

# TBR16 – Radon

## Curraghinalt, Gortin

December 2025

### Response to Transboundary Consultation Representations - [REDACTED] (Aurora)

Representation Ref	Comment/Issue	Addressed in applicant's submissions to date?	Applicant's Response
TBA0010; 0015; 0020; 0031; 0037; 0044; 0046; 0047; 0048; 0049; 0050; 0052; 0053; 0057; 0065; 0067; 0068; 0069; 0079; 0082; 0086; 0100; 0112; 0115; 0129; 0135; 0137; 0149; 0155; 0157; 0164; 0176; 0185; 0187; 0192; 0200; 0205; 0209; 0213; 0216; 0222; 0233; 0235; 0244; 0247; 0251; 0256; 0263; 0273; 0277; 0278; 0280; 0282; 0285; 0286; 0291; 0292; 0294; 0297; 0298; 0299; 0305; 0311; 0324; 0325; 0331; 0348; 0356; 0365; 0370; 0375; 0376; 0377; 0380; 0384; 0390; 0407; 0417; 0428; 0429; 0434; 0439; 0442; 0448; 0450; 0456; 0477; 0481; 0483; 0486; 0491; 0492; 0509; 0514; 0518;	The North West of Ireland is high in radon gas - Yes if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian's proposed mine 900+ metres deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.		See Mine SoC Technical Report 16 - NORM and Radon Gas for the Curraghinalt Project Ref: AHP/DAL/REP/24/01, Page 18 Section 7.2 Mine Rebuttal RR16 Radon and NORM – Curraghinalt Project Ref: AHP/DAL/REP/24/02, Page 8 Section 3.1 Mine Rebuttal RR16 Radon and NORM – Curraghinalt Project AHP/DAL/REP/24/03, Page 10 Section 3.1

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0523; 0524; 0528; 0532; 0537; 0538;  
0540; 0543; 0544; 0546; 0550; 0556;  
0560; 0574; 0578; 0588; 0607; 0614;  
0619; 0625; 0640; 0647; 0651; 0656;  
0662; 0666; 0670; 0671; 0676; 0681;  
0692; 0697; 0699; 0706; 0712; 0717;  
0720; 0728; 0730; 0740; 0762; 0766;  
0785; 0786; 0787; 0791; 0795; 0798;  
0801; 0805; 0813; 0816; 0817; 0820;  
0825; 0830; 0831; 0833; 0838; 0841;  
0847; 0850; 0852; 0875; 0877; 0881;  
0885; 0893; 0894; 0898; 0905; 0907;  
0910; 0911; 0914; 0917; 0922; 0932;  
0935; 0948; 0950; 0954; 0958; 0963;  
0965; 0966; 0970; 0978; 0979; 0984;  
0993; 0997; 1002; 1010; 1023; 1031;  
1039; 1049; 1056; 1072; 1075; 1077;  
1081; 1089; 1096; 1101; 1107; 1117;  
1122; 1126; 1130; 1140; 1147; 1149;  
1153; 1158; 1164; 1167; 1173; 1180;  
1185; 1189; 1194; 1204; 1207; 1222;  
1226; 1227; 1230; 1243; 1245; 1253;  
1255; 1258; 1259; 1261; 1264; 1266;  
1267; 1269; 1271; 1281; 1287; 1289;  
1300; 1304; 1308; 1312; 1318; 1322;  
1327; 1331; 1332; 1335; 1338; 1344;  
1352; 1358; 1359; 1363; 1365; 1369;  
1378; 1381; 1382; 1384; 1391; 1392;  
1394; 1401; 1415; 1421; 1432; 1440;  
1446; 1452; 1457; 1472; 1480; 1481;  
1482; 1485; 1491; 1507; 1515; 1520;  
1540; 1541; 1556; 1563; 1573; 1574; &  
1591 – Pg. 1

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TBA0412 – Pg. 1

Radon gas diesel fumes and arsenic can  
contaminate the air we breathe causing multiple  
health issues.

Yes

See Column 4 Applicants Response to:  
Sample Objection Letter 2 – pg. 1 above

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TBA0596 – Pg. 1	The North West of Ireland is high in radon gas - if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian's proposed mine 900+ metres deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
Pg. 2-3	Dalradian site is 30km from parts of Donegal so all the poisonous contaminants from the waste dust, explosives, radon gas and diesel emissions can be easily transported by air.	No	<p>The assertion that Radon discharged from the mine can be transported by air and could present a hazard 30km away is incorrect.</p> <p>When radon is deliberately discharged to atmosphere this will usually be as an established and effective control measure to reduce radon in air concentrations in a space occupied by humans. The discharged radon will mix with the surrounding air and will be rapidly dispersed. This means that the discharged radon in air concentrations around the discharge point will reduce to ambient outdoor background levels within a short distance from the discharge point.</p> <p>For the Exploratory mine this reduction to background levels will typically occur within 40 to 50m. This reduction in radon in air concentrations will occur for all radon discharges from a radon protected structure including those discharges from domestic dwellings, retail, commercial and industrial buildings.</p> <p>Radon in air concentrations from any proposed mine discharge will not present a hazard to members of the public regardless of where they live.</p> <p>See Mine SOC Technical Report 16 - NORM and Radon Gas for the Curraghinalt Project Ref: AHP/DAL/REP/24/01, Appendix 2 to Technical Report, Material Representations.</p>

			See Response for Radon in the table on Pages 55 and 56. Paragraphs 6, 7 & 8 are particularly relevant to discharged radon.
TBA1247 - Progressive Politics NI – Pg. 2	Radon gas proliferates in the ground beneath the North West of Ireland. This gas is radioactive and toxic to human life. Already, it is standard practice to reinforce the foundations of buildings to prevent exposing radon gas to the air. Dalradian mining project would excavate hundreds of metres below the surface. We have seen no plan to contain or ameliorate the pollution of air by radon gas unearthed by their mining project.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1494 – Pg. 9	The North West of Ireland is high in radon gas - if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian’s proposed mine 900+ metres deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1495 – Pg. 3	There is a risk that the development would release significantly more radon gas which poses significant health implications.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1496 – Pg. 17-18	The North West of Ireland is high in radon gas - if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian’s proposed mine 900+ metres deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1539 - Save our Sperrins 6	pg. The North West of Ireland is high in radon gas - if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian’s proposed mine 900+ metres	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above

	deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.		
TBA1564 - Ecojustice Ireland – Pg. 4	Radon gas may be released by the mine causing radioactive contaminants in the air.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1581 - Jesuit Centre for Faith & Justice – Pg. 2- 3	The North West of Ireland is high in radon gas - if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian’s proposed mine 900+ metres deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1583 - Rights of Nature Donegal – Pg. 5	Given that the rock in this region is high in radon content, mining 900m or more as indicated in the proposals would quite conceivably release radioactive contaminants into the air.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1584 – Pg. 2	The North West of Ireland is high in radon gas - if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian’s proposed mine 900+ metres deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1585 – Pg. 13	The North West of Ireland is high in radon gas - if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian’s proposed mine 900+ metres deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above

TBA1597 - Ireland's Think-tank for Action on Social Change – Pg. 6	The North West of Ireland is high in radon gas - if a person is building a house, he is required to put a barrier in the foundations to prevent radon gas exposure. Dalradian's proposed mine 900+ metres deep would release significantly more radioactive contaminants into the air. The link between radon gas and lung cancer is well established, according to the World Health Organisation.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA0594 – Pg. 1	Dust from the mine could blow across the border, spreading harmful substances like arsenic. Diesel fumes and radon gas from mining will damage air quality and increase health risks, especially for children and older people.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1576 - Save Inis Eoghain Pg. 7	- Given that the rock in this region is high in radon content, mining 900m or more as indicated in the proposals would quite conceivably release radioactive contaminants into the air.	Yes	See Column 4 Applicants Response to: Sample Objection Letter 2 – pg. 1 above
TBA1514 – Pg. 11	Naturally occurring radioactive material	Yes	See Mine SoC Technical Report 16 - NORM and Radon Gas for the Curraghinalt Project Ref: AHP/DAL/REP/24/01. The entire report is relevant in answering the assertions made. However, in particular for NORM see: page 17 Section 7.1, page 22 Section 9.1, page 22 Section 9.2, page 24 Section 13 and page 24 Section 14.1.
Pg. 12	Radon	Yes	See Mine SoC Technical Report 16- NORM and Radon Gas for the Curraghinalt Project Ref: AHP/DAL/REP/24/01. The entire report is relevant in answering the assertions made. However, in particular for RADON see: page 18 Section 7.2, page 22 Section 9.3, page 24 Section 13 and page 25 Section 14.2