ATTACHMENT F3 – SURFACE WATER MONITORING AND SAMPLING

Surface water sampling and testing will be undertaken as per the requirements of any waste licence issued by the EPA. Sample locations will likely include any temporary surface water ponds or features which may either be created or form naturally at low points within the application site.

Surface water sampling and testing will also be undertaken at the discharge point downstream of the proposed settlement ponds and silt trap / hydrocarbon interceptor to be installed at the infrastructure area and immediately upstream of the buried concrete pipe running to the local surface water drainage network which flows toward the tributary stream of the Killough River. The proposed surface water monitoring location at the application site is shown on Drawing F3-1.

It is envisaged that sampling and monitoring of the off-site discharge will continue for the duration of the proposed waste recovery activity and for a short time thereafter. Surface water samples will be tested for a wide range of physical and chemical parameters in order to assess its quality and detect possible contamination arising from the proposed waste recovery activities.

The proposed surface water monitoring locations are identified in Table F3-1 below.

Table F3-1
Surface Water Monitoring Points

Monitoring Reference No.	Parameter	Monitoring Frequency	Location (Grid Co-ordinates)[1]	Accessibility of Sampling Points
SW1	Note 2	Quarterly	722733E 713102N	Easy – at top of quarry void
SW2	Note 2	Quarterly	Not Fixed	Easy – sump in quarry floor

Note 1 : ITM Co-ordinates

Note 2 : Surface water test parameters to include Temperature, pH, Dissolved Oxygen, Conductivity, Sodium, Potassium, Chloride, Ammoniacal Nitrogen, Sulphate, Dissolved Metals (Ca, Cu, Fe, Pb, Mg, Mn, Ni and Zn) and Total Alkalinity

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N
W E
S

SW1

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NOTES

1. *'Orthomosaic produced from Aerial Photography flown **February 2015** by SLR Consulting Ireland (IAA Permit No. 04/2015) www.slrconsulting.com Tel. +353-1-2964667.*

Orthomosaic produced using Ground Control Points; Related to Irish Transverse Mercator Coordinate System and OS Malin Head Level Datum.

The accuracy of the orthomosaics and the digital elevation models (DEM) strongly depends on the flight height, lighting conditions, availability of textures, image quality, overlap, and type of terrain. Contours / 3D data relates to the surface model and not terrain levels. Typical accuracies: E: 0.05 m; N:0.05 m; Levels: 0.30 m.

All Dimensions and Levels are to be checked on site.

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LEGEND

ROADSTONE LIMITED LAND INTEREST (c.25.4 Hectares)

PLANNING APPLICATION AREA (c.9.1 Hectares)

SW1 SURFACE WATER MONITORING LOCATION

MONITORING POINT	EASTING	NORTHING
SW1	722733	713102

0 20 40 60 80m 120 160 200

Metres 1:2000

00180.00109.0.F3-1.SW Monitoring Locations.dwg

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ROADSTONE LIMITED
WASTE LICENCE APPLICATION

INERT SOIL WASTE RECOVERY FACILITY
CALARY QUARRY,
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SURFACE WATER MONITORING LOCATIONS

DRAWING F3-1

Scale	Date
1:2,000 @ A3	JUNE 2016

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