

03/10/2016

Michael Boland
Executive Scientist
Water and Environmental Services
Wicklow Country Council
County Buildings
Wicklow Town
Co. Wicklow

RE: Section 55 Monitoring Data, Ballinclare Quarry – Dust Monitoring Update

Dear Mr. Boland,

As outlined in our previous letter, dated 14th September 2016, I am writing to you to provide an update on the Section 55 dust monitoring undertaken at Ballinclare Quarry, Co. Wicklow.

1. Dust sampling status

In accordance with the programme outlined in the letter dated 20th June 2016, dust monitoring was again undertaken continuously from Friday 19th August until Thursday 8th September 2016. The results are presented in Table 1.

Monitoring for PM₁₀ was undertaken at one location (SD1) (see *Figure 1a – Dust monitoring locations*) using a R&P Partisol®-Plus Sequential Air Sampler (Model 2025). The sampler is a manual air sampling platform which has been designed to meet US EPA Reference Designation (RFPS-1298-127). Approximately 24 m³ of air is sampled daily through a particle size separator, which is contained within the PM₁₀ sampling head. The impactor removes particles with a diameter >10 µg and the remaining particles are collected on pre-weighed 47mm diameter filters. The Partisol® sampler is programmed to automatically replace each sampled filter by a new pre-weighed filter at midnight. This ensures that each filter represents a sampling period of exactly 24 hours. Gravimetric determination is carried out pre- and post-sampling by a UKAS accredited laboratory using a calibrated scientific balance.



Cork Office
Unit 5, ATS Building,
Carrigaline Industrial Estate,
Carrigaline, Co. Cork.
T: + 353 21 438 7400
F: + 353 21 483 4606

AWN Consulting Limited
Registered in Ireland No. 319812
Directors: F Callaghan, C Dilworth,
T Donnelly, T Hayes, D Kelly, E Porter

As with the previous results, all samples were again in compliance with the CAFE Directive 2008/50/EC limit value for PM₁₀ which is 40 µg/ m³ per calendar year or 50 µg/m³ in any 24-hour period (not to be exceeded more than 35 times in a calendar year) (see <http://www.epa.ie/air/quality/standards/>). The monthly average for all samples to date is reported in Table 2.

2. Relocation of the R&P Partisol®-Plus Sequential Air Sampler

From 23 September 2016 monitoring for PM₁₀ was undertaken at a new location (SD2) (see *Figure 1a – Dust monitoring locations*) within the process yard. The purpose of this was to provide a more representative sample of dust movement at the site, in particular within the now closed processing area. Results from the sampling at this location are anticipated at the end of October 2016.

Yours sincerely,



Teri Hayes
Director Awn Consulting

cc. *Michael Geaney, A/Director of Services, Water and Environmental Services, Wicklow Co. Council*
David McKeown, Director, Kilsaran International
Jim Fanning, Health and Safety Authority

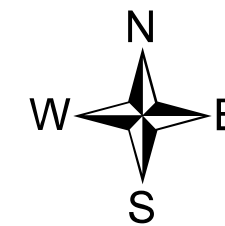
encl. *Table 1 - Dust Monitoring Programme Results, Ballinclare Quarry, 19 August 2016 to 8 September 2016*
Table 2 - Dust Monitoring Averages, 17 June 2016 – 8 September 2016
Figure 1a - Dust Monitoring Locations

Table 1: Dust Monitoring Programme Results, Ballinclare Quarry, 19 August 2016 to 8 September 2016

Filter Paper ID	Date	PM10 Concentration ($\mu\text{g}/\text{m}^3$)
05543/04	19/08/2016	24
05543/05	20/08/2016	9
05543/06	21/08/2016	5
05543/07	22/08/2016	8
05543/08	23/08/2016	4
05543/09	24/08/2016	12
05543/10	25/08/2016	11
05543/11	26/08/2016	8
05543/12	27/08/2016	10
05543/13	28/08/2016	10
05543/14	29/08/2016	11
05543/15	30/08/2016	8
05543/16	31/08/2016	10
05543/17	01/09/2016	6
05543/18	02/09/2016	7
05543/20	03/09/2016	8
05543/21	04/09/2016	5
05543/22	05/09/2016	0.2
05543/23	06/09/2016	4
05543/24	07/09/2016	17
05543/25	08/09/2016	13

Table 2: Dust Monitoring Averages, 17 June 2016 – 8 September 2016

1-month Average	9.4 $\mu\text{g}/\text{m}^3$
No. Days >50	0
90.4th %ile	16
No. Days Sampling	77



Legend

Sampling locations/ Type:

■ Dust Sampling Point



Do not scale; Indicative Only (NTS)

0 50 100 Metres

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 Note: Drawing is for illustrative purposes only
 Source: Kilsaran, flown 28/05/2016

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AWN Consulting Ltd
 The Tecpro Building,
 Clonsaugh Business & Technology Park
 Dublin 17,
 Tel: + 353 1 847 4220
 Fax: + 353 1 847 4257

CLIENT: Kilsaran Ballinclare, Co. Wicklow	PROJECT: Section 55 Dust Monitoring	DRAWN: P.G.	CHECKED: T.H.	APPROVED: T.H.	DATE: 28/09/2016
DRAWING TITLE: Dust Monitoring Locations	Project Ref: TH/16/9020SR01	Figure 1A		1	A3
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