

## Appendix A: Brief Provided to Author by the EDO

See attached pages.



# Environmental Defenders Office

10 November 2020

Professor Penny D Sackett  
Penny D Sackett Strategic Advisory Services

**By email: [pd.sackett@gmail.com](mailto:pd.sackett@gmail.com)**

## **CONFIDENTIAL AND PRIVILEGED**

Dear Professor Sackett

### **Bushfire Survivors for Climate Action Incorporated (INC1901160) v Environment Protection Authority (NSWLEC proceedings 2020/00106678)**

1. We act for Bushfire Survivors for Climate Action (**BSCA**). BSCA is a group of bushfire survivors, firefighters and local councillors based in NSW, who have joined together with the objective of seeking immediate meaningful action from the NSW and Commonwealth governments to address the impacts of climate change within Australia.
2. BSCA has filed proceedings in the NSW Land and Environment Court (**Court**) seeking to require the NSW Environment Protection Authority (**EPA**) to:
  - a) develop environmental quality objectives, guidelines and policies to ensure environment protection; and
  - b) develop draft policies in accordance with Chapter 2 of the *Protection of the Environment Operations Act 1997* (**POEO Act**) to ensure environment protection; in relation to climate change impacts in NSW.
3. Section 9 of the *Protection of the Environment Administration Act 1991* (**POEA Act**) relevantly states that the EPA is “required” to “develop environmental quality objectives, guidelines and policies to ensure environment protection”. Our client is concerned at the apparent lack of any EPA “environmental quality objectives, guidelines and policies” to address climate change.
4. Since at least 1998, when Australia signed the Kyoto Protocol, it is arguable that the EPA has been on notice and has had knowledge of the danger created by human-induced greenhouse gas emissions which cause climate change. Consequently, it is arguable that the EPA has long had knowledge of the irreversible damage to the environment of NSW which will occur if annual average global temperatures continue to increase.
5. In our client’s view, the duty imposed upon the EPA by s 9 of the POEA Act requires the EPA to address climate change and its impacts to ensure the protection of the environment and the people of NSW. The EPA’s failure to develop any objectives, guidelines or policies to address this critical issue is a breach of the EPA’s statutory duty.

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6. Our client wishes to retain your services to act as an expert witness, including preparing an expert report and appearing as an expert witness in legal proceedings, to assist the Court impartially on matters relevant to climate change science.

### **Proceedings/Legal Context**

7. As a preliminary matter, please note that you are not permitted to express an opinion on any question of law in your report and that your report should confine itself to the relevant issues of fact within your area of expertise. However, you need to understand the legal context of this case to understand the relevant questions of fact on which the Court requires your assistance.
8. The EPA is the primary environmental regulator for New South Wales. The EPA was established in 1991 under the POEA Act.
9. The explanatory note to the *Protection of the Environment Administration Bill 1991 (No 2) (POEA Bill)* states that one of the objects of the POEA Act was to establish the EPA. This is confirmed in s 4 of the POEA Act, which sets out the objects of the POEA Act. Section 4 states that the object of the POEA Act is also to “*require the [EPA] to perform particular tasks in relation to the quality of the environment*”.
10. We note that the EPA was created, in part, in response to the recognition of environmental issues of global importance, including climate change, following on from the 1987 Brundtland report.<sup>1</sup> This is noted in the Second Reading Speech for the POEA Bill dated 16 October 1991 at p 2268 [4.33].
11. The objectives of the EPA (as referred to in the definition of “environment protection”) are set out in s 6.

#### **6 Objectives of the Authority**

- (1) *The objectives of the Authority are:*
- (a) *to protect, restore and enhance the quality of the environment in New South Wales, having regard to the need to maintain ecologically sustainable development, and*
  - (b) *to reduce the risks to human health and prevent the degradation of the environment, by means such as the following:*
    - *promoting pollution prevention,*
    - *adopting the principle of reducing to harmless levels the discharge into the air, water or land of substances likely to cause harm to the environment,*
    - *minimising the creation of waste by the use of appropriate technology,*
    - *regulating the transportation, collection, treatment, storage and disposal of waste,*
    - *encouraging the reduction of the use of materials, encouraging the re-use and recycling of materials and encouraging material recovery,*

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<sup>1</sup> Report of the World Commission on Environment and Development: Our Common Future Transmitted to the General Assembly as an Annex to document A/42/427 - Development and International Cooperation: Environment

- *adopting minimum environmental standards prescribed by complementary Commonwealth and State legislation and advising the Government to prescribe more stringent standards where appropriate,*
- *setting mandatory targets for environmental improvement,*
- *promoting community involvement in decisions about environmental matters,*
- *ensuring the community has access to relevant information about hazardous substances arising from, or stored, used or sold by, any industry or public authority,*
- *conducting public education and awareness programs about environmental matters.*

(2) *For the purposes of subsection (1) (a), ecologically sustainable development requires the effective integration of social, economic and environmental considerations in decision-making processes. Ecologically sustainable development can be achieved through the implementation of the following principles and programs:*

*(a) the precautionary principle—namely, that if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.*

*In the application of the precautionary principle, public and private decisions should be guided by:*

*(i) careful evaluation to avoid, wherever practicable, serious or irreversible damage to the environment, and*

*(ii) an assessment of the risk-weighted consequences of various options,*

*(b) inter-generational equity—namely, that the present generation should ensure that the health, diversity and productivity of the environment are maintained or enhanced for the benefit of future generations,*

*(c) conservation of biological diversity and ecological integrity—namely, that conservation of biological diversity and ecological integrity should be a fundamental consideration,*

*(d) improved valuation, pricing and incentive mechanisms—namely, that environmental factors should be included in the valuation of assets and services, such as:*

*(i) polluter pays—that is, those who generate pollution and waste should bear the cost of containment, avoidance or abatement,*

*(ii) the users of goods and services should pay prices based on the full life cycle of costs of providing goods and services, including the use of natural resources and assets and the ultimate disposal of any waste,*

*(iii) environmental goals, having been established, should be pursued in the most cost effective way, by establishing incentive structures, including market mechanisms, that enable those best placed to maximise benefits or minimise costs to develop their own solutions and responses to environmental problems.*

12. Chapter 2 of the POEO Act, empowers the EPA to develop draft policies designed to ensure environmental protection.

13. Pursuant to ss 6 and 55 of the POEO Act, the EPA is the regulatory authority responsible for granting environment protection licences which authorise the carrying out of activities identified in Schedule 1 of the POEO Act, including, but not limited to, “mining for coal” and “petroleum exploration, assessment and production”.



14. On 26 October 2020, BSCA was granted leave to adduce expert evidence at trial directed to the following areas:
- a) Unregulated release of greenhouse gases is the greatest threat to the environment and people of NSW, as anthropogenic climate change has the potential to adversely and irreversibly alter all aspects of the natural environment.
  - b) To what extent have anthropogenic greenhouse gas emissions caused a long-term increase in extreme fire weather and in the length of the fire season, across Australia and how that would impact on the environment of New South Wales.
  - c) Whether and why the world is or is not on target to achieve a global temperature rise of no more than 1.5 degrees Celsius above pre-industrial levels and how that would impact on the environment of New South Wales.
  - d) Whether and why the current emissions reduction trajectory for Australia is or is not in line with and appropriate to limiting global temperature rise to no more than 1.5 degrees Celsius above pre-industrial levels and how that would impact on the environment of New South Wales.
  - e) Whether and why the current emissions reduction trajectory for New South Wales is or is not in line with and appropriate to limiting global temperature rise to no more than 1.5 degrees Celsius above pre-industrial levels and how that would impact on the environment of New South Wales.
  - f) Whether or not (and why) the objectives, guidelines and policies identified by the Respondent:
    - i. regulate or reduce direct and indirect sources of greenhouse gas emissions in a manner consistent with global temperature rise being limited to 1.5 degrees Celsius from pre-industrial levels; and
    - ii. are fit for purpose in protecting or mitigating against the threat posed by climate change to the quality of the environment and the people of New South Wales.
15. Your expert advice is sought to assist the Court in relation to the issues identified in paragraph 14.

### **Duty to the Court**

16. Our client seeks to retain you to act as an expert witness in relation to the proceedings. Your role as an expert witness is to assist the Court impartially on matters relevant to your area of expertise. You are not to act as an advocate for our clients and any opinion expressed must be genuinely held by you based on your professional training, knowledge, or experience.
17. In this respect, we draw your attention to Division 2 of Part 31 of the *Uniform Civil Procedure Rules 2005* (**UCPR**), and the Expert Witness Code of Conduct (**Code of Conduct**) contained in Schedule 7 of the UCPR, both of which govern the use of expert evidence in the Court. Your expert evidence must conform with the Code of Conduct.
18. In particular, we note that clause 2 of the Code of Conduct states that:
- “An expert witness is not an advocate for a party and has a paramount duty, overriding any duty to the party to the proceedings or other person retaining the expert witness, to assist the court impartially on matters relevant to the area of expertise of the witness.”*

19. Please read those documents carefully before you commence the work requested. **Your expert report must contain an acknowledgment that you have read the Expert Witness Code of Conduct under the UCPR and that you agree to be bound by it.** Otherwise your report will be inadmissible as evidence.

### **Overview of the Work Required**

20. The work we require involves the following:
- a) review any relevant documentation;
  - b) prepare a written expert report that conforms with the Code of Conduct and addresses questions that will be provided to you in a supplementary expert brief;
  - c) review any expert report(s) provided by the Respondent, if required;
  - d) confer with the Respondent's expert(s) at a joint conference(s) and prepare a joint report, which sets out the matters agreed, matters disagreed, and the reasons for agreement and disagreement as a result of the joint conference(s), if required; and
  - e) appear as an expert witness in the Court, if required.
21. We request that you provide us with a draft of your report for review before finalising it. We emphasise that the purpose of this is not to influence the conclusions or recommendations you make but to ensure that the language and expression of the report is clear and complies with the formal legal requirements of an expert report.
22. Please let us know as soon as possible if you require further information for the purpose of giving your expert opinion.

### **Relevant Documents**

23. We provide the following documents for your consideration:
- a) UCPR and Code of Conduct (**Tab 1**);
  - b) BSCA Summons, 8 April 2020 (**Tab 2**);
  - c) BSCA Amended Summons, 8 May 2020 (**Tab 3**);
  - d) EPA Response to BSCA Amended Summons, 5 June 2020 (**Tab 4**);
  - e) BSCA Notice to Admit Facts, 11 June 2020 (**Tab 5**);
  - f) EPA Notice Disputing Facts, 25 June 2020 (**Tab 6**);
  - g) EPA letter accompanying EPA Notice to Dispute Facts, 25 June 2020 (**Tab 7**);
  - h) Affidavit of David Fowler, 28 August 2020 (**Tab 8**);
  - i) BSCA Tender Bundle (**Tab 9**);
  - j) EPA Tender Bundle (**Tab 10**);
  - k) BSCA Tender Bundle in reply (**Tab 11**);
  - l) Short Minutes of Order granting BSCA leave to adduce expert evidence, including Amended areas of expert evidence, 26 October 2020 (**Tab 12**).

### **Expert Report Requirements**

24. Your expert report will be used as evidence in chief of your professional opinion. Information which you believe the Court should be aware of must be contained in your expert report. Whilst you may be able to clarify matters contained in your report at a later date, this is unlikely to extend to the provision of new information.

25. In providing your opinion to the Court you must set out all the assumptions upon which the opinion is based. This may include, for example, facts observed as a result of field or lab work or 'assumed' facts based on a body of scientific opinion. If the latter, you should provide references which demonstrate the existence of that body of opinion.
26. Your expert report must also set out the process of reasoning which you have undertaken in order to arrive at your conclusions. It is insufficient for an expert report to simply state your opinion or conclusion reached without an explanation as to how this was arrived at. The purpose of providing such assumptions and reasoning is to enable the Court and experts engaged by other parties to the proceedings to make an assessment as to the soundness of your opinion.
27. Division 2, Part 31 of the UCPR Rules sets out information that your report must contain, such as:
  - a) your qualifications;
  - b) the facts, and assumptions of fact, on which the opinions in the report are based and your reasons for each opinion expressed;
  - c) if a particular issue falls outside your area of expertise, clear acknowledgement that it falls outside your field of expertise;
  - d) any literature or other materials utilised in support of the opinions;
  - e) details of any examinations, tests or other investigations on which you have relied; including details of the qualifications of the person who carried them out;
  - f) a brief summary of the report;
  - g) if you believe that the report may be incomplete or inaccurate without some qualification, the qualification must be stated in the report;
  - h) If you consider that your opinion is not a concluded opinion because of insufficient research or insufficient data or for any other reason, this must be stated when the opinion is expressed; and
  - i) If you change your opinion on a material matter after providing an expert's report to us, you must provide us with a supplementary report to that effect.
28. Please format your report as follows:
  - a) Address your report to the Court;
  - b) Sign and date your report;
  - c) Include a summary of your qualifications and experience as an appendix to your report;
  - d) Use 12 point type and at least 2cm page margins;
  - e) Supply a PDF version of your report for printing and binding;
  - f) Number each paragraph of your report;
  - g) Number all pages, including attachments and annexes, continuously from the first page to the last page (excluding any cover page to your report); and
  - h) Annex this letter of instruction to your report.

### **Timing**

29. The matter is currently listed for a directions hearing on Friday, 20 November 2020. We anticipate that dates for the provision of expert evidence and a hearing date will be determined at that directions hearing.

30. We will provide further information on any expert reporting requirements and hearing dates as they become available.

### **Fees and Terms**

31. Thank you for agreeing to provide your advice in this matter on a pro bono (volunteer) basis. EDO relies on experts such as you to assist in matters with very little financial compensation and we thank you for agreeing to provide this advice.
32. Please note the following terms:
- a) your work will only be used by EDO to assist our client;
  - b) EDO will take all reasonable steps to prevent your work being used for purposes other than that mentioned above, but we accept no responsibility for the actions of third parties;
  - c) regardless of the above points, EDO may choose not to use your work; and
  - d) you will not be covered by the EDO's insurance while undertaking the above tasks.

### **Duty of Confidentiality**

33. Please treat your work as strictly confidential until your expert report is provided to other parties and the Court, unless authorised by us.
34. If you would like to discuss this brief further, please contact the author on (02) 9262 6989 or email [matthew.floro@edo.org.au](mailto:matthew.floro@edo.org.au).
35. We are grateful for your assistance in this matter.

Yours sincerely

**Environmental Defenders Office**



Matt Floro  
Senior Solicitor

Our Ref: 1926923

## Appendix B: Amended Areas of Expert Evidence

See attached page.

## “A1”

### ANNEX A TO THE FURTHER AMENDED NOTICE OF MOTION

#### Amended aAreas of expert evidence

1. Unregulated release of greenhouse gases is the greatest threat to the environment and people of NSW, as anthropogenic climate change has the potential to adversely and irreversibly alter all aspects of the natural environment.
2. To what extent have anthropogenic greenhouse gas emissions caused a long-term increase in extreme fire weather and in the length of the fire season, across Australia and how that would impact on the environment of New South Wales.
3. Whether and why the world is or is not on target to achieve a global temperature rise of no more than 1.5 degrees Celsius above pre-industrial levels and how that would impact on the environment of New South Wales.
4. Whether and why the current emissions reduction trajectory for Australia is or is not in line with and appropriate to limiting global temperature rise to no more than 1.5 degrees Celsius above pre-industrial levels and how that would impact on the environment of New South Wales.
5. Whether and why the current emissions reduction trajectory for New South Wales is or is not in line with and appropriate to limiting global temperature rise to no more than 1.5 degrees Celsius above pre-industrial levels and how that would impact on the environment of New South Wales.
6. Whether or not (and why) the objectives, guidelines and policies identified by the Respondent:
  - (a) regulate or reduce direct and indirect sources of greenhouse gas emissions in a manner consistent with global temperature rise being limited to 1.5 degrees Celsius from pre-industrial levels; and
  - (b) are fit for purpose in protecting or mitigating against the threat posed by climate change to the quality of the environment and the people of New South Wales.

## Appendix C: Curriculum Vitae of Author

See attached pages.

**Curriculum Vitae**  
**PENNY D. SACKETT**

**Academic Address:**

Climate Change Institute  
Australian National University  
Frank Fenner Building, Linnaeus Way  
Canberra, ACT 2601  
Penny.Sackett@anu.edu.au

**Private Business Address:**

Dr Penny D Sackett  
Strategic Advisory Services  
  
www.pennysackett.com

**Born:** 28 February 1956, Lincoln, Nebraska USA

**Citizenship:** U.S. and Australian

**Permanent Residence:** Australia

**Languages:** English: Mother Tongue; Dutch: Good knowledge; Spanish: Beginner's knowledge

**Education:**

- 1984 Ph.D. in Physics, University of Pittsburgh, PA, USA  
Thesis Title: *Scale Parameters for Finite Temperature Actions of Lattice Gauge Theories Coupled to Fermions*
- 1980 M.S. in Physics, University of Pittsburgh, PA, USA
- 1978 B.S. in Physics, University of Nebraska-Omaha (UNO), NE, USA
- 1978 Teaching certification (K-12), Physics and Mathematics, UNO, USA

**Distinctions and Honours:**

- 2019 Distinguished Alumni Award, University of Pittsburgh, USA
- 2016 Omaha (USA) North High Magnet School "Viking of Distinction" Award
- 2014 UNO College of Arts and Sciences Outstanding Alumni Award
- 2014 Citation for Alumni Achievement: University of Nebraska-Omaha (UNO)
- 2011 Opening Keynote Speaker: 2011 Adelaide Festival of Ideas, SA, Australia
- 2005 Univ of Canberra-Australian National Univ International Women's Day Lecturer
- 2004 Finalist, Telstra ACT Business Women of the Year, ACT, Australia
- 2003 Fellow of the UK Royal Astronomical Society  
*Election to the Society to honour a person eminent in the field of astronomy and not normally resident in the UK for leadership, enabling activities, etc*
- 2002 Harley Wood Lecturer, Astronomical Society of Australia
- 2000 Athena Lecturer, St. Andrews University, Scotland
- 1998 University of Groningen Teaching Award (Onderwijsprijs), The Netherlands
- 1992-1994 J. Seward Johnson Fellow, Institute of Advanced Study, Princeton, NJ, USA
- 1981-1982 O.H. Blackwood Award for Excellence in Teaching, University of Pittsburgh, PA, USA
- 1979-1981 Andrew Mellon Fellowship, University of Pittsburgh, PA, USA
- 1978 Summa Cum Laude, University of Nebraska-Omaha, NE, USA
- 1978 Most Outstanding Physics Student, University of Nebraska-Omaha, NE, USA
- 1978 Most Outstanding Mathematics Student, University of Nebraska-Omaha, NE
- 1974-1978 Dean's List, University of Nebraska-Omaha, NE, USA
- 1974-1978 Nebraska Regent's Scholarship, University of Nebraska-Omaha, NE, USA
- 1974-1978 National Merit Scholarship, University of Nebraska-Omaha, NE, USA

**Professional Society Membership**

Astronomical Society of Australia  
International Astronomical Union  
Royal Astronomical Society



## Professional Activity and Appointments

- 2020-current Distinguished Honorary Professor (E3), Climate Change Institute,  
Australian National University, Canberra, Australia  
*Community engagement, climate science synthesis and communication*
- 2011-current Strategic Scientific Advisor and Principal  
Penny D Sackett Strategic Advisory Services  
*Sole trader assisting governments, business and other organizations  
with matters of science and sustainability*
- 2014-2019 Honorary Professor, Climate Change Institute,  
Australian National University, Canberra, Australia  
*Community engagement, science for policy, subnational climate change action*
- 2008-2014 Academic Adjunct Professor, Research School of Astronomy and Astrophysics,  
Australian National University, Canberra, Australia  
*Mentoring early career researchers*
- 2008-2011 Chief Scientist for Australia,  
DIISR, Australian Commonwealth Government, Canberra, Australia  
*Provision of independent, whole-of-government scientific advice,  
science advocacy, liaison with community, bureaucracy and state governments*
- 2007-2008 Professor (Level E2), Research School of Astronomy and Astrophysics,  
Australian National University (ANU), Canberra, Australia  
*Research, research training, and international research co-ordination*
- 2002-2007 Director, Research School of Astronomy and Astrophysics, and the  
Mt. Stromlo and Siding Springs Observatories, ANU, Canberra, Australia  
*Strategic leadership, budget, human & facility management, liaison, advocacy*
- 2001-2002 Chaired Professor of (Extra)Galactic Optical/Infrared Astronomy,  
Kapteyn Astronomical Institute, University of Groningen, The Netherlands  
*Research, research training, teaching, international program building*
- 1998-2000 Associate Professor with tenure (Universiteits Hoofd Docent),  
Kapteyn Astronomical Institute, University of Groningen, The Netherlands  
*Research, research training, teaching, international program building*
- 2000 Visiting Member, Institute for Advanced Study, Princeton, NJ, USA  
(on leave from Kapteyn Institute 1999-2000 academic year)  
*Research of international standing*
- 1999 Visiting Scientist, Anglo-Australian Observatory, Epping, Australia  
(on leave from Kapteyn Institute 1999-2000 academic year)  
*Research of international standing and international co-ordination*
- 1995-1997 Assistant Professor with tenure (Universiteits Docent), 75% full time  
Kapteyn Astronomical Institute, University of Groningen, The Netherlands  
*Research, research training, teaching, research program building*
- 1995-1997 Visiting Research Member, School of Natural of Sciences, 25% full time  
Institute of Advanced Study, Princeton, NJ, USA  
*Research of international standing*
- 1992-1994 Research Member & J. Seward Johnson Fellow, School of Natural of Sciences,  
Institute of Advanced Study, Princeton, NJ, USA  
*Self-directed research of international standing*

1991-1992	Program Director, Education, Human Resources and Special Programs, Div of Astronomical Sciences, National Science Foundation, Washington, DC, USA <i>Program management, cross-division initiatives, external liaison</i>
1990-1992	Research Assistant Professor, Physics and Astronomy Department, University of Pittsburgh, PA, USA <i>Self-directed research</i>
1987-1990	Adjunct Assistant Professor, Physics and Astronomy Department, University of Pittsburgh, PA, USA <i>Self-supported research post</i>
1988-1989	Visiting Scientist, Kapteyn Astronomical Institute, University of Groningen, The Netherlands <i>Self-directed independent research</i>
1987	Scientific Writing Consultant, Pittsburgh Supercomputing Center (PSC), Pittsburgh, PA, USA <i>Technical writing and editing</i>
1986-1987	Research Associate, Biological Sciences Department, University of Pittsburgh, PA, USA <i>Algorithm development and application to cellular activity</i>
1985-1986	Visiting Assistant Professor, Physics and Astronomy Department, University of Pittsburgh, PA, USA <i>University physics teaching</i>
1983-1985	Visiting Assistant Professor, Physics Department, Amherst College, MA, USA <i>University teaching in liberal arts setting</i>
Summer 1983	Science Writer Intern, Science News Magazine, Washington, DC, USA <i>Developing and writing science news stories</i>

### Supervision of Junior Researchers

Researcher name	Sackett Supervisory Capacity	Subsequent posting
Paul Vreeswijk	1997 Honours Thesis Supervisor	Fellow, Weizmann Inst of Science, IL
Jean Philippe Beaulieu	1996-98 Postdoctoral Supervisor	Director of Research, IAP, Paris, FR
Martin Dominik	1997-99 Postdoctoral Supervisor	Reader, Univ of St Andrews, UK
Richard Naber	PhD Thesis (Co-supervisor)	Left field before completion
Scott Gaudi	2001 PhD Thesis (Co-supervisor)	Professor, Ohio State University, USA
Eduard Westra	2003 Honours Thesis Supervisor	Industrial Data Analyst, NL
Ulyana Dyudina	2004 Postdoctoral Supervisor	Assoc Scientist, Space Science Inst, USA
Jelte de Jong	2005 PhD Thesis (Co-supervisor)	Researcher, University of Groningen, NL
David Wel Drake	2005 PhD Thesis Supervisor	Asst Director, M-D Basin Authority, AU
Brandon Tingley	2006 PhD Thesis Supervisor	PostDoc, Aarhus University, DK
Christine Thurl	2007 PhD Thesis Supervisor	Industrial Physicist, DE
Thomas Evans	2008 Honours Supervisor	Research Fellow, Univ of Exeter, UK
Daniel Bayliss	2009 PhD Thesis Supervisor	Asst Professor, Univ of Warwick, UK
Karen Lewis	2011 PhD Thesis (Co-supervisor)	Postdoc, Earth Life Science Inst, JP

## Selected Major Experiences and Accomplishments

- 2015-present *As Councillor and Chair of ACT Climate Change Council:*
- Spearheaded recommendation for interim GHG emissions targets in the ACT
  - With Prof. Will Steffen, introduced carbon budget approach into ACT policy-making
  - Led *Canberra's Climate-Fuelled Summer of Crisis* Report
- 2011-present *As Private Strategic Scientific Advisor:*
- Foresight analyst for 2025 Strategic Plan of BASF, world's largest chemical producer
  - Scientific Assessor for Queensland \$20m Smart Futures Fund
  - Analyst and advisor to Australian multi-state Climate Action Roundtable
  - Facilitator for ACT Government Climate Change Adaptation Needs Workshop
- 2008-2011 *As Chief Scientist for Australia:*
- Commissioned four cross-disciplinary reports for Prime Minister's Council (PMSEIC):  
*Challenges at energy-water-carbon intersections*  
*Australia and food security in a changing world*  
*Transforming learning and the transmission of knowledge*  
*Epidemics in a changing world*
  - Founded Forum of Australian Chief Scientists
  - Established two-way communication tools with Australian community
- 2002-2007 *As Director, Research School of Astronomy and Astrophysics (RSAA)*
- Managed University department and observatory staff of 100
  - Responsible for annual budget of 6M AUD plus 4M AUD in 2nd & 3rd stream funds
  - Oversaw rebuild of main campus of School after devastating 2003 bush fires
  - Led national effort to establish next generation telescope access for Australia
  - Established ANU Planetary Science Institute, joint venture with ANU Earth Sciences
  - Initiated and carried out large change process at RSAA, managing mandated 29% increase in salary costs & 20% reduction in recurrent budget
  - Spearheaded entry into two major international partnerships:  
Giant Magellan Telescope (GMT) and Murchison Wide Field Array (MWA)
  - Negotiated awards of two major instrument contracts: Gemini NIFS (II) and GSAOI
  - Oversaw 80% increase in research publication rate, 50% growth in PhD student body, and increase in student completion rate while decrease in time to submission
- 1989-2010 *As Scientific Researcher and Team Leader in USA, NL and Australia:*
- Streamlined massive searches for transiting planets in the Milky Way
  - Founded and Principal Investigator of the international PLANET Collaboration, managing collaboration of 20 scientists in 7 countries using 5 telescopes to set first limits for Jupiter-like planets around common dwarf stars, determine limb-darkening of distant stars for the very first time, and detect first terrestrial-mass (5-Earth mass) exoplanet around a normal star
  - Determined 3-D distribution of dark matter around some galaxies
  - Quantified relationship between structure and dark matter in Milky Way
  - Determined deep cloud structure in atmosphere of Saturn
- 1991-1992 *As Program Director at U.S. National Science Foundation (NSF), USA*
- Managed program of small grants to fund high-risk science
  - Initiated first newsletter from NSF Astronomy division (AST) to national community
  - Managed all cross-division (AST + another NSF division) awards
  - Responsible for all AST projects related to education and diversity
  - Initiated study into factors correlated to proposal success and failure

## Local, National & International Service

2015-present	Councillor and now Chair, Australian Capital Territory (ACT) Climate Change Council
2017-2020	Member, Business Advisory Board, ACT Renewable Energy Innovation Fund
2017-2019	Member, Scientific Advisory Board, Potsdam Institute for Climate Impact Research
2015	Chair, Memorandum Team, Nobel Laureate Symposium: <i>Climate Change, Changing Cities</i>
2013	Invited Speaker, 2013 Geological Society of America, Denver, CO, USA Contribution: <i>Elemental Cycles in the Anthropocene</i>
2011	Drafting Team, Nobel Laureate Stockholm Memorandum on Global Sustainability
2008-2011	As Chief Scientist for Australia, Member of: Prime Minister's Science, Engineering & Innovation Council, Executive Officer Prime Minister's Science Prize Selection Committee Educational Investment Fund Board Defence Science & Technology Organisation Advisory Board Rural Research & Development Council Higher Education Endowment Fund Assessment Panel Cooperative Research Centres Assessment Panel Climate Change Science Framework Implementation Group, Chair National Youth Science Forum, President Forum of Australian Chief Scientists, Founder and Chair
2005-2010	Board of Directors, Association of Universities for Research in Astronomy (AURA)
2006-2008	Board of Directors, Giant Magellan Telescope (GMT) Organisation
2002-2008	ANU Member Representative to AURA
2008	Australian GMT Advisory Committee to Australia Astronomy, Ltd
2003-2007	NCA Task Force on Extremely Large Telescopes (ELT)
2002-2007	National Committee for Astronomy (NCA), Australian Academy of Science
2002-2007	Australian Gemini Telescope Steering Committee
2002-2007	Board of Management for the Australian Astronomy MNRF Award
2004-2007	Chancellor's Award Committee, Australian National University (ANU)
2004-2006	Canberra Partnership Board, ACT, AU
2003-2005	University Science, Health & Engineering Research Committee, ANU
2000-2005	European OPTICON Extremely Large Telescope (ELT) Science Working Group
2004	International review team of the South African Astro-Geoscience Facilities for the NRF
2002-2003	Academic Board, Australian National University, Canberra, AU
1995-2002	Principal Investigator, International PLANET Collaboration
2001-2002	Science Advisory Committee for the Square Kilometer Array
2001-2002	Curriculum Advisory Committee for Astronomy, Kapteyn Astronomical Institute
2000-2002	European Southern Observatory (ESO) Programmes Committee, Member-at-Large
2000-2001	Chair, Stars and Planets Panel for OPTICON ELT Working Group
1996-1998	ESO Working Group on Exo-Solar Planets
1996-1998	Facilities Program Committee, Netherlands Organisation for Scientific Research

## Scientific Organising and Steering Committees:

- 2013-2015 *Changing Climate, Changing Cities*  
Nobel Laureates Symposium on Global Sustainability, Hong Kong 2015  
also Chair, Symposium Memorandum Drafting Team
- 2008 *2008 Meeting of the Astronomical Society of Australia*  
Perth, Australia
- 2006-2007 *IAU Symposium on Exoplanets: Physics, Dynamics and Evolution*  
Suzhou, China
- 2006 *Transiting Extrasolar Planets*  
25-28 September 2006, MPA, Heidelberg, Germany
- 2003-2004 *Planetary Timescales: Stardust to Continents*  
2003 White Conference, National Academy of Sciences, Canberra, AU
- 2002-2003 *Extrasolar Planets: Today and Tomorrow*  
30 June - 4 July 2003, IAP, Paris, France
- 2001-2002 *Scientific Frontiers in Research on Extrasolar Planets*  
11-14 June 2002, Washington, DC, USA
- 2001 *The SKA: Defining the Future*  
9-12 July 2001, Berkeley, CA, USA
- 2000-2001 *Yale Cosmology Workshop: Shapes of Galaxies and Their Halos*  
28-30 May 2001, New Haven, USA
- 1999-2000 *Planetary Systems in the Universe: Observation, Formation and Evolution*  
7-11 August 2000, Manchester, England
- 1998-2000 *Microlensing 2000: A New Era for Microlensing Astrophysics*  
21-25 February 2000, Capetown, South Africa  
Chair, Scientific Organising Committee
- 1997-1999 *Impact of Large-Scale Photometry on the Research of Pulsating Stars*  
IAU Conference, 9-13 August 1999, Budapest, Hungary
- 1997-1999 *VLT Opening Symposium: From Extrasolar Planets to Brown Dwarfs*  
1-4 March 1999, Antofagasta, Chile
- 1997-1998 *4<sup>th</sup> International Workshop on Microlensing Surveys*  
15-17 January 1998, Paris, France
- 1990 *Warped Disks and Inclined Rings around Galaxies*  
Workshop 30 May - 1 June 1990, Pittsburgh PA  
Scientific and Local Organising Committee

## PUBLICATIONS

**Over 140 publications, 65 in refereed journals, together garnering more than 4300 scientific citations and 1000 normalised citations**  
(*Sackett served as PhD or postdoctoral supervisor for authors in italics*)

### Refereed Scientific Publications

Elemental cycles in the Anthropocene: mining aboveground

Penny D. Sackett

2016, in Geoscience for the Public Good and Global Development: Toward a Sustainable Future, eds. G.R. Wessel and J.K. Greenberg, J.K., Geological Society of America Special Papers 520, p. SPE520-11, doi:10.1130/2016.2520(11)

HATS-3b: An Inflated Hot Jupiter Transiting an F-type Star

*Daniel D. R. Bayliss et al* (29 authors, including Penny D Sackett)

2013, AJ, 146, 113, arXiv:1306.0624

Endangered Elements: Conserving the Building Blocks of Life

**(Invited Review)** Penny Sackett

2012, Solutions, Volume 3, Issue 3

HATSouth: a global network of fully automated identical wide-field telescopes

G. Á. Bakos et al (24 authors, including *Daniel D. R. Bayliss* and Penny D. Sackett)

2013, PASP, 125, 154, arXiv:1206.1391

The Frequency of Hot Jupiters in the Galaxy: Results from the SuperLupus Survey

*Daniel D. R. Bayliss* and Penny D. Sackett

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Confirmation of a Retrograde Orbit for Exoplanet WASP-17b

*Daniel D. R. Bayliss*, Joshua N. Winn, Rosemary A. Mardling & Penny D. Sackett

2010, ApJ Letters, 722, L224-L227, arXiv:1009.5061

An *a priori* Investigation of Astrophysical False Positives in Ground-Based Transiting Planet Surveys

*Tom M. Evans* & Penny D Sackett

2010, ApJ, 712, 38, arXiv:1002.0886

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The Lupus Transit Survey for Hot Jupiters: Results and Lessons

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The Frequency of Large Radius Hot and Very Hot Jupiters in  $\omega$  Centauri

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- A Deep Wide-Field Variable Star Catalog of  $\omega$  Centauri  
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2020, ACT Climate Change Council, Canberra

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Back home on Stromlo!

P.D. Sackett

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## Appendix D: EPA Tender Bundle Document Assessment Summary

(Refer to point 272) for explanation of the yellow and blue colour-coding)

A	B	C	D	E	F	G	H	I	J	K
<b>BUSHFIRE SURVIVORS FOR CLIMATE ACTION INCORPORATED v ENVIRONMENT PROTECTION AUTHORITY (2020/00106678) EPA TENDER BUNDLE INDEX</b>						<b>Document Categorisation determined by Professor Penny D Sackett for Expert Report in relation to BSCA v NSW EPA</b>				
DOCO #	Name of document	Published by * denotes EPA predecessor agencies ^ denotes EPA (or predecessor agency) was involved in the development of the document	Addresses a matter arising under [37](a)-(e), [38](a)-(e) and [39](a)-(e) of the Applicant's Points of Claim	Pub. Year		Type of Publication	Positive Search Term Return for: greenhouse, methane, carbon dioxide, nitrous oxide, CFC, chlorofluoro- carbon, landfill gas, carbon emission(s), Paris or Kyoto.	Seeks to regulate or reduce direct and indirect sources of GHG emissions, directly or indirectly	Does so in a manner consistent with +1.5C warming	Are fit for purpose in protecting or mitigating against threat to environment and people of NSW
1.	2013 Calendar Year Air Emissions Inventory for the Greater Metropolitan Region in NSW	EPA	Y	2019		Status Report /Inventory	Y	N	N	N

2.	2015 State of the Environment Report	EPA	Y	2015		Status Report /Inventory	Y	Y, indirectly by setting out the problem, and listing responses	N	N
3.	2015-16 National Litter Index Results for New South Wales	EPA	N	2016		Status Report /Inventory	N	N	N	N
4.	A guide to the Noise Policy for Industry	EPA	N	2017		Guidelines	N	N	N	N
5.	Action for Air	EPA predecessor agency (DECCW)*	Y	2009		Roadmap/Plan	Y	Y, only as side benefit to reducing Air NEPM pollutants	N, No apparent connection made between GHG emissions and warning targets, though 60% cut in GHG by 2050 as a goal is mentioned	N

6.	Air Emissions Inventory for the Greater Metropolitan Region in New South Wales - 2013 Calendar Year - Consolidated Natural and Human-Made Emissions: Results	EPA	Y	2019		Status Report /Inventory	Y	N	N	N
7.	Air pollution – where does it come from? - Air Emissions Inventory for the Greater Metropolitan Region in NSW	EPA predecessor agency (DECC)*	Y	2007		Status Report /Inventory	N	N	N	N
8.	Air Quality Trends in the Illawarra - Current knowledge based on emission, monitoring and modelling studies, and areas of ongoing research - September 2015	Office of Environment and Heritage (NSW) ^	Y	2015		Status Report /Inventory	Y	N	N	N
9.	An assessment of attitudes and behaviour amongst multi unit dwelling residents in relation to illegal dumping	EPA predecessor agency (DEC)*	Y	2004		Social Assessment	N	N	N	N

10.	Applying compost and biosolids to land factsheet	EPA	Y	2018		Factsheet	Y	N, only as educational tool mentioning how composting can help reduce CH4 and thus GHG, p2	N, No apparent connection made GHG emissions and warming targets	N
11.	Approved Methods for testing noise emissions	EPA	N	2017		Approved Methods	N	N	N	N
12.	Approved Methods for the modelling and assessment of air pollutants in NSW	EPA	N	2016		Approved Methods	N	N	N	N
13.	Approved Methods for the sampling and analysis of air pollutants in NSW	EPA predecessor agency (DEC)*	Y	2006		Approved Methods	Y, in relation to CO2 from stationary sources	N, only discusses sampling methods	N	N
14.	Approved Methods for the sampling and analysis of water pollutants in NSW	EPA predecessor agency (DEC)*	N	2004		Approved Methods	Y	N, only discusses sampling methods	N	N

15.	Aquifer interference policy	Department of Primary Industries - Office of Water (NSW) <sup>a</sup>	N	2012		Policy	Y	N	N	N
16.	Asbestos and Waste Tyre Guidelines	EPA	N	2015		Guidelines	N	N	N	N
17.	Assessing Vibration: a technical guideline	EPA predecessor agency (DEC)*	N	2006		Guidelines	N	N	N	N
18.	Assessment and management of hazardous ground gases - Contaminated Land Guidelines	EPA	Y	2020		Guidelines	Y	Y, but only in % concentrations as ground gases that could be flammable or cause asphyxiation	N, no connection between assessment guidelines and global warming or temperature rise	N
19.	Assessment of domestic waste and recycling systems	EPA predecessor agency (DEC)*	Y	2004		Technical Assessment	Y	Y, in the context of domestic waste and recycling	N, No apparent connection made between GHG emissions	N

								and warming targets	
20.	Assessment of Garden Organics Collection Systems	EPA predecessor agency (DEC)*	Y	2005	Technical Assessment	N	N	N	N
21.	Australian and New Zealand Guidelines for Fresh and Marine Water Quality	Australian and New Zealand Governments and Australian state and territory governments (ANZG)✓	N	2018	Guidelines	N	N	N	N
21a	Australian and New Zealand Guidelines for Fresh and Marine Water Quality – linked resource				Guidelines	N	N	N	N
22.	Best Practice Note: Landfarming	EPA	N	2014	Best Practice	Y	N	N	N

23.	Better fuel for cleaner air - Regulation impact statement	Commonwealth of Australia <sup>a</sup>	Y	2018		Impact Statement	Y	N, overview of different recommendations for fuel regulations	N	N
24.	Better Practice Guide for Public Place Recycling	EPA predecessor agency (DEC)*	Y	2005		Best Practice Guide	N	N	N	N
25.	Better practice guide for resource recovery in residential developments	EPA	Y	2019		Best Practice Guide	Y	N	N	N
26.	Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities	EPA	Y	2012		Best Practice Guide	Y	N, just discussion of case studies	N	N
27.	Bushfire impacts on water quality	EPA	Y	2020		Brief	N	N	N	N
28.	Changing Behaviour Together: Waste Less, Recycle More Education Strategy 2016-21	EPA	Y	2017		Programme Strategy Overview	N	N	N	N



29.	Clean Air for NSW - Consultation paper	EPA	Y	2016		Report	Y	Y, seeks consultation on plan to create clean air with side benefit of decreasing GHG	N	N
30.	Clean cars for NSW	EPA	Y	2003		Action Plan	Y	Y, indirectly	N	N
31.	Cleaning Up Our Act: Redirecting the Future of Plastic in NSW Discussion Paper	NSW Government <sup>a</sup>	Y	2020		Discussion Paper	Y	Y, but only as minor side benefit	N	N
32.	Cleaning Up Our Act: The Future for Waste and Resource Recovery in NSW Issues Paper	NSW Government <sup>a</sup>	Y	2020		Issue Paper	Y	Y, but only as minor side benefit	Y, if enacted and achieved, but only for organic waste sector	N
33.	Coal seam gas activities and air quality	EPA	Y	2014		Regulatory Explainer	Y	N, explains regulatory framework, no connection to GHG	N	N
34.	Coal Washery Rejects Levy Operational Guidance Note	EPA predecessor agency (DECCW)*	N	2009		Guidance	N	N	N	N



35.	Co-Collection of Domestic Food Waste and Garden Organics The Australian experience	EPA predecessor agency (DECCW)*	Y	2007		Report	N	N	N	N	N
36.	Code of practice for coal seam gas fracture stimulation	Department of Trade & Investment - Resources & Energy (NSW) <sup>A</sup>	Y	2012		Code of Practice	Y	N, no relation to GHG	N		N
37.	Code of Practice for Coal Seam Gas Well Integrity	Department of Trade & Investment - Resources & Energy (NSW) <sup>A</sup>	Y	2012		Code of Practice	Y	N, no relation to GHG	N		N
38.	Compliance audit handbook	EPA	Y	2017		Handbook	N	N	N		N
39.	Compulsory notification of pesticides use	EPA	N	Updated 2018		Notice	N	N	N		N
40.	Compulsory pesticides training	EPA	N	Updated 2020		Notice	N	N	N		N

41.	Considering the environmental values of water when issuing prevention notices	EPA predecessor agency (DEC)*	N	2006		Guidance	N	N	N	N
42.	Contaminated Land Management Compliance Statement	EPA	N	2018		Compliance Statement	N	N	N	N
43.	Contaminated Land Planning Guidelines	NSW Government <sup>a</sup>	N	2018		Guidance	Y	N	N	N
44.	Contaminated sites - Guidelines for the Assessment and Management of Groundwater Contamination	EPA predecessor agency (DEC)*	N	2007		Guidance	N	N	N	N
45.	Council resource kit - woodsmoke isn't good smoke education campaign	EPA	N	2019		Guidance	Y	N	N	N
46.	Crackdown on illegal dumping - handbook for Local Government	EPA predecessor agency (DECC)*	N	2007		Handbook	N	N	N	N
47.	Dangerous Goods Vehicle Inspection Manual	EPA	N	2018		Guidance	N	N	N	N
48.	Dangerous Goods: Controls and when they apply	EPA	N	2020		Guidance	N	N	N	N

49.	Dangerous goods: Overview	EPA	N	Updated 2020		Guidance	N	N	N	N
50.	Dangerous Goods: Tank Design Approvals	EPA	N	2020		Guidance	N	N	N	N
51.	Design Guide for Container Recycling Equipment and Facilities under the NSW Container Deposit Scheme	EPA	Y	2017		Guidance	N	N	N	N
52.	Developing a pesticide use notification plan for outdoor public places	EPA	N	2017		Guidance	N	N	N	N
53.	Developing Recycled Organic Products for Use in Viticulture Market Needs and Sensitivity	EPA predecessor agency (DEC)*	Y	2005		Report	N	N	N	N
54.	Diesel and Marine Emissions Management Strategy	EPA	Y	2015		Guidance	Y	N	N	N
55.	Diesel emissions and their management in NSW - Background paper for EPA diesel emissions workshop 13 June 2014	EPA	Y	2014		Report	Y	N	N	N

56.	Diesel Locomotive Fuel Efficiency & Emissions Testing - Prepared for the NSW EPA	EPA	Y	2016		Report	Y	Y, as a baseline study of CO2 emission from rail	N	N
57.	Draft Financial Assurance Policy - This document is for public consultation purposes only	EPA	Y	2020		Report	N	N	N	N
58.	Dry cleaning chemicals (fact sheet)	EPA	N	2009		Pamphlet	N	N	N	N
59.	Dust Assessment Handbook	EPA	N	2019		Guidance	N	N	N	N
60.	Eligible waste fuels guidelines	EPA	N	2016		Guidance	Y	N, no relation to GHG	N	N
61.	Energy Efficiency Action Plan	Office of Environment and Heritage (NSW)	N	2018		Roadmap/Plan	Y	N, no relation to GHG	N	N
62.	Environment Protection Authority Compliance Policy	EPA	N	2013		Policy Document	N	N	N	N

63.	Environmental benefits of recycling	EPA predecessor agency (DECCW)*	Y	2010		Report	Y	Y, but only as a baseline study to measure GHG	N	N
64.	Environmental Guidelines - Use and Disposal of Biosolids Products	EPA	N	2000		Guidance	N	N	N	N
65.	Environmental Guidelines: Aerial Spraying Activities	EPA	N	2017		Guidance	N	N	N	N
66.	Environmental Guidelines: Composting and related organics processing facilities	EPA predecessor agency (DEC)*	Y	2004		Guidance	Y	Y, indirectly	N	N
67.	Environmental Guidelines: Solid waste landfills	EPA	Y	2016		Guidance	Y	Y	N, restrictions on methane are based on safety at ground level not GHG emissions	N
68.	Environmental Guidelines: Use of Effluent by Irrigation	EPA predecessor agency (DEC)*	Y	2004		Guidance	Y	N	N	N
69.	Environmental improvement	EPA	N	2014		Procedure Manual	N	N	N	N

	programs: Operating procedure								
70.	Environmental Management Calculation Protocol for Risk-based Licensing.	EPA	N	2019		Procedure Manual	N	N	N
71.	EPA Compliance Plan 2018-2019	EPA	N	2019		Compliance Statement	N	N	N
72.	EPA licensing guideline: Environmental Risk levels	EPA	N	2016		Guidance	N	N	N
73.	EPA Litter Prevention Kit Part 2 - Delivering effective local litter prevention projects	EPA	N	2019		Guidance	N	N	N
74.	EPA Litter Prevention Kit Part 3 - Local Litter Check Guidelines	EPA	N	2016		Guidance	N	N	N
75.	EPA Litter Prevention Kit Part 4 - Butt Litter Check Guidelines	EPA	N	2019		Guidance	N	N	N
76.	EPA Prosecution Guidelines	EPA	N	2013		Guidance	N	N	N
77.	EPA Strategic Plan 2017-21 - 2018 updated	EPA	N	2018		Strategic Plan	N	N	N

78.	EPA's Energy from Waste Policy Statement	EPA	Y	2015		Compliance Statement	Y	N, reduce methane emissions from landfill but no connection to GHG	N	N
79.	Explanation of Intended Effects - SEPP (Environment)	NSW Government	Y	2017		Policy Document	N	N	N	N
80.	Fact sheet: Rehabilitation of gas sites in NSW	EPA	N	2016		Fact Sheet	N	N	N	N
81.	Filling your land? Make sure it's legal	EPA	N	2017		Pamphlet	N	N	N	N
82.	Fire safety in waste facilities	EPA	N	2020		Guidance	N	N	N	N
83.	Flaring of Gas	EPA	Y	2015		Guidance	Y	Y, indirectly	N	N
84.	Food and Garden Organics Best Practice Collection Manual	Commonwealth of Australia	Y	2012		Guidance	Y	Y	N	N
85.	Full Cost of Landfill Calculator and brochure	EPA predecessor agency (OEHL); Department of Premier and Cabinet	Y	2011		Webpage	Y	N	N	N

85a	Full Cost of Landfill Calculator and brochure – information on how to use tool					Pamphlet	Y	N	N	N
85b	Full Cost of Landfill Calculator and brochure – screenshot of tool					Calculator	N	N	N	N
86.	Future use of mixed waste organic outputs: EPA position statement	EPA	Y	2019		Policy Document	N	N	N	N
87.	Government resource efficiency policy	Office of Environment and Heritage (NSW) ^	Y	Updated 2019		Policy Document	Y	Y	N, but targets set for certain targeted areas	N
88.	Greater Sydney Regional Plan - A Metropolis of Three Cities – connecting people and supporting District Plans	NSW Government ^	Y	2018		Plan	Y	Y	N, but a "goal" of net zero by 2050 is stated	N
88a	Greater Sydney Regional Plan - A Metropolis of Three Cities – connecting people and supporting District Plans - Western City District Plan					Plan	Y	Y	N, but a "goal" of net zero by 2050 is stated	N



<b>88b</b>	Greater Sydney Regional Plan - A Metropolis of Three Cities – connecting people and supporting District Plans - Central City District Plan					Plan	Y	Y	N, but a "goal" of net zero by 2050 is stated	N
<b>88c</b>	Greater Sydney Regional Plan - A Metropolis of Three Cities – connecting people and supporting District Plans - Eastern City District Plan					Plan	Y	Y	N, but a "goal" of net zero by 2050 is stated	N
<b>88d</b>	Greater Sydney Regional Plan - A Metropolis of Three Cities – connecting people and supporting District Plans - North District Plan					Plan	Y	Y	N, but a "goal" of net zero by 2050 is stated	N
<b>88e</b>	Greater Sydney Regional Plan - A Metropolis of Three Cities – connecting people and supporting District Plans - South District Plan					Plan	Y	Y	N, but a "goal" of net zero by 2050 is stated	N
<b>89.</b>	Green Vehicle Guide	Australian Government <sup>a</sup>	Y	2020		Webpage	N	N	N	N

89a.	Green Vehicle Guide – user guide					Guidance	Y	Y, indirectly by giving citizens data to make own choice	N	N
90.	Guidance for licensing of mineral-sand mining that generates radioactive residues	EPA predecessor agency (DECC)*	N	2009		Guidance	N	N	N	N
91.	Guidance on the resource recovery order and exemption for mulch	EPA	N	2016		Guidance	N	N	N	N
92.	Guide to licensing Under the Protection of the Environment Operations Act 1997	EPA	N	2016		Guidance	N	N	N	N
93.	Guide to Notices under the POEO Act	EPA predecessor agency (DECC)*	N	2009		Guidance	N	N	N	N
94.	Guideline for the operation of the Mutual Recognition legislation for licensing and accreditation under the Radiation Control Act 1990	EPA	N	2013		Guidance	N	N	N	N

95.	Guideline: Pollution Incident Response Management Plans	EPA	Y	2020		Guidance	N	N	N	N	N
96.	Guidelines for Conducting Household Kerbside Residual Waste, Recycling and Garden Organics Audits in NSW Local Government Areas	EPA predecessor agency (DECC)*	N	2008		Guidance	N	N	N	N	N
97.	Guidelines for Consultants Reporting on Contaminated Sites	EPA	N	2020		Guidance	Y	N	N	N	N
98.	Guidelines for disposal of rinsate (fact sheet)	EPA	N	2012		Guidance	N	N	N	N	N
99.	Guidelines for implementing the POEO (Underground Petroleum Storage Systems) Regulation 2008	EPA predecessor agency (DECCW)*	N	2009		Guidance	N	N	N	N	N
100.	Guidelines for the Burning of Bio-material - Record-keeping Requirements for Electricity Generating Facilities	EPA	N	2013		Guidance	N	N	N	N	N

101.	Guidelines for the economic assessment of mining and coal seam gas proposals	NSW Government <sup>A</sup>	Y	2015		Guidance	Y	N	N	N	N
102.	Guidelines for Using Compost in Land Rehabilitation and Catchment Management	EPA predecessor agency (DECC)*, Department of Primary Industries	Y	2008		Guidance	N	N	N	N	N
103.	Guidelines on Enforceable Undertakings	EPA	N	2017		Guidance	N	N	N	N	N
104.	Guidelines on EPA use of unmanned aircraft	EPA	N	2018		Guidance	N	N	N	N	N
105.	Guidelines on recovering monetary benefits from environmental offenders	EPA	N	2019		Guidance	N	N	N	N	N
106.	Guidelines on resource recovery - Orders and Exemptions - For the land application of waste materials as a fertiliser or soil amendment	EPA	Y	2017		Guidance	N	N	N	N	N

<b>107.</b>	Guidelines on resource recovery - Orders and Exemptions - For the land application of waste materials as fill	EPA	Y	2017		Guidance	N	N	N	N	N
<b>108.</b>	Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997	EPA	N	2015		Guidance	N	N	N	N	N
<b>109.</b>	Handbook for Design and Operation of Rural and Regional Transfer Stations	EPA predecessor agency (DEC)*	Y	2006		Guidance	Y	N	N	N	N
<b>109a.</b>	Handbook for Design and Operation of Rural and Regional Transfer Stations - Case Studies 12-24					Guidance	N	N	N	N	N
<b>109b.</b>	Handbook for Design and Operation of Rural and Regional Transfer Stations - (Case Studies 25-37)					Guidance	Y	N	N	N	N

110.	Handbook for the design, construction, operation, monitoring and maintenance of a passive landfill gas drainage and biofiltration system	EPA predecessor agency (DECCW)*	Y	2010		Guidance	Y	Y, indirectly by providing useful info to landfill owners	N	N
111.	Hazardous waste storage and processing - Guidance for the liquid waste industry	EPA	N	2016		Guidance	N	N	N	N
112.	Household building and renovation: Asbestos	EPA	N	Updated 2019		Webpage	N	N	N	N
113.	Household building and renovation: Lead safety	EPA	N	Updated 2020		Webpage	N	N	N	N
114.	Household building and renovation: Treated timber	EPA	N	Updated 2017		Webpage	N	N	N	N
115.	Household chemical CleanOut (fact sheet)	EPA	N	Updated 2018		Webpage	N	N	N	N
116.	Identifying Potential Agricultural and Horticultural Markets for Composted Garden Organics in New South Wales	EPA predecessor agency (DECC)*	Y	2008		Report	Y	Y, indirectly by scoping possible soil carbon options	N	N

117.	Illegal dumping prevention and clean-up: Handbook for Aboriginal communities	EPA predecessor agency (DECC)*	N	2008		Handbook	N	N	N	N
118.	Improving mine rehabilitation in NSW	NSW Government <sup>a</sup>	Y	2017		Discussion Paper	N	N	N	N
119.	Improving water quality in catchments using compost	EPA predecessor agency (DEC)*, Department of Primary Industries	N	2005		Fact Sheet	N	N	N	N
120.	Indicative Secretary's Environmental Assessment Requirements (SEARs) - For state significant mining developments	NSW Government <sup>a</sup>	N	2015		Guidance	Y	Y, indirectly by indicating GHG of project must be part of EIS for mining projects	N	N
121.	Industry fact sheet: reducing business waste - Supermarkets	EPA	Y	2017		Fact Sheet	N	N	N	N

122.	Instructions for E-RAMP: Environmental Risk Assessment and Mitigation Package for Small Waste Facilities	EPA	Y	2014		Guidance	N	N	N	N	N
123.	Instructions for E-RAMP: Environmental Risk Assessment and Mitigation Package for Small Waste Facilities	EPA	Y	2014		Guidance	N	N	N	N	N
124.	Integrated pest management: IPM Case studies	EPA	Y	Updated 2018		Webpage	N	N	N	N	N
124a.	Integrated pest management: IPM Case studies - Fox Control in Southern Highlands					Webpage	N	N	N	N	N
124b.	Integrated pest management: IPM Case studies - Bitou bush control in north-east Sydney					Webpage	N	N	N	N	N
125.	Interim Construction Noise Guidelines	EPA predecessor agency (DECC)*	N	2009		Guidance	N	N	N	N	N



126.	Interim OEH Nitrogen Oxide Policy for Cogeneration in Sydney and the Illawarra	EPA predecessor agency (OEH)*; Department of Premier and Cabinet	Y	2011		Policy Document	Y	Y, in recognising GHG reduction possibility	N	N
127.	Large-Scale Solar Energy Guideline - For State Significant Development	NSW Government <sup>a</sup>	Y	2018		Guidance	Y	Y, in recognising GHG reduction possibility	N	N
128.	Licences and advice for occupational pesticides users: Aerially applying pesticides	EPA	N	Updated 2020		Webpage	N	N	N	N
129.	Licences and advice for occupational pesticides users: Applying antifouling paints at marinas (Fact sheet)	EPA	N	2017		Fact Sheet	N	N	N	N
130.	Licences and advice for occupational pesticides users: Farming and horticultural production	EPA	N	Updated 2019		Webpage	N	N	N	N

130a.	Licences and advice for occupational pesticides users: Farming and horticultural production – “Use pesticides safely” fact sheet					Fact Sheet	N	N	N	N	N
131.	Licences and advice for occupational pesticides users: Pest management technicians, fumigators, training permits and ground applicators	EPA	N	Updated 2020		Webpage	N	N	N	N	N
131a.	Licences and advice for occupational pesticides users: Pest management technicians, fumigators, training permits and ground applicators – fact sheet					Fact Sheet	N	N	N	N	N
132.	Licensing Guidelines for Sewage Treatment Systems	EPA	N	2003		Guidance	N	N	N	N	N
133.	Life Cycle Inventory and Life Cycle Assessment for Windrow Composting Systems	EPA predecessor agency (DEC)*	Y	2006		Report	Y	Y, in recognising GHG reduction possibility	N	N	N

134.	Load reduction agreements – Freeing funds for environmental improvements	EPA predecessor agency/ (DECC)*	N	2009		Guidance	N	N	N	N	N
135.	Local government air quality toolkit	EPA	Y	2017		Webpage	N	N	N	N	N
135a.	Local government air quality toolkit - structure					Tools	Y	N	N	N	N
135b.	Local government air quality toolkit - glossary					Tools	Y	N	N	N	N
135c.	Local government air quality toolkit – Module 1					Tools	Y	N	N	N	N
135d.	Local government air quality toolkit – Module 2					Tools	Y	N	N	N	N
135e.	Local government air quality toolkit - Module 3 summary tables					Tools	N	N	N	N	N
135f.	Local government air quality toolkit – Module 3 part 1					Tools	Y	N	N	N	N
135g.	Local government air quality toolkit - Module 3 part 2					Tools	N	N	N	N	N
135h.	Local government air quality toolkit - Module 3 part 3					Tools	N	N	N	N	N

135i.	Local government air quality toolkit - Guidance note – agricultural stubble burning					Tools	N	N	N	N	N
135j.	Local government air quality toolkit - Guidance note – beef cattle feedlots					Tools	Y	N	N	N	N
135k.	Local government air quality toolkit - Guidance note – composite structural products					Tools	N	N	N	N	N
135l.	Local government air quality toolkit - Guidance note – construction sites					Tools	Y	N	N	N	N
135m.	Local government air quality toolkit - Guidance note – dairies					Tools	Y	N	N	N	N
135n.	Local government air quality toolkit - Guidance note – egg production					Tools	N	N	N	N	N
135o.	Local government air quality toolkit - Guidance note – food outlets					Tools	N	N	N	N	N

135p.	Local government air quality toolkit - Guidance note – meat chicken production					Tools	N	N	N	N	N
135q.	Local government air quality toolkit - Guidance note – piggeries					Tools	Y	N	N	N	N
135r.	Local government air quality toolkit - Guidance note – small-scale sawmills					Tools	Y	N	N	N	N
135s.	Local government air quality toolkit - Guidance note – spray painting operations					Tools	N	N	N	N	N
135t.	Local government air quality toolkit - Visual guide – dust from urban construction sites					Tools	N	N	N	N	N
135u.	Local government air quality toolkit - Visual guide – inspecting a suburban auto repair shop					Tools	N	N	N	N	N

135v.	Local government air quality toolkit - Visual guide – odour complaints from a suburban auto repair shop					Tools	N	N	N	N
136.	Local Government Strategic Waste Action Plan (LGSWAP) Tool	EPA predecessor agency (OEI)*	Y	2011		Guidance	Y	N	N	N
137.	Local planning for healthy waterways - using NSW Water Quality Objectives	EPA predecessor agency (DEC)*	N	2006		Guidance	N	N	N	N
138.	Local Strategic Planning Statements (and some Regional Plans)	A specific council or groupings of councils ^	Y	Various		Webpage	N	N	N	N
138a.	Ballina Shire Local Strategic Planning Statement					Plan	Y	Y	N, but calls on State and Federal governments to take actions required to meet 1.5C Paris goal	N

139.	Locomotive Emissions Project Scoping Study of Potential Measures to Reduce Emissions from New and In-Service Locomotives in NSW and Australia	EPA	Y	2013		Report	Y	Y, in recognising GHG reduction possibility	N	N
140.	Love Food Hate Waste – interactive resource	NSW Government <sup>a</sup>	Y	Current		Guidance	N	N	N	N
140a.	Love Food Hate Waste – about us					Guidance	N	N	N	N
140b.	Love Food Hate Waste – why it matters					Guidance	Y	Y, indirectly	N	N
141.	Lower Hunter Particle Characterisation Study - Final report to the NSW Environment Protection Authority	CSIRO, ANSTO, Office of Environment and Heritage <sup>a</sup>	N	2016		Report	N	N	N	N
142.	Managing particles and improving air quality in NSW	EPA	Y	2013		Report	Y	N	N	N
143.	Managing Urban Stormwater: Soils and construction	NSW Government, Landcom <sup>a</sup>	N	2004		Guidance	Y	N	N	N

144.	Marine Estate Management Strategy 2018- 2028	Marine Estate Management Authority (NSW) ^	Y	2018		Policy Document	N	N	N	N	N
145.	Marine Quality Objectives for NSW Ocean Waters - Sydney Metropolitan and Hawkesbury-Nepean	EPA predecessor agency (DEC)*	N	2005		Policy Document	N	N	N	N	N
146.	Methane and Volatile Organic Compound Emissions in New South Wales - Report for the New South Wales Environment Protection Authority	CSIRO, EPA	Y	2016		Report	Y	N	N	N	N
147.	Methane Fact Sheet	EPA	Y	2015		Fact Sheet	Y	N	N	N	N



148.	Mine Application Guideline - Specific development application requirements for State significant mining and extractive industry developments under the Environmental Planning and Assessment Act 1979	NSW Government <sup>Λ</sup>	N	2015		Guidance	N	N	N	N	N
149.	Model Waste Not DCP Chapter 2008 - A Site Waste Minimisation and Management Chapter for Consolidated Development Control Plans	EPA predecessor agency (DECC)*	Y	2008		Guidance	N	N	N	N	N
150.	National Clean Air Agreement	Commonwealth of Australia <sup>Λ</sup>	Y	2015		Policy Document	Y	Y	N	N	N
151.	National Climate Resilience and Adaptation Strategy	Commonwealth of Australia <sup>Λ</sup>	Y	2015		Policy Document	Y	Y	N	N	N
151a.	National Climate Resilience and Adaptation Strategy -- Endnotes			2015		Policy Document	N	N	N	N	N
152.	National Directory for Radiation Protection (NDRP)	ARPANSA <sup>Λ</sup>	N	2017		Guidance	N	N	N	N	N

153.	National Environment Protection (Air Toxics) Measure	Commonwealth of Australia <sup>a</sup>	N	2011		Legal Instrument	N	N	N	N
154.	National Environment Protection (Ambient Air Quality) Measure	Commonwealth of Australia <sup>a</sup>	Y	2016		Legal Instrument	N	N	N	N
155.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 1	Commonwealth of Australia <sup>a</sup>	N	2013		Legal Instrument	N	N	N	N
155a.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 2			2013		Legal Instrument	N	N	N	N
155b.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 3			2013		Legal Instrument	Y	N	N	N
155c.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 4			2013		Legal Instrument	N	N	N	N

155d.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 5			2013		Legal Instrument	Y	N	N	N
155e.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 6			2013		Legal Instrument	N	N	N	N
155f.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 7			2013		Legal Instrument	N	N	N	N
155g.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 8			2013		Legal Instrument	N	N	N	N
155h.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 9			2013		Legal Instrument	N	N	N	N

<b>155i.</b>	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 10			2013		Legal Instrument	N	N	N	N
<b>155j.</b>	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 11			2013		Legal Instrument	N	N	N	N
<b>155k.</b>	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 12			2013		Legal Instrument	N	N	N	N
<b>155l.</b>	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 13			2013		Legal Instrument	N	N	N	N
<b>155m.</b>	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 14			2013		Legal Instrument	N	N	N	N

155n.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 15			2013		Legal Instrument	N	N	N	N
155o.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 16			2013		Legal Instrument	N	N	N	N
155p.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 17			2013		Legal Instrument	N	N	N	N
155q.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 18			2013		Legal Instrument	N	N	N	N
155r.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 19			2013		Legal Instrument	N	N	N	N

155s.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 20			2013		Legal Instrument	N	N	N	N
155t.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 21			2013		Legal Instrument	N	N	N	N
155u.	National Environment Protection (Assessment of Site Contamination) Measure 1999 – Vol 22			2013		Legal Instrument	N	N	N	N
156.	National Environment Protection (Diesel Vehicle Emissions) Measure 2001 (minor variations May 2009)	Commonwealth of Australia <sup>a</sup>	Y	2009		Legal Instrument	Y	N	N	N
157.	National Environment Protection (Movement of Controlled Waste between States and Territories) Measure	Commonwealth of Australia <sup>a</sup>	N	2012		Legal Instrument	N	N	N	N

158.	National Environment Protection (National Pollutant Inventory) Measure 1998	Commonwealth of Australia <sup>A</sup>	N	2008		Legal Instrument	N	N	N	N	N
159.	National Environment Protection (Used Packaging Materials) Measure	Commonwealth of Australia <sup>A</sup>	N	2011		Legal Instrument	N	N	N	N	N
160.	National Pollutant Inventory	Commonwealth of Australia <sup>A</sup>	Y	Current		Webpage	N	N	N	N	N
160a.	National Pollutant Inventory – using NPI emission data			2019		Webpage	N	N	N	N	N
160b.	National Pollutant Inventory - NPI emission data 2018-2019			2019		Webpage	N	N	N	N	N
160c.	National Pollutant Inventory - Understanding NPI data			2019		Webpage	Y	N	N	N	N
161.	National Pollutant Inventory Guide	Commonwealth of Australia <sup>A</sup>	Y	2015		Guidance	N	N	N	N	N
162.	National Waste Policy - Less Waste, More Resources – 2018	Commonwealth of Australia <sup>A</sup>	Y	2018		Policy Document	Y	Y	N	N	N
163.	National Water Quality Management Strategy	Commonwealth of Australia <sup>A</sup>	N	2018		Strategic Plan	N	N	N	N	N

163a.	National Water Quality Management Strategy - Charter			2018	Strategic Plan	N	N	N	N
164.	Native Forestry Operations Stop Work Orders	EPA	N	2019	Guidance	N	N	N	N
165.	Net Zero Plan Stage 1: 2020-2030	Environment, Energy and Science - Department of Planning, Industry and Environment (NSW) ^	Y	2020	Report	Y	Y	N, 2030 goals are not consistent with 1.5C. Also, the "savings" from the program ignores the increases from new, approved fossil fuel development	N
166.	Noise guide for local government	EPA	N	2013	Guidance	N	N	N	N
167.	Noise Guide for Local Government Update: Changes arising from the Noise Control Regulation 2017	EPA	N	2018	Guidance	N	N	N	N
168.	Noise Policy for Industry	EPA	N	2017	Policy Document	N	N	N	N
169.	Non-road Diesel Air Emission Case Study	EPA	Y	2016	Case Study	N	N	N	N



170.	NSW Asbestos Waste Strategy 2019-21	EPA	N	2019		Strategic Plan	N	N	N	N
171.	NSW Circular Economy Policy Statement	EPA	Y	2019		Policy Document	Y	Y, indirectly	N	N
172.	NSW Cleaner Vehicles and Fuels Strategy	EPA predecessor agency (DECCW)*	Y	2008		Strategic Plan	Y	Y	N, stated goal of 20% GHG reduction in government fleet in 2008, appears to have been superseded by document #87	N
173.	NSW Climate Change Policy Framework	Office of Environment and Heritage (NSW) ^	Y	2016		Policy Document	Y	Y, in laying out a framework with that goal	N, not consistent with achieving 1.5C	N
174.	NSW Coal Mining Benchmarking Study Best Practice Measures for Reducing Non-Road Diesel Exhaust Emissions	EPA	N	2015		Report	Y	N	N	N

175.	NSW Electric and Hybrid Vehicle Plan - Future Transport 2056	Transport for NSW ^	Y	2019		Strategic Plan	Y	Y, indirectly	N, but the NSW "goal" of net zero by 2050 is stated	N
176.	NSW Energy Efficiency Action Plan	Office of Environment and Heritage (NSW) ^	Y	2013		Strategic Plan	N	N	N	N
177.	NSW Environment Protection Authority Annual Report 2018–19	EPA	Y	2019		Report	Y	N	N	N
178.	NSW EPA's Load-based Licensing Scheme: Overview and facts	EPA	Y	2016		Guidance	N	N	N	N
179.	NSW Extended Producer Responsibility Priority Statement 2010	EPA predecessor agency (DECCW)*	Y	2010		Guidance	N	N	N	N
180.	NSW Gas Plan	NSW Government^	N	2014		Plan	N	N, not a stated goal, even indirectly	N	N
181.	NSW Illegal Dumping Strategy 2017–21	EPA	N	2017		Strategic Plan	N	N	N	N

182.	NSW Litter Prevention Strategy 2019-2022	EPA	N	2019		Strategic Plan	N	N	N	N	N
183.	NSW Natural Resources Monitoring, Evaluation and Reporting Strategy 2010- 2015	EPA predecessor agency (DECCW)*	N	2010		Strategic Plan	N	N	N	N	N
184.	NSW Radiation Series No. 5 - Recommendations for radiation safety officers and radiation safety committees	EPA predecessor agency (DEC)*	N	2003		Guidance	N	N	N	N	N
185.	NSW Renewable Energy Action Plan	NSW Government <sup>a</sup>	Y	2013		Plan	N	N, not a stated goal, even indirectly	N	N	N
186.	NSW Road Noise Policy	EPA predecessor agency (DECCW)*	N	2011		Policy Document	Y	N	N	N	N
187.	NSW State of the Environment 2018	EPA	Y	2018		Report	Y	Y, indirectly by setting out the problem, and listing responses	N	N	N

188.	NSW Waste and Resource Reporting Portal (WARRP) User Guide	EPA	Y	2016		Guidance	N	N	N	N	N
189.	NSW Waste Avoidance and Resource Recovery Strategy 2014-2021	EPA	N	2014		Strategic Plan	Y	Y, indirectly	N	N	N
190.	NSW Water Quality and River Flow Objectives	NSW Government <sup>a</sup>	N	2006		Report	N	N	N	N	N
191.	Organics recycling offers major environmental benefits	EPA predecessor agency (DECC)*	Y	2007		Guidance	Y	Y, indirectly	N	N	N
192.	Owner's guide to lawful disposal of construction and demolition waste	EPA	N	2019		Guidance	N	N	N	N	N
193.	Persistent Herbicides Risk Management Program	EPA predecessor agency (DEC)*	N	2004		Report	N	N	N	N	N
194.	Pesticides in NSW	EPA	N	Updated 2018		Webpage	N	N	N	N	N
195.	Pesticides record keeping fact sheet: Greenkeepers	EPA	N	2017		Fact Sheet	N	N	N	N	N

196.	Pesticides use in NSW: Engaging a pest management technician	EPA	N	Updated 2018		Webpage	N	N	N	N	N
197.	Pesticides use in NSW: Schools, childcare centres and pesticides	EPA	N	Updated 2018		Webpage	N	N	N	N	N
198.	Petroleum Minimum Standards and Merit Assessment Procedure	Department of Industry, Skills and Regional Development (NSW) <sup>a</sup>	N	2015		Guidance	N	N	N	N	N
199.	Planning and development process for sites with underground petroleum storage systems	EPA predecessor agency (DEC)*	N	2008		Guidance	N	N	N	N	N
200.	Plastic microbeads in product and the environment	EPA	N	2016		Report	N	N	N	N	N
201.	Pollution reduction programs - Operating procedure	EPA	N	2014		Procedure Manual	N	N	N	N	N
202.	Pollution studies - Operating procedure	EPA	N	2014		Procedure Manual	N	N	N	N	N

203.	Powers of Authorised Officers - A guide to your powers under environment protection legislation	EPA predecessor agency (DEC)*	N	2006		Guidance	N	N	N	N	N
204.	Practice Note - Managing run-off from service station forecourts	EPA	N	2019		Practice Note	N	N	N	N	N
205.	Preventing pesticides misuse: Avoiding spray drift	EPA	N	Updated 2018		Guidance	N	N	N	N	N
206.	Preventing pesticides misuse: Safe Disposal of Pesticides	EPA	N	Updated 2018		Guidance	N	N	N	N	N
207.	Priorities for Biodiversity Adaptation to Climate Change	EPA predecessor agency (DECCW)*	Y	2010		Guidance	Y	N	N	N	N
208.	Private Native Forestry advisory notes (x15)	EPA (2); EPA predecessor agency (DECC)* (13)	N	Various		Webpage	N	N	N	N	N

<b>208a.</b>	Private Native Forestry advisory notes - Fact sheet - Identifying hollow-bearing and recruitment trees					Guidance	N	N	N	N
<b>208b.</b>	Private Native Forestry advisory notes - Fact sheet – Glossy Black-cockatoo feed trees					Guidance	N	N	N	N
<b>208c.</b>	Private Native Forestry advisory notes - Fact sheet – Yellow-Bellied Glider feed trees					Guidance	N	N	N	N
<b>208d.</b>	Private Native Forestry advisory notes - Fact sheet – Nectar feed trees					Guidance	N	N	N	N
<b>208e.</b>	Private Native Forestry advisory notes - Fact sheet – Fleshy fruits food trees for wildlife					Guidance	N	N	N	N
<b>208f.</b>	Private Native Forestry advisory notes - Fact sheet – Roost and Nest Trees – Raptor and Water Birds					Guidance	N	N	N	N
<b>208g.</b>	Private Native Forestry advisory notes - Fact sheet – Bat Roosts					Guidance	N	N	N	N

<b>208h.</b>	Private Native Forestry advisory notes - Fact sheet – Flying-fox Camps					Guidance	N	N	N	N	N
<b>208i.</b>	Private Native Forestry advisory notes - Fact sheet – Koala Habitat					Guidance	N	N	N	N	N
<b>208j.</b>	Private Native Forestry advisory notes - Fact sheet – Old Growth Forests					Guidance	N	N	N	N	N
<b>208k.</b>	Private Native Forestry advisory notes - Private Native Forestry Aboriginal cultural heritage information sheet					Guidance	N	N	N	N	N
<b>208l.</b>	Private Native Forestry advisory notes - Fact sheet – Biodiversity, it's everyone's business					Guidance	N	N	N	N	N
<b>208m.</b>	Private Native Forestry advisory notes - Fact sheet – Threatened species conservation					Guidance	N	N	N	N	N
<b>208n.</b>	Private Native Forestry advisory notes - Fact sheet – Threatened species recovery plans					Guidance	N	N	N	N	N



208o.	Private Native Forestry advisory notes - Fact sheet – Spotted-tail Quoll - Den and Latrine Sites					Guidance	N	N	N	N
209.	Private Native Forestry Code of Practice Guideline No. 1 - Guidelines for assessing regeneration and stocking	EPA	N	2013		Guidance	N	N	N	N
210.	Private Native Forestry Code of Practice Guideline No. 4 - Techniques for measuring stand height	EPA	N	2013		Guidance	N	N	N	N
211.	Private Native Forestry Code of Practice Guideline No. 5 - Techniques for measuring stand basal area	EPA	N	2013		Guidance	N	N	N	N
212.	Protection of the Environment Operations Risk-based licensing - Guidance on using the risk assessment tool	EPA	N	2016		Guidance	N	N	N	N
213.	Protocol for calculating monetary benefits	EPA	N	2019		Guidance	N	N	N	N

214.	Radiation Advisory Council - Annual Report 2018-19	EPA	N	2019		Report	N	N	N	N
215.	Radiation Guideline 1 - Monitoring devices	EPA predecessor agency (DEC)*	N	2005		Guidance	N	N	N	N
216.	Radiation Guideline 2 - Preparation of radiation management plans	EPA	N	2018		Guidance	N	N	N	N
217.	Radiation Guideline 3 - Recommendations for minimum standards and safety requirements for fixed radiation gauges (sealed source devices)	EPA	N	2013		Guidance	N	N	N	N
218.	Radiation Guideline 4 - Compliance requirements for x-ray protective clothing	EPA	N	2018		Guidance	N	N	N	N
219.	Radiation Guideline 6 - Registration requirements & industry best practice for ionising radiation apparatus used in diagnostic imaging, Second edition – Part 1	EPA	N	2016		Guidance	N	N	N	N



219d.	Radiation Guideline 6 - Registration requirements & industry best practice for ionising radiation apparatus used in diagnostic imaging,, Second edition – Part 5					Guidance	N	N	N	N	N
219e.	Radiation Guideline 6 - Registration requirements & industry best practice for ionising radiation apparatus used in diagnostic imaging,, Second edition – Part 6					Guidance	N	N	N	N	N
220.	Radiation Guideline 7 - Radiation shielding design assessment and verification requirements	EPA	N	2015		Guidance	N	N	N	N	N
221.	Radiation protection information: Disposal of regulated material	EPA	N	Update web page 2017		Webpage	N	N	N	N	N
222.	Radiation protection information: Household smoke detectors	EPA	N	Update web page 2017		Webpage	N	N	N	N	N

223.	Rail Infrastructure Noise Guidelines	EPA	N	2013		Guidance	Y	N	N	N
224.	Recycled Organic Products in Stormwater Treatment Applications	EPA predecessor agency (DEC)*	Y	2006		Report	Y	N	N	N
225.	Recycled Organics in Mine Site Rehabilitation A review of the scientific literature	EPA predecessor agency (DEC)*	Y	2006		Report	N	N	N	N
226.	Recyclulator	EPA	Y	2017		Webpage	Y	Y, indirectly	N	N
226a.	Recyclulator – pdf of tool					Tools	Y	Y, indirectly	N	N
226b.	Environmental benefits of recycling report					Report	Y	Y, indirectly	N	N
227.	Reducing business waste - Cafes and restaurants	EPA	Y	2017		Guidance	N	N	N	N
228.	Reducing Contamination of Dry Recyclables and Garden Organics at the Kerbside: The NSW Experience	EPA predecessor agency (DECC)*	Y	2007		Report	Y	Y, indirectly	N	N
229.	Reducing Illegal Dumping at Charitable Recyclers Action Plan 2019-2021	EPA	N	2019		Plan	N	N	N	N

230.	Regional waste avoidance and resource recovery strategy guidance	EPA	Y	2014	Guidance	N	N	N	N
231.	Registration and off label use	EPA	N	Updated 2018	Webpage	N	N	N	N
232.	Regulatory Assurance Statement	EPA	N	2019	Report	N	N	N	N
233.	Requirements for publishing pollution monitoring data	EPA	N	2012	Guidance	N	N	N	N
234.	Resource Recovery Order and Exemptions	EPA	Y	Various	Webpage	N	N	N	N
234a.	Resource Recovery Order and Exemptions - factsheet				Guidance	N	N	N	N
235.	Responding to spills	EPA predecessor agency (DEC)*	N	2005	Guidance	N	N	N	N
236.	Review of Coal Fired Power Stations Air Emissions and Monitoring	EPA	N	2018	Report	Y	N	N	N
237.	Risk Management Tools for the Recycled Organics Industry	EPA predecessor agency (DEC)*	Y	2006	Report	N	N	N	N

238.	Risk-based Framework for Considering Waterway Health Outcomes in Strategic Land-use Planning Decisions	Office of Environment and Heritage (NSW) and EPA	N	2017		Report	N	N	N	N	N
239.	Risk-based licensing Environmental management systems guidelines - April 2020	EPA	N	2020		Report	N	N	N	N	N
240.	Risk-based licensing: Regulatory actions guideline	EPA	N	2015		Guidance	N	N	N	N	N
241.	Risk-based licensing: Regulatory actions tool profiles	EPA	N	2015		Guidance	N	N	N	N	N
242.	Road and rail transport checklist for Alcohol-based hand sanitiser	EPA	N	2020		Guidance	N	N	N	N	N
243.	Safe compost for fruit and vegetables A guide for the supply of recycled organics to fresh produce growers	EPA, Freshcare, applied horticultural research (ahr), MRA Consulting Group	Y	2016		Guidance	N	N	N	N	N
244.	Safe use of chemicals in the home	EPA	N	2020		Guidance	N	N	N	N	N

245.	Safeguarding future environmental liabilities from Coal Seam Gas Activities in NSW	EPA	N	2020		Guidance	N	N	N	N
246.	Security of sealed radioactive sources	EPA	N	Updated 2019		Webpage	N	N	N	N
247.	Smoke abatement notices	EPA	N	2017		Webpage	N	N	N	N
248.	Social impact assessment guideline - For State significant mining, petroleum production and extractive industry development September 2017	Department of Planning and Environment (NSW) ^	N	2017		Guidance	N	N	N	N
249.	Social Research on Small to Medium Enterprises (SME) Waste and Recycling Summary Benchmark Study	EPA	Y	2016		Report	N	N	N	N
250.	Sources of air pollution in NSW Air Emissions Inventory for the Greater Metropolitan Region of NSW – 2013	EPA	Y	2019		Report	Y	N	N	N



251.	Standards and Best Practice Guidelines for Vapour Recovery at Petrol Service Stations	EPA	N	2017		Guidance	N	N	N	N
252.	Standards for managing construction waste in NSW	EPA	N	2019		Guidance	N	N	N	N
253.	State and Territory Greenhouse Gas Inventories 2017 - Australia's National Greenhouse Accounts	Commonwealth of Australia	Y	2019		Report	Y	N, just the data	N	N
254.	State Environmental Planning Policy - Three Ports - (various amendment proposals)	NSW Government <sup>A</sup>	N	2020		Policy Document	N	N	N	N
255.	State Environmental Planning Policy (Exempt and Complying Development Codes) 2008	NSW Government <sup>A</sup>	N	2020		Policy Document	N	N	N	N
256.	State Environmental Planning Policy (Infrastructure) 2007	NSW Government <sup>A</sup>	Y	2020		Policy Document	Y	Y, indirectly	N	N
257.	State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007 (and Amendment 2014)	NSW Government <sup>A</sup>	Y	2007		Policy Document	Y	Y, indirectly	N	N

258.	State Environmental Planning Policy (Primary Production and Rural Development) 2019	NSW Government <sup>Λ</sup>	Y	2020		Policy Document	N	N	N	N	N
259.	State Environmental Planning Policy (Sydney Region Growth Centres) 2006	NSW Government <sup>Λ</sup>	Y	2020		Policy Document	Y	N	N	N	N
260.	State Environmental Planning Policy No 55—Remediation of Land (and various amendments to it)	NSW Government <sup>Λ</sup>	N	2020		Policy Document	N	N	N	N	N
261.	Storing liquid waste	EPA predecessor agency (DEC)*	N	2005		Fact Sheet	N	N	N	N	N
262.	Sydney Particle Characterisation Study PM2.5 Source Apportionment in the Sydney Region between 2000 and 2014	EPA, ANSTO	N	2016		Report	N	N	N	N	N
263.	TBL Assessment of (Domestic) Food Organics Management	EPA predecessor agency (DEC)*	Y	2006		Report	Y	Y, indirectly	N	N	N

264.	Technical Framework - Assessment and Management of odour from stationary sources	EPA predecessor agency (DEC)*	N	2006		Guidance	N		N		N
265.	Technical guidelines for the estimation of greenhouse gas emissions by facilities in Australia - 2017-18 reporting year	Commonwealth of Australia	Y	2017		Guidance	Y	N, just guidelines for reporting of GHG	N		N
266.	Technical Note (Immobilisation Technical Note 1): Mixing - process equipment for Treatment of Contaminated Soil and Sludge Waste	EPA	N	2017		Guidance	N	N	N		N
267.	Technical Note (Immobilisation Technical Note 2): Cement-based Solidification/Stabilisation Treatment of Organic chemical Contaminants in Waste	EPA	N	2017		Guidance	N	N	N		N
268.	Technical Note: Vapour Intrusion	EPA predecessor agency (DECCW)*	Y	2010		Guidance	Y	N	N		N

269.	Technical Notes: Assessment and Management of odour from stationary sources	EPA predecessor agency (DEC)*	N	2006	Guidance	Y	N	N	N
270.	The benefits of using compost for mitigating climate change	EPA predecessor agency (DECCW)*	Y	2011	Guidance	Y	Y, indirectly	N	N
271.	The recycling trouble shooter	EPA predecessor agency (OEH)*	N	2011	Guidance	N	N	N	N
272.	Tracking sources of air pollution in NSW communities - Air emissions inventory for the Greater Metropolitan Region of NSW	EPA	N	2012	Guidance	Y	N	N	N
273.	Upper Hunter Air Particles Action Plan	EPA	Y	2013	Plan	N	N	N	N
274.	Upper Hunter Air Quality Particle Model - Final Report	EPA	Y	2014	Report	N	N	N	N

275.	Upper Hunter Wood Smoke Community Research Project - Final report prepared for the NSW Environment Protection Authority	EPA	N	2016		Report	N	N	N	N	N
276.	UPSS Technical Note: Decommissioning, Abandonment and Removal of UPSS	EPA predecessor agency (DECCW)*	N	2010		Technical Note	N	N	N	N	N
277.	UPSS Technical Note: Investigation of Service Station Sites	EPA	N	2014		Technical Note	N	N	N	N	N
278.	Using Biofilters to Reduce the Greenhouse Impact of Small to Medium Sized landfills	EPA predecessor agency (DECC)*	Y	2007		Case Study	Y	Y, indirectly	N	N	N
279.	Using Compost Materials in the Construction of Community Parklands	EPA predecessor agency (DECC)*	Y	2007		Case Study	N	N	N	N	N
280.	Using Compost Materials on Council Sporting Fields	EPA predecessor agency (DEC)*	Y	2007		Guidance	N	N	N	N	N

281.	Using compost safely - A guide for the use of recycled organics in horticulture	EPA	Y	2018		Guidance	N	N	N	N	N
282.	Using environment protection licensing to control water pollution	EPA	Y	2013		Guidance	N	N	N	N	N
283.	Using the ANZECC Guidelines and Water Quality Objectives in NSW	EPA predecessor agency (DEC)*	N	2006		Guidance	N	N	N	N	N
284.	Vapour Recovery Regulation in NSW	EPA	N	2012		Guidance	N	N	N	N	N
285.	Vehicle Standard (Australian Design Rule 30/01 – Smoke Emission Control for Diesel Vehicles) 2006 – Vol 1	Commonwealth of Australia	Y	2006		Legal Instrument	N	N	N	N	N
285a.	Vehicle Standard (Australian Design Rule 30/01 – Smoke Emission Control for Diesel Vehicles) 2006 – Vol 2			2006		Legal Instrument	N	N	N	N	N

286.	Vehicle Standard (Australian Design Rule 79/04 – Emission Control for Light Vehicles) 2011 – Vol 1	Commonwealth of Australia <sup>a</sup>	Y	2011		Legal Instrument	N	N	N	N	N
286a.	Vehicle Standard (Australian Design Rule 79/04 – Emission Control for Light Vehicles) 2011 – Vol 2					Legal Instrument	N	N	N	N	N
287.	Vehicle Standard (Australian Design Rule 80/03 – Emission Control for Heavy Vehicles) 2006 – Vol 1	Commonwealth of Australia <sup>a</sup>	Y	2006		Legal Instrument	N	N	N	N	N
287a.	Vehicle Standard (Australian Design Rule 80/03 – Emission Control for Heavy Vehicles) 2006 – Vol 2					Legal Instrument	Y	N	N	N	N
287b.	Vehicle Standard (Australian Design Rule 80/03 – Emission Control for Heavy Vehicles) 2006 – Vol 3					Legal Instrument	Y	N	N	N	N

287c.	Vehicle Standard (Australian Design Rule 80/03 – Emission Control for Heavy Vehicles) 2006 – Vol 4					Legal Instrument	N	N	N	N	N
287d.	Vehicle Standard (Australian Design Rule 80/03 – Emission Control for Heavy Vehicles) 2006 – Vol 5					Legal Instrument	N	N	N	N	N
288.	Vehicle Standard (Australian Design Rule 81/02 – Fuel Consumption Labelling for Light Vehicles) 2008 – Vol 1	Commonwealth of Australia <sup>a</sup>	Y	2008		Legal Instrument	Y	N	N	N	N
288a.	Vehicle Standard (Australian Design Rule 81/02 – Fuel Consumption Labelling for Light Vehicles) 2008 – Vol 2					Legal Instrument	Y	N	N	N	N
288b.	Vehicle Standard (Australian Design Rule 81/02 – Fuel Consumption Labelling for Light Vehicles) 2008 – Vol 3					Legal Instrument	Y	N	N	N	N



288c.	Vehicle Standard (Australian Design Rule 81/02 – Fuel Consumption Labelling for Light Vehicles) 2008 – Vol 4					Legal Instrument	Y	N	N	N	N
289.	Waste Classification Guidelines	EPA	Y	2014		Legal Instrument	N	N	N	N	N
290.	Waste Levy Guidelines	EPA	N	2018		Guidance	N	N	N	N	N
291.	Waste Locate: Important information for the building industry, transports and waste facilities	EPA	N	2015		Guidance	N	N	N	N	N
292.	Waste Locate: Important information for tyre outlets, transporters, recyclers and waste facilities	EPA	N	2015		Guidance	N	N	N	N	N
293.	Waste Wise Events Guide	EPA predecessor agency (DEC)*	Y	2007		Guidance	Y	Y, indirectly	N	N	N
294.	Ways to reduce food waste in your business	EPA	Y	2016		Guidance	N	N	N	N	N

295.	Who Cares about the Environment in 2009?	EPA predecessor agency (DECCW)*	Y	2010		Report	Y	Y, indirectly in the sense of survey data to guide public education	N	N
296.	Who Cares about the Environment in 2012?	Office of Environment and Heritage (NSW) ^	Y	2013		Report	Y	Y, indirectly in the sense of survey data to guide public education	N	N
297.	Who Cares about the Environment in 2015?	Office of Environment and Heritage (NSW) ^	Y	2017		Report	Y	Y, indirectly in the sense of survey data to guide public education	N	N
298.	Who Cares about Water and Climate Change in 2007?	EPA predecessor agency (DECC)*	Y	2007		Report	Y	Y, indirectly in the sense of survey data to guide public education	N	N

299.	Wind Energy Guideline - For State significant wind energy development December 2016	Department of Planning and Environment (NSW) ^	Y	2016		Guidance	Y	Y	N	N
299a.	Wind Energy: Noise Assessment Bulletin – For State Significant wind energy development					Guidance	N	N	N	N
300.	National Greenhouse and Energy Reporting Scheme – Greenhouse and Energy information by registered corporation 2018-2019	Clean Energy Regulator - Australian Government ^		Updated 2020		Table	Y	N, just record keeping by company	N	N