

**SOIL SCIENCE AUSTRALIA**
**Certified Professional Soil Scientist (CPSS) Directory 2018**

as at 4/06/2018

Surname	First name	Title	CPSS since	Accred	Other quals	Company	State	Profile	Self-nominated expertise	Mobile	Email
Aiken	Jane	Dr	2007	CPSS	PhD (Env), BSc(Hons), BSc, A/DiplAppSci	Soil Health Ecology	NSW	Dr Aiken is available for part-time consulting through Soil Health Ecology. Jane is currently employed with Conneq Industrial Infrastructure (Australia) Pty Limited. Jane has expertise in consultancies in the following regions: Lithgow, Oberon, Blue Mountains and Mudgee.	Environmental Specialist: Mining & Power, Soil Microbial Ecology (Soil Biology), Integrated Catchment processes (landscape, soils, ground and surface waters, hydrology), Sustainability & Environmental Management, Soil acidity, salinity, sodicity (assessment, management, amelioration), Mine site rehabilitation	0407 990 613	info@cessoils.com.au
Bacon	Peter	Dr	1997	CPSS	PhD Soil Science	Woodlots and Wetlands Pty Ltd	NSW	Peter Bacon has > 30 y experience in soil, water and vegetation management. He has published > 250 articles, ranging from expert systems to reviews of major ecological processes. Between 1973 and 1976 he investigated nutrient and water distribution in irrigated orchards. In 1976 he joined the Chemistry Branch of the Biological and Chemical Research Institute and studied N and C cycling under a range of land and water management systems. His PhD was on N and C cycling in flooded and intermittently flooded systems. In 1988 he was appointed state coordinator of soil C and N research for the NSW Dept of Agriculture. He lectured part time at University of Sydney, UTS and University of New England. In 1990 he became Senior Research Scientist in State Forests of NSW. In 1991 he was appointed coordinator of the Soils, Nutrition and Hydrology Section of Forest Research. In 1992 he was awarded a Churchill Fellowship to study in South Africa, Israel, Portugal and the USA. Specific aspects included modelling water quality changes in wetlands, movement of contaminants in soils, and the environmental effects of effluent reuse. Dr Bacon is currently managing director of Woodlots & Wetlands Pty. Ltd., an environmental consultancy and management company. Woodlots & Wetlands have successfully undertaken over 250 environmental management projects in the past 11 years.	Soil management and conservation, Hydrology and wastewater management, Effluent re-use, Soil health assessment, Erosion and sediment control, especially water; Flooded soil management, Mine site rehabilitation, Development impacts on contaminant export	0427 905 440	<a href="mailto:woodlots3@bigpond.com">woodlots3@bigpond.com</a>
Banks	Robert	Mr	2002	CPSS	BSc(Hons)	SoilFutures Consulting Pty Ltd	NSW	Robert Banks is a Principal Soil Scientist (Soil Futures Pty. Ltd) and an Adjunct Research Fellow, University of Queensland.	Soil management and conservation, Training, advice & consultation services, Applied research expertise, Basic research expertise, Acid sulphate soils, Paleo-soil studies for archeological investigations, Soil & regolith studies for mineral exploration, Soil physics (water & mechanics), Contaminated land/soils/sites (assessment, management, amelioration)	0427 431 512	soilfutures@clearmail.com.au <u>or</u> vertosol2380@gmail.com

Battam	Michael, Mick	Dr	2011	CPSS	PhD(Soil Science), BScAg(Hons), Cert Build Contr Man, CertUrban Irr, Certified Irrigation Agronomist, Certified Irrigation Designer (Drip), Licensed Irrigation Plumber	AgEnviro Solutions Pty Ltd	NSW	Mick is a soil and drainage specialist having lectured at TAFE and university. His expertise is in turf and gardens and he wrote the Landscape Assessment Program, the Sydney Water Love Your Garden Program and much of the Best Practice Guidelines for open space in Sydney. Mick has written garden/lawn watering calculators for Sydney/ACT and more recently he has developed an iPhone application for use by park managers in determining the carrying capacity of sports fields. He also conducts training days in water savings, sport field management and resource recovery. In addition to conducting water saving audits on farms Mick has scheduled irrigation and provided advice for >200 sports fields, 20 golf courses, streetscapes and >40 parks including Hyde Park, Auburn and Mount Annan Botanical Gardens and Fitzroy Gardens. He has written models that have been used to estimate rainwater tank and pool cover savings for 22,000 houses. Mick wrote a death model that can predict the performance of plant/turf receiving less than optimal levels of irrigation which has been used to estimate the impact of water restrictions and to develop techniques for drought mitigation.	Sports fields, golf courses and gardens, Water balance modelling, Resource recovery and education, Effluent, storm water and urban salinity, Irrigation, drainage and turf, Water saving (farms, parks, residential),	0425 363 161	mick@agenviro.com
Brown	Katharine	Dr	2017	CPSS	PhD		NSW		Soil survey and land evaluation, Land resource assessment and management, Rehabilitation of degraded land, Mine rehabilitation for approvals, closures and relinquishment, Project management and technical review; Communication, <del>education and teaching</del>	0400 197 312	KLBrown@Ground-Ed.com.au
Bryce	Alisa M	Miss	2009	CPSS	MPhil ESD, BSc(Ag)		NSW	Alisa Bryce graduated from the University of Sydney in 2007 with a BScAgr. She has experience in Erosion and Sediment Control, Stormwater Management Plans an Environmental Planning. She also conducts both environmental assessments and soil analysis of public open space, including water balance modelling.	Soil surveys for irrigation and planning, Soil management of public open space, Soil classification and pedology, turf growth, soil conservation, soil survey and classification, wastewater management, hydrogeology	0468 606 226	alisambryce@gmail.com
Cattle	Stephen	Associate Professor	2006	CPSS	PhD Soil Sc, BScAg(Hons)	University of Sydney, Faculty of Agriculture and Environment; Centre for Carbon, Water and Food	NSW	After completing his PhD Stephen did a postdoc in Dept of Agricultural Chemistry & Soil Science at Univ Sydney and accepted a lectureship in soil science there in 1997. He has chaired Teaching and Learning Committees, been Associate Dean for Undergraduate Studies, and is now A/Dean(Teaching & Learning) in the Faculty of AFNR. He has taught in or coordinated most of undergraduate soil science units since 1997. Stephen has been a member of Soil Science Australia since 1991 and served as Federal President (2007 and 2008). He also served as chair of the IUSS Commission for Soil Education and Public Awareness.	Soil science education, soil formation, soil judging, soil formation on wind-blown dust, soil structure, Vertosols	02 8627 1142	stephen.cattle@sydney.edu.au

Cattle	Julie	Dr	2009	CPSS	PhD, BSc(Hons)	Department of Environment and Climate Change, Waste Reform and Implementation Unit, Waste Management Section	NSW	Dr Julie Cattle is a Senior Policy Officer in the Waste Reform, Levy and Data Unit, Department of Environment, Climate Change and Water, NSW.	Hydrology and wastewater management, Soil management and conservation, Soil chemistry, Effects of waste materials on soils, Environmental effects of hazardous chemicals in soils (especially metals), Soil chemistry and fertility, Soil analysis.	02 9995 5623	Julie.Cattle@environment.nsw.gov.au
Chapman	Greg	Mr	1999	CPSS	BSc (Soils, Ecology Land Mgmt)	Land and Soil Capability	NSW	Part time soil consultant (retired) Member NSW Soils Knowledge Network  Ran NSW Govt Soil Survey (Soil Landscape Mapping and other programs) for 16 years.  Led NSW Govt Soil Condition and Land Management within Capability monitoring, evaluation and reporting programs.  Senior author of Sydney Soil Landscapes (first in series)  Regional soils specialist, laboratory manager and urban area soil investigator for Soil Conservation	Soil survey for irrigation and landuse planning, Landscape analysis, Mapping, Soil classification, Soil program management, Land evaluation, Land and soil capability assessment, Property planning, Soil condition monitoring, Sustainable land management, Assessment of biophysical strategic agricultural land (BSAL), Sampling and soil test interpretation, Soil conservation and land rehabilitation, Modelling and scenario analysis, Expert witness.	045 045 3700	LandAndSoilCapability@outlook.com
Enman	Brett	Mr	2010	CPSS	BSc Appl Phys Geogr, Biol (Hons)	Earthwise Environmental Consultants	NSW	Earthwise Environmental Consultants founder Brett Enman is a professional Environmental Scientist who is fully accredited as a Certified Professional Soil Scientist (CPSS-2) and member of the Soil Science Australia (Australian Society of Soil Science).  Brett gained extensive experience in soil and water research during career with the NSW Department of Primary Industries soil department. Brett specialises in analysing and reporting on soil and water chemical results and making recommendations for environmentally sustainable outcomes.  Brett has written and co-authored a range of publications which are available on request.	Scientific/technical report writing, Land suitability assessment studies , Environmental auditing and risk assessment, Recycled wastewater use for irrigation, Soil and groundwater monitoring, Acid sulfate soils and salinity, Soil classification and remediation, Nutrient budgets	0421 251 064	brettenman@gmail.com

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Field	Damien	Associate Professor	2017	CPSS	PhD Soil Sc, BScAg(Hons), MPhil (Higher Ed)	University of Sydney, Faculty of Agriculture and Environment; Centre for Carbon, Water and Food	NSW	I am interested in pursuing research to the benefit of agriculture and the surrounding ecosystem. I believe this is possible by integrating good science that is also sympathetic to the values, attitudes and actions of the community that depend on a healthy agrarian society. I also value education and believe that the link between good research and teaching can be achieved by structuring an environment where students can actively engage with real world issues and problems	Soil Science Education and Training, Soil structure		damien.field@sydney.edu.au
Fox	Laurence	Mr	2016	CPSS-CSAM		Fox Environmental Consulting Pty Ltd	NSW	Consultations in mining, oil and gas, transport infrastructure and property projects for 23 years to provide clients with an in-depth understanding of the environmental conditions of their site; I am accredited with CPSS-CSAM and provide advice on remediation and environmental management. One of my key areas of expertise is the formation, identification and management of acid sulfate soils, rocks and associated acid drainage. I am a member of the National Committee for Acid Sulfate Soils, where I represent the interests of consultants. I enjoy working with clients and my team to bring an understanding of environmental and geological effects on construction and developing innovative remediation and environmental management solutions for long term project viability.	Contaminated Site Assessment and Management (CPSS-CSAM)	0420 961 259	sifox@myaccess.com.au
Giltrap	Patrick	Mr	2010	CPSS	BSc, RAB QSA certified environmental auditor	Department of Construction and Infrastructure	NSW	Patrick has 11 years experience in the environmental management industry. Originally he started out in the mining and resource sectors before specialising in the construction and infrastructure sector	Erosion and sediment control, Environmental impact asesment, Construction site management, Strategic planning	0414 491 007	patgiltrap@gmail.com

Grant	John	Mr	2011	CPSS	BSc	Southern Cross University, School of Environmental Science & Mgmt - Lismore	NSW	John Grant has been describing soils in the field for 25 years. Initially in Tasmania, starting with the description of Land Systems and leading to the mapping of forest soils for government and private forestry organisations. Since then he has been involved in mapping and assessment of soils (particularly in relation to forestry) in the Northern Territory, Queensland and NSW. Special interest areas include the matching of forestry species with site and the assessment of productivity. John has also been involved in the assessment of landslide potential and other land degradation and amelioration issues. He is working on a PhD thesis to link forest plantation productivity with site and soil characteristics while also researching soil physical determinants of tree root growth. At the same time he enjoys the stimulation and interaction that comes with the teaching of soil and land related issues to undergraduate students. He delivers a second/third year unit on soils and one on land degradation and rehabilitation in the Department of Environment and Science at Southern Cross University.	Education, Soil Mapping and Survey, Forest Plantation Productivity Prediction and Soil Management, Forestry Forest Soils, Soil Carbon Sequestration, Soil Degradation Assessment and Prevention,	0427 880 815	john.grant@scu.edu.au
Gray	Jonathan	Mr	2016	CPSS	PhD(Soil Sci), MPhil (Soil Sci), Grad Cert Nat Res, BSc(Hons)	NSW Office of Environment & Heritage , Ecosystem Management Science	NSW	25 years experience in soil science and natural resource management with the NSW government. Main interests are the modelling of soil distribution across the landscape, and land evaluation generally.	Digital soil mapping, Pedology, Soil organic carbon, Soil and land assessment		jonathan.gray@environment.nsw.gov.au
Guppy	Christopher	Dr	2007	CPSS	PhD Soil Science	University of New England, School of Environmental and Rural Science	NSW	Dr Chris Guppy is currently a lecturer at the University of New England and teaches undergraduate and postgraduate courses in soil science and agroecosystems. Recent projects include farm-scale mixed farming trials, sulfur and phosphorus fertiliser research, soil sodicity and plant nutrition and precision agriculture (GPS cattle tracking). Soil science training and experience was gained at University of Queensland under Prof Neal Menzies where he completed a PhD in phosphorus and organic matter interactions in highly weathered soils. Contact me for professional advice in any of the areas listed. I am happy to direct you to others who may be better able to assist in areas not listed.	Fertiliser research, Soil management and conservation, Soil fertility, Soil chemistry, Sodicity, Plant nutrition, Farming systems	0414 779 714	cguppy@une.edu.au

Harte	Adrian J.	Mr	2012	CPSS	MRuralSc, BScAg		NSW	Adrian Harte graduated from University of Sydney in 1974 with a BScAgr. He later undertook a work-based Masters at University of New England in 1993 on the impact of tillage practices on the structural stability of cracking clay soils in the northern NSW wheat belt, which was part of a long term inter-agency research collaboration called "the Northern No-Till Project". Between 1981 and 1990 Adrian completed early investigations on the impact of tillage history on soil structure, organic carbon and infiltration of Brigalow landscapes within the "Golden Triangle" (North Star/Croppa Creek, NW NSW). He completed soil surveys for the northern NSW (SCS NSW Technical Manual program, Urban and Rural Capability studies for clients). Between 1990 and 2004 Adrian managed regional service delivery within a range of Soil and Water Conservation agencies and coordinated the compilation of the (draft) NSW Soils Policy during 2008 to 2011. Adrian was Director Public Land Management with the NSW DPI Catchments and Lands, and Deputy Commissioner Soil Conservation Service NSW and is now a private consultant.	Soil survey and landscape mapping, Land capability assessment and land use planning, Soil conservation and land rehabilitation, Pedology, Land management impacts on soil structure and erodibility, Soil policy development	0437 663 309	adrian.harte@bigpond.com
Hazelton	Pam	Dr	1997	CPSS	PhD, Beng(Hons)	University of Technology Sydney, Faculty of Engineering, School of Infrastructure and the Environment	NSW	I have >35 years experience in soil science, geomorphology and environmental management, gained from lecturing at 4 universities in Australia and 2 universities in Europe. I have been employed as a soil surveyor for the Conservation Service of NSW and Dept of Conservation and Land Management. At UTS I am a member of the Industry Based Geotechnical Research Group and I lecture in soil science and geomorphology in environmental engineering which includes environmental assessment, management and planning. I am also a consultant for UTS engineering especially in land use change assessment. I believe the expertise gained from studying and working in soils is not understood by many other professions and is undervalued by them. The CPSS programme is one of the avenues by which the expertise of a soil scientist can be promoted to the wider community in a professional manner.	Soil management and conservation, Pedology, soil survey for land use planning and management, soil vegetation, Multidisciplinary education curriculum development and coordination of workshops	02 9514 2661	pam.hazelton@uts.edu.au

Hulme	Patrick	Dr	2000	CPSS	PhD, BScAg (Hons) , Adv Cert Irrigation	Sustainable Soils Management	NSW	Dr Hulme has published 3 refereed journal papers, 14 papers for scientific and technical conferences, 23 extension articles, book chapters and booklets and hundreds of unpublished reports. His professional experience includes: Assessed potential permeability of more than 200 sites to be used for off-river water storages; Developed and applied system to assess likely seepage from irrigation reservoirs using a combination of EM (electromagnetic induction) survey and drilling of test holes. Modified this process to locate leaky areas along irrigation channels; Key member of team which prepared modernisation plans for 2 irrigation schemes and facilitated group decisions to restructure schemes that received \$47 million of government funding; Assessed impact of several leaking channels and water storages. Advised on methods of reducing seepage and its impact; Conducted more than 200 soil surveys to assess suitability of soil for: rice, wine grapes, cotton, jojoba, olives, paulownias, almonds, and agroforestry application of treated sewage effluent, treated food factory effluent, treated abattoir effluent and coal mine drainage water, coalseam gas production water, irrigated crops, dryland crops; Provided expert input into soil surveys of three, 1:250,000 scale map sheets in northwestern NSW; Managed and provided expert input into preparation of more than 20 farm-scale irrigation and dryland farm management plans, one salinity management plan covering 100,000 ha; Developed whole farm water balance model for irrigators that forms basis of Watertrack, an award	Irrigation, Soil physics, Soil survey for irrigation and land-use planning, Soil structure assesment, management and amelioration	02 6847 3367	pat@soilman.com.au
Knox	Oliver	Dr	2016	CPSS	PhD Soil Science, BSc(Hons)	University of New England, School of Agronomy and Soil Science	NSW	My interests are in cropping systems and how the plant, abiotic and biotic soil components interact. This means I have relatively broad interests that range from farm management decisions to the microscopic life that dwells in the soils and anything that helps to pull these together.	Soil microbiology	0490 045 326	oknox@une.edu.au
Lawrie	Roy	Dr	2002	CPSS	PhD Soil Science		NSW		Soil management and conservation, Hydrology and wastewater management, Soil survey and classification, Soil fertility, Applied research expertise, Effluent disposal by land irrigation, Soil management in urban parks, Acid sulphate soil assesment & management, Soil testing and nutrient management, Soil survey for irrigation and land-use planning, Soil studies for archaeological investigations	02 4268 2578	lisalawrie@ozemail.com.au

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Lawrie	John	Mr	1997	CPSS		JW & JD Lawrie	NSW	For nearly 40 years John has been digging up the dirt on soils around the world. He graduated in Soil Science & Agronomy from University of New England in 1971. He mapped soils in western NSW in the 1970s, then pioneered mine reclamation in north QLD. He has also studied soils in Nepal, Israel, USA, and Malaysia. In 1986 he returned to the Soil Conservation Service to set up the NSW Soil Survey Unit, based in Wellington. In 1989 he became the first Property Planner in NSW, and in 1994, he became the Conservation Farming Specialist for the Central West. During this period he was very closely involved with the formation of the CW Conservation Farmers Association. More recently he was appointed the Coordinator of the Slopes for the CW CMA. He has lectured part time in Soil Management at Sydney University (Orange Campus) over many years and has extensive experience with practical on farm land management.	Training, advice and consultation, Soil management and conservation, Soil survey and classification, Soil fertility, Soil & landscape identification and mapping; Mine and disturbed-land rehabilitation, Property planning, Soil C sequestration.	0428 998 959	jlawrie@bonnievalealpacas.com johnlawrie@icloud.com
Macleod	Andrew	Mr	2005	CPSS		SEEC	NSW		Hydrology and wastewater management, Soil management and conservation, Soil survey and classification, Applied research expertise, Integrated catchment management and modelling, Assessment, management and amelioration of erosion by wind and water, soil acidity, salinity and sodicity, Site surveys and mapping, GIS, Hydrology (water and/or waste water management eg wetlands)	0414 993 969	amacleod@morsemcvey.com.au
Madafiglio	Gregory	Mr	2002	CPSS		Envirowest Consulting Pty Ltd	NSW		Soil management and conservation, Hydrology and wastewater (effluent) management, treatment and on-site disposal, Soil and site survey and classification for irrigation, Rural property planning and land capability classification, Contaminated land/soils/sites (assessment, management, amelioration)	02 6316 4954	greg@envirowest.net.au



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Masters	Rodney	Mr	2002	CPSS		GSS Environmental	NSW	Rod Masters is Managing Director and Principal of GSS Environmental. He is a former District Manager of the NSW Soil Conservation Service and has 22 y experience in formulating erosion and sediment control plans, conducting land reclamation and revegetation programs, undertaking soil surveys, preparing water management plans and assessing environmental impact of mining, rural, industrial and urban developments. Having fulfilled the roles of extension officer, regulator, consultant & contractor, Rod is in the unique position of having an intimate knowledge and understanding of the soil & water industry from all perspectives. Rod has been recently engaged by the NSW Department of Environment & Conservation to prepare the Mines & Quarries Chapter of "Managing Urban Stormwater: Soils & Construction" (or the Blue Book as it is known in Government circles).	Soil survey and classification, Soil management and conservation, Erosion and sediment control, revegetation and mine rehabilitation	0417 287 265	masters@gssenvironmental.com
McBratney	Alexander	Professor	2007	CPSS	DSc, PhD, BSc(Hons) Soil Science	University of Sydney, Faculty of Agriculture and Environment; Centre for Carbon, Water and Food	NSW	After completing his PhD at Rothamsted Experimental Station, UK, Alex spent 7 y with CSIRO Division of Soils, Brisbane. He then joined University of Sydney in 1989 and is currently Pro-Dean of Faculty, Professor of Soil Science, and Director of the Australian Centre for Precision Agriculture. He is joint Editor-in-Chief of Geoderma and is heavily involved in the International Union of Soil Sciences and the global digital soil map project. Alex is a highly experienced research supervisor who has supervised 16 PhD students, published > 160 refereed scientific papers with an H-index of 31. He holds Discovery and Linkage grants from the Australian Research Council and several from the rural research and development corporations, most notably the Grains Research and Development Corporation.	Soil survey and classification, Applied research expertise, Basic research expertise, Soil C and climate change (C-sequestration in soils), Soil and farm database management (Precision agriculture), Digital terrain analysis, Site surveys, mapping and digital soil mapping, Pedology, soil classification, Soil physics (soil water, soil mechanics)	02 9351 3214	A.mcBratney@usyd.edu.au
McKay	Colin	Mr	2008	CPSS	BSc(Hons), Grad Dipl (IT)	WSP Environmental Pty Ltd	NSW	Colin McKay has >14 y broad-based consultancy experience and has developed skills in soil survey, methodology, characterisation and chemistry; groundwater investigation, hydrogeology and chemistry; soil degradation, contamination and salinity assessment; acid sulfate soil investigations and management; contaminated site remediation; and database design and data presentation.	Contaminated land and soil site investigation (assessment for contamination, environmental management, amelioration and remediation), Chemical contamination assessment and remediation (asbestos, diesel, petrol, heavy metals (lead, arsenic, chromium, mercury), landfill gas, tar, creosote, pesticides), Soil survey, Acid sulfate soils (assessment, management), Salinity investigation consultant, Health risk assessment Hydrogeology (groundwater), drilling and well installation, Waste classification, Expert witness, Database design and data	0448 977 926	colin.mckay@wspgroup.com

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McKenzie	David	Dr	2002	CPSS	PhD Soil Science	Soil Management Designs	NSW	David has been a private soil consultant since 1996. The services he provides are described on the company website: <a href="http://www.soilmgt.com.au">www.soilmgt.com.au</a> . Previously, David carried out soil structure research with NSW Agriculture, University of Sydney, and University of New England. He has written > 40 peer-reviewed scientific papers dealing with agricultural soil assessment and management. Voluntary activities for the soil science community include: Chairman and member of the CPSS Accreditation Board, Soil Science Australia; Member of the CG Stephens Award Committee, SSA; Chairman of ISTRO Working Group F (Visual soil examination and evaluation). David is a specialist in the assessment, amelioration and protection of soil structure, with a focus on compaction and sodicity.	Training, advice & consultation services, Soil management and conservation, Soil survey and classification, Applied research expertise, Advice for agribusiness about soil risk assessment, BSAL assessments for mining companies and soil recommendations for rehabilitation, Expert witness for soil-related legal cases; Soil-related technical reviews for government agencies and farmer lobby groups; Development and application of soil management "decision support systems" for farmers and their advisers, with an emphasis on soil assessment for yield map interpretation	0458 497 574	david.mckenzie@soilmgt.com.au
McLeod	Malem	Dr	2005	CPSS	PhD Soil Science	NSW Department of Primary Industries, Tamworth Agricultural Institute	NSW		Soil management and conservation, Basic research expertise, Soil physics (soil water, soil mechanics), Assessment, management and amelioration of soil salinity, sodicity, soil structure, erosion by wind and water; Soil hydrology (root zone/vadose zone modelling of soil water balance)	0427 652 154	malem.mcleod@dpi.nsw.gov.au
Morand	David	Mr	2014	CPSS	BScApplGeogr(Hons)	NSW Office of Environment and Heritage	NSW	David Morand is a Senior Scientist, Land and Soil Assessment, with the Office of Environment and Heritage in Alstonville New South Wales. Previously he has worked on Soil Surveys of the Northern Emirates and the Emirate of Abu Dhabi.	Soil survey, Land evaluation, Aerial photograph interpretation, Soil landscape mapping of the NE parts of NSW, Acid sulphate soil risk mapping, BSAL,	0419 482 473	david.morand@environment.nsw.gov.au
Mulvey	Philip	Mr	1997	CPSS-CSAM	BScAg(Soil Sci)	Environmental & Earth Sciences PL	NSW	Phil Mulvey is the Principal Scientist at The Centre for Contaminant Geosciences and he lectures at a number of Universities throughout Australia. He also directs the research conducted at The Centre.	Applied research expertise, Training, advice & consultation services, Soil management and conservation, Soil chemistry and fertility, Soil testing and nutrient management, fertilizer advice, Chemistry and risk assessment of organic pollutants, Soil C and climate change (C-sequestration in soils)	02 9922 1777	pmulvey@environmentalearthsciences

Packer	Ian	Mr	2012	CPSS	BScAg (Hons)		NSW	19 y experience applied soils /agronomy research /extension on land, vegetation and water management (conservation farming in cropping and grazing). Main research includes 1) Conservation tillage and grazing soil management systems for dryland and irrigated agriculture to improve soil physical, chemical and biological properties for greater water use efficiency, 2) Soil moisture monitoring within catchments and water balance modelling for dryland salinity control, 3) Effects of pastures and grazing on soil physical properties to address soil structure and erosion problems from overstocking, 4) Effects of crops, pastures, tillage and grazing on soil water recharge. Ian also has 21 y experience in soil, vegetation and water management in urban soil conservation, including investment strategies, catchment action plans and CMAs. Ian has extensive policy knowledge and implementation for applied soil, vegetation and water management; Earthwork design and implementation on farming and grazing lands in central and southern tablelands and the Riverina, Central West and Hunter regions of NSW; Preparation of integrated property management plans for landholders in Evans Plains, Isis River and Reedy Creek; Field days and formal training events for accredited farm plans; Earthwork erosion control and land management programs for vegetation cover. Design, supervision and construction of masonry gully flumes, which the Soil Conservation Service subsequently used widely. Collection of data, preparing consultancy reports on erosion control and	Soil pit description, Soil test interpretation, Land management, Landholder /community extension, National and international conference presentations; Computer and software skills; Writing skills for external funding applications, scientific papers and extension media; Practical agronomic, stock and machinery skills necessary; Farm planning, conservation farming, Landscape interpretation using soil and geological information, Classifying vegetation communities, Soil structure and the impacts on the landscape and natural resources.	0428 638 510	ian.packer@hotmail.com
Patterson	Robert (Bob)	Dr	2002	CPSS	PhD	Lanfax Laboratories	NSW	Dr Patterson provides soil survey and soil analysis for wastewater treatment and discharge to land, for remediation of degraded lands, to beneficial effluent reuse and disposal of wastewater from domestic dwellings. The consultancy is supported by a small independent research and commercial laboratory, specialising in soil, water and wastewater analysis and assessment. Proficiency tested with Australasian Soil and Plant Analysis Council. Specialist research in laundry products with respect to reuse of wastewater from households.	Waste water (treatment and management on site), Effluent re-use by land irrigation, Soil landscape analysis, Soil analysis and interpretation, Soil chemistry, Soil surveys for irrigation and land-use planning	0427 005 648	lanfaxlabs@bigpond.com
Pointon	Shane	Mr	2013	CPSS	A/Dipl Sci, BSc	AMEC	NSW	Shane Pointon is a Senior Soil Scientist with >20 y experience in NRM. Shane has managed numerous research projects across a range of disciplines and has technical specialisations in soil science, including land resource assessment, soils mapping, and acid sulfate soils investigation and mapping. Shane has described, sampled and mapped soils throughout Queensland, including extensive mapping of acid sulfate soils in South-east Queensland.	Soil science. Land resource assessment. Soils mapping. Acid sulfate soils investigations and mapping.	0459 028 003	shane.pointon@amec.com

Richards	Clayton	Mr	2011	CPSS	BNatRes(Hons)	SLR Consulting	NSW	Clayton has spent 13 y as an Environmental Consultant in the NSW and QLD resources sector, focussing on soil survey and land capability assessments, agricultural impact statements, erosion and sediment control, mine rehabilitation, mine closure strategies and mine planning approvals. Clayton is a Principal Level Consultant for SLR. After completing his BNatRes(Hons), Clayton became an Environmental Consultant in the mining industry with Global Soil Systems (1999 to 2002), where he focussed on mine site rehabilitation, erosion and sediment control, and operational mine work. In 2002, he ventured into education for 4 years (2002 to 2006) as a high school and TAFE teacher in physics, chemistry, earth science, soil science and conservation & sand management. In 2006, Clayton returned to the mining industry, joining GSS Environmental as a Senior Consultant, where he built and managed the GSSE Soils, Agriculture and Rehabilitation team. In 2013 he went to Tamworth NSW and stepped out of the team management role, moving into a pure project role to focus on providing technical expertise in the areas of soil assessment, agricultural impacts and mine rehabilitation. The purpose of this move was to ensure clients in the resources sector continue to get first class service in these disciplines	Soil survey and land resource assessment, Land rehabilitation and mine closure planning; Erosion and sediment control, Agricultural impact assessments.	0408 474 248	crichards@slrconsulting.com
Sorongan	Dahmon P	Mr	2009	CPSS	MSciTech, BSc(Env)	KPMG	NSW	Dahmon Sorongan is Principal Environmental Consultant with KPMG, Perth. He was previously Senior Environmental Scientist with SGA Environmental, Sydney. He completed a BScEnv(Hons) in Soil Science at University of Sydney in 2000 and completed a MScTechGIS at UNSW in 2005. Dahmon worked for Environmental Earth Sciences for 8 years and now has 9 years experience in assessment and remediation of contaminated soil and groundwater media throughout Australia. Dahmon has extensive experience in: soil and groundwater investigations; hazardous materials assessments; design and implementation of soil and groundwater remediation systems; land capability assessments; salinity and acid sulfate soil assessments; soil science; geographic information systems (GIS); air, gas and groundwater monitoring; landfill monitoring; global positioning systems (GPS) surveying & processing; and contaminated sites drilling and well installation.	Soil and groundwater investigations Hazardous materials assessment, Design and implementation of soil and groundwater remediation systems, Land capability assessments, Salinity and acid sulfate soil assessments, GIS; Assessment, management and amelioration of contaminated land/soils/sites, acid sulfate soils, soil acidity, salinity and sodicity; Site surveys and mapping. He is a licensed driller in NSW.	0428 533 448	dsorongan@kpmg.com.au

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as at 4/06/2018

Sullivan	Leigh	Professor	2003	CPSS	PhD Soil Science	Federation University	NSW	<p>Professor Leigh Sullivan is Deputy Vice-Chancellor (Research and Innovation) at Federation University Ballarat. Prior to this role he was a founding Director of Southern Cross Geoscience and Professor of GeoScience. His research interests embrace: 1. the geochemistry and submicromorphology of soils and sediments (especially acid sulfate soils), 2. reducing global CO2 emissions by enhancing secure carbon biosequestration via plantstone carbon in crops, pastures, forestry and horticulture, and 3. the development of sustainable food production and supply systems. Many of Leigh's contributions in soil science have been in the area of acid sulfate soil science and management, but they also cover soil organic matter characterisation and dynamics, clay movement in soil, the effect of microstructure on soil behaviour, and the micromorphology and mineralogy of many soil components. Leigh has co-pioneered research in the role of plantstones (aka. silica phytoliths) in crops, pastures and trees to enhance the secure biosequestration of terrestrial carbon. Leigh is also co-leading the development of sustainable agribusiness systems that result in agribusinesses enhancing the health and resilience of their agricultural landscapes, that result in the delivery of enhanced value to all participants in the food supply chain, and that result in enhanced food security. Leigh has authored over 280 scientific publications, and has won in excess of \$6 million dollars of competitive funding in the past 5 years to support his research.</p>	Acid sulfate soils, Soil carbon and climate change, Soil Chemistry, Pedology and soil classification		l.sullivan@federation.edu.au
Walker	James	Mr	2009	CPSS		SGA Environmental	NSW	<p>James Walker is a Senior Environmental Scientist with SGA Property Consultancy in Sydney, NSW. He has over 8 years experience in environmental science in Australia and the United Kingdom.</p>	Training, advice and consultation, Hydrology and wastewater management, Soil and groundwater contaminated site investigation, contaminated land remediation, Hazardous building material assessments, Environmental due diligence assessments, Wastefill classification, GIS	0417 069 585	jwalker@sgaproperty.com