

Our Ref: 784-B035444-TTE-00-XX-RP-O-0001-P01

Mr S Blacker

SRE Associates Ltd

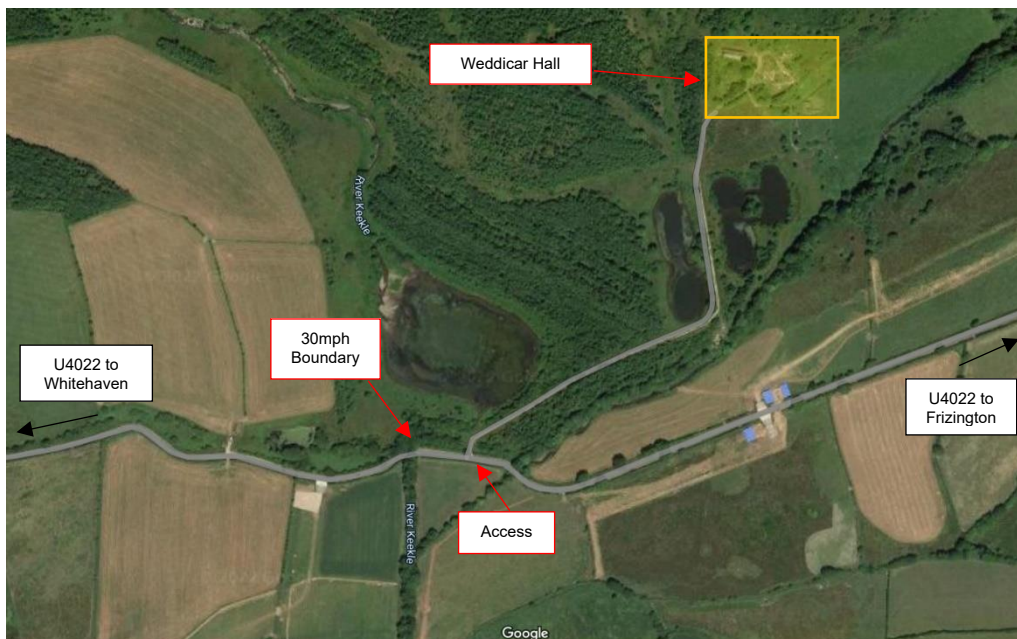
By email

Date: 15 June 2022

Dear Simon

WEDDICAR HALL BARN, CLEATOR MOOR – ACCESS APPRAISAL

As requested, we have undertaken the necessary work to provide advice on visibility splays for an existing access to Weddicar Hall. Weddicar Hall is located to the north of Cleator Moor, off the U4022 which runs between Frizington and the B5295, as shown in Extract 1 below. Once a working farm, the farmhouse and surrounding buildings have been demolished and the site now contains a single disused barn. The development proposal consists of converting the one remaining farm building into a single habitable dwelling.



Extract 1: Google Maps – Site Location

The site is accessed from the U4022 via a long farm track. The U4022 is a narrow, rural road. It is unlit and mostly subject to the national speed limit. Between the B5295 and Mill Street, it is signed as being unsuitable for HGVs. The access road joins onto the U4022 in a simple priority arrangement, located between two bridges. The bridges are narrow (3m and 3.8m) and humpbacked; drivers use their horns to alert oncoming traffic of their presence. Although the U4022 is mostly subject to the national speed limit, some 40m to the west of the access, a 30mph limit is in force at the western

bridge which is associated with the UU pipeline temporary works access. At the access, the carriageway is 4.8m in width with grass verges. Photo 1 below shows the access.



Photo 1: Existing Access

Due to the nature and alignment of the road, the narrow bridges, it is very unlikely traffic will reach high speeds here; the proximity of the temporary 30mph zone makes little difference as traffic must slow and come almost to a stop before proceeding over the bridges.

In order to determine the appropriate visibility splays at the access and therefore assess the suitability of the existing provision, a traffic survey was undertaken on the U4022 by Traffic Sense Ltd. An Automatic Traffic Counter (ATC) was installed at the access and recorded a full week of data between 26th April and 2nd May 2022, inclusive of both. The full ATC report is attached. From the ATC the average 24-hour 85th percentile speeds have been calculated as:

- 29.8mph eastbound
- 29.8mph westbound

As the 85th percentile speeds are below 37mph, Manual for Streets (MfS) has been used to determine the appropriate visibility splays. From a 2.4m set-back distance, the MfS recommended visibility splays are:

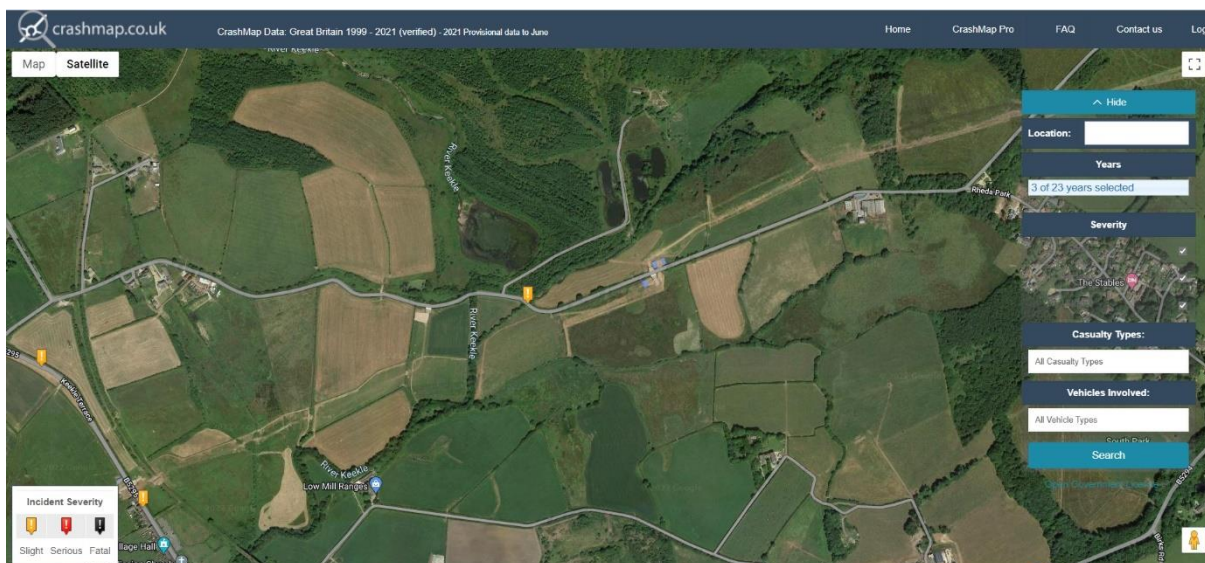
- 40m to the left
- 40m to the right

The MfS recommended visibility splays are deliverable at the existing site access, from a 2.4m set-back distance, as shown on the attached Tetra Tech Drawing 784-B035444-TTE-00-XX-DR-O-0001-P02. The available visibility from the access is in excess of the MfS recommendation, indeed both bridges are visible from the access, with some 70m to the left and 40m to the right available.

Traffic volumes as recorded in the survey are low. In the weekday AM peak hour there was an average of 38 vehicles eastbound (towards Frizington) and 60 vehicles westbound (towards

Whitehaven). In the PM peak hour, there was an average of 57 vehicles eastbound and 58 westbound. The development on site of a single dwelling could be expected on average to contribute 1 vehicle in each peak hour. This is an immaterial increase that can be readily accommodated on the local road network.

From a review of the Crashmap database, the area local to the site access has a very good safety record. There have been no personal injury accidents reported at the access in the most recent 3-year period available, as shown in Extract 2 below. There has been one accident reported in the area; approx. 60m from the access, this incident occurred east of the bridge, was slight in nature and involved 2 vehicles.



Extract 2: Crashmap – Reported Accidents 2019-2021

In conclusion, the recorded 85th percentile traffic speeds in the vicinity of the access are 29.8mph in both directions. Appropriate MfS visibility splays are therefore 40m in each direction, which are available from a 2.4m set-back distance at the existing access. It must be ensured that no objects or vegetation obstruct the splays. The accident record at the access is very good with no personal injury accidents reported in recent years. The existing access is suitable for use as proposed.

Yours sincerely

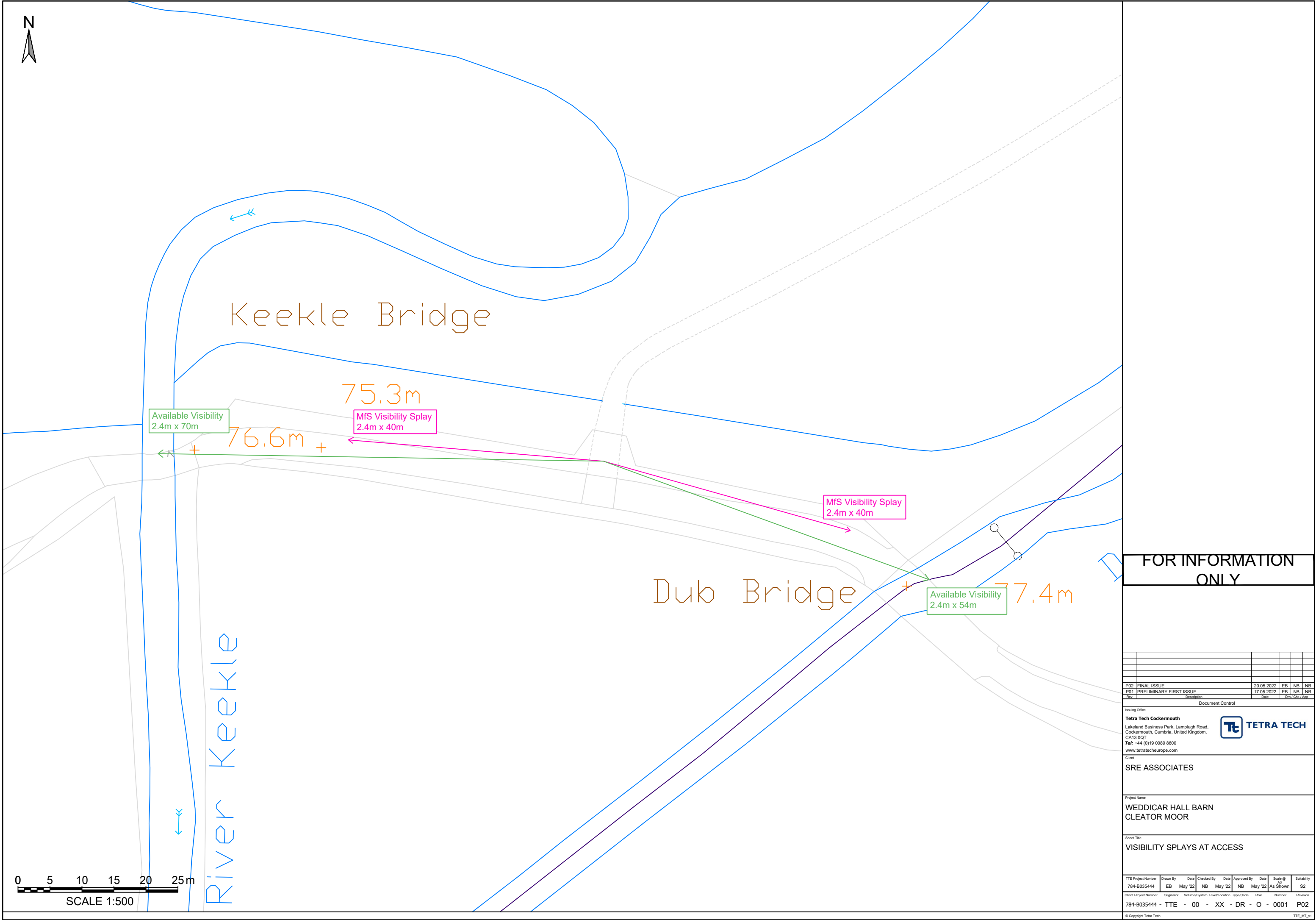


Eleanor Bunn

Senior Transport Planner

For and on behalf of TetraTech Europe

Enc ATC Results. Tetra Tech Drawing 784-B035444-TTE-00-XX-DR-O-0001-P02.



Direction : EASTBOUND

Direction : WESTBOUND

Direction : EASTBOUND

Direction : WESTBOUND

Direction : EASTBOUND

Direction : WESTBOUND

Direction : EASTBOUND

Direction : WESTBOUND

Direction : WESTBOUND

LOCATION: CLEATOR MOOR

Direction : WESTBOUND

LOCATION: CLEATOR MOOF

Direction : WESTBOUND

LOCATION: CLEATOR MOOR

Direction : WESTBOUND

Automatic Classified Counts

LOCATION: CLEATOR MOOR

Direction : EASTBOUND

Saturday 30/04/2022														TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2	0	0	0	0	0	0	0	0	0	0	0	0	2
3	1	1	0	0	0	0	0	0	0	0	0	0	0	2
4	3	0	0	0	0	0	0	0	0	0	0	0	0	3
5	3	0	0	0	0	0	0	0	0	0	0	0	0	3
6	1	0	0	0	0	0	0	0	0	0	0	0	0	1
7	4	0	0	0	0	0	0	0	0	0	0	0	0	4
8	20	1	0	0	0	0	0	0	0	0	0	0	0	21
9	23	1	0	0	0	0	0	0	0	0	0	0	0	24
10	28	4	0	0	0	0	0	0	0	0	0	0	0	32
11	45	8	0	0	0	0	0	0	0	0	0	0	0	53
12	36	6	0	0	0	0	0	0	0	0	0	0	0	42
13	51	9	0	0	0	0	0	1	0	0	0	0	0	61
14	40	2	0	0	0	0	0	0	0	0	0	0	0	42
15	67	3	0	0	0	0	0	0	0	0	0	0	0	70
16	41	5	0	0	0	0	0	0	0	0	0	0	0	46
17	42	4	0	0	0	0	0	0	0	0	0	0	0	46
18	29	1	0	0	0	0	0	0	0	0	0	0	0	30
19	22	2	0	0	0	0	0	0	0	0	0	0	0	24
20	25	3	0	0	0	0	0	0	0	0	0	0	0	28
21	15	1	0	0	0	0	0	0	0	0	0	0	0	16
22	14	1	0	0	0	0	0	0	0	0	0	0	0	15
23	16	2	0	0	0	0	0	0	0	0	0	0	0	18
24	13	1	0	0	0	0	0	0	0	0	0	0	0	14
7-19	457	46	0	0	0	0	0	1	0	0	0	0	0	504
6-22	515	51	0	0	0	0	0	1	0	0	0	0	0	567
6-24	544	54	0	0	0	0	0	1	0	0	0	0	0	599
0-24	561	55	0	0	0	0	0	1	0	0	0	0	0	617

Direction : WESTBOUND

Saturday 30/04/2022														TOTAL
Hr Ending	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	2	1	0	0	0	0	0	0	0	0	0	0	0	3
2	1	1	0	0	0	0	0	0	0	0	0	0	0	2
3	1	1	0	0	0	0	0	0	0	0	0	0	0	2
4	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5	2	0	0	0	0	0	0	0	0	0	0	0	0	2
6	2	1	0	0	0	0	0	0	0	0	0	0	0	3
7	12	1	0	0	0	0	0	0	0	0	0	0	0	13
8	18	0	0	0	0	0	0	0	0	0	0	0	0	18
9	37	1	0	0	0	0	0	0	0	0	0	0	0	38
10	52	3	0	0	0	0	0	0	0	0	0	0	0	55
11	50	4	1	0	0	0	0	0	0	0	0	0	0	55
12	43	5	0	0	0	0	0	0	0	0	0	0	0	48
13	66	3	0	0	0	0	0	0	0	0	0	0	0	69
14	50	6	0	0	0	0	0	0	0	0	0	0	0	56
15	52	5	1	0	0	0	0	0	0	0	0	0	0	57
16	38	2	0	0	0	0	0	0	0	0	0	0	0	40
17	38	2	0	0	0	0	0	0	0	0	0	0	0	40
18	32	0	0	0	0	0	0	0	0	0	0	0	0	32
19	40	2	0	0	0	0	0	0	0	0	0	0	0	42
20	25	2	0	0	0	0	0	0	0	0	0	0	0	27
21	16	0	0	0	0	0	0	0	0	0	0	0	0	16
22	19	0	0	0	0	0	0	0	0	0	0	0	0	19
23	11	1	0	0	0	0	0	0	0	0	0	0	0	12
24	3	1	0	0	0	0	0	0	0	0	0	0	0	4
7-19	516	33	0	0	2	0	0	0	0	0	0	0	0	553
6-22	536	32	0	0	2	0	0	0	0	0	0	0	0	568
6-24	609	38	0	0	2	0	0	0	0	0	0	0	0	642
0-24	612	41	0	0	2	0	0	0	0	0	0	0	0	655

Automatic Classified Counts

LOCATION: CLEATOR MOOR

Direction : EASTBOUND

Saturday 30/04/2022														TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120		
1	0	0	7	0	0	0	0	0	0	0	0	0	0	7
2	0	0	1	1	0	0	0	0	0	0	0	0	0	2
3	0	0	2	0	0	0	0	0	0	0	0	0	0	2
4	0	0	1	1	1	0	0	0	0	0	0	0	0	3
5	0	1	2	0	0	0	0	0	0	0	0	0	0	3
6	0	0	1	0	1	0	0	0	0	0	0	0	0	2
7	0	1	2	1	1	0	0	0	0	0	0	0	0	7
8	0	0	16	3	2	0	0	0	0	0	0	0	0	21
9	0	0	21	3	1	0	0	0	0	0	0	0	0	25
10	0	3	25	4	0	0	0	0	0	0	0	0	0	32
11	0	5	38	10	0	0	0	0	0	0	0	0	0	53
12	0	1	38	3	0	0	0	0	0	0	0	0	0	42
13	0	3	51	7	0	0	0	0	0	0	0	0	0	61
14	0	4	33	5	0	0	0	0	0	0	0	0	0	42
15	0	0	66	3	1	0	0	0	0	0	0	0	0	70
16	0	4	40	2	0	0	0	0	0	0	0	0	0	46
17	0	0	31	7	0	0	0	0	0	0	0	0	0	38
18	0	1	38	4	0	0	0	0	0	0	0	0	0	43
19	0	5	24	2	0	0	0	0	0	0	0	0	0	31
20	0	1	21	6	0	0	0	0	0	0	0	0	0	28
21	0	0	16	0	0	0	0	0	0	0	0	0	0	16
22	0	0	13	2	0	0	0	0	0	0	0	0	0	15
23	0	1	14	2	0	0	0	0	0	0	0	0	0	16
24	0	1	12	1	0	0	0	0	0	0	0	0	0	14
7-19	0	26	421	53	4	0	0	0	0	0	0	0	0	504
6-22	0	28	412	62	1	0	0	0	0	0	0	0	0	507
6-24	0	30	459	65	5	0	0	0	0	0	0	0	0	599
0-24	0	31	512	68	6	0	0	0	0	0	0	0	0	617

Direction : WESTBOUND

Saturday 30/04/2022														TOTAL
Hr Ending	0-10	11-20	21-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-120		
1	0	1	2	0	0	0	0	0	0	0	0	0	0	3
2	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3	0	0	2	0	0	0	0	0	0	0	0	0	0	2
4	0	0	0	1	1	0	0	0	0	0	0	0	0	2
5	0	0	1	1	0	0	0	0	0	0	0	0	0	2
6	0	0	2	2	0	0	0	0	0	0	0	0	0	4
7	0	1	10	1	1	0	0	0	0	0	0	0	0	13
8	0	0	14	4	0	0	0	0	0	0	0	0	0	18
9	0	6	28	4	0	0	0	0	0	0	0	0	0	38
10	0	3	48	5	0	0	0	0	0	0	0	0	0	56
11	0	6	48	1	0	0	0	0	0	0	0	0	0	55
12	1	0	43	3	0	0	0	0	0	0	0	0	0	46
13	3	6	54	6	0	0	0	0	0	0	0	0	0	69
14	0	4	48	3	1	0	0	0	0	0	0	0	0	56
15	0	2	52	3	0	0	0	0	0	0	0	0	0	57
16	0	3	32	5	0	0	0	0	0	0	0	0	0	40
17	0	4	34	1	1	0	0	0	0	0	0	0	0	40
18	0	2	27	2	0	0	0	0	0	0	0	0	0	31
19	1	2	36	4	0	0	0	0	0	0	0	0	0	37
20	0	1	24	2	0	0	0	0	0	0	0	0	0	27
21	0	2	13	1	0	0	0	0	0	0	0	0	0	16
22	0	1	18	0	0	0	0	0	0	0	0	0	0	19
23	0	1	10	1	0	0	0	0	0	0	0	0	0	12
24	0	0	4	0	0	0	0	0	0	0	0	0	0	4
7-19	5	38	464	41	3	0	0	0	0	0	0	0	0	551
6-22	5	43	529	45	4	0	0	0	0	0	0	0	0	626
6-24	5	45	564	46	5	0	0	0	0	0	0	0	0	642
0-24	5	45	550	51	4	0	0	0	0	0	0	0	0	655

survey and presentation by [trafficsense Ltd.](#)

Automatic Classified Counts

LOCATION: CLEATOR MOOR

Direction : EASTBOUND

Hr Ending	AVERAGE SPEEDS						
	Tuesday 26-Apr-22	Wednesday 27-Apr-22	Thursday 28-Apr-22	Friday 29-Apr-22	Saturday 30-Apr-22	Sunday 1-May-22	Monday 2-May-22
1	28.0	25.5	25.5	26.8	25.5	25.5	29.0
2	25.5	28.0	-	25.5	29.3	27.4	28.0
3	33.0	-	-	-	25.5	27.4	31.2
4	25.5	-	-	27.2	15.5	22.2	25.5
5	25.5	-	-	27.2	15.5	-	25.5
6	28.0	26.5	25.5	25.5	33.0	-	25.5
7	25.5	25.5	24.1	30.5	24.9	25.5	25.5
8	25.9	24.5	25.9	27.0	27.8	26.3	25.5
9	25.0	25.4	27.4	26.2	26.9	25.2	25.5
10	26.2	24.9	24.7	26.2	25.5	25.0	26.3
11	26.0	23.4	24.8	25.6	26.0	26.7	26.2
12	25.9	25.2	24.2	26.1	25.8	25.1	25.0
13	25.5	23.4	25.4	25.9	25.9	27.1	26.5
14	25.2	23.0	25.2	25.5	25.4	26.0	25.6
15	25.4	23.4	25.0	25.9	26.0	25.2	25.0
16	26.2	25.8	25.2	26.8	26.0	27.3	26.1
17	25.6	25.9	25.5	26.9	25.9	25.4	24.7
18	25.4	26.9	26.9	26.4	26.0	26.3	25.8
19	26.7	26.3	26.8	26.3	24.4	27.3	25.3
20	26.3	27.1	25.8	26.4	26.8	27.5	27.0
21	26.4	26.2	26.5	26.1	26.5	26.7	26.5
22	26.5	27.3	26.6	26.9	26.5	25.4	27.2
23	30.5	25.5	25.9	28.0	26.5	28.0	26.3
24	25.5	25.5	28.5	27.0	25.3	26.5	25.0
10-12	25.5	24.3	24.5	25.9	25.9	25.9	25.8
14-16	25.8	24.6	25.1	25.8	25.5	26.3	25.5
0-24	26.3	25.6	25.8	26.0	26.4	26.3	26.5

Hr Ending	85th PERCENTILE						
	Tuesday 26-Apr-22	Wednesday 27-Apr-22	Thursday 28-Apr-22	Friday 29-Apr-22	Saturday 30-Apr-22	Sunday 1-May-22	Monday 2-May-22
1	32.3	-	25.5	29.8	25.5	25.5	32.9
2	-	32.3	-	-	34.6	31.1	31.8
3	-	-	-	-	25.5	31.1	37.6
4	-	-	-	-	35.5	-	36.9
5	-	-	37.3	-	27.9	-	34.6
6	32.3	33.7	25.5	-	-	-	25.5
7	25.5	25.5	27.9	34.8	32.1	-	25.5
8	30.7	28.4	30.2	31.2	32.1	28.6	25.5
9	30.6	29.5	31.7	31.6	30.3	29.9	25.5
10	29.3	27.9	30.1	29.4	29.6	29.2	28.6
11	28.9	28.7	28.7	29.2	30.5	30.1	29.4
12	30.7	29.6	28.8	28.3	28.7	28.7	29.4
13	29.8	28.5	28.2	29.9	29.2	30.6	30.0
14	27.6	27.7	29.4	28.3	29.5	28.8	28.6
15	29.7	28.5	29.1	30.2	28.3	27.6	29.0
16	28.3	29.0	28.6	28.3	31.2	28.3	-
17	29.4	28.2	29.9	29.6	29.8	29.6	28.7
18	28.3	30.9	30.7	30.2	28.7	29.1	27.2
19	29.8	30.3	30.3	29.9	28.7	31.8	28.7
20	30.4	30.7	29.4	30.6	32.1	31.2	31.2
21	30.8	29.3	30.2	31.0	25.5	30.1	30.2
22	29.1	32.2	30.8	29.9	29.1	30.8	30.5
23	34.4	25.5	30.3	32.9	31.0	32.3	28.6
24	25.5	25.5	32.4	30.4	28.8	29.1	31.2
10-12	29.8	29.1	28.7	29.3	29.4	29.4	28.8
14-16	29.2	28.7	28.9	30.2	28.2	29.4	28.7
0-24	29.7	29.1	29.8	30.5	29.7	29.9	29.7

7 DAY AVERAGE SPEED

7 DAY AVERAGE 85th PERCENTILE

5 DAY OFF PEAK AVERAGE SPEED

5 DAY OFF PEAK AVERAGE 85th PERCENTILE

survey and presentation by traffic sense Ltd.

Automatic Classified Counts

LOCATION: CLEATOR MOOR

Direction : WESTBOUND

Hr Ending	AVERAGE SPEEDS						
	Tuesday 26-Apr-22	Wednesday 27-Apr-22	Thursday 28-Apr-22	Friday 29-Apr-22	Saturday 30-Apr-22	Sunday 1-May-22	Monday 2-May-22
1	25.5	29.3	27.4	25.5	22.2	26.4	29.3
2	25.5	-	-	-	31.0	29.3	27.6
3	25.5	25.5	-	25.5	25.5	30.5	30.9
4	-	-	33.0	33.0	33.0	26.0	25.5
5	25.3	29.3	33.0	29.3	25.3	-	31.1
6	25.5	23.0	26.3	29.3	29.3	25.5	25.5
7	26.4	26.8	27.4	25.5	26.3	26.2	25.2
8	26.1	25.2	25.7	27.0	27.2	25.5	27.4
9	25.9	26.1	25.0	26.6	24.7	26.2	26.5
10	25.6	23.6	24.3	25.6	25.6	25.3	25.3
11	26.0	23.9	22.9	25.3	24.5	26.1	24.9
12	25.6	23.8	22.3	25.0	25.8	26.0	25.2
13	25.9	23.5	25.8	26.6	24.4	25.5	24.7
14	23.9	23.8	26.0	25.4	26.3	25.9	27.3
15	24.8	24.0	22.7	25.1	25.5	25.3	25.7
16	24.9	24.7	25.7	26.5	25.7	25.4	25.8
17	24.8	26.0	25.8	26.0	25.0	25.8	26.0
18	25.4	26.6	26.4	26.3	26.1	26.4	25.2
19	25.0	26.0	25.4	25.4	25.3	25.5	25.4
20	26.0	25.7	26.4	26.7	25.7	26.3	27.1
21	26.5	25.1	24.6	27.3	24.7	26.4	25.6
22	26.0	27.3	26.9	27.0	25.0	28.0	25.2
23	29.5	25.5	28.3	26.9	25.3	28.7	28.0
24	22.4	26.8	25.1	28.0	25.5	27.0	28.0
10-12	25.8	23.9	22.6	25.1	25.2	26.1	25.0
14-16	24.8	24.3	24.2	25.8	25.6	25.3	25.7
0-24	25.6	25.5	26.2	26.5	26.2	26.6	26.8

Hr Ending	85th PERCENTILE						
	Tuesday 26-Apr-22	Wednesday 27-Apr-22	Thursday 28-Apr-22	Friday 29-Apr-22	Saturday 30-Apr-22	Sunday 1-May-22	Monday 2-May-22
1	-	34.8	31.1	-	27.9	29.1	33.2
2	-	-	-	-	34.6	31.1	31.3
3	25.5	-	-	-	25.5	34.8	34.5
4	-	-	-	-	32.3	-	34.9
5	34.6	34.6	-	34.8	34.6	-	-
6	27.3	28.0	33.4	28.0	33.6	-	-
7	29.0	29.6	31.1	25.5	31.3	26.4	29.6
8	28.9	28.1	28.5	30.7	30.4	25.5	30.8
9	29.9	30.4	30.2	29.6	29.4	28.4	29.1
10	30.4	27.6	27.6	29.4	28.9	29.1	29.0
11	30.0	28.6	28.3	29.1	27.9	28.9	28.8
12	27.8	28.7	29.4	28.6	29.7	30.4	29.3
13	30.3	29.8	29.1	29.9	29.3	28.3	28.3
14	28.8	28.4	28.9	29.7	29.0	29.8	27.2
15	30.8	29.2	28.3	28.9	26.1	26.9	26.9
16	27.8	29.8	29.1	30.1	29.5	28.3	28.7
17	29.7	28.6	29.4	27.8	28.9	31.5	29.1
18	28.6	30.1	30.1	29.8	28.6	25.7	27.6
19	29.5	28.8	29.9	28.3	29.7	29.4	28.3
20	29.1	28.5	28.8	30.6	28.5	28.7	31.7
21	31.1	31.0	29.4	30.5	28.8	29.0	29.3
22	30.5	33.4	31.9	31.9	27.3	32.1	29.9
23	35.3	25.5	32.2	29.9	29.1	34.4	32.3
24	30.9	29.8	30.2	31.9	25.5	32.0	32.3
10-12	28.9	28.7	28.9	28.8	28.8	29.6	29.1
14-16	29.3	29.5	28.7	29.5	28.8	28.6	27.8
0-24	29.6	29.7	29.9	29.8	29.2	30.2	30.2

7 DAY AVERAGE SPEED

7 DAY AVERAGE 85th PERCENTILE

5 DAY OFF PEAK AVERAGE SPEED

5 DAY OFF PEAK AVERAGE 85th PERCENTILE

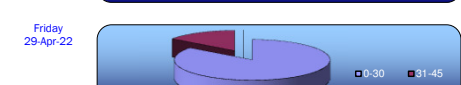
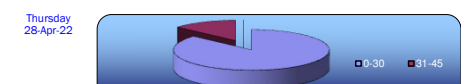
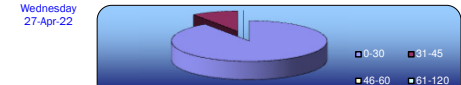
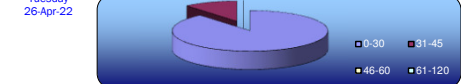
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Automatic Classified Counts

LOCATION: CLEATOR MOOR

Direction : EASTBOUND

SPEED (MPH)	SPEED SUMMARY						
	Tuesday 26-Apr-22	Wednesday 27-Apr-22	Thursday 28-Apr-22	Friday 29-Apr-22	Saturday 30-Apr-22	Sunday 1-May-22	Monday 2-May-22
0-30	616	687	569	646	543	445	421
31-45	77	73	88	113	74	74	51
46-60	0	0	0	0	0	0	0
61-120	0	0	0	0	0	0	0
TOTAL	693	760	657	759	617	519	472



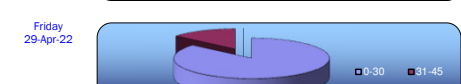
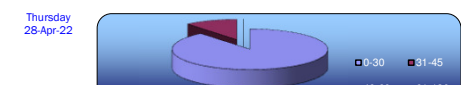
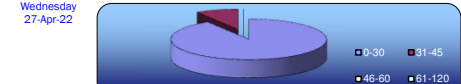
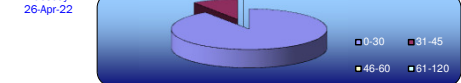
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Automatic Classified Counts

LOCATION: CLEATOR MOOR

Direction : WESTBOUND

SPEED (MPH)	SPEED SUMMARY						
	Tuesday 26-Apr-22	Wednesday 27-Apr-22	Thursday 28-Apr-22	Friday 29-Apr-22	Saturday 30-Apr-22	Sunday 1-May-22	Monday 2-May-22
0-30	638	672	604	662	600	469	436
31-45	67	65	74	105	55	77	47
46-60	0	0	0	0	0	0	0
61-120	0	0	0	0	0	0	0
TOTAL	705	737	678	768	655	546	483



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Automatic Classified Counts