

**Dalradian Gold Limited**

**Currignahalt Project**

**Speed Surveys and Sightlines**

**February 2020**

## Document Information and History

Project: Currignahalt Project  
Client: Dalradian Gold Limited  
Client Representative:  
Hoy Dorman Job Number: 2016021  
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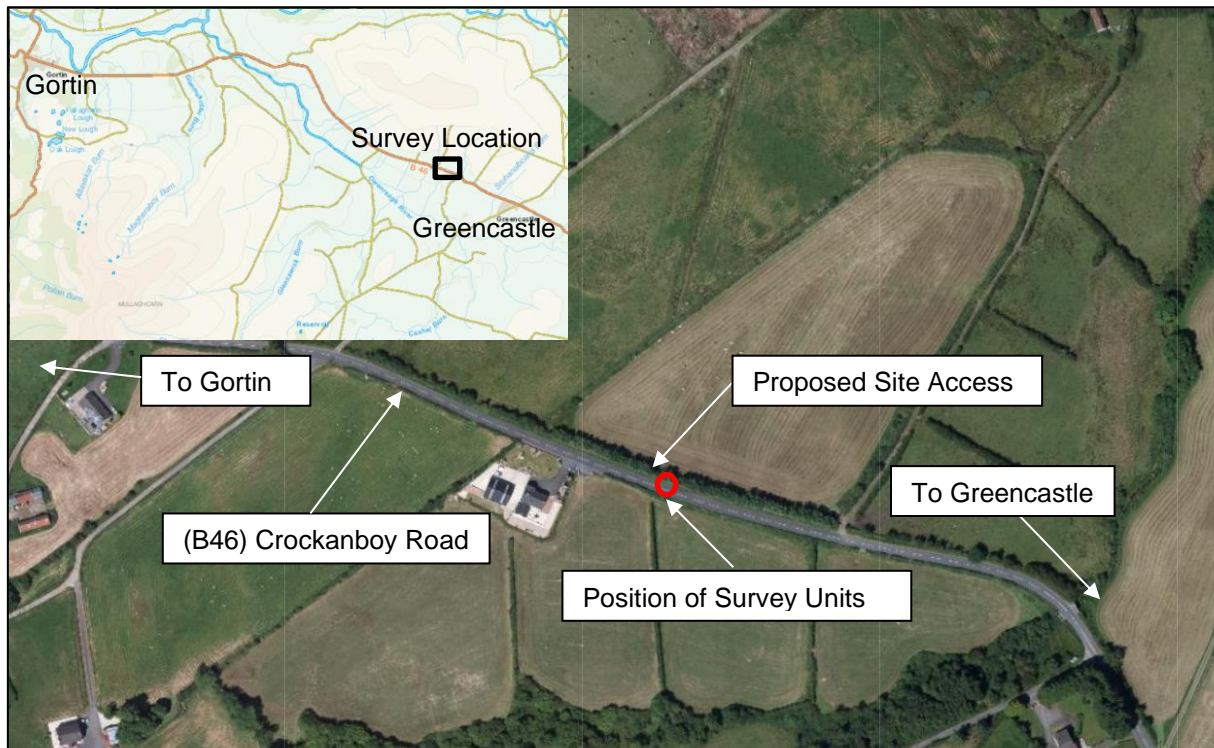
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## 1 Introduction

This updated speed survey report has been produced to detail the outcome of several speed surveys undertaken at the proposed site entrance to the Dalradian Gold Mine Project (LA10/2017/1249/F) along the B46 Crockanboy Road. The location of the speed survey is indicated in the Figure 1 below.

**Figure 1: Placement of Speed Survey Unit (Courtesy of Spatial NI)**



R-SID Doppler Radar Count II units were used to inform the speed survey data and report.

The formal speed survey was undertaken in late 2015 and early 2020 by Hoy Dorman, however staff also undertook vehicle follow along observations when passing this area frequently over the past number of years. Therefore, the vehicle speed at the location of the proposed access on the B46 Crockanboy Road is well understood and documented in accordance with CA 185: Vehicle Speed Measurement - Standards for Highways.

The information obtained from the speed survey has been used to inform the proposed sightline distance obtained in DCAN 15: Vehicular Access Standards.

## 2 Speed Survey Results

### 2.1 Speed Survey No 1 - 20 January 2020

Speed survey No 1 was undertaken on 20 January 2020 from 9:00am – 3:30pm using a R-SID Doppler Radar Count II unit. The results from this survey indicated that the average 85th percentile speed was recorded as 67kmh (41.6mph). The weather conditions were damp but not raining, however in accordance with CA 185 for recording speed surveys in wet conditions with an additional 4Kmh was added to the 85th percentile speed 71kmh (44mph). There were 284 vehicles contained within the speed survey.

### 2.2 Speed Survey No 2 - 22 January 2020

Speed survey No 2 was undertaken on 20 January 2020 from 11:00am – 4:30pm using the R-SID Doppler Radar Count II unit. The results from this survey indicated that the average 85th percentile speed of 75kmh (46.6mph). The weather was overcast but dry during the survey period. There were 275 vehicles contained within the speed survey.

### 2.3 Follow Along Surveys

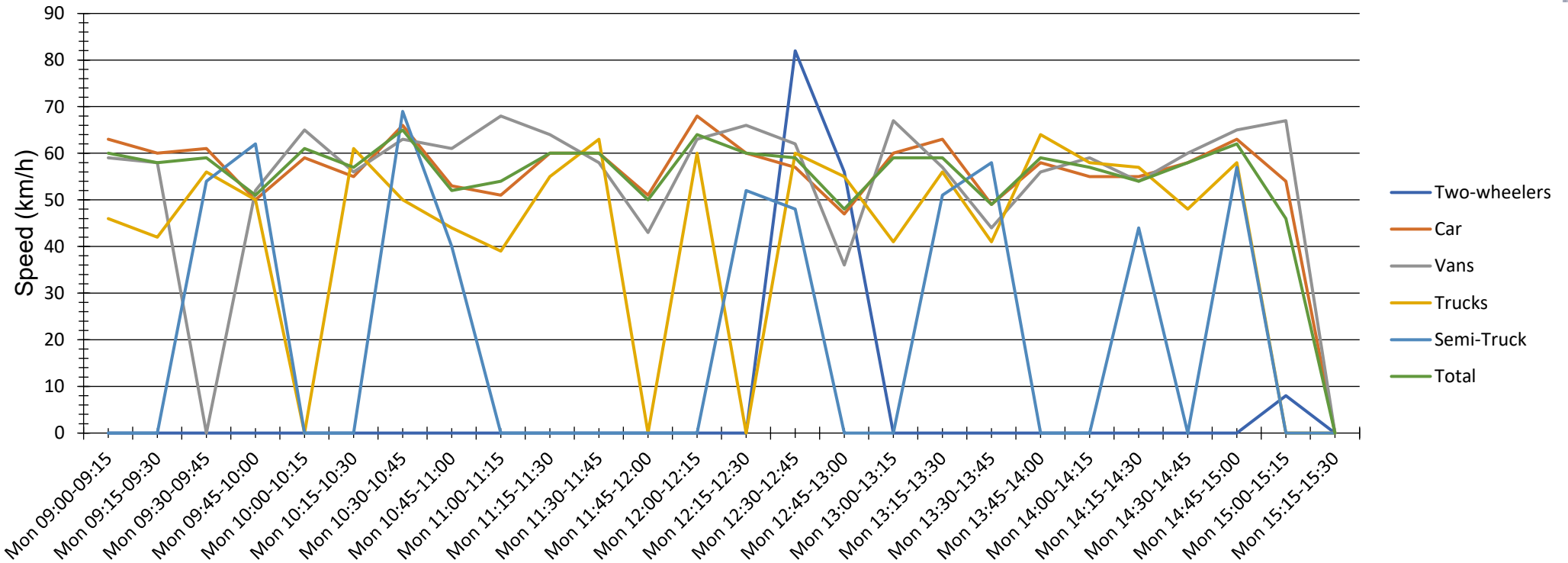
Hoy Dorman undertook numerous follow along observations any time staff were in the area from 2015 onwards. The average 85th percentile speed listed above of 75.8kmh (47.1mph) is in keeping with our experience of vehicle speeds at this location.

## 3 Conclusions

As per discussions with DfI Roads the most recent 85<sup>th</sup> percentile speed survey results from the 22<sup>nd</sup> of January 2020 at the proposed access location on the B46 Crockanboy Road of 75kmh (46.6mph) have been used.

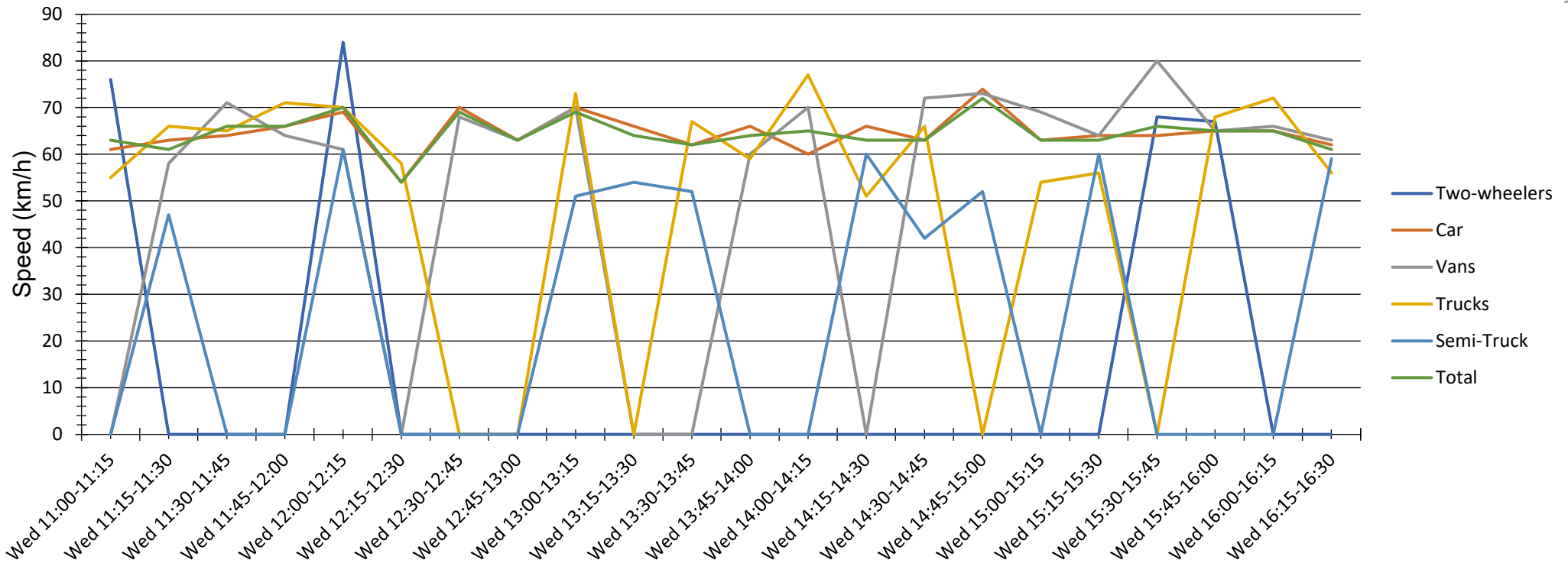
Given the above recorded speed the proposal to provide 4.5m x 140m sightlines is deemed an adequate sightline design in accordance with DCAN 15: Vehicular Access Standards.

# Sequence Average speed



Evaluation time		20 January 2020,09:00 - 20 January 2020,15:30			
Speed limit	100 km/h				
Speed violations	0.00 %	<b>Count</b>	<b>Vd[km/h]</b>	<b>Vmax[km/h]</b>	<b>V85 [km/h]</b>
Average gap time	139.44 s	<b>Two-wheelers</b>	4	38	82
Queue traffic	4.93 %	<b>Car</b>	174	58	94
ADT	1049	<b>Vans</b>	59	59	90
AYT	382885	<b>Trucks</b>	35	55	71
LGV traffic share	16.55 %	<b>Semi-Truck</b>	12	54	69
Evaluation direction	Both directions	<b>Total</b>	284	57	94
<b>Author:</b>	Martin Hoy				
<b>Comment:</b>	Dalradian Project				
<b>Location:</b>	Site Entrance (B46)				
<b>Arriving vehicles from:</b>					
<b>Departing vehicles to:</b>					

# Sequence Average speed



Evaluation time		22 January 2020,11:00 - 22 January 2020,16:30				
Speed limit	100 km/h	Count	Vd[km/h]	Vmax[km/h]	V85 [km/h]	
Speed violations	0.36 %	<b>Two-wheelers</b>	8	74	96	77
Average gap time	143.27 s	<b>Car</b>	183	64	101	75
Queue traffic	7.64 %	<b>Vans</b>	47	66	83	76
ADT	1200	<b>Trucks</b>	26	64	82	73
AYT	438000	<b>Semi-Truck</b>	11	54	69	60
LGV traffic share	13.45 %	<b>Total</b>	275	64	101	75
Evaluation direction	Both directions					
Author:	Martin Hoy					
Comment:	Dalradian Project					
Location:	Site Entrance (B46)					
Arriving vehicles from:						
Departing vehicles to:						