

**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/DiplAppSc	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
Ashford	Tamara	Miss	2010	CPSS	BEnvSc(Hons)	Environmental Earth Sciences QLD	QLD	Tamara has worked with Environmental Earth Sciences in Queensland (2009-2013) and Victoria (2013 onwards). Tamara is experienced in project management of contaminated land and is familiar with Qld, NSW and Victorian legislation for assessment of contaminated land as well as waste classification and acid sulfate soils. Tamara is able to undertake preliminary and detailed site investigations with interpretation of groundwater and soil chemistry data; soil, groundwater, surface water and vapour sampling and investigation; groundwater and soil contamination assessment; landfill monitoring; acid sulfate soil assessment and management plans; soil classification and soil remediation.	Contaminated land assessment and soil remediation, project management, preliminary and detailed site investigations, interpretation of groundwater and soil chemistry data	0400 037 992	tashford@environmentalearthsciences.com
Azam	Gausul	Dr	2017	CPSS	PhD Soil Physics, MSc Soil Sci, BSc(Hons)	Department of Agriculture and Food Western Australia	WA		Soil physics, soil plant relationships, soil acidity, soil structure and soil water relations	0433 883 837	Gaus.Azam@dpird.wa.gov.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	<a href="mailto:soilfutures@clearmail.com.au">soilfutures@clearmail.com.au</a> <b>or</b> <a href="mailto:vertosol2380@gmail.com">vertosol2380@gmail.com</a>
Bannan	Christian	Mr	2017	CPSS	BAG(Hons), Adv Dipl Agr	South East Soil and Water	VIC	Passionate about soils & practical options for soil management based on field evidence and science.	Environmental and agricultural science	0439 341 265	<a href="mailto:christian@sesw.com.au">christian@sesw.com.au</a>
Barlow	Kirsten	Dr	2007	CPSS	PhD	Department of Primary Industries Victoria	VIC		Hydrology and wastewater management, Soil fertility, Soil pollutants (assessment, management & amelioration), Soil chemistry, Soil physics (water and mechanics), Contaminant hydrology	0418 398 166	<a href="mailto:kirsten.barlow@dpi.vic.gov.au">kirsten.barlow@dpi.vic.gov.au</a>

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
Baumgartl	Thomas	Associate Professor	2017	CPSS	PhD(Soil Science), Habilitation	University of Queensland, Centre for Mined Land Rehabilitation	QLD	Thomas joined the Centre for Mined Land Rehabilitation in 2004. He has a PhD in Soil Science, Univ of Bayreuth, Germany (1990): Stress distribution in differently textured soils and its meaning for soil stability (in German)  Feodor-Lynen Fellowship of the Alexander-von-Humboldt Foundation (1995) at the Dep. of Agriculture, University of Queensland, Brisbane, Australia  Habilitation, Univ of Kiel (2001): Coupling of mechanical and hydrological state functions of soil for the determination and modelling of tensile stress and volume change in porous media (in German)	Soil physics, soil mechanics, revegetation of mined landscapes, landscape hydrology, soil science education & training.	07 3346 4061	t.baumgartl@uq.edu.au
Bell	Richard	Dr	2002	CPSS	PhD	Murdoch University, School of Environmental Science	WA		Soil management and conservation, Soil fertility, Soil testing and nutrient management, fertilizer advice, Plant nutrition (crops, pastures, horticulture, forestry), Soil acidity, salinity, sodicity (assessment management amelioration)	0405 131 429	R.Bell@murdoch.edu.au

Bennett	John McLean	Dr	2011	CPSS	PhD, BSc Res&EnvMgmt(Hons)	University of Southern Queensland, National Centre for Engineering in Agriculture	QLD	<p>Doctor John McLean Bennett is a Postdoctoral Research Fellow with the National Centre for Engineering in Agriculture, at the University of Southern Queensland, and is leader of the Sustainable Soils Management theme. He is also a lecturer in soil science and natural resource management within the Faculty of Engineering and Surveying at the University of Southern Queensland. John has a Doctorate of Philosophy (Soil Science), from the University of Sydney, and a Bachelor of Science (Resource and Environmental Management) with first class honours in soil science, from the Australian National University. John has also recently (2011) undergone training to allow access and operation on mine-sites, where he is currently involved with research into soil structural response to and management strategies for the use of amended coal seam gas water. His career in soil science has been focussed on soil structural condition, particularly sodicity and salinity in the irrigated and dryland cropping regions of NSW. Current research is focussed on management of industrial by-product water, specifically coal seam gas water and intensive livestock effluents.</p>	<p>Assessment, management and amelioration of Soil structure, Soil salinity and sodicity, Effects of waste materials on soil; Soil-water interactions (solute movement, solute loading, permeability); Soil fertility/health/quality</p>	0438 683 426	John.Bennett@usq.edu.au
Biggs	Andrew	Mr	2011	CPSS-AusSS	PhD, MAgSc, BAgSc	Department of Environment and Resource Management	QLD	<p>Dr Andrew Biggs is a Senior Soil Scientist with the Department of Natural Resources, Mines and Energy in Queensland. Andrew has 25 years' experience in soil survey and land evaluation throughout Queensland. His PhD was focussed on catchment scale salt balances in the Queensland Murray-Darling Basin and he has spent many years working in the field of salinity and shallow hydrogeology. Andrew has a strong interest in soil survey data quality and was a key member of the team that developed the Queensland Government soil survey database. He also has a strong focus on the ecological applications of soil data through involvement in a number of projects concerned with flora and fauna distribution. Andrew is a past-president of the Queensland Branch of the Society and has been actively involved in running soil refresher training workshops for the Branch for more than a decade. He is an Honorary Senior Fellow in the School of Agriculture and Food Science at the University of Queensland.</p>	<p>Pedology, soil classification, soil survey, land-use planning, training/education, salinity, hydrogeology, data management</p>	07 4688 1062	andrew.biggs@derm.qld.gov.au
Botta	Catherine	Mrs	2009	CPSS	MAg(Soil Man Cons)		VIC	<p>Catherine Botta is a private consultant based at Benalla in Victoria.</p>	<p>Soil organic matter, Communication of basic soil science concepts, Soil acidity, Soil salinity, Training advice and consultation services, Soil management and conservation</p>		cbotta@bigpond.com

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Bradley	Kylie	Dr	2017	CPSS	PhD, soil chemistry, BSc(Hons)	CDM Smith	QLD		Contaminated site assessment and assessment of soils for reuse & disposal; soil chemistry	0405 382 958	bradleykj2@cdmsmith.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; Communcation, education and teaching	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
Buchanan	Simon	Mr	2011	CPSS	MPhil(Disturbed Land Rehabilitation), BLandResSci(Hons)	Landloch	QLD	<p>Simon has over fourteen years of practice as an environmental scientist in consulting, research, and government organisations. His experience relates to various aspects of environmental activities for development, construction, and mining and has worked at numerous projects across Queensland, Northern Territory, and New South Wales.</p> <p>Simon is recognised as a Certified Professional Soil Scientist (CPSS Stage 2) and a Certified Professional in Erosion and Sediment Control (CPESC).</p> <p>From 2012 to 2014 Simon was appointed as a member of the Strategic Cropping Land Science and Technical Implementation Committee which provided independent scientific and technical advice on soil and land resources in relation to the implementation of the Strategic Cropping Land (SCL) policy to the Queensland Minister for Natural Resources and Mines. In 2014 Simon became a member of the Queensland Government-Industry Working Group for Soil Science.</p> <p>Simon is also a Past President of the Soil Science Australia Qld Branch.</p>	Soil assessments for EISs, environmental authorities, and development approvals, including strategic cropping land, land suitability, and good quality agricultural land, acid sulphate soils, contaminated land, erosion and sediment control, and disturbed land rehabilitation	0421 656 288	buchanan@landloch.com.au

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Butler	Andrew	Dr	2017	CPSS	PhD Soil Sc, BSc Soil Sci(Hons)	NRA Environmental Consultants	QLD	Andrew has over 26 years experience as a soil and environmental scientist working in consultancy, R&D and land resource development in Australia, PNG, SE Asia, Europe and the Middle East. Andrew's main areas of work include mine site rehabilitation (EIS, soil resource assessments at greenfield sites, development of rehabilitation strategies, nomination of closure criteria and rehabilitation monitoring), effluent irrigation (feasibility and impact assessment) and soil and water quality monitoring and assessment. His focus is on applying his knowledge to providing practical solutions across a diverse range of environmental problems	Mine site rehabilitation/closure, soil erosion hazard assessment and management, Soil resource assessment and stripping advice, Effluent disposal by land irrigation, Soil quality (fertility, sodicity, salinity), EISs, Soil and water chemistry		andrew@natres.com.au
Butterly	Clayton	Dr	2016	CPSS	PhD Soil Sc, BSc(Hons)	LaTrobe University, Department of Agricultural Sciences	VIC	Dr Butterly is an early career researcher with a doctorate in soil ecology and nutrient cycling. Strong background in Australian farming systems with research experience in field and laboratory studies. Presented research at four international and seven national conferences and over 20 research papers in miscellaneous publications. Recently chosen to participate in the 2009 Australian Academy of Science "Theo Murphy High Flyers Think Tank". Excellent organisational skills, an ability to manage and prioritise tasks and work efficiently and effectively within dynamic research teams.	Soil ecology, Nutrient cycling, research and teaching	03 9479 2426	C.Butterly@latrobe.edu.au
Cartwright	Louise	Dr	2004	CPSS-CSAM	PhD, BAGSc(Hons)	Lendlease Australia	QLD	Dr Louise Cartwright is a Senior Soil Scientist with Lendlease.	Soil management and conservation, Training, advice & consultation services, Hydrology and wastewater management (on-site), Rural property planning, land capability classification, Contaminated land/soils/sites (assessment, management, amelioration), Acid sulfate soils (assessment, management, amelioration),	0447 074 334	louise@enviropacific.com.au
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
Clark	Gary	Dr		CPSS	PhD Soil Sc	LaTrobe University	VIC		Soil Science Education and Training	0417 132 078	g.clark@latrobe.edu.au
Cogle	Alexander L	Dr	2002	CPSS			ACT		Rural property planning, Land capability classification, Hydrology and wastewater management, Soil management and conservation, Integrated catchment processes and modelling, Land rehabilitation (legislation, guidelines), Assessment, management and amelioration of wind and water erosion, soil acidity, salinity, sodicity.	0437 321 267	ruscog@ozemail.com.au
Coventry	Ross	Dr	2002	CPSS	PhD Soil Sc	Soil Horizons Pty Ltd	QLD		Training, advice and consultation in urban soil management, wind and water erosion; site surveys and mapping, Soil testing and nutrient management, fertiliser advice, <u>Pedology and soil classification.</u>	0412 346 913	Ross@soilhorizons.com.au
Crawford	Mark	Mr	2016	CPSS	MScAg, B Land & Water Sc	Department Natural Resources and Mines	QLD	Mark Crawford is a Land Resource Officer with the Department of Natural Resources and Mines based at Toowoomba Qld. His areas of specialization include soil classification, GIS, ArcGIS, digital mapping, Advanced Soil Science. He completed his Masters Thesis on Fuzzy modelling of soil suitability in relation to crop yield at the farm scale.	Soil classification, GIS, ArcGIS, digital mapping, Advanced soil science, Communications, Hydrology, Environmental law and ethics	07 4529 1430	mark.crawford@drmn.qld.gov.au

Cumming	John Paul	Dr	2004	CPSS	PhD Env Soil Chem, BAgSc(Hons)	Geo-Environmental Solutions PL	TAS	John Paul Cumming is a Director of Geo-Environmental Solutions, a company dedicated to delivering innovative, science-based and affordable solutions to complex environmental challenges.	Soil survey and classification, Training advice and consultation, Soil management and conservation, Environmental soil chemistry, Soil physics, Pedology	0413 541 531	jcumming@geosolutions.net.au
Currie	Dougal	Dr	2017	CPSS	PhD Soil Physics, BSc(Hons)	CDM Smith	SA		Environmental (soil) physics and landscape hydrology, Root zone drainage, Soil quality	0402 936 117	curriedr@cdmsmith.com
Dang	Yash Pal	Dr	2016	CPSS	PhD Soil Chem Plant Nut, MSc Soil Sc, BSc Soil & Water Mgmt, Grad Cert Geomatic Studies	The University of Queensland	QLD	Dr Yash Dang is Senior Research Fellow at The University of Queensland possess extensive experience in soil and nutrient management. He is currently leading a national project on costs of edaphic stresses to the Australian grains industry. He is also leading the northern grains region in national GRDC projects to identify and manage soil constraints, conservation agriculture, strategic tillage and sustainable land management practices. While his research spans in the areas of crop production, much of his research focuses on soil constraints. He has also coordinated soil carbon and soil quality projects in Queensland cropping soils. Yash has great faith in engagement with the farmers to develop collaborative, participatory research project to address soil health issues. He also has strong interest in proximal and remote sensing to identify constraints at farm and national scales for site-specific soil and nutrient management.	Soil Constraints, Strategic tillage, Conservation agriculture, Precision agriculture	0427 602 099	y.dang@uq.edu.au
Dohle	Lynette	Ms	2017	CPSS	MAGSc(Soil Conserv), BAgSc(Hons)	Primary Industries and Regions South Australia	SA	Lyn Dohle works for PIRSA as a Senior Land Management Consultant located at the Kingscote Office. She provides expert technical advice and support in soil, water and vegetation management with an emphasis on sustaining both primary industries and enhancing natural resources. She has worked in this area for over 25 y and provides land management consultancy services to the State Government, Natural Resource Management Boards, farming systems groups and individuals.  Lyn was awarded a Certificate of Merit for the McKell Medal in 2010 in recognition of her skills and expertise in land management. The McKell Medal is the most prestigious Australian award for excellence and achievement in natural resource management.	Soil conservation, Land management planning, Soil acidity	0419 846 204	lyn.dohle@sa.gov.au



Doyle	Richard	Dr	2008	CPSS	PhD, MSc, BSc(Hons)	University of Tasmania, School of Agricultural Sciences	TAS	<p>Richard Doyle is a Senior Lecturer in Soil Science and is the Deputy Head of the School of Agricultural Science at the University of Tasmania (UTAS). He did his undergraduate, honours and Master studies in Wellington NZ in the late 1980's and recently obtained his PhD in soil science from UTAS (2005).</p> <p>He has over 20 years of research and teaching experience in Universities and private organisations in New Zealand and Australia. Both his masters and doctoral theses were undertaken on soil erosion and sedimentation in a geo-archaeological project in northern Greece. He first came to Australia in 1990 as one of the Group Leaders on Expedition Finnigan in North Queensland with the Australian and NZ Scientific Exploring Society (ANZES) undertaking soil mapping, geological mapping and youth training. In 1991 Richard Doyle moved to Tasmania to take up the position of soil surveyor with the Tasmanian Department of Primary Industry in Launceston, undertaking soil mapping and land capability assessment. In 1994, Richard accepted the position of lecturer in soil science at the University of Tasmania, specialising in soil formation, land suitability assessment and land degradation. Within the School of Agricultural Science he has supervised or co-supervised to completion 16 honours projects, seven doctoral projects and two masters projects. In March 2004, Richard was awarded a Rotary International University Teacher Scholarship to teach for one semester at the University of Namibia in Africa.</p> <p>Ruchard is currently involved in research into</p>	Soil mapping and classification, Land evaluation, Soil chemistry, Waste water re-use on soils, Geo-archeology and geochronology, Soil genesis and landscape history, Soil survey and classification, Research, Hydrology and wastewater management, Soil management and conservation	0419 112 264	Richard.Doyle@utas.edu.au
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Dudgeon	Stephen	Mr	2011	CPSS	BAppSc, CPESC accreditation	O2 Environment + Engineering	QLD	<p>Steve Dudgeon is a director with the O2 environment + engineering consulting company. Steve has over 20 year's soil and water management and assessment experience. His specialist skills lie in erosion and sediment control, soil and water management, waterway health assessment and rehabilitation, water quality and WSUD.</p> <p>Steve has an excellent understanding of soil and water management, assessment principles, processes and practices and is highly experienced in the design of complex assessment programs as well as physical, chemical and biological sampling techniques.</p> <p>He has a sound knowledge of landscape geomorphology, fluvial geomorphology and limnological processes (physical, chemical and biological) including a very high level of experience in data interpretation and report writing. Steve also has a high level of experience in project and contract management.</p>	Catchment management planning, Waterway management, assessment and rehabilitation, Fluvial geomorphology, Soil and water management planning, Erosion and sediment control planning and advice (CPESC accredited), Water quality and sediment modelling	0405 460 202	steve.dudgeon@0-2.com.au
Eggleston	Grant	Mr		CPSS		ADE Consulting Group (VIC) Pty	VIC				
Enman	Brett	Mr	2010	CPSS	BSc Appl Phys Geogr, Biol (Hons)	Earthwise Environment al Consultants	NSW	<p>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).</p> <p>Brett gained extensive experience in soil and water research during career with the NSW Department of Primary Industries soil department.</p> <p>Brett specialises in analysing and reporting on soil and water chemical results and making recommendations for environmentally sustainable outcomes.</p> <p>Brett has written and co-authored a range of publications which are available on request.</p>	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

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
Fitzpatrick	Robert	Dr	2000	CPSS	PhD MinGeochem, MScAg Soil Sci, BScAg Soil Sc (Hons), Dipl ChemTech, Cer. Mine Assay Competency	CSIRO Land and Water	SA	Recent professional experience: National and international leadership in recognising and establishing the importance, extent and severity of inland acid sulfate soils as an environmental issue in both public and government arenas; Leading development of first national map and atlas of coastal and inland Australian acid sulfate soils, which underpins procedures and guidelines for identification and remediation strategies of acid sulfate soils in environments across Australia; Developing a new geochemical sampling medium for mineral exploration, based on an understanding of acid sulfate soil processes. He is a Fellow of the Australian Academy of Technological Sciences and Engineering (FTSE), and was awarded the: Gold medal for science by the Chinese Academy of Sciences in 1997; Prescott Medal of Soil Science awarded by the Australian Society of Soil Science for outstanding contributions to soil science in 1998; Sir Joseph Verco Medal awarded by the Royal Society of South Australia for outstanding contributions to science in 1999. He is a member of the following Soil Science Societies: Australian (Certified Professional Soil Scientist: CPSS), British, American, South African (Fellow); International Union of Soil Sciences (Life Member, since 1983), International Association for the Study of Clays (Life Member, since 1984), Australian Clay Minerals Society, Royal Society of South Australia, International Geohazards Working Group, Australian and New Zealand Forensic Science Society (ANZFSS). He has published >70 journal articles. 67	Soil management and conservation, Research, Soil forensics, Soil biochemistry. He is a Chief Research Scientist and leads the Soil Biochemistry Group and Advanced Analytical Techniques in Biochemistry stream in CSIRO Land and Water; He is a Professorial Fellow at Flinders University, and University of Adelaide.	0408 824 215	rob.fitzpatrick@csiro.au
Fogarty	Peter	Mr	2000	CPSS		Soil & Land Conservation Consulting P/L	ACT	Soil management and conservation, Soil (and site) survey and classification for irrigation and land-use planning, Mapping, Land capability classification and rural property planning, Hydrology and wastewater treatment and management (on site), Pedology and soil classification, Wind and water erosion (assessment management amelioration)		0409 129 608	slcc@netspeed.com.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	slfox@myaccess.com.au
Galloway	Justin	Mr	2002	CPSS		Johns Environmental Pty Ltd	QLD	Justin is an experienced Soil Scientist with expertise in the areas of effluent reuse by land irrigation, soil and land resource mapping, pedology, salinity assessment and GIS systems. Over the past 15 years he has worked on preparing Development Applications, Land and Water Management Plans, Compiling environmental and irrigation management plans (EMP/IMPs) for abattoirs, councils, intensive animal and other industries. He also conducts environmental sampling (soil, effluent, groundwater etc.) and reports for various industries according to standard protocols and licensing conditions.	Effluent reuse by land irrigation, Soil surveys for irrigation and land-use planning, Training, advice & consultation services, Pedology, soil classification, Soil salinity/sodicity (assessment, management, amelioration), Geographic information systems (GIS)	0429 472 029	justin@johnsenv.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 assessment, Construction site management, Strategic planning	0414 491 007	patgiltrap@gmail.com
Grant	Cameron	Dr	2005	CPSS	PhD soil physics, MSc soil physics, BScAg(Hons)	BG Horizons	SA	I am interested in applying the principles of Soil Physics to improve our understanding of soil water retention, movement and availability to plants. I am also interested in the mechanisms of self-mulching behaviour in clay soils, and whether these can be manipulated to make the properties of cricket pitches more manageable, or at least more predictable.	Applied soil physics, plant available water, soil structure (assessment, management, amelioration), Training, advice and consultation services, Soils for cricket pitches.	0408 088 953	cameron.grant@adelaide.edu.au

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
Grover	Samantha	Dr	2016	CPSS	PhD Soil Science, BSc(Hons), BSc Chem, BA	LaTrobe University, AgriBioScience	VIC	Greenhouse gas emissions from organic soils	Soil microbiology, Education and communication of soils	0458 197 540	s.grover@latrobe.edu.au
Grundy	Michael	Mr	2010	CPSS	BEcon, MAgrSc, BAgSc(Hons)	Queensland Bioscience Precinct - St Lucia	QLD	Mr Mike Grundy has recently established the new Landscapes Systems and Trends Theme within the equally new Sustainable Agriculture flagship of CSIRO. Prior to establishing the new Landscapes Theme and leading the MASaLA Theme, Mr Grundy was the Theme Leader for Healthy Water Ecosystems within CSIRO's Water for a Healthy Country Flagship, which concentrated CSIRO's water ecosystem research skills on to the national high priority issues in the Great Barrier Reef catchments, south-east Queensland, the Murray-Darling Basin and south-west Western Australia.	Spatial Soil Science, Land Resource Assessment, Pedology, Intergrated Landscape Assessment, Spatial modelling	0419 718 058	Mike.Grundy@csiro.au

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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
Harding	Andrew P	Mr	2017	CPSS	MAg(Soil Conservation), BAppScAg, Grad Dip Ag, Dipl Proj Mgmt, MBH, Dipl Mgmt	Rural Solutions SA	SA	Andrew is a Senior Consultant in Sustainable Agriculture with Rural Solutions SA	Project planning, development, management, evaluation and reporting. Technical expertise in soils/ soil conservation and sustainable land management particularly in soil nutrition, water erosion control, dryland salinity and soil acidity. Soil pH mapping, Sustainable farming systems, Facilitation and group dynamics, Market research: social survey skills	0417 886 835	andrew.harding@sa.gov.au
Hardy	Scott	Mr	2000	CPSS		Whitsunday Shire Council	QLD		Soil management and conservation, Soil survey, classification and mapping, Land rehabilitation (legislation, guidelines), Rural property planning, Land capability classification, Wind and water erosion (assessment, management, amelioration), GIS	07 4945 0245	scott.hardy@whitsunday.qld.gov.au
Harms	Ben	Mr	2016	CPSS	MLandResSc, Grad Dip Land Rehab, Dip Ed, BForSc	Department of Science, Information Technology and Innovation	QLD	Ben Harms is a scientist with diverse skills in soils and natural resource management. He is particularly interested in the influence of landform, vegetation and land-management on soil properties and the spatial distribution of soil attributes. Ben has extensive experience in the collection, processing and synthesis of natural resource information from field description and sampling to complex database, GIS mapping and landscape modelling applications. Ben is internationally recognised for his knowledge and expertise in soil classification.	Land resource assessment, Soil classification, GIS mapping	07 3170 5635	ben.harms@dsiti.qld.gov.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





Imhof	Mark	Mr	2008	CPSS	BAppSc(Nat Res)	Dept. Env & Primary Industries, Agriculture Group	VIC	Mark Imhof is the research manager-soil sciences in the future farming systems research division of the Victorian Department of Primary Industries	Victorian Resources Online, Soil classification and survey		mark.imhof@depi.vic.gov.au
Islam	Arshad	Dr	2011	CPSS	PhD (Soil chemistry, microbiology fertility), MSc, BScAg(Hons)	Southern Cross Soil Testing	VIC	Dr Arshad Islam established Southern Cross Soil Testing.	Extensive experience in soil nitrogen (N) transformations, Strong laboratory analytical, computer and statistical skills, Experienced in literature reviews	0413 262 942	enquiries.soiltesting@gmail.com
Itakura	Takashi	Dr	2006	CPSS	PhD, BAppSc(Hons)	SLR Consulting Australia Pty Ltd	QLD	Dr Itakura is a senior project consultant specialising in geoenvironmental engineering; in addition to CPSS accreditation, he is a Chartered Professional Engineer (Environment). He obtained a BAppSc(Hons) at University of Canberra in 1995 (with credits also from the Iwate University in Japan), then a PhD from the University of Sydney in 2000. Dr Itakura specialises in: Assessment of clay barrier materials used for containing hazardous waste; Experimental and numerical assessment of the fate and transport of contaminants in the terrestrial environment. He joined the Australian Nuclear Science and Technology Organisation (ANSTO) Environment Division in 1999. During his appointment at ANSTO, he was a member of the Environmental Radionuclide Pathway Project, investigating the physico-chemical behaviour of radionuclides in soils. In 2003, Dr Itakura began a consulting career and has since strengthened his commercial experience along with specialist knowledge to provide clients with advice in geoenvironmental engineering. His career highlights include: Designed and managed an experimental and numerical assessment of the transport of volatile organic compounds migrating through clayey soils at an industrial waste depot in NSW; Managed a project to assess the distribution and diffusion coefficients for <sup>60</sup> Co and <sup>137</sup> Cs using regolith materials in South Australia; Designed and managed a project to investigate the advective and diffusive transport of <sup>134</sup> Cs, <sup>65</sup> Cu and <sup>85</sup> Zn in agricultural soils in Northern Territory; Designed and managed a multi-divisional	Soil management and conservation, Hydrology and wastewater management, Contaminant hydrology, Contaminated land/soils/site assessment, management & amelioration), Soil physics (soil water, soil mechanics), Training, advice & consultation services, Soil survey and classification, site surveys and mapping, Acid sulphate soil assessment, management and amelioration	0419 208 030	

Jasonsmith	Julia	Dr	2016	CPSS	PhD, BAppSc(Hons), BAppSc(Hons), BSc	Murrang Earth Sciences Pty Ltd	ACT	Dr Julia Jasonsmith is Director of Murrang Earth Sciences. She is an Earth Scientist whose focus is centred on how chemicals move through ecosystems and the implications of chemical movements to the environment encompassing environmental chemistry, ecotoxicology, and catchment management. Julia applies her knowledge in a broad range fields, including agriculture, ecology, and contaminated lands. She has more than a decade's experience in consulting, research, and project management. Julia is driven to find optimal solutions which enhance ecosystem health and agricultural productivity.	Environmental science, Contaminated site assessment and assessment of soils for reuse & disposal, Environmental site assessment, Sustainable agriculture & agricultural technology, Soil & water chemistry, Soil, surface water & groundwater interactions, Research and development	0406 621 214	Julia.Jasonsmith@murrang.com.au
Kaur	Navjot	Mrs	2016	CPSS	MSc(Agron), BScAg	AECOM	VIC	I am an environmental professional with > 10 y experience working with natural resources, including 3 y in analytical and physical testing of soils and groundwater and 7 y conducting environmental management works on oil & gas, mining, commercial and industrial sites.	Contaminated sites assessment and remediation comprising planning, design and management of remedial programs, human health and environment risk mitigation; EIAs including soil and land classification, Identification and management of acid sulfate soils, sediment and erosion control design and implementation; Environmental compliance including EMP-development and implementation, environment approvals/ license documents; Project management, contractor administration, invoicing and supervision of junior staff and contractors; Water and waste management; Health and	0404 007 392	navjot.kaur@aecom.com
Kew	Geoff	Dr	2001	CPSS	PhD Soil Science	Kew Wetherby Soil Survey Pty Ltd	WA		Soil management and conservation, Soil survey and classification for irrigation and land-use planning, site surveys and mapping, pedology, Mine-site and land fill capping and landscape re-vegetation; Erosion by wind and water (assessment, management, amelioration); Soil conservation & land rehabilitation (legislation, guidelines)	0409 690 469	kewwetherby3@bigpond.com
Kirchhof	Gunnar	Dr	2001	CPSS	PhD Soil Science	University of Queensland, School of Land & Food Sciences	QLD		Soil management and conservation, Soil physics, Soil survey and classification, Soil fertility, Basic research expertise, Tropical soils, Soil fertility	0413 394 163	gunnar@thinksoils.org
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

Kookana	Rai	Dr	2017	CPSS	PhD (Soil Physics and Chemistry), MSc (Soil Science), BScAg(Hons)	CSIRO Land and Water	SA	Dr Kookana is a leading soil scientist with a focus on organic contaminants in the environment (soil and water). In particular, he has combined his expertise in soil physics with interests in organic chemistry and toxicology for contaminants in the environment. He has worked >25 y in CSIRO in Adelaide during which he has published hundreds of research papers, supervised and mentored numerous postgraduate students and postdoctoral fellows, convened major national and international conferences, and was recently recognised by Soil Science Australia with the award of the 2016 JA Prescott Medal. He has been editor/associate editor of multiple international soil science journals, including Soil Research. He is also a member of many national and international bodies responsible for measuring and setting guidelines on organic contamination and environmental	Soil organic pollutants, environmental chemistry, land application of organic wastewater	0408 859 536	rai.kookana@csiro.au
Kopittke	Gillian	Dr	2015	CPSS	PhD, MPhil (Mining Eng), B Land Res Sci (Hons)	Profile Science Pty Ltd	QLD	Dr Kopittke has 12 y experience in environmental consulting with a focus on contaminated land and mining. Currently working as a Project Manager in a Remediation Management Team, Gillian concentrates on soil and groundwater assessment of petroleum hydrocarbon impacted sites. Dr Kopittke is the 2015/2015 President of the Queensland branch of Soil Science Australia and has also been an active participant with Soil Science Australia and a member of the World Congress of Soil Science held in Brisbane in 2010. She also lead Soil Science Australia's "Soils in Schools" program, which brings soil science to thousands of children across the country.	Remediation management; Contaminated land and mining; Soil and groundwater assessment of petroleum hydrocarbons impacted sites.	0447 733 991	
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 assessment & 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
Leake	Simon	Mr	2016	CPSS	BScAg	SESL	QLD	As the Managing Director and Principal Consultant at SESL Australia, Simon Leake established SESL in 1984 offering soil science and horticultural testing and advice. While working across all soil science related industries Simon's particular interest lies in urban soil science culminating in the publication of "Soils for Landscape Development", a book on soil specification in the design industry.	Urban soil science, and horticulture	02 9980 6554	simon@sesl.com.au
Loch	Robert	Dr	2002	CPSS	PhD Soil Science	Landloch Pty Ltd	QLD		Hydrology and wastewater management, Soil management and conservation, Soil fertility, Wind and water erosion assessment, management and amelioration, Mine-site land-fill capping and landscape re-vegetation, Soil acidity, salinity, sodicity, soil structure (assessment, management, amelioration), Effluent disposal by land irrigation, Soil testing and nutrient management.	0419 713 193	lochr@landloch.com.au
Macdonald	Bennett	Dr	2005	CPSS	PhD Soil Science	CSIRO Land and Water	ACT	Dr Bennett Macdonald is a researcher with CSIRO Land and Water, Canberra. His research focuses on greenhouse gas emissions (N and C) from agricultural soils.	Acid sulfate soil,s, Greenhouse gas emission from soils (C and N), Soil management and conservation, Hydrology and wastewater management, Integrated catchment processes and modelling	0419 624 712	ben.macdonald@csiro.au

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
Marriott	Glenn	Mr	2008	CPSS	BAGSc(Hons )	Ag-Challenge Consulting Pty Ltd	VIC		Soil classification, Land capability assessment for On-site wastewater management, Interpretation of soil chemical data for agricultural and environmental outcomes, Soil permeability measurement, Report writing, Soil monitoring for recycled water irrigation	03 5623 4788	glenn@ag-challenge.com.au
Massie	John	Mr	2017	CPSS	BSc(Hons) Soil Science	Edge Group Pty Ltd	VIC	John has >17 y experience in the diagnosis and remediation of contaminated land. Project work has included both preliminary and detailed site investigations, quantitative health and ecological risk assessment as well as remediation of hydrocarbon, metal and pesticide contaminated soils. He gained valuable experience in many large-scale investigation and remediation projects on a variety of sites with complex legacies of historic contamination including those used for the production and refining of petroleum hydrocarbons (most notably Shellhaven in Essex, UK), retail petroleum sites, manufactured gas plants (MGPs), Ministry of Defence (MOD) facilities (organic, inorganic, radiological and explosive/chemical ordnance), mining facilities, landfill, power generation and transport facilities. He also has experience in a wide range of analytical methods commonly used for the analysis of ecological materials that he gained during his time as a postgraduate research assistant at the Macaulay Land Use Research Institute (MLURI), Aberdeen, UK and the University of Aberdeen, UK.	Contaminated land assessment and remediation, organic and inorganic soil contamination	0437 198 628	johnm@edgegroup.net.au

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

McDonald	Declan	Mr	2015	CPSS	Grad Cert (Climate Change), MSustainAg, Grad Cert (Leisure Man), BSc (Urban Hort), A/Dipl Hort (Nursery Man)	SESL Australia	VIC	Declan McDonald is a soil specialist with > 25 y experience in soil and compost management in public and private employment. He has worked in Victoria, Tasmania and NSW, servicing the amenity horticulture, nursery management and agricultural production industries. Declan takes a strong problem-solving approach to soil management with a view to identifying the principal constraints to production / growth and developing a management approach to suit the budgets and needs of clients. He has been involved in peer and technical reviews for the Victorian EPA and industry bodies on issues as diverse as compost works approvals and optimum sand specifications for racing tracks. Declan is passionate about improving understanding and management of soils to improve sustainable outcomes for this precious resource.	Sustainable soil management, Compost manufacture and use, Organise amendment of soils, Soil C and climate change, Acid sulphate soils, Dispersive soils.	0407 871 391	Declan@sesl.com.au
McEInea	Angus	Dr	2011	CPSS	PhD Soil Science	DSITIA, Ecosciences Precinct	QLD		Analytical and inorganic chemistry of soils	0429 854 446	Angus.McEInea@dsitia.qld.gov.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 presentation	0448 977 926	colin.mckay@wspgroup.com

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	<a href="mailto:david.mckenzie@soilmgt.com.au">david.mckenzie@soilmgt.com.au</a>
McLaughlin	Michael	Professor	2002	CPSS	PhD Soil Chemistry, MAgSc, BSc(Hons)	CSIRO University of Adelaide	SA	Dr Mike McLaughlin was a Chief Research Scientist in the Environmental Biogeochemistry program of CSIRO Land and Water. As well he was Team Leader of the Soil Nutrients and Contaminants Stream in CSIRO's Agricultural Sustainability Flagship. Other roles include: Professor of Soil Science in the School of Agriculture, Food & Wine at University of Adelaide; one of the five international scientists on the Metals Environmental Research Association's Ecotoxicity Technical Advisory Panel; President of the World Council of the Society of Environmental Toxicology and Chemistry. Dr McLaughlin also manages research related to the Infrared Soil Analysis Service, which uses mid-infrared (MIR) spectroscopy for the rapid non-destructive analysis of soil physical and chemical properties.	Soil management and conservation, Basic and applied research in soil fertilisers, Soil fertility, Biogeochemistry of nutrients and pollutants in soils, Environmental chemistry and toxicology, specifically the assessment and remediation of contaminated soils; Advanced techniques to measure and monitor nutrients and pollutants in the environment.	0409 693 906	<a href="mailto:Mike.McLaughlin@csiro.au">Mike.McLaughlin@csiro.au</a>
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	<a href="mailto:malem.mcleod@dpi.nsw.gov.au">malem.mcleod@dpi.nsw.gov.au</a>
McMaster	Jamie	Mr	2002	CPSS-AusSS	MAG, BAppSciAg	Outsourced Environmental	VIC	Jamie McMaster is the Managing Director and Principal Environmental Consultant with MAC Global Pty Ltd. He specialises with biodiversity and sustainability research, sustainability footprint development, environmental management systems, agricultural, horticultural and irrigation consulting, training systems and sustainable business IT and multimedia.	Soil management and conservation, Training, advice & consultation services, Soil survey and classification, Soil fertility, Soil testing and nutrient management, fertiliser advice, Plant nutrition (crops, pasture, horticulture, forestry), Assessment, management and amelioration of soil pollutants and contaminated land and soil; Soil surveys for irrigation and land-use planning	0407 317 288	<a href="mailto:jamie.mcmaster@outsourcedenvironmental.com.au">jamie.mcmaster@outsourcedenvironmental.com.au</a>



Menzies	Neal	Professor	2006	CPSS	PhD, MAgST, BAgSc, Grad Cert Ed	University of Queensland, School of Land and Food Sciences	QLD	Neal Menzies has a passion for the environment, and has used his role as a teacher and research leader to bring others into this highly rewarding field. He believes that environmental scientists must go further than identifying where human activity is harming the environment, they must also deliver workable solutions to the problems. While his research spans a range of environmental chemistry issues, he considers himself primarily a soil scientist, and sees soil science as a central discipline in the solution of a broad range of problems. This is well reflected in the research projects he has been involved with, including projects in agricultural production, water quality, waste disposal, mined land rehabilitation, conservation biology, and even forensic science. Neal's main research interests are phyto-toxicity of metals, and in particular aluminium, surface charge chemistry, and the management of nutrients in tropical farming systems. Following his PhD at University of Queensland, Neal worked at the International Institute of Tropical Agriculture in Cameroon, then as an academic at the University of Newcastle upon Tyne (UK), before returning to Australia to take a position at University of Queensland. He is a well regarded teacher, and is an active researcher with a strong publication record.	Soil management and conservation, Basic research expertise, Soil management and conservation, Soil fertility, Soil chemistry, Plant nutrition (crops, pasture, horticulture, forestry), Assessment, management and amelioration of soil pollutants, contaminated land/soils/sites, soil acidity, soil salinity and sodicity; Mine-site land-fill capping and landscape re-vegetation.	0403 176 934	n.menzies@uq.edu.au
Mikkonen	Hannah	Mrs	2011	CPSS	BEnvSc(Hons)	Golder Associates	VIC	Senior Environmental Scientist	Metals and fluoride in soils and subsoils, background concentration of heavy metals in soils, Contaminated soils, Acid-sulphate soils	0417 119 609	hannah.georgina.mikko@gmail.com
Mitchell	Joshua (Josh)	Mr	2011	CPSS	BEnvSc	Core Consult	QLD	Josh is a senior environmental scientist and team leader of the environmental section for the Maroochydyore Office. Josh has 9 y experience working on environmental projects throughout Queensland and Papua New Guinea.	,Acid sulfate Soil Assessments and Management Plans, Contamination Investigations including Stage 1 Preliminary Site Investigation and Site 2 Detailed Site Investigation	0408 984 011	jmittchell@golder.com.au
Moodley	Magandaran	Dr	2016	CPSS	PhD Soil Science, MSc Soil Science, BSc(Hons), BSc	Contact Mags Moodley	VIC	Dr Moodley is a Professional Soil Physicist, and Land Use Hydrologist.	Soil water management, Land use hydrology, irrigation scheduling and environmental monitoring	0407 082 243	magsmoodley1@gmail.com
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

Mosley	Luke	Dr	2017	CPSS	PhD, PhilDipSc, BSc	University of Adelaide	SA	I am a senior research fellow at the University of Adelaide's Acid Sulfate Soil Centre, a multidisciplinary research group addressing acid sulfate soil issues of national and international significance. I also hold a visiting Scientist position with CSIRO Land and Water where I have strong collaborative links at the Waite Campus. I am interested in understanding and solving complex environmental problems across multi-disciplinary boundaries (water, soil, ecology). Recent research focuses on metal and acid-base chemistry of water and soil; acid sulfate soils; impacts of drought and climate change on water and soil quality; biogeochemistry of the River Murray, Lower Lakes and Coorong catchment; development of novel methods and instrumentation to measure pH and metals. Depending on current research activities I am available to work on small or large consulting and contract research projects. Recently I have undertaken consultancies for the EPA of South Australia, Murray-Darling Basin Authority, CSIRO, and Department for Environment, Water and Natural Resources (DEWNR).	Soil chemistry, Acid sulphate soils	0428 103 563	luke.mosley@adelaide.edu.au
Mulvey	Philip	Mr	1997	CPSS-CSAM	BScAg(Soil Sci)	Environment & 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
Nash	David	Dr	2002	CPSS	PhD Soil Chemistry	Soil and Allied Services Pty Ltd	VIC		Hydrology and wastewater management, Basic research expertise, Soil chemistry and fertility, Soil pollutants (assessment, management and amelioration), Effluent disposal by land irrigation, Soil physics (soil water, soil mechanics)	0408 515 145	soilandalliedservices@gmail.com

Nielsen	Sven	Mr	2009	CPSS	BAGSc(Hons) )	Strata - Geoscience & Environment al P/L	TAS	Sven Nielsen worked as a Geotechnical Environmental Consultant with SFM Soil Solutions, Hobart Tasmania (2006 to 2010). He joined the company in 2004 as a soil scientist after working as a Research Scientist at University of Tasmania (1998 to 2001). He completed a BAGSc(Hons) at UTAS (1997) and is undertaking a MEngSc (Hydrogeology) at UNSW. He has expertise in geotechnical engineering recommendations for construction according to the relevant industry codes, contaminated site assessment, remediation of contaminated sites, wastewater treatment, biosolids reuse projects, environmental management plans and hydrological investigation for contaminated sites.	Soil and Site Contamination and Remediation, Soil Engineering for Construction Projects, Soil Carbon-evaluation and sequestration, Surface and Groundwater Hydrology, Contaminated Site Assessment and Remediation, Effluent and Reuse Projects	0413 545 358	svnen@strataconsulting.com.au
Ockenden	Peter	Mr	2014	CPSS	Cert IV Training and Assessment, Dipl Frontline Man, Dipl Geosci, Dipl.Ag.Sci	Peter Ockenden Consulting	VIC	Peter Ockenden is an experienced project manager with a passion to protect the environment and has an affinity for working with people to help them understand the need to integrate natural resource management issues into everyday planning and community development and an extensive understanding of the working of Government in the area of natural resource management. His experiences aim to bring NRM and productivity concerns together, as they are interrelated. Peter offers considerable technical and program management experience in soil and water conservation. He has a detailed knowledge of landcare in Victoria; a strong technical understanding of surface and groundwater processes as they impact on regional assets, a broad understanding of land use practices and a natural ability to introduce new ideas and to communicate effectively with stakeholders.	NRM project management, Landcare, Land-use management, soil and water conservation	0408 313 979	ockenden.peter@gmail.com

Oliver	Danielle	Ms	2002	CPSS	MAGSc, BAGSc(Hons )	CSIRO Land and Water	SA	Ms Danni Oliver develops techniques for analysing organic contaminants in soil and water and management practices. She is a Team leader in the Trace Organics and Risk Assessment research group within the Environmental Biogeochemistry research program of CSIRO. Ms Oliver has extensive experience in organic analytical chemistry, management of off-site transport of pesticides and environmental risk assessment of organic contaminants. She is currently involved in projects studying the processes of off-site transport of pesticides, sediment and nutrients from agricultural environments. Ms Oliver is an environmental chemist with expertise in: organic analytical techniques for soils and water samples, management practices to minimise off-site transport of pesticides into waterways, application of risk assessment tools to assess likelihood of environmental impact of pesticides. Ms Oliver has > 20 y experience in environmental chemistry. In the last 10 y she has focused on organic contaminants, in particular the analysis of organic contaminants in soil and water and the study of the fate, behaviour and transport of organic contaminants in agricultural environments. Ms Oliver is the author of: 24 peer-reviewed journal papers, 3 book chapters, 22 conference papers, 30 reports, including consultancies. She has 223 career citations with 3 papers exceeding 20 citations each.	Organic chemistry analytical techniques for soil and water samples, Management practices to minimise off-site transport of pesticides into waterways, Soil chemistry and risk assessment of organic pollutants, Contaminated land/soil/sites (assessment, management, amelioration).	08 8303 8434	danni.oliver@csiro.au
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Overheu	Timothy	Mr	2014	CPSS	BAppSc (Land Sci), Dipl Man, Grad Cert Rural Plan, Dipl Proj Man	Department of Primary Industries and Regional Development WA	WA	Timothy Overheu is the Manager of Agricultural Land Use Planning & Policy, Irrigated Agriculture at the Albany office of the DPIRD in Western Australia. He is enthusiastic about disseminating soil & landscape information (& exploring a variety of approaches to communicate and raise community awareness about the valuable national asset under foot - our soils). He is the Co-moderator / administrator of the FaceBook group page "Soil Science in Australia" linked to Australian Society of Soil Science. Tim is well experienced in linking soil type to land use, having been involved in multiple small and large scale soil-landscape assessment projects, including international soil survey projects, national soil assessment and soil health programs and several vineyard and horticulture development consultancies in the Great Southern Region of Western Australia. Furthermore Tim is experienced in soil health community extension, farm planning, soil and landscape assessment, soil organic carbon measurement, monitoring & verification; agricultural & local government land use planning - strategic and statutory. A particular interest of Tim's is in what makes people change to implement sustainable or best practice. He was recently appointed Chair, WA's Interim Soil and Land Conservation Ministerial Advisory Council, which will review and update the 1945 WA Soil and Land Conservation Act.	Soil health community extension, Soil and landscape assessment, Farm planning, Soil organic carbon measurement, monitoring and verification and agricultural and local government landuse planning - strategic and statutory	0429 889 324	tim.overheu@dpird.wa.gov.au
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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 effluent disposal.	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
Powell	Bernard	Mr	2002	CPSS-AusSS	BScAg		QLD		Soil management and conservation, Soil survey and classification, Assessment, management and amelioration of soil acidity, salinity, sodicity, structure, acid sulphate soils; Site surveys and mapping, Pedology, soil classification, Soil surveys for irrigation and land-use planning	0409 390 916	kb.powell@bigpond.com
Raine	Steven	Professor	2010	CPSS	PhD, MAgrSt, BAgrSc(Hon s)	University of Southern Queensland, Faculty of Engineering and Surveying, National Centre for Engineering in Agriculture	QLD	Prof Steven Raine is Executive Director, Institute for Agriculture and Environment at University of Southern Queensland, Toowoomba. He is also Professor of Irrigation and Soil Science in the Faculty of Health, Engineering and Science at USQ. Prof Raine has spent > 25 y conducting soils and irrigation research for cotton, sugar, fruit and vegetable industries and the coal-seam gas and mining sectors. He also provides advice to government in relation to irrigation, soils and water resource planning. He was Program Leader in the CRC Irrigation Futures and Science Leader (Irrigation and Natural Resource Management) in the National Centre for Engineering in Agriculture. He has also worked as an irrigation specialist for Queensland Fruit and Vegetable Growers Ltd, an irrigation research scientist with the Bureau of Sugar Experiment Stations, and a land resource surveyor with the Conservation Commission of the Northern Territory. Steven was also Chair of the CPSS Accreditation Board, and has also served as President of Soil Science Australia, and was recently awarded a Fellow of Soil Science Australia.	Soil physics, Education	07 4631 1691	Steven.Raine@usq.edu.au

Ratray	Dan	Mr	2011	CPSS	MEng, BEng	Summit Environmental Consultants	QLD	Employed by Tree Crop Technologies to manage technical services delivery. I also hold the position of Visiting Scholar at University of Southern Queensland and work in collaboration with USQ scientists in soil chemistry and soil physics. My current duties include: Feasibility studies for plantation development, in particular, related to irrigation of forest plantations using CSG water (including site evaluation, soil sampling, soil physical and chemical analysis, water chemical analysis, data interpretation, soil process modelling, irrigation modelling, soil-water-plant interaction modelling); Design and co-ordinate applied research on crop management and environmental monitoring for TCT's dryland and irrigated plantation; Monitoring data analysis, modelling and interpretation of data, including recommending improvements to management to maximize crop productivity and maintain environmental sustainability; Report to clients and EPAs/DERM bodies soil chemistry issues; Technical services to provide land resource and crop management including land capability assessment for dryland and irrigated forest/crop development, and monitoring design, implementation and management for both managed and natural landscapes	Integrated catchment processes and modelling , Assessment, management and amelioration of soil salinity, sodicity; Effluent re-use by land irrigation; Soil physics (soil water); Rural property planning, land capability classification; Contaminant hydrology	0428 918 128	dan.ratray@summitenviro.com.au
Rees	David	Mr	2009	CPSS		Department of Primary Industries, Future Farming Systems Research Division	VIC	David has 40 y experience in soil and land description in Victoria including land capability assessment. David's current interests lie in soil classification (esp. links between the Australian (ASC) and FAO/International (WRB) classifications). He has expertise in pedology and geomorphology and leads the Victorian Geomorphological Reference Group (VGRG), which debates and develops a geomorphological framework for land systems and ultimately regolith and soils. He is particularly keen to capture the corporate memory vital in a changing workplace where new techniques and modelling are being developed, but which need reality-checking. Data mining and quality control of soil data on a spatial basis is also an interest.	Soil classification, pedology, land capability assessment, soil classification, geomorphology	0437 561 080	David.Rees@depi.vic.gov.au



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Reichman	Suzanne	Dr	2017	CPSS	PhD, B Land Res Sci(Hons)	RMIT University, School of Engineering	VIC	Areas of research expertise include: Biogeochemistry of heavy metals and trace elements in the terrestrial environment. Soil contamination and remediation, mine-site rehabilitation, use of wastes as soil conditioners, phytoremediation and phytomining. Toxicity, bioavailability and rhizosphere processes in soil-plant systems and the potential for food-chain transfer of toxicants. Soil chemistry and plant nutrition. Research funding obtained from: Australian Research Council, HazWaste Fund, Brian Mason Scientific & Technical Trust, HASYLAB, Industry collaborators.	Soil bioremediation, phytoremediation, soil biology, soil chemistry, contaminated soils	0439 575 661	suzie.reichman@rmit.edu.au
Rengasamy	Pichu	Dr	2012	CPSS	PhD	University of Adelaide, School of Agriculture, Food & Wine	SA		Soil sodicity, soil chemistry, colloids, soil dispersion, soil management and conservation	08 8303 7418	pichu.rengasamy@adelaide.edu.au
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

Rohde	Timothy	Dr	2008	CPSS	PhD (Mining Engineering), P/grad Dipl Mined Land Rehab, BEnvSc (NatResSci)	SKM	QLD	Timothy is a scientist with 9 y environmental consulting experience in Australia and Indonesia. His work encompasses mining engineering, geotechnical engineering, unsaturated soil mechanics, soil science and geochemistry. Since 2004, he has specialised in mining waste characterisation including waste rock dumps, tailings storage facilities and heap leach piles. Timothy also specialises in the closure and rehabilitation of waste rock dumps, tailings storage facilities and heap leach piles. He is uniquely placed not only understanding geochemistry of these structures but also design and closure to limit / mitigate environmental issues that these mine domains can produce.	Unsaturated soil mechanics, Instrumentation, Physical characterisation, Modelling, In situ testing	0467 773 570	timothy.rohde@aecom.com
Salt	Melissa	Dr	2002	CPSS	PhD Engng	Tonkin Consulting	SA		Soil management and conservation, Hydrology and wastewater management, Soil survey and classification, Mine-site and land fill capping and landscape revegetation, Site surveys, mapping, Assessment, management, amelioration of contaminated land/soils/sites, acid sulfate soils; Effluent disposal by land irrigation	0417 218 087	pmbbts@bigpond.com
Santomartino	Silvana	Dr	2009	CPSS	PhD, BEnvSc	PSK Environmental Pty Ltd	QLD	Silvana Santomartino completed a PhD in Environmental Geochemistry and has spent 9 y working on geochemistry projects related to Acid Sulfate Soils and Acid Rock Drainage. Silvana is Principal Consultant for PSK Environmental Pty Ltd in Milton, Brisbane and has conducted soil, rock and groundwater investigations in both QLD and Victoria. Silvana has also completed geochemical assessments of potential waste rock and tailings for mining companies.	Applied research expertise, Training advice and consultation, Soil survey and classification, Acid sulfate soil, Geochemistry of soil and ground water; Applied research, Training advice and consultation; Soil survey and classification	0424 303 308	ssantomartino@pskenviro.com
Schefe	Cassandra	Dr	2007	CPSS	PhD Soil Science	Schefe Consulting	VIC		Basic research expertise, Soil management and conservation, Applied research expertise, Soil chemistry, Assessment, management and amelioration of soil acidity, salinity and sodicity; Soil C and climate change (C-sequestration in soils)	0419 238 798	cassandra.schefe@dpi.vic.gov.au
Sheldon	Anna	Dr	2010	CPSS	PhD, Soil Science, BEnvSci(Nat ResSci)	Environmental Earth Sciences QLD	QLD	Dr Sheldon completed a PhD in Soil Science (2009, University of Queensland) and is a consultant soil scientist with Environmental Earth Sciences, Queensland. Projects undertaken include soil and hydrogeological baseline studies for proposed mines, Soil monitoring in effluent irrigation area, and Groundwater monitoring for contaminated sites. Dr Sheldon was awarded an Australian Postgraduate Award scholarship in 2003 and the ASSSI-ASPAC best oral presentation of symposia at the National Soils Conference in Adelaide in 2006.	Subsoil constrains to root growth and water use efficiency in northern grain soils; toxic and osmotic effect of salinity. The effect of copper toxicity on the growth and root morphology of Rhodes grass (Chloris gayana Knuth.) in resin buffered solution culture; Salinity, Contaminated land.	0448 805 618	asheldon@environmentalearthsciences.com

Sorongan	Dahmon P	Mr	2009	CPSS	MScTech, 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
Srivastava	Prashant	Dr	2010	CPSS	PhD (Soil Science), MSc, MScAg(Soil Sci)	University of South Australia, CRC CARE	SA	Dr Prashant Srivastava is currently working as Programme Coordinator at the CRC CARE, based at the University of South Australia, Adelaide. His main role is to oversee the CRC's petroleum programme, which draws together industry, environmental practitioners, regulatory authorities and scientific researchers from across Australia. He has experience working in both academia and the environmental industry. Prior to joining CRC CARE, Prashant worked as an Environmental Scientist in Sydney, engaged on a variety of projects on contamination assessment and remediation of soil and groundwater. As a researcher, he has worked on a number of research projects in India, Australia and the USA. He worked as a Senior Research Fellow at the GBP University of Agriculture and Technology, Pantnagar (India), and as a Post-doctoral Associate at the Savannah River Ecology Laboratory of the University of Georgia (USA). His research interests include biogeochemistry of trace elements and plant nutrients in soils, molecular environmental sciences, and soil fertility & plant nutrition. He was instrumental in organising the 3rd ANZ soils conference SuperSoil 04 in Sydney in 2004. He has also played key role in organising 3rd International Contaminated Site Remediation Conference CleanUp 09 and 5th International Workshop on Chemical Bioavailability held in September 2009 in Adelaide. Prashant also co-convened two symposia (Heavy metal contaminated soils and Risk assessment and risk based remediation) at the 19th World Congress of Soil	Biogeochemistry of plant nutrients and trace elements in soils, molecular environmental sciences, Assessment and remediation of contaminated soils, Soil fertility and plant nutrition	0422 176 366	Prashant.Srivastava@crccare.com

Stuckey	Mark	Mr	1997	CPSS-CSAM	MSc (Groundwater Hydrol), Grad Dipl Sci(Groundwater Hydrol), BAgSci	Environmental Earth Sciences QLD	QLD	Mark Stuckey is the Principal Hydrogeologist and Soil Scientist based at the Environmental and Earth Sciences, Brisbane office in Queensland.	Soil management and conservation, Applied research expertise, Hydrology and wastewater management, Soil fertility, Assessment, management and amelioration of contaminated sites, acid sulfate soils, soil pollutants, soil acidity, soil salinity and sodicity; Chemistry and risk assessment of organic pollutants, Contaminant hydrogeology	0419 691 741	mstuckey@environmentalearthsciences.com
Sullivan	Leigh	Professor	2003	CPSS	PhD Soil Science	Federation University	NSW	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.	Acid sulfate soils, Soil carbon and climate change, Soil Chemistry, Pedology and soil classification		l.sullivan@federation.edu.au
Thomas	Evan	Dr	2011	CPSS	PhD, M.Eng, BAppSc (Biology), BAppSc (Appl Math)	Integrated Sustainability Systems	QLD		Land systems modelling, Land suitability and good quality agricultural land assessment, Soil erosion and conservation, Land resource mapping and management, Catchment management, Climate change, energy management and adaptation	0419 678 928	evan.thomas@intss.com.au

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Thwaites	Robin	Dr	2016	CPSS	PhD Soil Science, MSc Land Res Man, BSc(Hons, Geogr Sci)	Geoscapes Australia	QLD	30 y experience in land resource sciences, analysis and mapping with government, commercial and education agencies in Australia and internationally (southern Africa, UK, New Zealand, USA). Specialist and practitioner in soil geomorphology and earth surface systems, land resource survey/analysis/modelling and landscape ecology, and applied geomatics (GIS and remote sensing). Previously a lecturer and researcher at the University of Queensland, James Cook University, and Queensland University of Technology. Principal Land Resource Scientist at Environmental Earth Sciences, and at GHD consulting, and now Geoscapes Australia and Environmental Earth Sciences. Extensive knowledge of, and experience in land resource and terrain survey and mapping, field soils, field geology and field geomorphology. Also involved GIS mapping, spatial modelling, remote sensing and image interpretation throughout his career. Published in journals in the areas of geomorphology, soil geomorphology, land resource assessment, land evaluation, forest site assessment, and terrain analysis with digital mapping.	Pedology, geomorphology, and landscape science, Land resources science and assessment, especially forest soils and landscapes, GIS / remote sensing / modelling, Training / education / communication	0408 986 957	geoscapesoz@gmail.com
Tobin	Jacob	Mr	2012	CPSS	MEnvSci, BEnvSci	CDM Smith	QLD	Jacob is a Senior Environmental Scientist and team member of the E3 Consult Contaminated Lands Department. Jacob has 8 years experience working on environmental projects throughout Queensland and New South Wales. Jacob has managed recent projects, including the Soil Survey of the QCLNG Pipeline from Chinchilla to Gladstone, QLD, and contaminated land remediation and validation of the Evans Head Historical Airfield, NSW.	Contaminated land assessment and management in Qld and NSW Soil survey Acid sulfate soil assessment and management Site and soil evaluation and design of On-Site Effluent Disposal Systems Erosion and Sediment Control Assessment and Management	0409 275 587	tobinjj@cdmsmith.com

Tucker	Robyn	Ms	2002	CPSS		Livestock Environmental and Planning (LEAP)	VIC	Robyn Tucker is Principal Consultant of Livestock Environmental and Planning (LEAP) in Horsham, Victoria. Robyn specialises in environmental management, code and guideline development and R&D in the intensive livestock sector. She has prepared numerous planning permit applications, environmental impact studies, environmental management plans, and effluent and manure re-use plans for piggery, beef and lamb feedlots, intensive dairies, poultry farms and composting facilities. Robyn is an author of the National Environmental Guidelines for Piggeries, National Environmental Guidelines for Rotational Outdoor Piggeries, Guidelines for Victorian Dairy Feedpads and Freestalls, Environmental Guidelines for the Australian Egg Industry, Beef Cattle Feedlots: Waste Management and Utilisation, Piggery Manure and Effluent Management & Reuse Guidelines and a broad range of booklets and tech-notes on related topics. She has worked on a range of intensive livestock environmental research projects to develop indicators of environmental sustainability, examine the relationship between feedlot manure management and pathogen transfer, developing NRM indicators for red meat supply chain LCAs, investigate nutrient extraction from piggery spent bedding and pond sludge, and estimate the quantities of nutrients in various organic waste streams nationally and mapping the location of these nutrients as part of a wastes to fertilisers project. Previous positions for Robyn include Principal Consultant with FSA Consulting (Toowoomba and Horsham 1994-2014) and Beef Feedlot Officer,	Hydrology and wastewater management, Training, advice & consultation services, Effluent disposal by land irrigation, Wastewater (treatment and management on site)	0419 787 137	robyn@leap-consulting.com.au
Van de Graaff	Robert	Dr	2002	CPSS	PhD		VIC		Soil physics, contaminated land remediation, soil management, contaminated land rehabilitation	0438 456 601	vdg.robert@vandegraaff-soilshorizons.com.au
Walker	James	Mr	2009	CPSS		SGA Environmental	NSW	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.	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

Wallis	Christian	Mr	2005	CPSS-CSAM		CDM Smith	VIC		Soil management and conservation, Hydrology and wastewater management, Assessment, management and amelioration of contaminated land/soils/sites, acid sulfate soils, wind and water erosion, soil acidity, salinity and sodicity; Rural property planning, land capability classification; Effluent disposal by land irrigation	0414 969 833	wallisc@cdmsmith.com
Walton	Jon	Mr	2013	CPSS	BSc (Aust. Env Studies)	Queensland Dept Environment and Science	QLD	Jon Walton is a soils professional with over 18 years experience working in Queensland in the public and private sectors. Jon's expertise covers both field assessment, soil management and assessment of soils in the planning/legislative spheres. He has a proven track record of undertaking high quality field assessments and providing accurate, timely advice to a range of clients.	Land resource survey - soil survey and classification, Acid sulfate soils (investigation and management), Land evaluation, land suitability, agricultural land classification, Strategic Cropping Land, Soil erosion, Salinity,	07 5451 2267	jonathan.walton@des.qld.gov.au
White	Larry	Mr	1997	CPSS	BScAg	Paladin-White Pty Ltd	VIC	Larry has >35years experience in both government and private sectors carrying out soil and land resource assessment, effluent irrigation, environmental management planning, soil sampling, policy preparation and training in south eastern Australia and NT. He runs a consultancy based in Central Victoria. His work attempts to identify the characteristics impacting on a proposed program and subsequently to development a management approach that addresses the identified inherent key constraining soil profile and environmental characteristics. He has specialist expertise in Land Capability Assessment and has used this approach to be the principal investigator in > 250 land management proposals for individuals, developers, Councils and Water Authorities where programs of residential development, horticulture and agriculture were proposed. He has been involved in Policy review for the Victorian EPA in domestic wastewater and has prepared evidence and acted as Expert Witness at the Victorian Civil and Administrative Tribunal (VCAT). He has been a member of the CPSS accreditation board and strongly supports the promotion of soil science and soil conservation to understand the potential consequence of various development programs and the management that is necessary to move forward in a practicable sustainable manner.	Hydrology and wastewater management (on-site), Soil management and conservation, Soil survey and classification for irrigation and land-use planning, Rural property planning, land capability classification, Urban property planning/development, Effluent disposal by land irrigation, Soil conservation & land rehabilitation (legislation, guidelines)	0419 189 879	larryw@bendigo.net.au

White	Robert E.	Emeritis Professor	1997	CPSS	BAgrSc, MA, DPhil	Melbourne School of Land and Environment	VIC	Expert adviser and consultant to government agencies and private industry on soil science capability; soil health in viticulture; healthy soils for sustainable farming; land and biodiversity; water, salinity and nutrient management. Co-editor of Soil Science, a World Reference Collection of seminal papers in soil science; author of Principles and Practice of Soil Science (4th edition) and author of Soils for Fine Wines (2003) and Understanding Vineyard Soils (2009). Honorary Life Member of Soil Science Australia and Honorary Member of the International Union of Soil Sciences	Soil and viticulture, Nutrient deficiencies, fertilizers, mulches and manures, Management of soil fertility, Management of soil water, Leaching of nutrients and contaminants, Managing soil acidity	0417 583 342	robertew@unimelb.edu.au
Wissell	Craig	Mr	2002	CPSS	MAGBus	Team Wiss Pty Ltd	SA	Craig Wissell is a agribusiness and agronomic consultant with Team-Wiss Pty Ltd in South Australia.	Soil management and conservation, Applied research, Training, advice & consultation services, Rural property planning, land capability classification, Site surveys, mapping, Pedology and soil classification, GIS	0428 894 419	teamwiss@yp-connect.net
Wong	Vanessa	Dr	2015	CPSS	PhD Soil Science, BScEnv(Hons)	Monash University, School of Earth, Atmosphere and Environment	VIC	Dr Vanessa Wong is involved in research exploring the spatial and temporal interactions between soils, sediments and water at a range of scales. Vanessa is interested in the role of soil-surface water-shallow groundwater processes ranging from the micron scale to the landscape scale in landscape function. Research is being carried out to understand how these biogeochemical processes occur in a range of environments. This has allowed Dr Wong to work closely with industry, government organisations (local, state and federal) and catchment management authorities to develop and apply findings from her research to improve land and water management strategies.  Specific areas include:  Assessing the effects of land degradation processes like increasing salinity, sodicity and acidity Remediation of degraded environments Soil organic carbon dynamics Assessing acid sulfate soil environments Understanding the interactions between the hydrology, geomorphology, and soil and water biogeochemistry Determining the effects of waste application on agricultural land Developing new techniques for rapidly mapping soil and shallow groundwater properties in coastal floodplain environments Examining how climate change and climate variability influences the above processes	Land degradation processes (salinity, sodicity and acidity), Remediation of degraded environments, Soil organic carbon dynamics, Acid sulfate soil environments, Understanding the interactions between the hydrology, geomorphology, and soil and water biogeochemistry, Determining the effects of waste application on agricultural land	03 9905 2930	vanessa.wong@monash.edu



