



The period July to December 2022 was one of transition for the NSW EES Support program. Our inaugural NSW team member, Susan Filan, supported us through the recruitment and onboarding of a new team member and ran our very first mine site tour for teachers, in conjunction with Alkane Resources, before moving to another industry.

Our new team member, Sophia McLean, used the remainder of this period to establish new key connections, deliver scheduled incursions and provide much needed support for EES teachers across New South Wales.

AusEarthEd as a whole developed and approved our [2023-2025 strategy](#) during this time. As a consequence, all of our educational programs will be planned for, run and reported on a calendar year basis going forward. This report is therefore an opportunity to reflect upon the period July to December 2022, before moving into our 2023 Implementation Plan.

Progress against the Implementation Plan

Timing	Planned Activities	Status
July 2022 to June 2023	Continued development of dedicated, branded materials in support of NSW EES education.	2 resources published
	Development of videos featuring hands-on activities and blog posts in support of these resources for the AusEarthEd YouTube channel and Blog respectively.	See above
	Free hands-on incursions offered to EES classes across NSW (regional incursions according to organisational travel plans). Virtual incursions will be offered during times of restrictions (caused by the COVID-19 pandemic) and to regional schools that don't fit into AusEarthEd's travel plans.	Core Library excursions for 31 students, half day incursions for 112 students and 295 students involved in standard incursions, including revision webinars (see below)
	Free teacher professional development sessions offered in support of EES teaching across NSW. A mix of virtual and in-person sessions will be offered, to suit the situation and engagement target group.	5 virtual/in person teacher PD sessions customised to suit educators and location/s, including one run in conjunction with Geoscience Australia, Canberra 1 virtual conference presentation
July 2022	Free online revision seminars offered to Year 12 EES students	Delayed so that all could run in October



August 2022	Teacher gold mine tour (Alkane Resources' Peak Hill gold mine and Tomingley Gold Operation)	Full day tour attended by 7 teachers from 6 schools across NSW with many others wishing to be involved in future (unable to be released this time due to staffing shortages)
September 2022	Showcasing of this program at the Conference of the Australian Science Teachers' Association (CONASTA)	AusEarthEd booth in a high traffic area with great engagement from NSW EES teachers (leading to bookings)
October 2022	Free online revision seminars offered to Year 12 EES students (a combination of face to face and virtual access options will be offered, as appropriate).	All virtual due to continuing COVID considerations <ul style="list-style-type: none"> • 6 revision webinars • 275 attendees • 42% regional or remote
November 2022	Free online teacher PD (Year 11 EES focus)	Postponed to 2023, due to statewide staffing shortages leading to educator availability issues
December 2022/January 2023	Teacher preview of the Core Library excursion and an intensive rock identification course.	Core Library preview excursion scheduled for January 2023

Key Performance Indicators – Targets and Totals

Key Performance Indicator	Target	Total	Notes
Program Success Measures			
The number of new materials added to the dedicated website for this initiative	30	2	<i>Limited focus on resource creation during this period, due to onboarding of new staff member and focusing time on honoring bookings with schools. Focus to recommence in 2023. See Appendix 1 for detail.</i>
The number of educators involved in professional development	150	23	<i>Second half of the calendar year focused on smaller focused engagements, tailored to schools. First half of calendar</i>



Key Performance Indicator	Target	Total	Notes
Details from surveys conducted with participating educators, demonstrating confidence in teaching Earth and Environmental Science pre and post engagements	75%+ noted increase in teaching confidence	N/A	<i>Unfortunately, educator feedback form links were omitted during staff changeovers so we can only say that anecdotally educators felt supported and more confident. This has been rectified for the 2023 year.</i>
The number of students involved in standard incursions (revision incursions and webinars)	500	295	<i>Great engagement continues, particularly with AusEarthEd led revision webinars. See Appendix 4 for detail.</i>
The number of students involved in half-day incursions	350	112	<i>Half day incursions are preferred in the first half of the calendar year by schools (with numerous bookings already in for 2023). See Appendix 4 for detail.</i>
The number of students involved in Core Library excursions	50	31	<i>Very high engagement data, considering these are also preferred for first half of the calendar year by schools. See Appendix 4 for detail.</i>
The number of students and teachers involved in industry-led events, supported by the Program	30	0	<i>Engagement events typically in first half of calendar year.</i>



Funding

	Resource Creation and Hosting	Teacher Training and Mentoring	Incursions and Excursions	Events and Engagement with Industry	Administrative Costs	Total
2022/23 Budget	70,000	15,000	20,000	5,000	10,000	120,000
2022/23 Expenditure	36,848	7,714	7,549	803	4,450	57,364



Teacher Alkane Peak Hill gold mine tour, August 2022

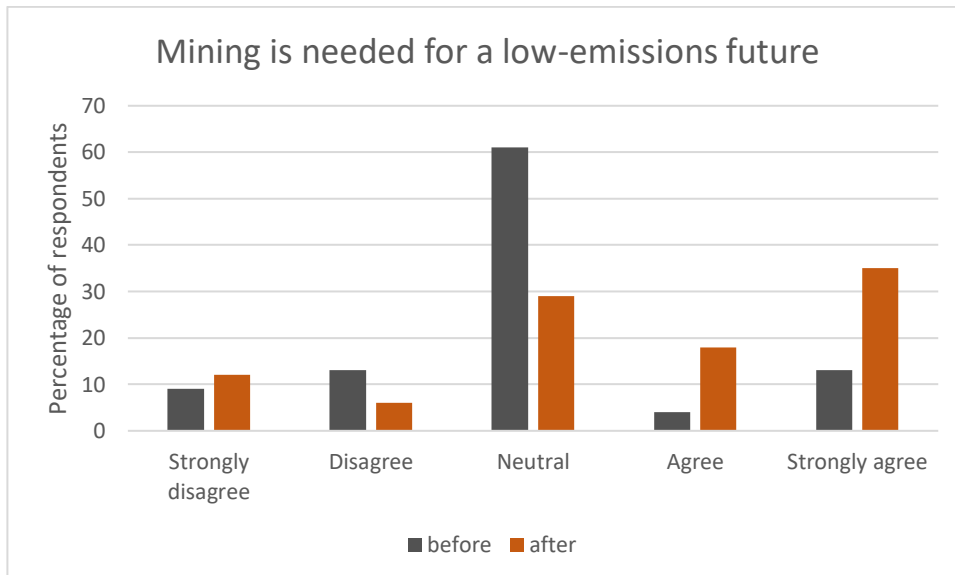
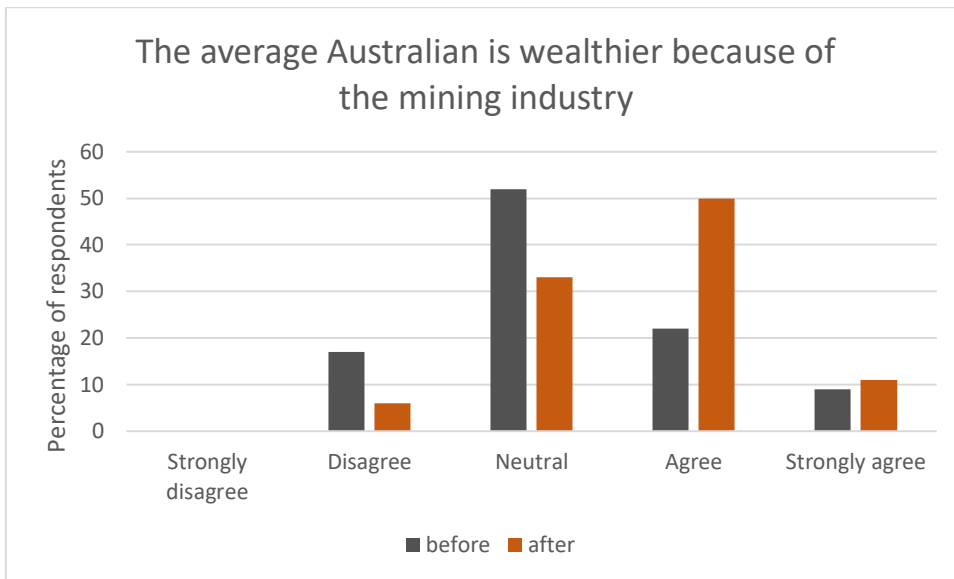
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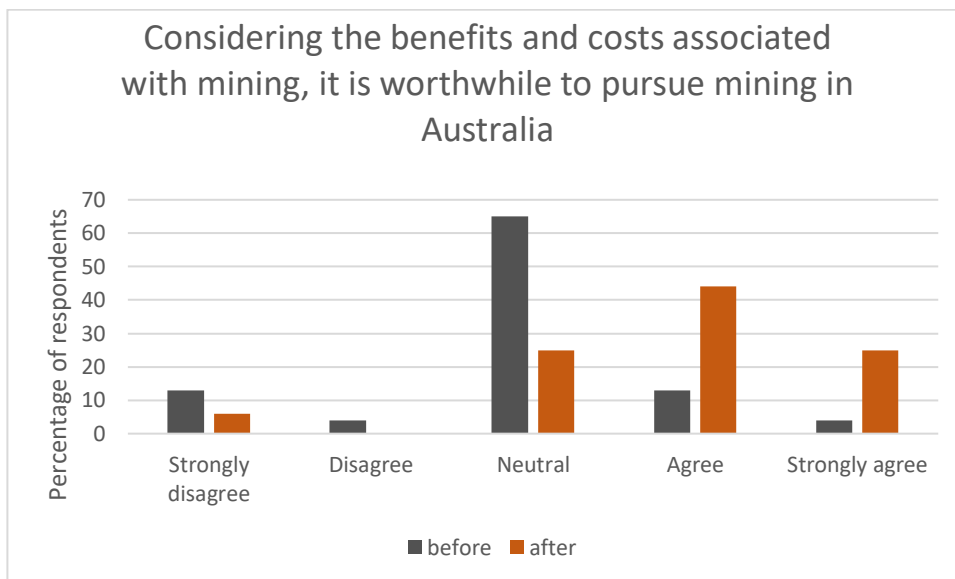
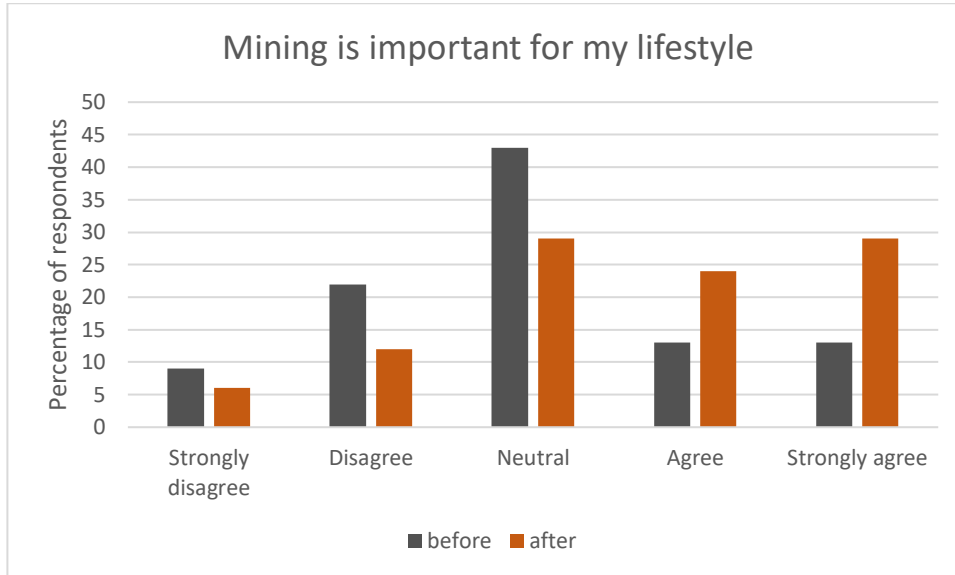




Changing Perceptions

Once again, EES students completed an anonymous online survey before and after programs that contained content about mining. This includes Core Library excursions and half day incursions for M1 (Earth's Resources – Exploration & Mining) and M8 (Resources Management). Their 'after' survey responses were significantly more positive towards the following statements:







Very worthwhile. Incredibly well resourced, linked to the syllabus and presented.

Thanks in any case for being responsible for one of the most helpful EES education resource sites available anywhere. Kind regards to you and the AusEarthEd team, and long may you run!

Thanks for continuing to share your great teaching ideas as resources.

I went to this last year. Very worth it. [Core Library Teacher Preview – Facebook comment from a teacher]

We went to Geoscience Australia (Canberra) on Wednesday. We went on a to scale walk of the geological timescale, sussed out the educational room, watched earthquake monitoring, saw the SHRIMP in action, checked out some fossils and core samples and touched the moon. And more. Thanks so much for having us along Sophia [Teacher comment on Facebook about tour organised by AusEarthEd to Geoscience Australia]

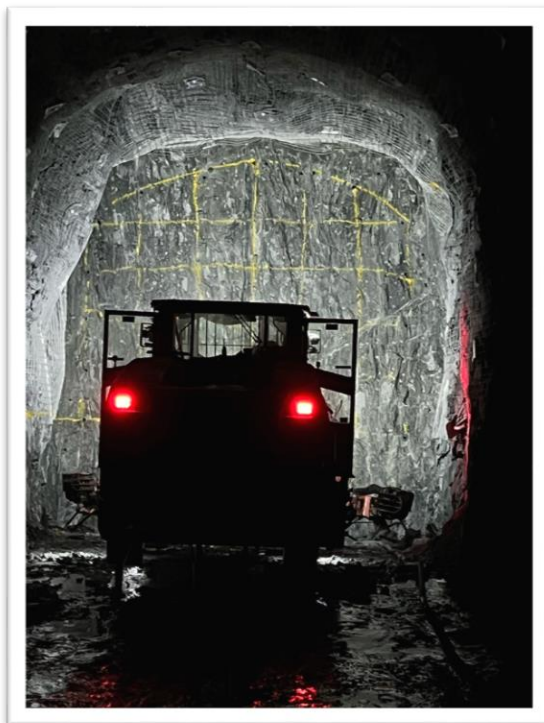
AusEarth Ed stuff is soooo helpful and the online intro PD's have been so useful [teacher new to the Earth and Environmental course – Facebook comment]



Incursion Mitchell High School, November 2022

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Teacher Alkane Peak Hill gold mine tour, August 2022

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Appendix 1: Resources Developed

Date of Release	Resource Description	Website	YouTube	Blog
22-7	Greenhouse Effect (IV): Methane video	√	√	
23-8	Seed Bombs Blog	√		√

Total resources for period = 2
Project total = 181



Core Library excursion with Leumeah High School, November 2022



Appendix 2: Educator Training and Mentoring

Date	Location	Session Outline	Duration	Number of Educators	Notes
3-8	Narrabri High School	Earth Science teaching support	1	1	
23-8	Peak Hill and TGO, Alkane Resources	Mine tour and professional development	6	7	Mosman High, Chatswood High, St Mary's College Gunnedah, PLC, Kings, Camden High
17-10	Online	Planning for first time EES teaching	1	2	Erskine Park High School teacher
20/21-10	Online	Presentation of 'What a Waste' Depth Study. Waste disposal & treatment at mine sites (Tomingley Case Study) and use of electric vehicles	1	5	NSW Science Teachers Stage 6 Conference
7-12	Geoscience Australia (Canberra)	Numerous EES activities across Centre, including exploration of gold	5	4	Oxley College, Mitchell High School, Trinity Grammar
9-12	Cammeraygal High School	Planning for first time EES teaching	1	3	
27-12	Magdalene Catholic College	Field trip locations and EES HSC Marking	0.5	1	Magdalene College teacher
End of reporting period					

Total educators for period = 23

Project total = 947

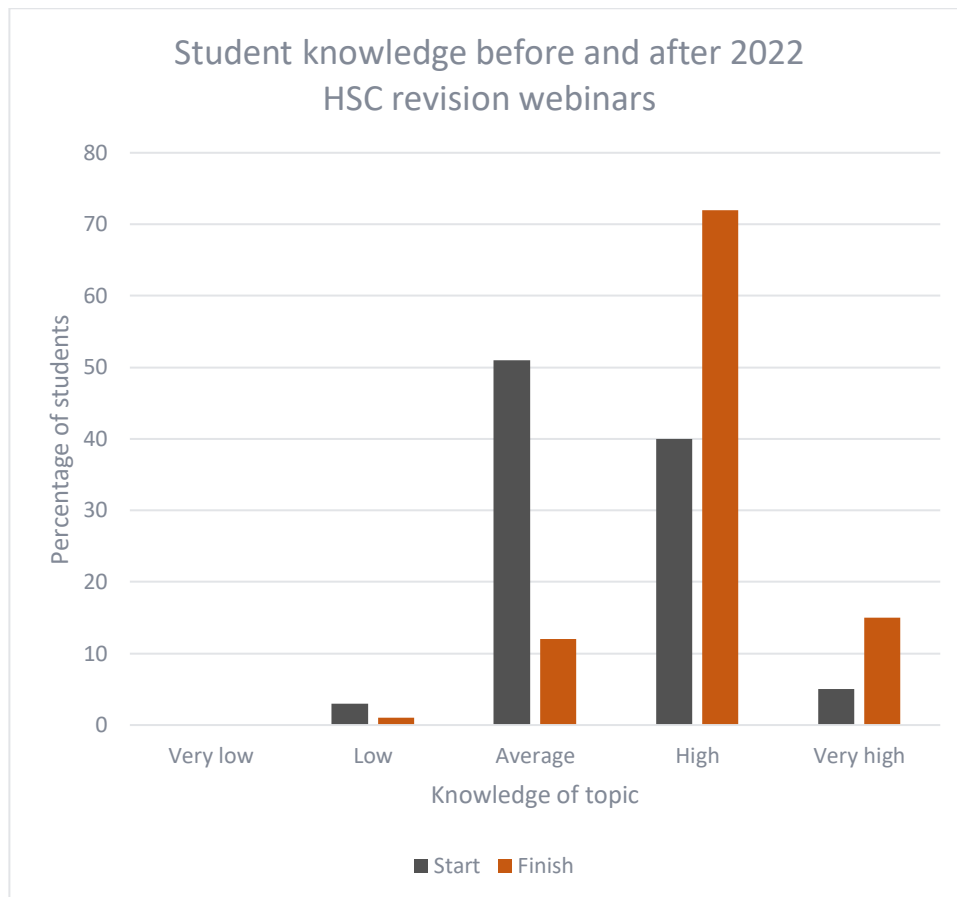
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Appendix 3: Results from surveys

Unfortunately, teacher surveys were not extensively conducted during this staff crossover period. Surveys were conducted, however, as part of online revision webinars provided to Year 12s.





Appendix 4: Engagement with Students

Date	Location	Session Outline	Duration	Number of Students	No. of Educators	Notes
26-7	Core Library, Londonderry	Core Library Excursion Y11 with Camden High School	5	12	1	Significant resources industry content
27-7	Hennessy Catholic College	HSC Technique	1.5	4	1	Virtual
24-8	Engadine High School	Mining, Resources and Careers Y11	1.5	12	1	
6-9	St Clare's College	M5 and M7 – HSC Revision	2	4	1	
4-10	Zoom webinar	M5 HSC Revision Seminar	1	60	0	
	Zoom webinar	M6 HSC Revision Seminar	1	51	0	
5-10	Zoom webinar	M7 HSC Revision Seminar	1	44	0	
	Zoom webinar	M8 HSC Revision Seminar	1	49	0	
6-10	Zoom webinar	HSC Revision Webinar Technique	1	38	0	
	Zoom webinar	HSC Revision Webinar Key Concepts	1	33	0	
15-11	St John Bosco College	M5 Half day incursion	2.5	15	2	Earth's processes
18-11	Caringbah High School	DPI Fishcare Sustainability Event Incursion	5	51	4	Sustainability focus
22-11	Mitchell High School	M5 Half day incursion	3	17	1	

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Date	Location	Session Outline	Duration	Number of Students	No. of Educators	Notes
25-11	Core Library, Londonderry	Core Library Excursion Y11 with Leumeah High School	5	14	3	Significant resources industry content
30-11	Singleton High School	M5 Half day incursion	3	5	2	
2-12	Core Library, Londonderry	Core Library Excursion Y11 with Bass High School	5	5	3	Significant resources industry content
9-12	The Ponds High School	Panel expert on sustainability for student presentation feedback Student presentations on sustainability	2.5	24	2	Accelerated pre-Year 11 students
End of reporting period						

Total students for period = 438

Project total = 3,121

Standard incursions = 295

Half-day incursions = 112

Core Library Excursion = 31

Events = 0

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