

**Onshore Transmission Infrastructure Environmental Impact Assessment (EIA)**

Moray Offshore Windfarm (West) Limited

**Technical Appendix 5.3: Detailed Hydrological and Hydrogeological Information**

Table of Contents

[1 Introduction 1](#_Toc519502007)

[1.1 Purpose of this Report 1](#_Toc519502008)

[2 Detailed Baseline Results 1](#_Toc519502009)

[2.1 Water Framework Directive Classifications 1](#_Toc519502010)

[2.2 Water Resources 2](#_Toc519502011)

[2.2.1 Private Water Supplies 2](#_Toc519502012)

[2.2.2 Licensed Discharges 7](#_Toc519502013)

[3 References 10](#_Toc519502014)

List of Tables

[Table 2.1: Detailed WFD Baseline Information 1](#_Toc519502015)

[Table 2.2: Private Water Supply Abstractions Within Hydrological and Hydrogeological Study Area 3](#_Toc519502016)

[Table 2.3: Licensed Discharges within PAB 7](#_Toc519502017)

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| Acronyms | |
| --- | --- |
| Acronym | Expanded Term |

|  |  |
| --- | --- |
| AC | Aberdeenshire Council |
| EIA | Environmental Impact Assessment |
| MC | Moray Council |
| OnTI | Moray West Onshore Transmission Works |
| PAB | Planning Application Boundary |
| PWS | Private Water Supply |
| SEPA | Scottish Environment Protection Agency |
| WFD | Water Framework Directive |

# Introduction

## Purpose of this Report

As part of the works undertaken in support of the Moray West Onshore Transmission Infrastructure (OnTI) Environmental Impact Assessment (EIA), this technical appendix presents detailed results of the desktop studies to establish the existing baseline hydrological and hydrogeological conditions within the study area. The detailed information presented on Water Framework Directive (WFD) Classifications and Water Resources within this report informs the summary baseline information and the assessment of potential and residual effects in Chapter 5: Hydrology, Hydrogeology and Geology of the EIA Report. Background information on the approach to the assessment, including study area and data gathering methodologies, are also presented in Chapter 5 of the EIA Report for reference.

# Detailed Baseline Results

## Water Framework Directive Classifications

Across the study area there are 10 WFD waterbodies, comprising seven rivers and three groundwater waterbodies. Six waterbodies are assessed as being of Moderate or worse status overall, while four are assessed as being of Good overall status (Scottish Environment Protection Agency [SEPA], 2017). Table 2.1 below presents detailed information on the WFD condition, the future objectives and associated mitigation measures for each of these 10 waterbodies.

| Table 2.1: Detailed WFD Baseline Information | | | | | |
| --- | --- | --- | --- | --- | --- |
| Waterbody (WFD ID) | Waterbody Type | 2015 Condition | Reasons for Failure to Meet Good Status | Overall Objective | Type of Mitigation Measures Anticipated |
| Deskford Burn (23050) | River | Overall – Moderate (physical condition – Good; water quality – High; water flows and levels – High; and ecological condition – Moderate). | Fish populations in the waterbody may not be in a Good condition. SEPA has not been able to identify the contributing cause. | Good status by 2027. | To be determined. |
| Fordyce Burn (23052) | River | Overall – Moderate (physical condition – Good; water flows and levels – Moderate; and water quality – Moderate). | Water flows and levels – Water abstraction from agricultural irrigation.  Water quality – Nutrient pollution. Diffuse sources of pollution from rural sources and point source discharges from waste water (sewage) disposal. | Good status after 2027 (long term recovery of the waterbody from the impact of nutrient pollution is not expected until after 2027). | Water flows and levels – Agricultural irrigation regulation enforced by SEPA.  Water quality – Diffuse sources. Catchment action programme is being undertaken by SEPA and land managers.  Water quality – Point source discharges. Waste water sewage regulation is being enforced by SEPA / Scottish Water. |
| Burn of Paithnick (23175) | River | Overall – Bad (physical condition – Bad; water flows and levels – High; and water quality – Good). | Physical condition – Modifications to bed, banks and shores due to urban and rural land uses. | Good status by 2027. | Partnership between land managers, local communities and SEPA is working to re-design and improve the physical condition of this waterbody. |
| River Isla – Keith to Shiel Burn (23179) | River | Overall – Bad (physical condition – Bad; water flows and levels – High; and water quality – Moderate). | Physical condition – Modifications to bed, banks and shores due to urban and rural land uses.  Water quality – No pressures identified. Nutrient levels are not affecting ecology and action is not required. | Good status after 2027 (disproportionately expensive to address water quality objective until after 2027). | Partnership between land managers, local communities and SEPA is working to re-design and improve the physical condition of this waterbody. |
| River Isla – Source to Keith (23181) | River | Overall – Poor (physical condition – Poor; water flows and levels – Good; and water quality – Good). | Physical condition – Modifications to bed, banks and shores due to urban and rural land uses. | Good status by 2027. | Partnership between land managers, local communities and SEPA is working to re-design and improve the physical condition of this waterbody. |
| Burn of Drum (23177) | River | Overall – Good (physical condition – Good; water flows and levels – Good; and water quality – Good). | N/A already at Good status or above. | N/A already at Good status or above. | N/A |
| Cairnie Burn (23172) | River | Overall – Good (physical condition – Good; water flows and levels – High; and water quality – Good). | N/A already at Good status or above. | N/A already at Good status or above. | N/A |
| Cullen (150501) | Groundwater | Overall – Poor (water flows and levels – Good; and water quality – Poor). | Water quality – Diffuse sources of pollution from rural sources. | Good status after 2027 (rate limiting natural conditions mean that it will take longer for quantities of nitrates already in soil, subsoil and groundwater to reduce to the extent required to achieve good status). | Nitrate vulnerable zone action with land managers and public bodies working together. |
| Banff (150632) | Groundwater | Overall – Good (water flows and levels – Good; and water quality – Good). | N/A already at Good status or above. | N/A already at Good status or above. | N/A |
| Keith (150656) | Groundwater | Overall – Good (water flows and levels – Good; and water quality – Good). | N/A already at Good status or above. | N/A already at Good status or above. | N/A |

## Water Resources

### Private Water Supplies

A total of 53 PWSs were identified within the study area, comprising 37 within the Moray Council (MC) area and 16 within the Aberdeenshire Council (AC) area, as shown in Figure 5.3.2 of the EIA Report. Each of these PWS are registered as being type B, which are defined as being supplies only serving domestic premises with less than 50 persons supplied. AC provided a list of registered users though were not able to confirm the type or exact location of source supply. From the 53 PWSs identified in Table 2.2 below, 39 are assessed as having a potential hydrological or hydrogeological connection to the PAB. The other 14 are assessed as not being connected and therefore have been scoped out of the assessment in Chapter 5: Hydrology, Hydrogeology and Geology of the EIA Report.

| Table 2.2: Private Water Supply Abstractions Within Hydrological and Hydrogeological Study Area | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Figure PWS Ref | Supply Reference (Council) | Discharge Operator and Location | Type of PWS | PWS Purpose | Sub Catchment | Distance Between Source and PAB | Potential Connection to PAB? |
| PWS1 | PWS/N/0052 (Aberdeenshire) | 1 / 2 / 3 / 4 / 5 / 7 / 10 Glenglassaugh Distillery Cottage, Aberdeenshire, AB45 2SQ. | Unknown | Type B | Burn of Fordyce | Situated downstream and adjacent to the PAB | Yes |
| PWS2 | PWS/N/1175 (Aberdeenshire) | 8 Glenglassaugh Distillery Cottage, Aberdeenshire, AB45 2SQ. | Unknown | Type B | Burn of Fordyce | Situated downstream and adjacent to the PAB | Yes |
| PWS3 | PWS/N/2394 (Aberdeenshire) | The Brae, Fordyce, Aberdeenshire, AB25 2SJ. | Borehole | Type B | Burn of Fordyce | 180 m and upgradient to the east of PAB. | No |
| PWS4 | PWS/N/2859 (Aberdeenshire) | The Brae Steading, Fordyce, Aberdeenshire, AB45 2SJ. | Borehole | Type B | Burn of Fordyce | 185 m and upgradient to the east of PAB. | No |
| PWS5 | PWS/N/1183 (Aberdeenshire) | Hallyards, Fordyce, Aberdeenshire, AB25 2UR. | Unknown | Type B | Burn of Fordyce | Situated within PAB. | Yes |
| PWS6 | PWS/N/1147 (Aberdeenshire) | Newpark, Fordyce, Aberdeenshire, AB25 2UR. | Unknown | Type B | Burn of Fordyce | Situated within PAB. | Yes |
| PWS7 | PWS/N/0913 (Aberdeenshire) | Breach, Fordyce, Aberdeenshire, AB45 2UR. | Unknown | Type B | Burn of Fordyce | Situated within PAB. | Yes |
| PWS8 | PWS/N/1150 (Aberdeenshire) | Parklea Newton, Fordyce, Aberdeenshire, AB45 2UT. | Unknown | Type B | Burn of Fordyce | Situated within PAB. | Yes |
| PWS9 | PWS – 6231 (Aberdeenshire) | Newton Cottage, Fordyce, Aberdeenshire, AB45 2UT. | Unknown | Type B | Burn of Fordyce | Situated within PAB. | Yes |
| PWS10 | PWS/N/2242 (Aberdeenshire) | Newton, Fordyce, Aberdeenshire, AB45 2UT. | Unknown | Type B | Burn of Fordyce | Situated within PAB. | Yes |
| PWS11 | PWS/N/1190 (Aberdeenshire) | Mains of Birkenbog, Fordyce, Aberdeenshire, AB56 4TN. | Unknown | Type B | Scattery Burn | 450 m to the west of the PAB on the opposite side of a ridge which forms a topographic divide. | No |
| PWS12 | PWS/N/0910 (Aberdeenshire) | Cotton Croft, Fordyce, Aberdeenshire, AB45 2XR. | Unknown | Type B | Burn of Fordyce | 550 m to the east on the other side of the catchment divide. | No |
| PWS13 | Null (Aberdeenshire) | Cairnton, Fordyce, Aberdeenshire, AB45 2XS. | Unknown | Type B | Burn of Fordyce | Situated adjacent to the PAB. | Yes |
| PWS14 | PWS/N/0908 (Aberdeenshire) | Clashdamer, Fordyce, Aberdeenshire, AB45 2US. | Unknown | Type B | Burn of Fordyce | Situated within PAB. | Yes |
| PWS15 | PWS/N/0430 (Aberdeenshire) | Viewfield, Fordyce, Aberdeenshire, AB45 2US. | Spring | Type B | Burn of Fordyce | Situated within PAB. | Yes |
| PWS16 | PWS/N/0938 (Aberdeenshire) | Berryleys, Fordyce, Aberdeenshire, AB45 2US. | Unknown | Type B | Burn of Fordyce | Situated150 m upgradient from the PAB. | No |
| PWS17 | 07/00290/SPRING (Moray) | Meikle Knowes, Deskford, Buckie, Moray, AB56 5TX. | Spring | Type B Domestic | Burn of Deskford | Situated within PAB. | Yes |
| PWS18 | 07/00121/SPRING (Moray) | Kirkton Farm, Kirkton, Deskford, Buckie, Moray, AB56 5UA. | Spring | Type B Domestic | Burn of Deskford | 750 m and downgradient to the west of PAB crossing of the Alton Burn. | Yes |
| PWS19 | 07/00286/SPRING (Moray) | Moss-side, Deskford, Buckie, Moray, AB56 5XX. | Spring | Type B Domestic | Burn of Deskford | 1.8 km to the west and on the other side of Burn of Deskford and Moss-side Burn from PAB. | No |
| PWS20 | 07/00119/RUNOFF (Moray) | Lower Craibstone Cottage, Deskford, Buckie, Moray, AB56 5UP. | Surface Water | Type B Domestic | Burn of Deskford | Situated within PAB. | Yes |
| PWS21 | 07/00288/SPRING (Moray) | Craibstone Farm, Deskford, Buckie, Moray, AB56 5UP. | Spring | Type B Domestic | Burn of Deskford | Situated within PAB. | Yes |
| PWS22 | 07/00201/RUNOFF (Moray) | Netherton of Overwindyhills / Easter Windyhills, Crossroads, Keith, Moray, AB55 6NL. | Surface Water | Domestic Type B | Burn of Paithnick | Situated within PAB. | Yes |
| PWS23 | 07/00203/BOREHO (Moray) | Wester Windyhills, Crossroads, Keith, Moray, AB55 6NL. | Borehole | Domestic Type B | Burn of Paithnick | 200 m to the west and upgradient of the PAB. | No |
| PWS24 | 06/00109/SPRING (Moray) | Myreton Crossroads, Keith, Moray, AB55 6NJ. | Spring | Domestic Type B | Burn of Paithnick | 40 m to the east and upgradient of PAB. | Yes |
| PWS25 | 16/00001/WELL (Moray) | Goukstone Croft, Grange, Crossroads, Keith, Moray, AB55 6NJ. | Well | Domestic Type B | Burn of Paithnick | 830m to the west and on the opposite side of Burn of Paithnick valley. | No |
| PWS26 | 06/00077/WELL (Moray) | Burnside Mill, Grange, Keith, Moray, AB55 6ND. | Well | Domestic Type B | Burn of Paithnick | Situated 60 m to the west and downgradient of PAB. | Yes |
| PWS27 | 06/00091/BOREHO (Moray) | Balnamoon, Crossroads, Keith, Moray. | Borehole | Domestic Type B | Burn of Paithnick | 140 m to the west and upgradient of Bowie Burn tributary crossing of the PAB. | No |
| PWS28 | 07/00070/SPRING (Moray) | Croftgibb / Craeburn / Greenbog, Old Post Office, Grange Crossroads, Keith, Moray, AB55 6LX. | Spring | Domestic Type B | Burn of Paithnick | 95 m to the west and downgradient of the PAB. | Yes |
| PWS29 | 07/00234/WELL (Moray) | Hillside, Crossroads, Keith, Moray, AB55 6LU. | Spring | Domestic Type B | Burn of Paithnick | 760 m to the west and upgradient of PAB. | No |
| PWS30 | 07/00209/SPRING (Moray) | Silverhillock / Sunnyside, Grange Crossroads, Keith, Moray, AB55 6LR. | Spring | Domestic Type B | Burn of Paithnick | 600 m to the west and upgradient of PAB. | No |
| PWS31 | 09/00014/SPRING (Moray) | Little Cantly, Grange, Keith, Moray. | Spring | Domestic Type B | Burn of Ardrone | Situated within PAB. | Yes |
| PWS32 | 07/00200/WELL (Moray) | Cantly Croft, Grange, Keith, Moray, AB55 6LJ. | Well | Domestic Type B | Burn of Ardrone | Situated south east and 110 m upgradient of PAB. | No |
| PWS33 | 06/00057/RUNOFF (Moray) | Ardroyne Croft, Keith, Moray, AB55 5NQ. | Surface Water | Domestic Type B | Burn of Drum | 150 m to the west and upstream of PAB, but infrastructure may cross it. | Yes |
| PWS34 | 06/00055/SPRING (Moray) | Little Ardrone / 5 Drum Cottages /3 Drum Cottages, Keith, Moray, AB55 5NP. | Spring | Domestic Type B | Burn of Drum | 260 m to the east and upgradient of PAB but infrastructure may cross it. | Yes |
| PWS35 | 07/00017/SPRING (Moray) | Auchoynanie, Keith, Moray, AB55 5NT. | Spring | Domestic Type B | Burn of Drum | 420 m to the east and upgradient of PAB but infrastructure may cross it. | Yes |
| PWS36 | 07/00115/SPRING (Moray) | Greenwood House, Keith, Moray. | Spring | Domestic Type B | Burn of Drum | Situated within PAB. | Yes |
| PWS37 | 07/00034/SPRING (Moray) | Birkenburn Farm House / East View / Woodland Cottage / Birkenburn Cottage, Keith, Moray, AB55 3PD. | Spring | Domestic Type B | Burn of Drum | 80 m to the west and upstream of PAB, but infrastructure may cross it. | Yes |
| PWS38 | 07/00032/SPRING (Moray) | Newtack, Keith, Moray, AB55 5PH. | Spring | Domestic Type B | Burn of Drum | Situated within PAB. | Yes |
| PWS39 | 06/00043/SPRING (Moray) | Marypark, Keith, Moray, AB55 5PE. | Spring | Domestic Type B | Burn of Drum | Situated within PAB. | Yes |
| PWS40 | 07/00227/SPRING (Moray) | North Whiteley, Keith, AB55 5PE. | Spring | Domestic Type B | Burn of Drum | Situated within PAB. | Yes |
| PWS41 | PWS-G2977 (Aberdeenshire) | Brodie Cottage, Cairnie, Huntly, Aberdeenshire, AB54 4UA. | Well | Domestic Type B | Unnamed tributary of Burn of Cairnie | 100 m to the west and downgradient of PAB. | Yes |
| PWS42 | PWS-G3000 (Aberdeenshire) | Brodie Cottage / Caravan Brodie Cottage, Cairnie, Aberdeenshire, Huntly. | Unknown | Domestic Type B | Unnamed Tributary of Burn of Cairnie | 110 m to the east and downgradient of PAB. | Yes |
| PWS43 | 07/00029/SPRING  (Moray) | Whitehillock, Keith, Moray, AB55 5PH. | Spring | Domestic Type B | Unnamed tributary of Burn of Cairnie | 100 m to the south and downgradient of PAB. | Yes |
| PWS44 | 07/00164/SPRING (Moray) | Blackhillock, Croft, Keith, Moray, AB55 5NY. | Spring | Domestic Type B | Unnamed Tributary of River Isla at Auchorties | Situated within PAB. | Yes |
| PWS45 | 07/00127/SPRING (Moray) | Greens of Auchorties, Keith, Moray, AB55 5NY. | Spring | Domestic Type B | Unnamed Tributary of River Isla | Situated within PAB. | Yes |
| PWS46 | 06/00372/SPRING (Moray) | Auchorties, Keith, Moray, AB55 5NY. | Domestic Type B | Spring | Unnamed Tributary of River Isla at Auchorties | Situated within PAB. | Yes |
| PWS47 | 07/00228/SPRING (Moray) | Springbank, Denwell Road, Keith, Moray, AB55 5NY. | Domestic Type B | Spring | Unnamed Tributary of River Isla at Auchorties | 440 m to the north west and downgradient of PAB. | Yes |
| PWS48 | 07/00161/WELL (Moray) | Braehead Farm, Keith, Moray, AB55 5NU. | Domestic Type B | Well | Unnamed Tributary of River Isla at Auchorties | 870 m to the north west and downgradient of PAB. | Yes |
| PWS49 | 07/00125/SPRING (Moray) | Meikle Cantly, Grange, Keith, Moray, AB55 6LJ | Domestic Type B | Spring | Unnamed Tributary of River Isla, Gardenhead | 400 m south east and upgradient of PAB. | No |
| PWS50 | 06/00083/BOREHO (Moray) | Gardenhead Grange Keith Moray, AB55 6LJ | Domestic Type B | Borehole | Unnamed Tributary of River Isla, Gardenhead | Adjacent to the south of the PAB. | Yes |
| PWS51 | 15/00012/BOREHO (Moray) | Gardenhead Croft, Grange, Keith, Moray, AB55 6LJ | Domestic Type B | Borehole | Unnamed Tributary of River Isla, Gardenhead | 140 m south east and upgradient of PAB. | No |
| PWS52 | 06/00001/SPRING (Moray) | Haughs Of Grange, Grange, Keith, AB55 6SD | Domestic Type B | Spring | River Isla | 750 m east and downgradient of PAB. | Yes |
| PWS53 | 09/00011/SPRING (Moray) | Thornton Croft, Grange, Keith, Moray, AB55 6SB | Domestic Type B | Spring | Unnamed Tributary of River Isla, Thornton | 245 m and downgradient of PAB. | Yes |

### Licensed Discharges

An Envirocheck report has identified a list of 38 SEPA licensed discharges which are situated within the Planning Application Boundary (PAB) (Landmark, 2017 and 2018). Table 2.3 provides details of each of these licensed discharges within the PAB and Figure 5.3.1 of the EIA Report shows their respective locations.

| Table 2.3: Licensed Discharges within PAB | | | | | |
| --- | --- | --- | --- | --- | --- |
| Licensed Discharge Figure Reference | SEPA Licensed Discharge Reference | Licensed Discharge Operator and Address | Type of Discharge | Receiving Water Environment | Sub Catchment |
| LD1 | B/94/18/U | Mr Stuart Gauld, New House, Linkbraeheads Farm, Portsoy. | Sewerage discharge | Groundwater | Scattery Burn |
| LD2 | B/67/46 | W A Reid, Potterstown, Fordyce. | Sewerage discharge | Freshwater stream / river | Scattery Burn |
| LD3 | B/89/19 | Mr and Mrs Mair, New House Muirfield, Fordyce. | Sewerage discharge | Groundwater | Scattery Burn |
| LD4 | B/92/27/U | Mr R Farquhar, Muirfield Cottage, Fordyce. | Sewerage discharge | Groundwater | Scattery Burn |
| LD5 | B/88/3 | Mr A W Spearing Michael G Boyd, New House, Glassaugh Lodge, Portsoy | Septic Tank | Groundwater/ Freshwater Stream/ River | Burn of Fordyce |
| LD6 | B/81/1(R) | Grampian Regional Council, Fordyce Sewage Treatment Works | Sewerage Discharge | Freshwater Stream/River | Burn of Fordyce |
| LD7 | B/67/43  B/67/44  B/67/45 | E T Chalmers, Hallyards, Fordyce. | Agricultural and sewerage discharge, septic tank | Freshwater stream / river | Burn of Fordyce |
| LD8 | B/88/6 | Mr and Mrs G Mair, New House, Hallyards, Fordyce, Banff. | Sewerage discharge | Freshwater stream / river | Burn of Fordyce |
| LD9 | B/73/9  B/73/8 | J Stewart & Sons, Cultain, Fordyce. | Agricultural and sewerage discharge | Freshwater stream / river | Burn of Fordyce |
| LD10 | B/68/4  B/68/5 | J & E Lowrie,  Newton, Fordyce | Septic tank, agricultural discharge | Freshwater stream/river | Burn of Fordyce |
| LD11 | B/73/72  B/73/73 | C and G Stewart, Little Knows Farm, Deskford, Cullen. | Trade (swimming pool contents) and agricultural discharge | Freshwater stream / river | Burn of Deskford |
| LD12 | B/68/11  B/68/10 | F Ewan  Croftgloy  Deskford  Cullen | Agricultural discharge and septic tank | Freshwater stream/ river | Burn of Deskford |
| LD13 | B/73/61  B/73/60  B/73/59  B/73/58 | J & D Bruce  Broadrashes  Deskford  Cullen | Agricultural discharge and septic tank | Freshwater stream/ river | Burn of Deskford |
| LD14 | B/73/65  B/73/66 | W Fordyce, Mid Skeith, Deskford. | Agricultural and sewerage Discharge | Freshwater stream / river | Burn of Deskford |
| LD15 | B/68/31 | J Milton  Craibstone  Deskford  Cullen | Septic tank | Freshwater stream/river | Burn of Deskford |
| LD16 | D/90/77 | Mr David Sclater, New Dwelinghouse, Goukstone, Grange, Keith. | Sewerage discharge | Groundwater | Burn of Paithnick |
| LD17 | D/72/30  D/72/29 | W Wilson  Goukstone  Grange Crossroads  Keith | Agricultural and sewerage discharge | Freshwater stream/ river | Burn of Paithnick |
| LD18 | D/72/23  D/72/24 | K C Bowie, Burnend, Grange, Keith. | Agricultural and sewerage discharge | Freshwater stream / river | Burn of Paithnick |
| LD19 | D/91/103/U | Mr M Letham, Dwellinghouse, Newton Of Balnamoon, Grange | Septic Tank | Groundwater | Burn of Paithnick |
| LD20 | D/90/4  D/90/1 | Mr J Bliss, Dwellinghouse / Furniture Production Factory, The Smithy, Grange. | Sewerage discharge | Groundwater | Burn of Paithnick |
| LD21 | D/86/11 | Innes Clarke, New House At Crannoch, Grange | Septic tank | Ditch | Burn of Paithnick |
| LD22 | D/89/71 | John C Whyte, Mid Paithnick, Crossroads, Grange. | Sewerage discharge | Freshwater stream / river | Burn of Paithnick |
| LD23 | D/92/83/U | Mr & Mrs I Legge, New House, Bearhill | Septic tank | Groundwater | Burn of Paithnick |
| LD24 | D/92/82/S | Mr K Mintern, Dwellinghouse, Cantly Croft, | Septic tank | Freshwater stream/ river | Burn of Ardrone |
| LD25 | D/93/78/U | William R Simmers, Engineering Workshop and Offices. | Sewerage discharge | Not specified | Burn of Drum |
| LD26 | D/71/23 | Banff County Council, Backmuir Council Houses, Keith | Septic tank | Freshwater stream/ river | Burn of Drum |
| LD27 | D/70/35  D/70/36 | J M Watt, Netherton, Keith | Septic tank and agricultural discharge | Freshwater stream/ river | Burn of Drum |
| LD28 | D/69/25  D/69/27  D/69/26 | R M Robertson, Greenwood, Keith. | Sewerage and agricultural discharge | Freshwater stream / river | Burn of Drum |
| LD29 | D/69/9  D/69/8 | W Milne and Son, Newtack, Keith. | Sewerage and agricultural discharge | Freshwater stream / river | Burn of Drum |
| LD30 | D/69/10  D/69/11 | R C Geddes, Marypark, Keith. | Agricultural and sewerage discharge | Freshwater stream / river | Burn of Drum |
| LD31 | D/69/6  D/69/7 | C and C A Bain, North Whiteley, Keith. | Agricultural sewerage discharge | Freshwater stream / river | Burn of Drum |
| LD32 | D/86/26 | Miss E Sandford, House At Greens Of Auchorties, Blackhillock, Keith | Septic tank | Freshwater stream/ river | Burn of Drum |
| LD33 | B/91/15/U | Mr & Mrs J Mcvean, New House|Rathven School, Rathven, Buckie | Septic tank | Groundwater | Unnamed tributary of Burn of Cairnie |

# References

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