

Product Transport Monitoring

Bass Point Quarry

Q3 2019

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1. Introduction

This document has been prepared by Hanson Construction Materials Pty Ltd (Hanson) to fulfil the reporting requirements stipulated in *Schedule 3, Condition 31* of Project Approval MP 08_0143 (the Approval). A summary table of how Hanson meet the requirements of *Schedule 3, Condition 31* is provided below as **Table 1**.

Table 1: Summary table of how Hanson meet the requirements of *Schedule 3, Condition 31* of the Approval.

Schedule 3, Condition 31	Section in document
Monitoring of Product Transport	
31. The Proponent must:	
(a) keep accurate records of:	
<ul style="list-style-type: none"> • the amount of quarry products transported from the site (monthly and annually); 	Section 3
<ul style="list-style-type: none"> • the regional destination of quarry products transported from the site; and 	Section 3
<ul style="list-style-type: none"> • all laden truck movements (ie dispatch of trucks carrying quarry products or concrete) from the site (hourly, daily, weekly, monthly and annually); and 	Section 2
(b) publish these records on its website on a quarterly basis.	Noted

Attention should also be drawn to other conditions in the Approval relevant to product transport, specifically *Schedule 2, Condition 7* and *Schedule 2, Condition 8*, which stipulate limits for annual volume of products transported and the numbers of laden trucks dispatched, respectively.

Extractive Material Transport

7. The Proponent must not permit to be transported from the site:
- (a) more than 4 million tonnes of quarry products in any calendar year; or
 - (b) more than 3 million tonnes of quarry products by road in any calendar year.

Transport of Products

8. The Proponent must limit the dispatch of trucks carrying quarry products or concrete from the site to the levels shown in Table 1.

Table 1: Laden Truck Dispatch Hours

Period	Maximum Laden Truck Dispatch
7 am – 10 pm	40 in any hour
10 pm – 7 am	23 in any hour
5 am – 6 am (Monday to Friday only and excluding Public Holidays)	27
6 am – 7 am (Monday to Friday only and excluding Public Holidays)	38
24-hour calendar day	500

2. Laden truck movements

Schedule 3, Condition 31 requires Hanson to publish records of laden truck movements from the site on an hourly, daily, weekly, monthly, and annual basis (see **Section 1**). The complete laden truck dispatch report is included as **Appendix A**. The compliance status of laden truck movements for the third quarter of 2019 (i.e. 01/07/2019 to 30/09/2019 inclusive) is discussed in **Section 2.1**, **Section 2.2**, **Section 2.3**, **Section 2.4**, and **Section 2.5**.

2.1. Hourly laden truck dispatch

There were no non-compliances with the hourly laden truck dispatch limits (*Schedule 2, Condition 8*) during the third quarter of 2019. See **Appendix A** for the complete laden truck dispatch report.

2.2. Daily laden truck dispatch

There were no non-compliances with the daily laden truck limit (*Schedule 2, Condition 8*) during the third quarter of 2019. See **Appendix A** for the complete laden truck dispatch report.

2.3. Weekly laden truck dispatch

There is no applicable limit for weekly laden truck dispatch (*Schedule 2, Condition 8*), so compliance status is not applicable. See **Appendix A** for the complete laden truck dispatch report.

2.4. Monthly laden truck dispatch

There is no applicable limit for monthly laden truck dispatch (*Schedule 2, Condition 8*), so compliance status is not applicable. See **Appendix A** for the complete laden truck dispatch report.

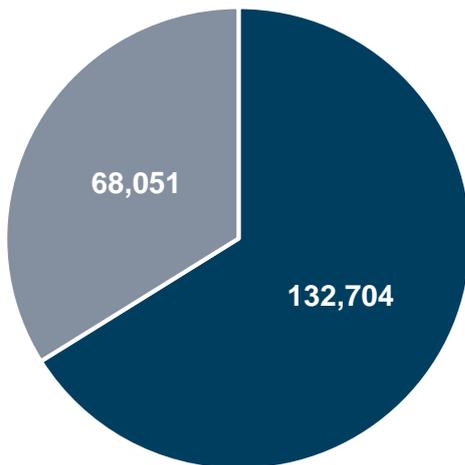
2.5. Annual laden truck dispatch

There is no applicable limit for annual laden truck dispatch (*Schedule 2, Condition 8*), so compliance status is not applicable. See **Appendix A** for the complete laden truck dispatch report for the third quarter of 2019. The annual laden truck dispatch will be provided in the report for the fourth quarter of 2019.

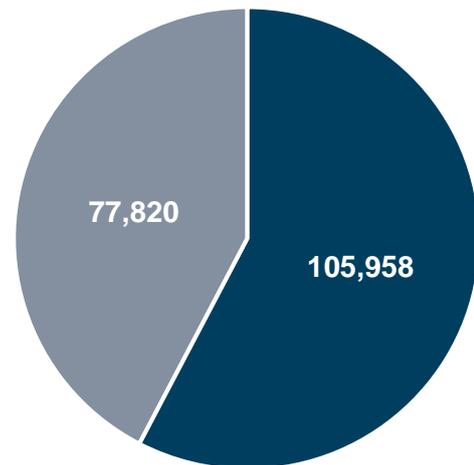
3. Regional destination of quarry products

Schedule 3, Condition 31 requires Hanson to publish records of the monthly and annual volume of quarry products transported from the site, as well as the regional destination (see Section 1). To meet this requirement, customer delivery records were classified under the Local Land Services regions. Monthly volumes of quarry products transported from site to different regional destinations have been visually represented below (Figure 1(a), Figure 1(b), and Figure 1(c)). An annual summary of regional destination volumes (compared to Schedule 2, Condition 7) will be available in the report for the fourth quarter of 2019.

(a)



(b)



(c)

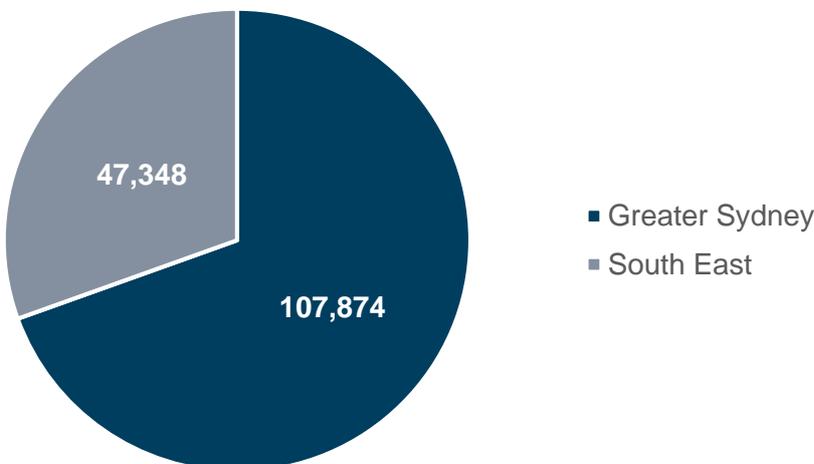


Figure 1: Volume of quarry products (tonnes) transported to different regional destinations for the months of (a) July 2019; (b) August 2019; and (c) September 2019.

Appendix A

Table A 1: Hourly and daily truck dispatch report for the third quarter of 2019 (i.e. 01/07/2019 to 30/09/2019 inclusive). Deliveries has been abbreviated to dlvs. Dates on which there were no trucks dispatched have been omitted from the report. Exceedances are shaded orange. Data that has been amended (e.g. due to split loads) are shaded yellow.

Ticket Date	No of Dlvs	Hours (24-hr time)																								
		0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24
1/07/2019	237	2	0	0	0	0	1	17	27	25	12	21	18	19	13	13	6	8	9	14	2	4	5	9	7	7
2/07/2019	256	1	1	0	1	3	11	11	18	24	21	19	27	16	21	16	6	5	4	14	8	4	3	9	12	2
3/07/2019	230	0	5	2	1	2	11	15	16	17	18	10	19	16	18	9	11	7	9	12	5	1	4	7	11	4
4/07/2019	175	0	2	2	3	1	10	18	17	20	13	15	13	9	5	2	2	2	7	9	0	5	5	10	4	1
5/07/2019	118	0	0	0	0	0	2	16	7	13	9	9	13	6	7	3	2	2	5	7	2	3	2	5	5	0
6/07/2019	44	1	0	0	0	0	1	17	10	2	3	7	2	1	0	0	0	0	0	0	0	0	0	0	0	1
8/07/2019	159	0	0	0	0	0	9	15	15	13	11	15	9	13	4	4	4	3	11	7	5	4	6	7	4	0
9/07/2019	219	0	2	2	0	1	2	16	18	25	15	15	19	19	19	11	3	2	6	16	3	3	6	12	4	0
10/07/2019	210	0	0	2	0	4	10	15	15	17	11	23	22	18	13	7	3	2	11	9	4	2	4	9	4	5
11/07/2019	200	0	4	4	1	2	9	14	16	18	20	12	21	9	10	7	5	7	7	8	2	4	2	6	9	3
12/07/2019	223	0	2	3	0	0	9	18	16	14	12	16	23	22	16	15	6	6	10	10	2	0	3	11	5	4
13/07/2019	109	0	1	5	0	2	4	23	19	15	12	8	11	5	1	0	0	0	0	0	0	0	0	0	0	3
14/07/2019	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
15/07/2019	214	0	0	0	0	0	6	21	22	23	12	21	21	17	8	10	9	4	5	9	0	3	8	6	6	3
16/07/2019	281	0	4	1	0	0	11	17	16	24	24	14	26	25	23	19	19	8	6	10	4	5	1	12	8	4
17/07/2019	249	1	1	3	1	1	12	23	18	19	14	21	22	20	19	11	9	6	7	10	2	5	3	8	8	6
18/07/2019	254	0	3	2	0	1	12	25	17	17	21	16	30	25	13	15	7	4	8	7	3	2	3	6	8	9
19/07/2019	279	0	1	1	4	2	13	20	25	23	19	25	30	27	24	17	12	5	5	8	1	4	5	4	2	2
20/07/2019	159	0	9	0	0	3	2	22	14	24	15	34	14	16	4	0	0	0	0	0	0	0	0	0	2	0
21/07/2019	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
22/07/2019	309	1	0	0	0	0	4	26	29	31	25	24	31	17	29	23	24	9	11	8	0	1	5	5	5	2
23/07/2019	356	0	3	2	0	1	5	17	34	40	27	40	36	31	33	30	12	9	7	7	0	3	6	5	4	4
24/07/2019	285	0	5	2	0	2	9	21	22	19	27	26	21	31	20	16	9	8	5	13	0	3	5	7	7	7
25/07/2019	291	2	1	2	0	3	11	19	15	33	20	25	28	34	31	18	5	8	10	4	2	4	5	7	3	3
26/07/2019	285	0	2	0	0	1	6	21	22	27	22	29	23	27	19	25	13	12	8	8	1	1	7	5	4	2

Ticket Date	No of Divs	Hours (24-hr time)																								
		0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24
27/07/2019	130	1	1	0	1	0	2	16	23	30	11	20	22	4	0	0	0	0	0	0	0	0	0	0	0	0
28/07/2019	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
29/07/2019	286	0	0	0	0	0	2	21	28	33	24	31	21	21	17	23	10	14	10	10	1	1	8	5	4	2
30/07/2019	283	0	0	2	1	0	9	22	28	23	26	18	24	26	19	20	8	13	12	6	7	0	6	5	6	2
31/07/2019	268	0	0	0	0	0	6	18	24	33	21	27	15	19	16	26	15	6	10	11	1	0	5	6	5	4
1/08/2019	329	0	1	2	0	2	12	16	28	28	28	26	33	38	27	25	17	10	6	8	0	3	6	7	1	5
2/08/2019	299	0	2	2	0	1	14	22	20	27	27	17	34	37	26	15	8	8	10	9	0	0	1	13	4	2
3/08/2019	104	0	2	0	0	0	4	15	6	18	6	22	14	16	0	0	0	0	0	0	0	0	0	0	0	1
5/08/2019	301	0	0	0	0	0	1	22	27	37	20	24	25	26	29	23	21	13	4	7	2	7	0	6	4	3
6/08/2019	288	1	2	2	0	0	7	13	22	36	28	27	23	23	21	27	9	9	10	7	4	6	2	3	3	4
7/08/2019	228	0	2	0	0	2	14	18	22	16	22	24	24	20	12	9	2	8	8	6	1	6	4	6	1	1
8/08/2019	213	0	0	1	0	1	10	13	26	12	20	14	15	24	17	18	4	10	6	8	0	2	4	4	2	2
9/08/2019	171	0	0	0	0	1	11	18	14	17	25	13	11	11	13	2	4	4	7	6	3	7	2	1	0	1
10/08/2019	39	0	0	0	0	0	4	15	8	2	1	5	2	1	0	0	0	0	0	0	0	0	0	0	0	1
11/08/2019	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
12/08/2019	233	0	0	0	0	0	2	27	18	23	10	21	21	21	14	19	9	10	15	6	2	3	4	3	5	0
13/08/2019	264	0	2	0	1	1	12	20	25	19	17	18	22	19	21	17	12	8	11	10	4	6	6	1	10	2
14/08/2019	226	0	0	3	0	1	10	11	25	21	17	19	16	13	12	20	5	7	10	8	2	3	7	6	7	3
15/08/2019	204	0	1	2	1	2	13	17	14	14	10	12	14	12	9	15	7	14	10	11	1	3	7	6	7	2
16/08/2019	212	0	4	1	0	0	12	14	17	17	16	22	24	12	17	9	4	4	10	8	2	5	2	7	4	1
17/08/2019	80	0	3	2	0	1	2	19	14	8	10	5	8	6	0	0	1	0	0	0	0	0	0	0	1	0
18/08/2019	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19/08/2019	199	0	0	0	0	0	0	17	25	19	17	8	14	17	13	13	8	7	12	6	2	5	6	6	4	0
20/08/2019	202	0	5	0	0	1	8	20	19	13	20	15	16	12	15	7	4	4	8	12	2	6	1	6	6	2
21/08/2019	220	0	4	0	2	1	7	11	27	16	17	17	13	20	11	22	7	7	8	9	6	2	5	2	3	3
22/08/2019	239	0	3	0	0	1	10	16	10	30	16	21	18	17	15	18	8	9	12	11	4	5	3	4	5	3
23/08/2019	209	0	1	0	0	0	11	22	25	13	21	18	17	21	12	11	4	3	6	8	1	3	3	4	4	1
24/08/2019	69	1	5	0	1	2	3	17	9	11	4	5	9	3	0	0	0	0	0	0	0	0	0	0	0	0
26/08/2019	180	0	0	0	0	0	6	15	17	25	15	15	10	13	13	10	2	3	3	11	7	0	4	7	3	1
27/08/2019	175	0	2	0	0	0	7	15	11	19	13	17	14	14	13	11	3	4	5	8	3	1	4	3	6	2
28/08/2019	254	0	0	0	0	0	8	7	23	24	22	18	19	26	16	15	12	11	6	13	1	5	6	6	10	6
29/08/2019	122	0	1	2	0	1	6	10	10	19	13	4	13	6	2	3	0	6	4	8	0	4	3	2	0	5
30/08/2019	60	0	0	0	0	0	8	10	5	3	5	5	4	4	1	4	0	1	1	2	1	1	3	0	0	2
31/08/2019	40	0	0	0	0	0	0	4	13	6	5	3	6	3	0	0	0	0	0	0	0	0	0	0	0	0

Ticket Date	Hours (24-hr time)																									
	No of Dlvs	0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24
2/09/2019	300	0	0	0	0	0	4	24	22	25	17	23	23	31	34	32	18	8	8	12	1	1	6	6	3	2
3/09/2019	212	0	4	1	0	2	9	10	24	23	16	17	16	16	14	6	1	5	9	9	8	3	4	10	3	2
4/09/2019	218	0	2	2	2	3	7	22	18	15	11	19	13	16	12	9	9	11	5	13	3	1	3	11	8	3
5/09/2019	268	0	3	5	0	3	7	21	26	20	18	24	23	24	22	14	8	9	7	10	6	3	3	6	4	2
6/09/2019	229	0	2	2	1	0	7	17	19	17	15	15	22	32	14	13	4	7	5	11	0	1	6	7	7	5
7/09/2019	74	1	2	3	0	0	0	10	17	19	5	7	4	4	0	0	0	0	0	0	0	0	0	0	1	2
9/09/2019	168	0	0	0	0	0	3	21	17	18	9	10	16	12	7	3	6	3	8	10	2	5	3	8	5	2
10/09/2019	228	0	4	4	1	1	12	9	12	25	13	17	14	27	16	9	8	4	8	13	5	4	10	8	2	2
11/09/2019	214	0	3	2	1	0	10	14	16	15	8	23	16	22	13	13	7	4	9	10	4	6	6	7	4	1
12/09/2019	209	0	1	0	0	0	8	13	26	10	17	18	22	17	16	4	4	5	9	8	7	4	10	5	2	3
13/09/2019	180	0	2	0	0	0	13	13	17	14	11	15	19	12	15	6	3	8	4	9	1	7	1	6	1	3
14/09/2019	71	0	3	1	0	1	4	17	10	8	4	10	8	5	0	0	0	0	0	0	0	0	0	0	0	0
16/09/2019	267	3	0	0	0	0	6	27	24	20	10	25	26	29	24	20	12	6	7	10	6	1	2	8	4	0
17/09/2019	69	0	3	2	1	1	8	11	8	4	7	2	5	5	0	0	2	2	2	1	2	1	0	2	0	0
18/09/2019	45	0	0	0	0	0	4	6	3	7	3	8	2	2	1	1	2	1	1	2	0	0	0	2	0	0
19/09/2019	52	0	0	0	0	0	2	3	7	10	5	3	3	1	3	1	0	1	2	5	2	3	1	0	0	0
20/09/2019	117	0	0	0	0	0	5	8	12	20	7	11	12	6	8	3	2	2	5	7	3	0	5	1	0	0
21/09/2019	49	0	0	1	0	1	2	13	8	8	9	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0
23/09/2019	199	0	0	0	0	0	4	18	19	23	11	12	17	10	16	9	8	6	11	9	2	3	6	8	3	4
24/09/2019	228	1	4	2	0	2	5	20	21	14	11	16	19	24	18	19	11	5	8	6	1	2	6	5	2	7
25/09/2019	216	0	2	1	0	1	8	20	27	11	22	17	15	16	16	11	2	4	5	12	1	3	7	10	1	4
26/09/2019	222	0	4	3	0	2	10	25	24	12	11	20	24	17	9	10	3	6	7	9	1	5	4	7	8	1
27/09/2019	225	0	0	2	1	4	9	17	24	13	16	16	20	29	11	13	8	8	9	8	1	4	7	2	2	1
28/09/2019	114	0	2	0	0	1	2	23	18	16	10	16	13	7	1	0	0	0	0	0	0	0	0	0	2	3
30/09/2019	266	1	0	0	0	0	5	24	28	26	18	16	31	24	15	17	11	8	8	10	4	4	6	5	5	1