

Funding Deed for the Australian Collaborative Land Evaluation Program 2010-2013

ACLEP Workplan 2012-13 - contract variation agreed by email 26/07/2012

SCHEDULE 2 and ANNEXURE A

ACLEP provides a key role in coordination, communication, facilitation and promotion of soil data and information related activities at the national level and through cooperation with the jurisdictions (ACLEP key activity area 1). Strategic guidance is provided through the National Committee on Soil and Terrain (NCST) in which ACLEP plays an active role.

ACLEP activities for 2012-13 are aligned to the nationally agreed strategic outcomes of the NCST, as listed below

1. Enhanced national soil and land data infrastructure

ACLEP key activity area	Project tasks	Products/Outcomes
3 ASRIS – the national soil information infrastructure	This task ensures the ongoing delivery of the existing ASRIS, including managing underpinning computer systems and databases. It includes system maintenance and limited development, hardware/software upgrades as required, ongoing database management and licensing. No specific or strategic system development is planned.	Ongoing operational ASRIS databases and web applications, providing public accessibility to best available nationally consistent soil data and information. ASRIS will be publicly available at least 90% of the time as reported by annual web server statistics.
2 Standards and guidelines	Develop data and information standards/guidelines to be endorsed and managed through NCST.	NCST endorsed set of nationally agreed lab methods codes for ASRIS implementation. National data consistency.
6 National Soil Archive	Support submission and use of Archive specimens through an Archive Management Committee.	Operational national soil archive providing ongoing management of soil specimens to support future research. Annual reporting on requests for submission and use of samples.

	<p>Process additional samples to agreed Archive management standards as per Archive operations manual www.clw.csiro.au/aclep/documents/CSIRO National Soil Archive Manual.pdf, including placement of non-toxic, air dry samples in archive quality containers with long-life labels to ensure long-term quality and security, sub-sampling for infra-red spectral analysis, capture of associated laboratory and other data in the NatSoil database, ongoing curation of samples within National Archive facilities.</p>	<p>Increase the number of archived samples by 1-2,000 including data entry and near-infra red spectral analysis. Annual report on Archive activity including annual maps showing location of archived samples to be available on the Archive website.</p>
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2. Current and future needs for soil and land data and information satisfied

ACLEP key activity area	Project tasks	Products/Outcomes
5 Digital soil mapping	<p>Participate in NCST DSM advisory group to assist identification of priority national DSM training requirements. Facilitate development and delivery of a national training event as identified. Support participation by jurisdictional staff within capacity of available resources.</p>	<p>ACLEP national DSM workshop or training event (as identified by NCST). Summary report on workshop and associated materials to be freely available through ACLEP website to state agencies, universities and other interested DSM practitioners. Greater operational adoption of DSM methods and techniques leading to improved national soil data assets.</p>
9 Capacity building	<p>Support DSM skills and capacity building through interstate staff exchanges. Develop and run a process to identify jurisdictions and candidates prepared to undertake and host staff exchanges. Manage sub-contracts to provide resources and ensure outcomes.</p>	<p>Learnings from staff exchanges to be documented and presented as part of national DSM activities. DSM skills and capacity development in jurisdictions.</p>

3. Improved accessibility and utility of all soil and land information to users

ACLEP key activity area	Project tasks	Products/Outcomes
<p>4 ASRIS data uploads</p>	<p>Process additional legacy map data from NT, and resupplies from Qld, WA. Incorporate NSW line work and ASC data. Update other contextual data within ASRIS as available, eg SRTM DEM derived terrain attributes, revised national radiometrics etc.</p> <p>Facilitate discussions and negotiate delivery of jurisdiction’s site data. Incorporate site data within the national NatSoil database collation, quality checking, meta-data and ongoing data management and delivery where possible.</p> <p>Circulate a reporting proforma and collate information provided by states/territories on outstanding historic data capture needs, including likely resources and priorities.</p>	<p>Updated ASRIS Level 4 and other data sets. Annual reporting through maps of new additions and maps highlighting changes to existing data. Additional data to be incorporated into revised ASRIS standard national data products. Improved access and use of national data assets.</p> <p>Best available, location specific national site data set available for use in TERN soil and other national digital soil mapping and modeling activities. Publically available site data set dependant on licensing restrictions. Annual maps showing location of newly added jurisdictional site data obtained for the national NatSoil database</p> <p>Collated list to be discussed at NCST for recommendation on priorities and possible resource allocations</p>
<p>3 ASRIS – the national soil information infrastructure</p>	<p>Complete ASC national soil data product incorporating NSW data and any revised or additional mapping from other jurisdictions. Investigate development of national pH product integrating best available mapping and Atlas Soil pH trend estimations.</p> <p>Investigate possible national spatial data harmonization across borders, including innovative use of national DEM and other data sets through digital soil mapping approaches and image object identification to identify possible data errors and most probable soil type attribution. Consider</p>	<p>New and improved ASRIS standard national soil data products (dominant ASC and possibly pH trend) developed for endorsement by NCST and released under Creative Commons licensing.</p> <p>Revised and updated national soil layers, potentially including disaggregated spatial layers and re-interpreted national attribution (eg for the Atlas). Quality checking by jurisdictions and incorporation into their systems will allow future generation of improved</p>

	<p>opportunities for spatial disaggregation of broad scale mapping and/or re-attribution of existing national data (eg Atlas of Australian Soils interpretations) particularly along state border regions to provide better integration with other available detailed datasets. Deliver derived data sets and interpretations for attributes such as soil type, clay content, bulk density and pH, to jurisdictions for consideration of integration within their systems for future re-supply to ASRIS.</p> <p>Maintain existing ASRIS web viewer and progress use of new tools for improved data access (such as through the TERN Central Portal and the CSIRO Data Access Portal). Maintain delivery of the SoilMapp mobile app and provide user support within capacity. Support jurisdictions to provide additional data and products (such as additional pdf soil reference site descriptions and linkage to soil type mapping descriptions) for improved delivery of data through the SoilMapp mobile application.</p>	<p>ASRIS national soil data products exhibiting reduced border and project boundary edge effects.</p> <p>Improved data access and use through web and mobile applications and data downloads where available. Annual reporting on SoilMapp downloads and where available statistics on use through logging online access to ASRIS web services</p>
<p>8 Communications</p>	<p>Maintain ACLEP/ASRIS/Archive websites.</p> <p>Develop promotional material and brochures as appropriate. Contribute ACLEP articles to ASSSI and other publications. Promote ACLEP at workshops and conferences.</p>	<p>Up-to-date websites providing links to ACLEP reports and publications and access to the best available soil data and information. Annual reporting of web use statistics.</p> <p>Conference papers, articles and other promotional material to increase awareness and support of ACLEP and improved management of Australia's soil resources.</p>

4. High quality technical advice on soil and land issues available for governments

ACLEP key activity area	Project tasks	Products/Outcomes
<p>7 Strategic reports</p>	<p>Provide technical and scientific support to NCST and DAFF policy needs – including:</p> <ul style="list-style-type: none"> - (a) input to the DAFF review of ACLEP - (b) facilitate development of an NCST report on soil mapping priorities for Australia as a value proposition for Australian and state/territory government, RDC/industry investment by facilitating a workshop with NCST and other key invitees, interaction with RD&E reference panel members and other key stakeholders, supporting compilation/editing and publication of the report <p>Maintain an active role in the NCST. ACLEP annual reporting through a summary list of achievements under each NCST outcome with link to datasets, products and documents.</p>	<p>Consolidated information on the activities, products and impacts of ACLEP activity since 2009-10 drawn largely from existing annual reports, websites, provision of stakeholder lists and user requests etc</p> <p>An NCST report, suitable for publication, to the Soils RD&E Reference panel on nationally agreed soil mapping and data needs.</p> <p>NCST agenda papers and ACLEP annual reporting providing broader awareness of ACLEP activities.</p>