

**CONSENT NO: 68/12**

**FILE NO: TC 40/12**

**DEPARTMENT OF THE ENVIRONMENT**

**Water (Northern Ireland) Order 1999**

**Consent to Discharge of Effluent**

TO: Mr [REDACTED]  
Director  
Dalradian Gold Ltd  
3 Killybrack Road  
Killybrack Business Park  
Omagh  
Co Tyrone  
BT79 7DG

***The Department of the Environment in pursuance of the powers conferred on it by the Water (Northern Ireland) Order 1999 HEREBY CONSENTS to your making a discharge into the waterway at Irish Grid Reference H 5704 8671 in accordance with the application dated 06 March 2012 in respect of a discharge of site drainage arising from mineral exploration drilling in an existing underground adit at Curraghinalt, Gortin, Co Tyrone.***

***SUBJECT TO the following conditions:***

1. The effluent discharged to the waterway shall not:
  - a. contain suspended solids in excess of 50 milligrams per litre (measured after drying at 105<sup>0</sup>C);
  - b. have a biochemical oxygen demand in excess of 10 milligrams per litre (measured after 5 days at 20<sup>0</sup>C with nitrification suppressed by the addition of allyl-thiourea);
  - c. have a pH value less than 6 nor greater than 9;
  - d. contain any visible oil or grease;
  - e. contain any substance (other than as defined above) which will cause the waterway or water in an underground stratum to be toxic or injurious to fish or other aquatic organisms;

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- f. contain any substance (other than as defined above) to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters.
- g. sampling of the discharge shall be carried out monthly by the consent holder and reported to the Department quarterly. The sample shall be analysed for the parameters listed in condition 1 a – d. In addition the sample shall also be analysed for the parameters listed below. A sample shall also be taken immediately upstream and 5 metres downstream of the confluence of the field drain and the Curraghinalt Burn, and analysed on each occasion for the same parameters.
- i) total zinc
  - ii) dissolved chromium
  - iii) dissolved nickel
  - iv) dissolved arsenic
  - v) dissolved mercury
  - vi) dissolved cadmium
  - vii) dissolved iron
  - viii) dissolved lead
  - ix) total hardness as Ca Co<sub>3</sub>

Where levels of any of the substances listed in i-xv above are detected in a concentration likely to cause a breach of the Environmental Quality Standard (EQS) in the receiving water, then Action Plans to reduce the substances in question in the discharge must be developed and agreed with the Department.

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2. Facilities shall be available to ensure that a representative sample of the discharge can be obtained. The sampling point shall be located after the treatment system.
3. The sample point for this discharge shall be labelled and maintained so that it is freely available and accessible to authorised officers of the Department.
4. Authorised officers of the Department shall be allowed to readily and safely obtain a sample of the effluent, measurement of flow, images of discharge or other data relative to the discharge at all times.
5. The treatment system shall be maintained to ensure that the consent conditions are met at all times.
6. Under the requirements of the Control of Pollution (Oil Storage) Regulations (Northern Ireland) 2010 all oil storage must comply with the appropriate requirements as laid out in the regulations. Oil in the regulations is defined as "any kind of oil, including diesel, heating, waste, vegetable and plant oil". The only exemptions to the regulations are: (a) any property used mainly as a private dwelling if the storage capacity is 3500 litres or less, (b) any storage below 200 litres, (c) any storage on a farm regulated by COMAH or (e) any container wholly underground.
7. Bunds shall be provided around all chemical storage tanks to reduce the risk of pollution of waterways and groundwater from spillage or leakage.
8. The storage of any chemicals or dangerous substances not listed on the original consent application shall be notified immediately to the Department.
9. Any change of process, or introduction of new process chemicals not specified on the original consent application shall be notified immediately to the Department.
10. The discharge shall not cause any visible change to any part of the waterway either at the discharge point or at any point downstream.

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11. The person making the discharge to which this consent relates shall be responsible at all times for compliance with all consent conditions and payment of all annual charges.
12. Should the consent holder wish to transfer responsibility for this consent they must submit an application for transfer of ownership within 21 days of the transfer taking place.
13. If the consent holder intends to change anything at the site which will impact on the content of this consent and / or the composition or quality of the effluent then they must make application to the Department for review of this consent. Review application should be made no later than 4 months before the proposed changes will be carried out.

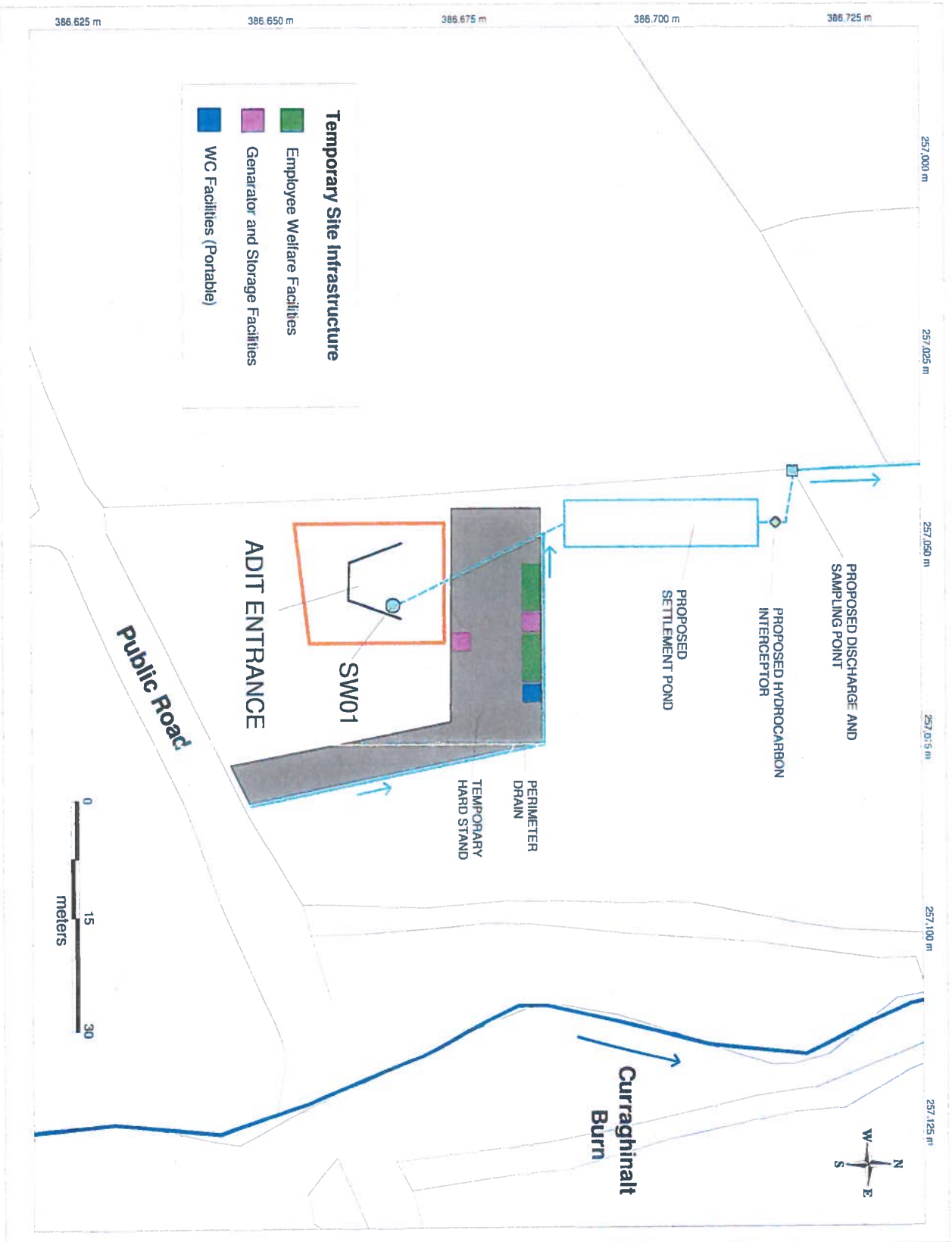
**INFORMATIVE**

This discharge consent may be reviewed at any time, if the area of discharge or any area downstream, has been, or becomes designated under the European Communities Nature Conservation (Natural Habitats etc) Regulations (Northern Ireland) 1995 or the consent conditions do not meet the requirements of any other European Community Directive.

**Dated this 2 day of July 2012**

**Northern Ireland Environment Agency  
Water Management Unit  
17 Antrim Road  
Lisburn  
Co Antrim  
BT28 3AL**

  
.....  
  
**AUTHORISED OFFICER**



**LEGEND**

- SURFACE WATER COURSE
- ADIT ENTRANCE AREA
- EXISTING ADIT DISCHARGE POINT AND SAMPLING LOCATION (SW01)
- EXISTING ADIT DISCHARGE PIPE (BORNEO)
- EXISTING ADIT DISCHARGE FIELD DRAIN
- PROPOSED SETTLEMENT POND
- PROPOSED HYDROCARBON INTERCEPTOR
- PROPOSED DISCHARGE AND SAMPLING POINT (DISCHARGE OF TREATED WATER FROM THE ADIT TO EXISTING FIELD DRAIN AND THEN TO THE CURRAGHNALT BURN)
- TEMPORARY HARD STAND/LAV DOWN AREA AND WELFARE FACILITIES AT ADIT ENTRANCE

**DEPARTMENT OF THE ENVIRONMENT**

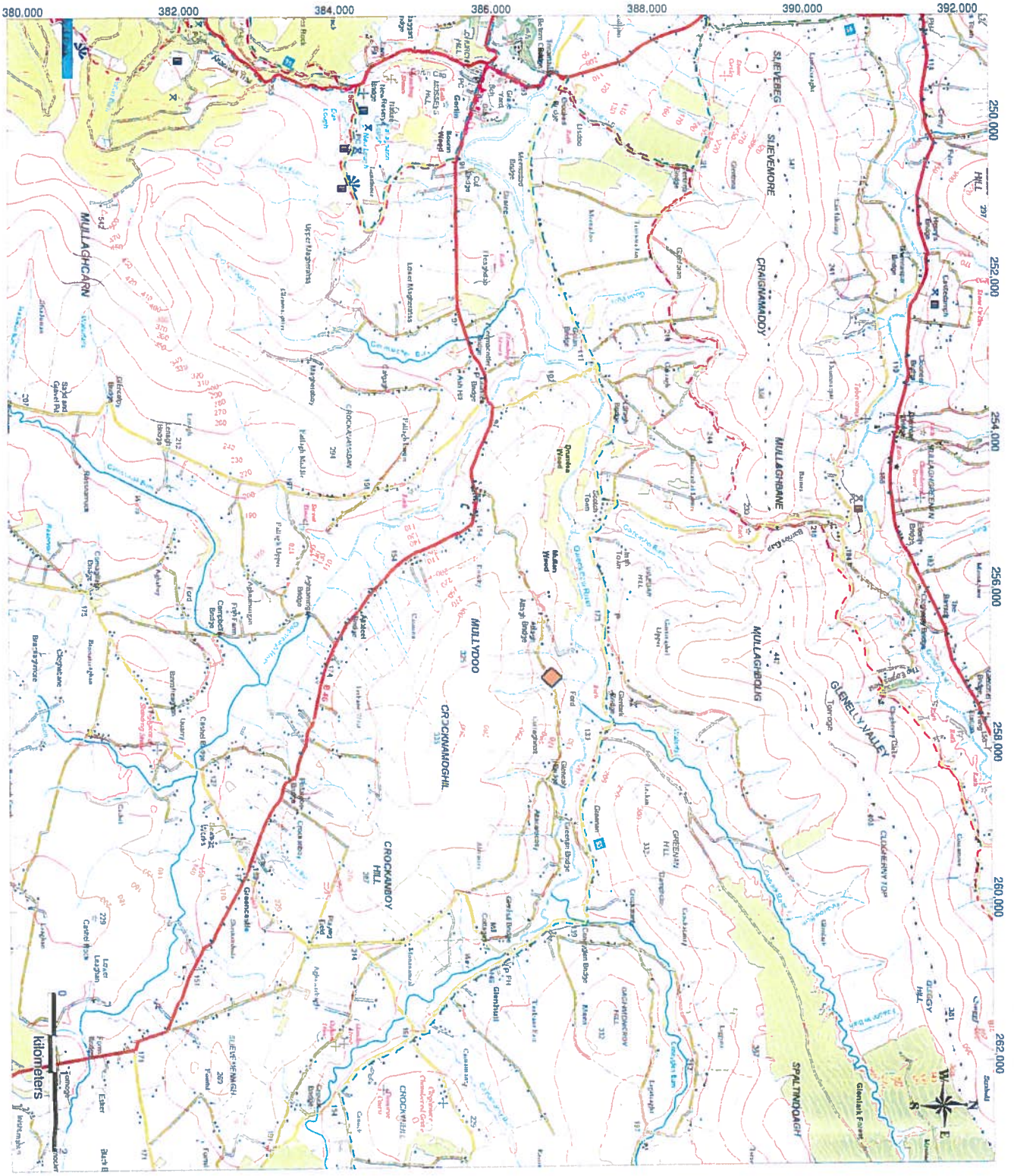
This is the map relating to 68112  
 consent no. 68112  
 Site granted under the Water (Miscellaneous) Order 1999  
 Signed *[Signature]* **Authorised Officer**  
 Help rendered by the Ordnance Survey with the permission of HMSO & Crown Copyright.

- Notes:**
1. Extract from OSNI 1:50k Raster Tiles 13, 14, 21 & 22.
  2. OSNI Licence No. 64421 (c) Crown Copyright

**DALRADIAN GOLD**

**SLR**  
 2 ABELTOWN MILL LANE  
 G2 DUNN, B128 6AW  
 F +44 (0) 1832 550010  
 www.slrconsulting.com

CURRAGHNALT GOLD PROJECT  
 ADIT DISCHARGE CONSENT APPLICATION  
 UNDERGROUND DRILLING  
 ADIT DRAINAGE INFRASTRUCTURE



**LEGEND**

◆ UNDERGROUND ADT ENTRANCE

◊ AT SURFACE

**DEPARTMENT OF THE ENVIRONMENT**

This is the map relating to consent no. 68/12

File 7c 4012

granted under the Water (Control) Act 1999

Signed [Signature] Authorised Officer

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**Notes**

1 Extract from OSNI 1:50K RAster

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**DALRADIAN GOLD**

**SLR**

31 BALI TRADING STREET  
 CO. DUBLIN 8 BT8 8AW  
 F +353 (0) 1 252 8812  
 www.slr.com

**CURRAGHINALLT GOLD PROJECT**

**ADT DISCHARGE CONSENT APPLICATION**

**ADT ENTRANCE LOCATION**

**FIGURE 1**

1:50,000 OMS

FEBRUARY 2012