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Pollution Monitoring Data - Holcim Albion Park Quarry (EPL Number 122)

Facility Address	Woollybutt Drive, Albion Park Rail NSW 2527
Link to EPL on Public Register	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=122&id=122&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued
Date Dataset Updated	Tuesday, April 5, 2022
Date Dataset Published	Monday, April 11, 2022
Licence Reporting Period	1 May 2021 to 30 April 2022

Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Unit	Description	Month	June 2021	July 2021	August 2021	###########	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	April 2022
DDM 3 North-Western boundary	Monthly	EPL P1.1	g/m2/month	Insoluble Solids (Raw Data)	Result	0.2	4.1	0.2	2.0	2.0	0.7	16.0	0.9	2.6	0.3	1.0
			g/m2/month	Ash	Result	0.1	0.6	0.1	0.1	0.1	0.2	1.0	0.1	0.2	0.1	0.1
			g/m2/month	Insoluble Solids (Quarry Contribution - Corrected for Ash)	Result	0.1	3.5	0.1	1.9	1.9	0.5	15.0	0.8	2.4	0.2	0.9
DDM 4 Croome Road on boundary of Lot 1 DP 74108	Monthly	EPL P1.1	g/m2/month	Insoluble Solids (Raw Data)	Result	0.3	0.4	0.3	3.1	3.1	1.6	1.7	0.9	1.3	0.9	0.4
			g/m2/month	Ash	Result	0.1	0.1	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.1
			g/m2/month	Insoluble Solids (Quarry Contribution - Corrected for Ash)	Result	0.2	0.3	0.1	2.9	2.9	1.3	1.6	0.8	1.2	0.8	0.3
DDM 5 Kywana homestead	Monthly	EPL P1.1	g/m2/month	Insoluble Solids (Raw Data)	Result	0.1	2.3	1.2	6.2	6.2	4.0	6.0	1.1	3.8	1.1	0.6
			g/m2/month	Ash	Result	0.1	0.2	0.3	0.2	0.2	0.4	0.2	0.1	0.2	0.1	0.1
			g/m2/month	Insoluble Solids (Quarry Contribution - Corrected for Ash)	Result	0.0	2.1	0.9	6.0	6.0	3.6	5.8	1.0	3.6	1.0	0.5
DDM 6 West of office	Monthly	EPL P1.1	g/m2/month	Insoluble Solids (Raw Data)	Result	0.7	1.5	0.5	4.2	4.2	2.6	3.3	4.5	2.9	0.6	0.6
			g/m2/month	Ash	Result	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.6	1.0	0.1	0.1
			g/m2/month	Insoluble Solids (Quarry Contribution - Corrected for Ash)	Result	0.6	1.4	0.3	4.1	4.1	2.4	3.2	3.9	1.9	0.5	0.5

Comments regarding deposition monitoring outcomes	
Comment 1:	Elevated results likley to be caused by AP Bypass Construction Works adjacent to monitor.
Comment 2:	Sample exposed for 65 days as COVID-19 prevented collection and replacement of bottle in September. Result has been averaged by the sampling period, in days, in accordance with AS3580.10.1 and the average presented for both September and October
Comment 3:	0

Surface Water Monitoring Results (Event Based Only)

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description		June 2021	July 2021	August 2021	###########	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	April 2022
Licensed Discharge Point 1	Each Discharge Event	EPL Section L2	6.5	8.5	pH	pH	Result						8.18			8.0		
							Pass / Fail						**Pass**			**Pass**		
			-	50	mg/L	SuspendedSolids	Result						5.0			8.0		
							Pass / Fail						**Pass**			**Pass**		
			-	NV	able orNV = None V	Total Oil& Grease	Result						NV			NV		
							Pass / Fail						**Pass**			**Pass**		
			6.5	8.5	pH	pH	Result						0			8.0		
							Pass / Fail									**Pass**		

Licensed Discharge Point 2	Each Discharge Event	EPL Section L2	-	50	mg/L	SuspendedSolids	Result						0			8.0		
							Pass / Fail									**Pass**		
			-	NV	able orNV = None V	Total Oil& Grease	Result						0			NV		
							Pass / Fail									**Pass**		

Comments regarding deposition monitoring outcomes	
Comment 1:	0
Comment 2:	0
Comment 3:	0

Rainfall Monitoring Results

Location	Frequency	Source	Unit
EPA Point 4	Daily	Gauge	mm

Total Rainfall YTD

Month	May 2021	June 2021	July 2021	August 2021	September 2021	October 2021	##########	January 2022	February 2022	March 2022	April 2022
Total Rainfall(mm)	46.6	14.8	73.6	101.2	59.2	152.0	70.6	151.0	295.8	670.6	213.6
Rainy Days	8	5	6.0	11.0	12.0	18.0	13.0	15	19.0	23.0	20.0
Av. Rainfall / Event(mm	5.8	3.0	12.3	9.2	4.9	8.4	5.4	10.1	15.6	29.2	10.7
Events >90mm(5 Days	0	0	0	0	0	0	0	0	0	2	0

Blast Monitoring Results

Note	DNT = Did Not Trigger with monitoring equipment set at a trigger point of 108 dB for Over Pressure and 0.3 mm/s for Ground Vibration

Blast Monitoring Results - YTD 2021

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	13 May 2021	20 May 2021	3 Jun 2021	8 Jun 2021	22 Jun 2021	5 Jul 2021	19 Jul 2021	21 Jul 2021	29 Jul 2021	10 Aug 2021	26 Aug 2021	31 Aug 2021
TBA	Per Blast	EPLSection L3	-	115	dB (Lin Peak)	Result	100.0	105.8	110.0	107.8	107.8	108.0	103.8	104.7	104.7	DNT	DNT	DNT
						Pass / Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
			-	5	mm/s	Result	3.00	0.62	0.07	0.08	0.08	0.50	0.33	0.33	0.41	DNT	DNT	DNT
						Pass / Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	9 Sep 2021	23 Sep 2021	19 Oct 2021	26 Oct 2021	1 Nov 2021	10 Nov 2021	15 Oct 2021	23 Oct 2021	6 Dec 2021	7 Dec 2021	17 Dec 2021	21 Dec 2021
TBA	Per Blast	EPLSection L3	-	115	dB (Lin Peak)	Result	DNT	103.5	108.6	104.4	102.8	DNT	107.6	84.7	105.0	105.5	DNT	106.3
						Pass / Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
			-	5	mm/s	Result	DNT	0.24	0.35	0.55	0.28	DNT	0.33	0.40	0.36	0.53	DNT	0.35
						Pass / Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	21 Jan 2022	25 Jan 2022	3 Feb 2022	9 Feb 2022	15 Feb 2022	15 Feb 2022	24 Feb 2022	15 Mar 2022	17 Mar 2022	25 Mar 2022	28 Mar 2022	31 Mar 2022
TBA	Per Blast	EPLSection L3	-	115	dB (Lin Peak)	Result	DNT	DNT	107.4	DNT	DNT	DNT	101.6	DNT	102.0	106.5	DNT	DNT
						Pass / Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**
			-	5	mm/s	Result	DNT	DNT	0.44	DNT	DNT	DNT	0.40	DNT	0.39	0.39	DNT	DNT
						Pass / Fail	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	12 Apr 2022	28 Apr 2022	29 Apr 2022	10 May 2022								
TBA	Per Blast	EPLSection L3	-	115	dB (Lin Peak)	Result	104.1	107.3	DNT	DNT								
						Pass / Fail	Pass	Pass	Pass	Pass								
			-	5	mm/s	Result	0.35	0.32	DNT	DNT								
						Pass / Fail	Pass	Pass	Pass	Pass								

Comments regarding deposition monitoring outcomes	
Blast Date	Maxam used 2nd monitor at front office 4.96mm/s and 114.2dB
Blast Date	Maxam used 2nd monitor at front office 2.49mm/s and 110.6dB
Blast Date	Maxam used 2nd monitor at front office 1.09mm/s and 105.9dB
10/11/2021	Maxam used 2nd monitor at front office 0.08mm/s and 107.3dB
22/11/2021	Maxam used 2nd monitor at front office 0.09mm/s and 102.3dB
12/4/2022	Maxam used 2nd monitor at front office 0.75mm/s and 115.4dB
Blast Date	0
Blast Date	0

Annual Blast Monitoring Results (YTD)

Note	Annual blast monitoring outcomes are based on the dataset for the whole reporting period . Results that are disclosed below prior to end of the reporting year represent an incomplete dataset and should be considered as an indicator of year to date performance that is likely to change.

Annual Blast Monitoring - Over Pressure (High Range)	
Blast Count	40
YTD Over Pressure in High Range (115 - 120 dBL)	0
% Over Pressure in High Range (115 - 120 dBL)	0.00%
Annual Over Pressure (Pass / Fail)	**Pass**

Annual Blast Monitoring - Ground Vibration (High Range)	
Blast Count	40
YTD Ground Vibration in High Range (5 - 10 mm/s)	0
% Ground Vibration in High Range (5 - 10 mm/s)	0.0
Annual Ground Vibration (Pass / Fail)	**Pass**

Annual Blast Monitoring - Over Pressure (Maximum Allowable)	
Blast Count	40
YTD Over Pressure Exceeding Maximum Allowable (120 dBL)	0
% Over Pressure Exceeding Maximum Allowable (120 dBL)	0.0
Annual Over Pressure (Pass / Fail)	**Pass**

Annual Blast Monitoring - Ground Vibration (Maximum Allowable)	
Blast Count	40
YTD Ground Vibration Exceeding Maximum Allowable (10 mm/s)	0
% Ground Vibration Exceeding Maximum Allowable (10 mm/s)	0.0
Annual Ground Vibration (Pass / Fail)	**Pass**