

Product Transport Monitoring

Bass Point Quarry

Q1 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 first quarter of 2019 (i.e. 01/01/2019 to 31/03/2019 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 was one non-compliance associated with the hourly laden truck dispatch limits (*Schedule 2, Condition 8*) during the first quarter of 2019 (**Table 2**). This non-compliance was self-reported to the Department of Planning, Industry and Environment (DPIE). The non-compliance was attributable to an error in the set limits within the truck dispatch software, and this has since been rectified.

Table 2: Non-compliances in hourly laden truck dispatch

Date	Time	Laden trucks dispatched (count per hour)	Limit (count per hour)	Compliant?
09/02/2019	05:00 – 06:00	28	23	No

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 first 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.

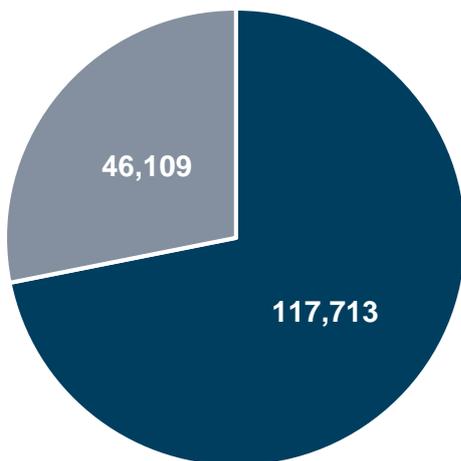
2.5. Annual laden truck dispatch

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 first quarter of 2019. The annual laden truck dispatch will be provided in the report for the fourth quarter of 2019.

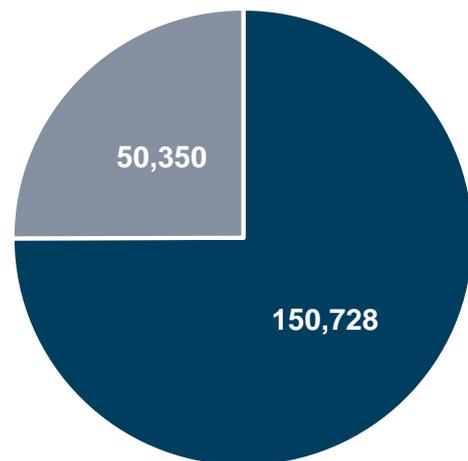
3. Regional destination of quarry products

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)

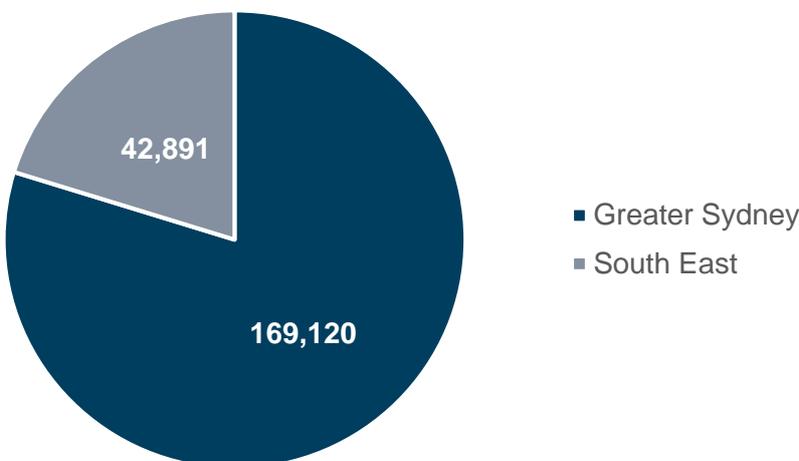


Figure 1: Volume of quarry products (tonnes) transported to different regional destinations for the months of (a) January 2019; (b) February 2019; and (c) March 2019.

Appendix A

Table A 1: Hourly and daily truck dispatch report for the first quarter of 2019 (i.e. 01/01/2019 to 31/03/2019 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. 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
2/01/2019	51	0	0	0	0	0	1	11	12	8	5	1	6	3	2	2	0	0	0	0	0	0	0	0	0	0
3/01/2019	32	0	0	0	0	0	0	0	11	5	0	1	8	3	3	0	1	0	0	0	0	0	0	0	0	0
4/01/2019	29	0	0	0	0	0	0	0	9	7	6	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0
5/01/2019	21	0	0	0	0	0	0	0	11	1	0	0	5	3	0	0	0	1	0	0	0	0	0	0	0	0
7/01/2019	77	0	0	0	0	0	3	9	18	7	6	3	8	6	8	1	0	3	1	0	1	2	0	1	0	0
8/01/2019	112	0	0	0	0	0	7	20	13	8	3	8	14	17	3	3	1	5	1	1	2	0	4	0	1	1
9/01/2019	148	1	0	1	0	0	7	23	13	7	8	15	18	12	13	7	7	7	2	2	2	3	0	0	0	1
10/01/2019	158	0	0	0	0	3	12	23	12	8	12	8	21	18	12	8	2	4	3	1	3	0	2	3	2	1
11/01/2019	149	0	0	0	0	1	12	23	14	5	19	11	15	14	12	8	3	2	1	1	1	3	0	1	2	1
12/01/2019	81	0	0	0	1	1	4	21	12	6	11	4	11	6	0	0	0	0	0	0	0	1	0	1	2	0
14/01/2019	229	0	0	0	0	0	6	23	23	22	17	20	29	15	14	12	12	8	9	6	0	3	5	3	2	0
15/01/2019	314	0	4	1	1	4	17	21	23	20	21	16	30	28	23	17	17	13	15	11	6	5	5	7	4	5
16/01/2019	329	1	3	2	3	8	16	21	23	34	29	17	28	32	23	19	21	7	10	7	5	3	2	4	4	8
17/01/2019	362	0	4	0	4	7	17	23	23	38	27	22	31	32	33	20	20	17	9	12	6	4	4	3	3	3
18/01/2019	267	0	2	2	0	1	10	23	23	25	26	20	29	30	20	6	3	9	6	7	2	4	5	6	5	3
19/01/2019	100	0	1	0	0	3	6	23	23	12	9	7	9	4	0	0	0	0	0	0	0	0	0	0	0	3
20/01/2019	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
21/01/2019	332	0	0	0	0	0	5	22	23	37	26	19	36	27	29	31	14	16	11	10	4	2	8	4	7	1
22/01/2019	343	2	5	0	2	3	14	22	23	24	21	18	27	30	23	28	20	25	13	13	7	3	5	8	2	7
23/01/2019	374	0	0	3	5	7	17	23	23	36	16	30	30	31	29	25	25	18	12	8	8	3	4	8	11	2
24/01/2019	363	0	4	1	3	6	16	23	23	40	31	23	22	35	28	32	21	8	9	10	4	1	8	6	4	5
25/01/2019	242	1	3	0	1	3	15	27	21	14	20	17	18	14	22	10	6	7	7	6	7	5	5	2	8	3
26/01/2019	33	0	3	2	0	0	1	12	2	3	3	1	1	0	0	0	0	0	0	0	0	0	0	0	2	3
29/01/2019	210	0	0	0	0	0	6	27	28	15	10	22	18	20	12	5	6	9	9	5	5	5	4	1	1	2
30/01/2019	285	1	5	0	0	4	19	22	24	33	24	18	15	28	17	18	4	10	9	8	3	6	8	3	3	4
31/01/2019	258	0	1	0	1	1	13	18	27	25	12	24	30	19	12	14	8	7	8	5	4	8	7	4	2	8
1/02/2019	236	0	0	2	2	4	14	23	27	20	17	12	14	18	13	15	5	7	7	5	3	8	9	3	3	5
2/02/2019	102	0	2	1	3	2	2	23	19	9	15	10	8	6	0	0	0	0	0	0	0	0	0	0	0	2

Ticket Date	No. 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
4/02/2019	197	0	0	0	0	0	2	23	25	17	9	15	14	25	10	5	3	6	7	8	4	6	6	1	6	5
5/02/2019	282	1	5	0	0	9	16	21	25	27	19	17	22	27	18	16	4	8	5	7	5	3	9	3	8	8
6/02/2019	228	0	5	1	0	5	12	24	18	19	14	14	24	13	13	7	6	10	6	4	4	5	4	6	6	8
7/02/2019	272	0	4	0	0	6	12	26	29	14	17	17	25	24	19	12	4	8	5	8	7	5	5	9	8	8
8/02/2019	222	0	2	2	1	6	11	26	22	17	18	8	12	15	10	9	2	8	5	13	2	6	2	6	9	10
9/02/2019	111	1	2	1	4	1	3	28	27	12	6	10	6	3	4	0	0	0	0	0	0	0	0	0	3	1
11/02/2019	240	3	0	0	0	0	7	27	29	28	15	21	15	20	17	8	4	3	11	9	4	4	6	7	3	2
12/02/2019	221	0	5	1	1	1	16	20	21	21	14	18	14	22	8	5	1	7	10	6	2	8	6	3	5	6
13/02/2019	270	0	4	1	2	6	12	22	22	20	15	13	19	24	26	18	7	5	14	12	3	3	4	9	8	1
14/02/2019	327	0	6	1	1	6	12	20	33	25	21	25	29	32	33	17	11	9	7	6	4	5	8	9	3	4
15/02/2019	316	0	7	3	2	1	16	26	24	16	15	20	34	26	16	19	19	13	11	10	4	4	8	5	7	10
16/02/2019	148	0	4	0	0	3	8	23	25	28	19	11	14	7	2	0	0	0	0	0	0	0	1	0	2	1
18/02/2019	359	3	0	0	0	0	5	26	37	39	26	28	28	30	30	29	21	16	7	11	4	6	5	4	3	4
19/02/2019	391	1	0	1	4	8	11	22	22	38	29	34	32	32	32	36	18	15	11	9	1	5	10	8	5	8
20/02/2019	334	1	9	2	2	4	14	26	37	21	22	24	31	31	23	20	10	7	10	8	3	8	7	9	1	5
21/02/2019	250	0	2	0	0	2	16	22	29	7	16	19	16	20	18	14	13	9	10	6	4	2	5	8	9	3
22/02/2019	315	0	1	0	2	2	12	27	38	31	29	29	29	31	27	13	1	5	6	9	1	1	8	11	1	1
23/02/2019	86	0	1	0	1	3	3	18	16	6	12	8	12	6	0	0	0	0	0	0	0	0	0	0	0	0
25/02/2019	292	0	0	0	0	0	4	27	38	21	18	18	21	27	23	27	17	5	11	10	2	4	6	4	4	5
26/02/2019	305	0	5	3	3	0	7	27	30	21	15	24	25	32	18	27	11	5	11	9	4	7	4	3	6	8
27/02/2019	286	0	6	1	1	2	15	26	21	20	10	27	27	33	20	14	7	4	6	16	2	5	4	8	4	7
28/02/2019	265	0	3	3	3	2	13	19	27	22	16	13	23	15	22	16	11	8	9	9	2	5	11	4	4	5
1/03/2019	234	1	8	0	4	0	18	27	25	13	17	20	11	11	14	7	8	10	10	6	3	7	3	6	2	4
2/03/2019	122	0	7	1	1	3	5	17	16	21	15	11	15	6	1	0	0	0	0	0	0	0	0	0	0	3
4/03/2019	311	2	0	0	0	0	6	25	37	27	14	26	23	27	31	19	17	13	11	11	4	2	4	5	6	3
5/03/2019	270	0	2	2	3	3	12	27	23	13	14	14	22	26	22	14	9	11	12	10	4	5	5	8	7	2
6/03/2019	262	0	6	4	2	3	12	22	23	18	18	21	6	25	12	11	8	16	6	15	8	1	5	8	8	4
7/03/2019	269	0	7	3	4	0	10	16	21	26	16	23	26	23	19	15	4	5	6	11	3	5	4	9	9	4
8/03/2019	279	1	6	6	2	5	11	27	30	19	11	20	21	22	13	14	9	7	11	4	9	3	6	10	8	5
9/03/2019	114	4	2	7	2	0	5	24	19	16	6	8	13	4	5	0	0	0	0	0	0	0	0	0	0	3
11/03/2019	287	1	0	0	0	0	8	27	27	22	14	21	15	25	29	21	13	8	14	11	3	4	8	8	3	6
12/03/2019	258	0	4	2	1	1	19	22	28	21	12	13	22	18	23	11	2	7	10	10	5	4	8	5	5	5
13/03/2019	303	6	3	4	1	0	11	16	27	28	17	22	27	22	25	30	13	11	10	6	7	4	9	5	2	3
14/03/2019	210	1	0	1	0	2	11	21	18	16	16	17	14	22	8	5	6	4	10	5	1	7	9	6	4	7
15/03/2019	200	0	6	0	0	0	9	16	14	21	16	15	11	19	6	12	4	8	10	7	2	6	5	6	4	3
16/03/2019	99	0	2	0	1	0	4	17	23	24	4	10	7	3	0	1	1	0	0	0	0	0	0	0	0	2
18/03/2019	160	1	0	0	0	1	4	24	13	17	9	11	10	18	14	6	4	3	5	7	4	1	7	1	1	0
19/03/2019	135	0	1	0	2	0	9	10	14	14	9	11	10	6	8	1	5	3	8	10	3	4	4	2	1	0
20/03/2019	183	0	0	0	0	1	7	16	9	15	16	8	11	11	13	7	4	12	11	9	2	8	3	9	2	9
21/03/2019	212	0	2	0	2	2	12	21	16	9	10	11	16	18	10	15	7	8	10	12	3	5	1	9	6	7

Ticket Date	No. 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
22/03/2019	320	0	0	4	4	8	22	27	31	31	17	21	23	28	21	12	10	8	11	8	4	5	4	8	4	8
23/03/2019	115	0	1	0	2	4	4	20	30	10	9	9	14	9	1	0	0	0	0	0	0	0	0	0	2	0
25/03/2019	237	0	0	0	0	0	3	27	31	38	16	12	12	21	11	13	4	7	11	6	4	4	7	6	2	2
26/03/2019	254	0	0	0	0	3	7	22	21	27	11	25	17	12	28	10	6	9	9	14	5	6	3	7	4	8
27/03/2019	297	0	7	0	2	0	14	15	26	23	21	25	28	26	17	22	12	6	12	8	6	5	1	5	11	5
28/03/2019	321	1	6	4	5	0	6	21	25	33	17	18	20	35	25	26	12	8	13	8	7	5	5	6	8	8
29/03/2019	340	0	3	6	3	4	13	24	28	34	22	26	27	27	26	11	15	13	10	9	3	8	2	7	10	9
30/03/2019	109	0	0	0	6	3	8	21	17	20	8	9	4	6	3	0	0	0	0	0	0	0	0	0	4	0