

HOLCIM EMP CONSULTANT RECOMMENDATIONS

Document	Consultant	Item #	Nonconformance/Opportunity for improvement	Recommendation description	Comments by Holcim	Status
Pakenham Quarry Hydrogeological Review	GHD	1a	Opportunity for improvement	Improve the monitoring technique for the springs to allow a more quantitative and consistent measurements: • Establishment of v-notches and/or gauge boards / stilling wells at all sites (subject to ground truthing) is recommended, or at a minimum, two priority springs of flow and /or levels	Basic mechanical metering devices to be fitted to piped Springs SP01, SP02 and SP03. Survey pegs installed in standing water levels associated with SP04 and SP06 to measure level. SP08 and SP09 are large systems that will require capital works to install metering devices which are not being pursued at this point in time. SP05 and SP11 (new spring) have no free standing water. SP07 and SP10 are reclassified as a seeps.	In-progress
Pakenham Quarry Hydrogeological Review	GHD	1b	Opportunity for improvement	Improve the monitoring technique for the springs to allow a more quantitative and consistent measurements: • Increase frequency of flow measurement i.e., data logging	Significant capital work is required to have data logging. It would also need to be coupled with measuring of rainfall/surface water flow to have any value. Not being pursued at this point in time.	Parked
Pakenham Quarry Hydrogeological Review	GHD	1c	Opportunity for improvement	Improve the monitoring technique for the springs to allow a more quantitative and consistent measurements: • Confirmation of spring elevation	Agreed	Complete
Pakenham Quarry Hydrogeological Review	GHD	1d	Opportunity for improvement	Improve the monitoring technique for the springs to allow a more quantitative and consistent measurements: • Update of the EMP to incorporate quantitative assessment of springs	Quantitative data is being captured in the annual reports. To be incorporate during next EMP revision.	Parked
Pakenham Quarry Hydrogeological Review	GHD	1e	Opportunity for improvement	Improve the monitoring technique for the springs to allow a more quantitative and consistent measurements: • Develop and apply a pro-forma / standardised approach to spring monitoring	Agreed	Complete
Pakenham Quarry Hydrogeological Review	GHD	2a	Opportunity for improvement	Update of the monitoring network: • Drill additional monitoring bores to form nested monitoring sites at MB01, i.e., an Older Volcanics monitoring bore, and MB06, i.e., install a Werribee Formation bore	Not being pursued at this time due to capital requirements.	Parked
Pakenham Quarry Hydrogeological Review	GHD	2b	Opportunity for improvement	Update of the monitoring network: • Install a monitoring bore into the Older Volcanics aquifer approximately 500 m to the north of the quarry or near spring SP08 (for background monitoring)	Not being pursued at this time due to capital requirements. Also would require permission from external land holder.	Parked
Pakenham Quarry Hydrogeological Review	GHD	3	Opportunity for improvement	Update the understanding of the estimated radius of influence of the quarry. This should be supported with site specific hydraulic conductivity data (slug testing), an update of the quarry water balance, and bore network recommendations noted above.	Slug testing completed Dec 2023. This is an ongoing action that should be captured as a part of the annual report.	In-progress
2023 EMP Audit	Envirorisk Management	2	Opportunity for improvement	Conduct an annual refresher induction for relevant Holcim employees, examining particular issues (beneficial and detrimental) that occurred over the preceding year as well as a reminder of the key environmental aspects of the site, highlighting any changes from the preceding year.	Completed as a part of the return to work Jan 2024.	Complete
2023 EMP Audit	Envirorisk Management	3	Opportunity for improvement	Prepare an EMP variation to pick up on items not corrected in the most recent 5 year review (e.g. some of the changes to EPA's legislation).	Agreed	In-progress
2023 EMP Audit	Envirorisk Management	13	Opportunity for improvement	As part of the EMP variation referenced in iii above, Holcim should draft appropriate waste management target(s) and submit to ERC for comment, and Council for approval, as provided for in s.8.3 EMP Variation and Appendix 3 of the EMP, 2021.	Agreed	In-progress
2023 EMP Audit	Envirorisk Management	15	Opportunity for improvement	As part of the EMP variation referenced in iii above, Holcim should revise the annual waste survey requirements of the EMP to a form of words that – a. best reflects a credible and effective waste minimisation and disposal strategy that aligns with the waste hierarchy and the circular economy principles of sustainable resource management, and b. provides a means of achieving the waste management targets.	Agreed	In-progress
2023 EMP Audit	Envirorisk Management	16	Opportunity for improvement	Progress all outstanding recommendations from the 5 yearly Dam integrity report that were contingent on completion of the consequence category assessment.	Agreed. Bathymetric survey of Donazzans Dam has been conducted. AECOM to review Donazzan's Dam CC report in 2024.	In-progress
2023 EMP Audit	Envirorisk Management	17	Opportunity for improvement	Investigate and implement actions to mitigate the impacts of kangaroos and deer on the rehabilitation works.	Deer management program in place 2024	Complete
2022 Slope stability review	AECOM	4	Opportunity for improvement	Remedial treatment of Mass13 and Mass06 Dam with reinstatement of the dam crest	Agreed will complete when ground conditions permit	In-progress
2022 Rehabilitation Report	Naturelinks	12	Opportunity for improvement	Phase A & B Site - Conduct off site survey on Holcim owned properties to better understand infestations of Chilean Needle Grass encroaching on Phase A & B's future impact on rehabilitation.	Agreed - Naturelinks engaged to complete this work in Q4	Complete
2022 Rehabilitation Report	Naturelinks	16	Opportunity for improvement	Phase A & B Site - Recommend deer impact to be independently assessed by a pest management consultant and that repair of external fencing to be considered	Deer management program in place 2024	Complete
2022 Rehabilitation Report	Naturelinks	24	Opportunity for improvement	Landslip Sites - Due to extremely late planting monitor plant survival and possible plant replacement in 2023	Requires further planting due to deer impact. Planned for 2024	In-progress
2022 Rehabilitation Report	Naturelinks	28	Opportunity for improvement	Net Gain Site - Recommend deer impact to be independently assessed by a pest management consultant	Deer management program in place 2024	Complete
2022 Rehabilitation Report	Naturelinks	31	Opportunity for improvement	1.2 Hectare Revegetation Site - Recommend deer impact to be independently assessed by a pest management consultant	Deer management program in place 2024	Complete
2022 EMP Audit	Envirorisk Management	13	Opportunity for improvement	Investigate with the owner of the on-site electrical transformer unit regarding its polychlorinated biphenyls (PCB) status. If residual PCBs are present a clean up of leaked oil will likely be required.	New transformer has been ordered by Ausnet and will be replaced.	In-progress
2021 - Slope stability review	AECOM	1	Opportunity for improvement	Fill animal burrowing holes and revegetate scarps at Mass11		Complete
2020 Die Back Report	Naturelinks	5	Opportunity for improvement	Access track provided through site to ensure access for future management vehicles, to ensure effective and efficient watering and weed control.	Agreed will complete when ground conditions permit	In-progress