010** Ride on vehicle operation, Quad bike handling, Charles Darwin University, N.T
- 2014** Marine Safety Induction Card