

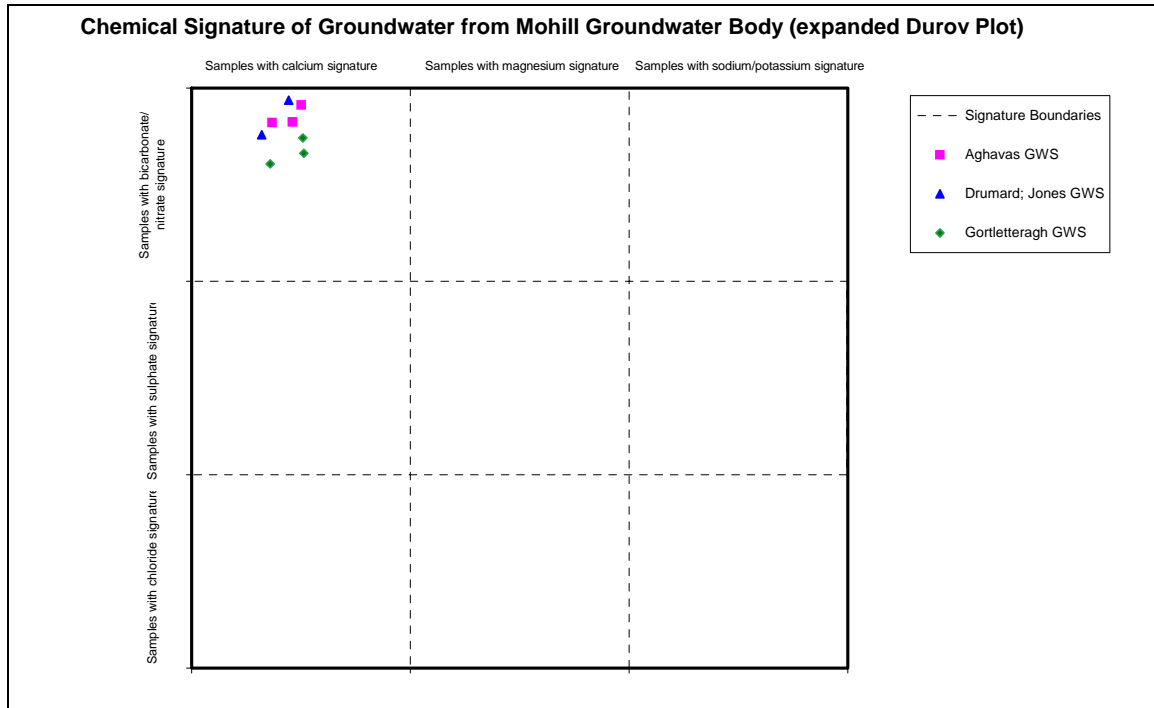
Mohill Groundwater Body: Summary of Initial Characterisation.

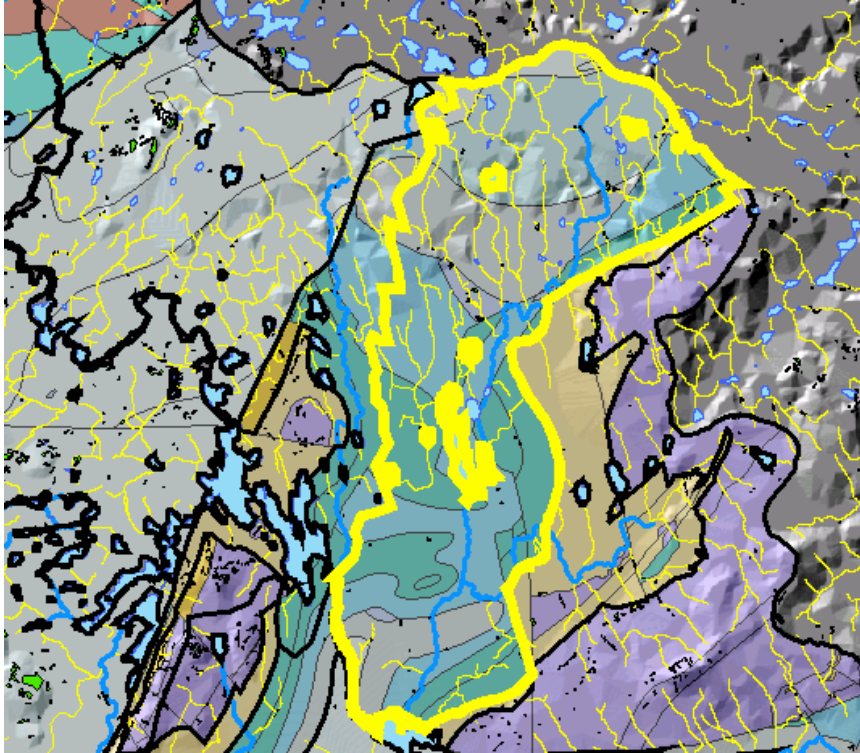
Hydrometric Area Local Authority	Associated surface water features	Associated terrestrial ecosystem(s)	Area (km ²)
26 – Camlin/Rinn Leitrim & Longford Co. Co's	Rivers: Relagh, Cloone (LoughRinn), Black, Rinn, Errew. Streams: Arderry. Loughs: Drumroosk, Little, Donogher, Seltan, Black, Fort, Aguineen, Cam, Cloone, Adoon, Naman, Killylea, Annaghmacconway, Curraun, Annaghmacullen, Creenagh, Sallagh, Drumard, Roosky, Errew, Rinn, Clooncoe, Forbes.	(001420) Corracramph Bog; (001405) Cashel Bog; (001405) Rinn River; (00422) Aghnamona Bog; (001423) Cloonageeher Bog; (001808) Lough Sallagh; (001417) Lough Rinn; (001807) Lough Errew; (001642) Lough Boderg and Lough Bofin; (00424) Clooncoe Wood and Lough; (00445) Clooneen Bog; (001818) Lough Forbes Complex.	180
Topography	This groundwater body lies to the east of the River Shannon. In the south of the body the ground is mainly low lying and relatively flat with ground elevations of 40-50 mAOD, lowest in the vicinity of the River Shannon and the River Rinn. Ground elevations rise towards the north of the groundwater body where the topography is dominated by drumlins. The tops of these small hills typical rise to 70-90 mAOD. The highest point in the body is 120 mAOD at the top of a drumlin in the extreme north of the body. Numerous small lakes occur within the body as well as the larger Lough Rinn in the centre of the body. The Cloone River flows south through the body to Lough Rinn. The River Rinn flows south from Lough Rinn towards Lough Forbes and the River Shannon. The River Shannon forms part of the southwestern boundary of the body.		
Geology and Aquifers	Aquifer categories	The main aquifer category is: Ll: Locally important aquifer which is moderately productive only in local zones There is one tiny area (0.07 km ²) with an aquifer category of Lm: Locally important aquifer which is generally moderately productive And in the north of the body there is a small area (5.3 km ²) with an aquifer category of Rkc: Regionally important karstified aquifer dominated by conduit flow	
	Main aquifer lithologies	The main aquifer lithologies are Dinantian (early) Sandstones, Shales and Limestones, Dinantian Lower Impure Limestones, Dinantian Upper Impure Limestones, Dinantian Pure Unbedded Limestones and Dinantian Shales and Limestones. There is a tiny area of Dinantian Sandstones (0.07 km ²) in the north of the body and a small area of Dinantian Pure Bedded Limestones (5.3 km ²) in the extreme north of the body. These are included in this GWB as they are too small to be separated out as individual GWBs.	
	Key structures	This groundwater body occurs to the east of the northeast trending anticline that is the Strokestown Inlier. There are number of faults mapped in the east of the body some of which offset the Dinantian (early) Sandstones, Shales and Limestones against the Dinantian Sandstones of the Annaghmore/Fearnaght GWB. The body is separated from the Ordovician Metasediments of the Longford/Ballinallee GWB by a thin layer of Dinantian Sandstones which unconformably overly the Ordovician rocks	
	Key properties	No data on hydrogeological properties specific to this groundwater body are available. Within the Dinantian Lower Impure Limestones, transmissivities are likely to be in the range 2-20 m ² /d, with most values at the lower end of the range. Dinantian (early) Sandstones, Shales and Limestones aquifer properties are expected to have similarly low permeabilities however more frequent areas of enhanced permeability could be encountered in the Meath Formation (ME), a limestone which is generally described as having a lower shale content than other Dinantian (early) Sandstones, Shales and Limestones. Transmissivities in Dinantian Pure Bedded Limestones can be over 100 m ² /d.	
	Thickness	In the low permeability rocks which make up this groundwater body most of the groundwater flow is expected to be within 15 m of the top of the rock, comprising a weathered zone of a few metres and a zone of interconnected fissures below this of about 10 m thick. Deeper flow can occur in areas that have undergone a high degree of structural deformation and faulting, where the resulting fissures have remained open. The small area of pure limestone in the north of the body (Dartry Limestone and Ballymore Limestone Formation) has the potential to develop fissure permeability to a greater depth given the pure nature of the limestone and its consequent susceptibility to karstification.	
Overlying Strata	Lithologies	The Teagasc Parent Material Map was not available for County Leitrim at time of writing. In the south of the body in County Longford (for which a map of subsoil lithologies is available) there are large areas of cut peat interspersed with glacial till. In the north of the body drumlins are common. <i>[More information to be added at a later date]</i>	
	Thickness	There are some small infrequent areas of rock outcrop within the body. Two depth to bedrock data points of 6 m and 9 m are recorded. <i>[More information to be added at a later date]</i>	
	% area aquifer near surface	<i>[More information to be added at a later date]</i>	
	Vulnerability	There are no Groundwater Vulnerability Maps currently available for Counties Longford or Leitrim. It is probable that there are a few areas of Extreme Vulnerability present; however, categorizing areas of High, Moderate and Low is not possible. <i>[More information to be added at a later date]</i>	

Recharge	Main recharge mechanisms	Diffuse recharge will occur over the entire GWB via rainfall percolating through the subsoil. The proportion of the effective rainfall that recharges the aquifer is largely determined by the thickness and permeability of the soil and subsoil, and by the slope. Percolation of recharge will be restricted in parts of the body due to the extensive covering of peat and the typically associated underlying lacustrine clay or clayey till. Subsoil permeability has not currently been mapped in detail in County Longford or County Leitrim but the sub peat subsoil would be expected to be of 'low' permeability. <i>Note: Subsoil permeability has not currently been mapped in detail in County Longford or County Leitrim. [Information to be added at a later date]</i>
	Est. recharge rates	<i>[Information to be added at a later date]</i>
Discharge	Large springs and high yielding wells (m ³ /d)	There are no major abstractions or large springs currently recorded in this groundwater body. A number of small group schemes with yields of > 100 m ³ /d are listed in the GSI database. Drumard Group Scheme (109m ³ /d); Drumdiffer Group Scheme (109m ³ /d) – GSI Well Database <i>[More information to be added at a later date]</i>
	Main discharge mechanisms	The main discharges will be local, to the main rivers and their tributaries crossing the groundwater body, and to Lough Forbes in the southwest.
	Hydrochemical Signature	There are four EPA Representative Monitoring Points in this groundwater body. Groundwater from this body has a calcium-bicarbonate signature. Hardness, alkalinity and electrical conductivities vary between the different rock unit group aquifers, however. In the Dinantian (early) Sandstones, Limestones and Shales and the Lower Impure Limestones, groundwaters are Hard to Very Hard (typically ranging between 380–450 mg/l), and high electrical conductivities (650–800 µS/cm) are often observed. Alkalinity is also high, but less than hardness (250-370 mg/l as CaCO ₃). Within the Impure Limestones, iron and manganese concentrations frequently fluctuate between zero and more than the EU Drinking Water Directive maximum admissible concentrations (MACs). Hydrogen sulphide can often reach unacceptable levels. These components come from the muddy parts of these rock units and reflect both the characteristics of the rock-forming materials and the relatively slow speed of groundwater movement through the fractures in the rock allowing low dissolved oxygen conditions to develop. The hydrochemical signature of groundwater from several wells in this GWB is demonstrated in an expanded Durov plot in Figure 2 below.
Groundwater Flow Paths	These rocks are devoid of intergranular permeability; groundwater flow occurs in fractures and faults. Permeability is highest in the upper few metres of bedrock, but decreases rapidly with depth. In general groundwater flow is concentrated in the upper 15 m of the aquifer. Local zones of high permeability can be encountered near fault zones and in areas of intensive fracturing. Groundwater flow in this body will be of a local nature. Groundwater flow paths are generally short, with groundwater discharging to small springs, or to the streams and rivers that traverse the aquifer. Flow directions are expected to approximately follow the local surface water catchments. Overall, groundwater flow is towards the Cloone and Rinn Rivers in the centre of the body and towards the River Shannon and Lough Forbes in the south and southwest of the body. In general groundwater is unconfined in this groundwater body. Dinantian Pure Unbedded Limestones, which occur in a small area (5.3 km ²) in the extreme north of the body, are susceptible to karstification. Groundwater will flow in fissures and joints which can be enlarged by solution to form conduits. Flow velocities can be rapid and variable and flow paths can be unpredictable, often determined by discrete conduits.	
Groundwater & Surface water interactions	Groundwater and surface water interactions require special attention where terrestrial ecosystems are dependant on a sustainable balance between the two. A number of fens, bogs and lakes are recorded in this groundwater body which may have varying dependence on groundwater.	

Conceptual model	<ul style="list-style-type: none"> • The body is bounded in the north and west by topographic highs and groundwater divides that coincide with surface water catchment boundaries. In the south and east the body is bounded by contact with the Dinantian Sandstones of the Annaghmore GWB. The River Shannon forms part of the southwestern boundary of the body. • The Rivers Cloone and Rinn flow southwards through the centre of the body. The terrain in the south of the body is mainly low lying and relatively flat. Ground elevations rise towards the north of the groundwater body where the topography is dominated by drumlins • This groundwater body is composed primarily of low permeability rocks, although localised zones of enhanced permeability can occur along faults and in the vicinity of fault zones. Groundwater flows along fractures joints and major faults. • Recharge occurs diffusely over the entire GWB via rainfall percolating through the subsoil. Percolation of recharge can be restricted due to the extensive covering of peat and the typically associated underlying lacustrine clay or clayey till. • In general groundwater is unconfined in this groundwater body. Most groundwater flow will occur within the top 15 m of the bedrock, comprising a weathered zone of a few metres and a connected fractured zone below this. Deep-water strikes in more isolated faults/fractures can be encountered. Groundwater flow in this body will be of a local nature. Groundwater flow paths will generally be short. • A small area (5.3 km²) of Dinantian Pure Bedded Limestones occurs in the extreme north of the body included in this GWB as it is too small to comprise a separate GWB. Groundwater flow characteristics within this area will be those of a karstified aquifer. • Groundwater will discharge to the streams and rivers crossing the body and to the River Shannon in the southwest. Overall, groundwater flow is towards the Cloone and Rinn Rivers in the centre of the body and towards the River Shannon and Lough Forbes in the south and southwest of the body. • A number of fens, bogs and lakes are recorded in this groundwater body which have varying dependence on groundwater.
Attachments	Hydrochemical signature (Figure 1).
Instrumentation	Stream gauges: 26008 Rinn, Johnston's Bridge; 26009 Black, Bellantra Bridge; 26010 Cloone, Riverstown; 26042 Stream, Mohill; 26131 Rinn, Derryinch; 26159 Lurge (Rinn), Rynn House; 26242 Cloone, Aughnagleas; 26255 Stream, Cornulla. EPA Water Level Monitoring boreholes: None EPA Representative Monitoring points: Aghavas GWS (LEI 2), Drumard Jones (LEI 17), Gortletteragh GWS (LEI 24), M. Griffin (LEI 68).
Information Sources	Morris J.H., Somerville I.D. and MacDermot C.V. (2002). <i>Geology of Longford-Roscommon</i> . A Geological Description to Accompany the Bedrock Geology 1:100,000 Bedrock Series Sheet 12. With contributions by D.G. Smith, M. Geraghty, B. McConnell, K. Carlingbold, W. Cox, D. Daly. Geological Survey of Ireland, 121pp. (Publication pending). MacDermot, C.V. Long C.B. and Harney S.J (1996) <i>Geology of Sligo-Leitrim: A geological description of Sligo, Leitrim and adjoining parts of Cavan, Fermanagh, Mayo and Roscommon, to accompany bedrock geology 1:100,000 scale map, Sheet 7, Sligo - Leitrim</i> . With contributions from K. Carlingbold, G. Stanley, D. Daly and R. Meehan. Geological Survey of Ireland, 100pp. Aquifer Chapters: Dinantian (early) Sandstones, Shales and Limestones; Dinantian Upper Impure Limestones; Dinantian Lower Impure Limestones; Dinantian Pure Unbedded Limestones; Dinantian Pure Bedded Limestones
Disclaimer	Note that all calculation and interpretations presented in this report represent estimations based on the information sources described above and established hydrogeological formulae

**Figure 1: Hydrochemical signature
(EPA Representative Monitoring)**



Mohill GWB (For Reference)**List of Rock units in Mohill Groundwater Body**

Rock unit name and code	Description	Rock unit group
Argillaceous Limestone (AL)	Dark limestone & shale, chert	Dinantian Upper Impure Limestone
Dartry Limestone Formation (DA)	Dark fine-grained cherty limestone	Dinantian Pure Bedded Limestone
Dartry Limestone Formation & Crinoidal Limestone	Dinantian (early) Sandstones, Shales and Limestones	Dinantian Pure Bedded Limestone
Ballymore Limestone Formation (BA)	Dark fine-grained limestone & shale	Dinantian Pure Bedded Limestones
Waulsortian Limestone (WA)	Massive unbedded lime mudstone	Dinantian Pure Unbedded Limestone
Ballysteen Formation (BA)	Dark muddy limestone, shale	Dinantian Lower Impure Limestone
Moathill Formation (MH)	Limestone, calcareous sandstone, shale	Dinantian (early) Sandstones, Shales and Limestones
Meath Formation (ME)	Limestone, calcareous sandstone	Dinantian (early) Sandstones, Shales and Limestones
Navan Beds (NAV)	Dark limestone, mudstone, sandstone	Dinantian (early) Sandstones, Shales and Limestones
Fearnaght Formation (FT)	Pale conglomerate & red sandstone	Dinantian Sandstones
Drumgesh Shale Formation (DH)	Dark shale, fine-grained limestone	Dinantian Shales and Limestones
Ulster Canal Formation (UC)	Calcareous sandstone, shale, micrite	Dinantian (early) Sandstones, Shales and Limestones
Cooldaragh Formation (CH)	Pale brown-grey flaggy, silty mudstone	Dinantian (early) Sandstones, Shales and Limestones

NOTES ON GWB DESCRIPTION

NOTES

Longford Mohill GWB – weird shaped body with a messy area of Fearnaght Sandstones (Lm) within it. The body could be divided into three sub parts. Part A in the northwest underlain by Dinantian Rock (Din (early)), part B to the east and just south east of the Fearnaght underlain by Ordovician rocks – this is a rough upland area. Area C in the southeast, underlain again by Dinantian Rock, hilly but less upland than area B.

Selected Attributes of NewRiver Gauges_point													
FID	Shape	NUMBER	LOCATION	WATERBODY	BDS	REFERENCE	EASTING	NORTHING	_1_	SG	AREA	OF_REC	REGION
1151	Point	26008	JOHNSTON'S BR.	RINN	OPW	N090864	209000	286400	0	AR	292	SEP 1955	SHANNON
1152	Point	26009	BELLANTRA BR.	BLACK	OPW	N128894	212800	289400	0	AR	97	OCT 1957	SHANNON
1153	Point	26010	RIVERSTOWN	CLOONE	OPW	N121979	212100	297900	0	AR	100	MAY 1958	SHANNON
1185	Point	26042	MOHILL	STREAM	LEI	N088953	208800	295300	0	SG	3		SHANNON
1255	Point	26131	DERRYINCH	RINN	LEI	N103906	210300	290600	0	SG	---		SHANNON
1283	Point	26159	R'YNN HOUSE	LURGE (RINN)	LEI	N102936	210200	293600	0	SG	---		SHANNON
1325	Point	26242	AUGHNAGLEAS	CLOONE	LEI	H151027	215100	302700	0	SG	---		SHANNON
1338	Point	26255	CORNULLA	STREAM	LEI	H121030	212100	303000	0	SG	---		SHANNON

Record: 1 Show: All Selected Records (8 out of 1880 Selected.) Options

Selected Attributes of Water chemistry from EPA_point												
FID	Shap	CO	PL	LOCATION	SCH	DET	SAMPLER	NGR	EASTING	NORTHING	GEOLO	U
1499	Point	LEI	2	Aghavas GWS				H183010	218300	301000		SH
1500	Point	LEI	2	Aghavas GWS			MKerr&JRigney	H183010	218300	301000		SH
1501	Point	LEI	2	Aghavas GWS			JRigney/MKerr	H183010	218300	301000		SH
1502	Point	LEI	2	Aghavas GWS			JRigney/MKerr	H183010	218300	301000		SH
1503	Point	LEI	2	Aghavas GWS			M Kerr/ J Rigney	H183010	218300	301000		SH
1504	Point	LEI	2	Aghavas GWS				H183010	218300	301000		SH
1505	Point	LEI	2	Aghavas GWS				H183010	218300	301000		SH
1506	Point	LEI	2	Aghavas GWS		Tap		H183010	218300	301000		SH
1507	Point	LEI	2	Aghavas GWS		Tap		H183010	218300	301000		SH
1525	Point	LEI	17	Drumard; Jones GWS			MKerr&JRigney	N080943	208000	294300		SH
1526	Point	LEI	17	Drumard; Jones GWS			JRigney/MKerr	N080943	208000	294300		SH
1527	Point	LEI	17	Drumard; Jones GWS			MKerr&JRigney	N080943	208000	294300		SH
1528	Point	LEI	17	Drumard; Jones GWS			M Kerr/ J Rigney	N080943	208000	294300		SH
1529	Point	LEI	17	Drumard; Jones GWS				N080943	208000	294300		SH
1530	Point	LEI	17	Drumard; Jones GWS				N080943	208000	294300		SH
1531	Point	LEI	17	Drumard; Jones GWS		Tap		N080943	208000	294300		SH
1532	Point	LEI	17	Drumard; Jones GWS				N080943	208000	294300		SH
1533	Point	LEI	17	Drumard; Jones GWS		Tap		N080943	208000	294300		SH
1542	Point	LEI	24	Gortletteragh GWS			MartinKerr&JohnRigne	N118925	211800	292500		SH
1543	Point	LEI	24	Gortletteragh GWS			JRigney/MKerr	N118925	211800	292500		SH
1544	Point	LEI	24	Gortletteragh GWS			JRigney/MKerr	N118925	211800	292500		SH
1545	Point	LEI	24	Gortletteragh GWS			M Kerr/ J Rigney	N118925	211800	292500		SH
1546	Point	LEI	24	Gortletteragh GWS				N118925	211800	292500		SH
1547	Point	LEI	24	Gortletteragh GWS				N118925	211800	292500		SH
1602	Point	LEI	68	Private (Ml. Griffin)				N118926	211800	292600		SH
1603	Point	LEI	68	Private (Ml. Griffin)				N118926	211800	292600		SH

Record: 24 Show: All Selected Records (26 out of 3552 Selected.) Options

FID	Sha	EASTIN	NORTH1	COUNTY	PLOT	IGR	NAME	POINT	TYP	M	M	DE	POP	CATCHMENT	GR	UNIT
1209	Point	218300	301000	LEI	2	H183010	Aghavas GWS	Corroneary	Bore	25			75	Rinn (Shannon)	GR	SH 7
1216	Point	208300	288600	LEI	9	N083886	CinghBellghrGWS	Acres	Bore	17						SH 7
1220	Point	208000	298100	LEI	14	N080981	CorrateriffGWS	Drumcollaghan	Bore	25						SH 7
1223	Point	208000	294300	LEI	17	N080943	DrumardJones GWS	Drumard	Bore	5			15	Rinn (Shannon)	GR	SH 7
1230	Point	211800	292500	LEI	24	N118925	Gortletteragh GWS	Gortletteragh	Bore	NA			NA	Rinn (Shannon)	GR	SH 7
1241	Point	207900	291300	LEI	35	N079913	RoskeynamonaGWS	Roskeynamona	Bore	13						SH 7
1248	Point	208800	295800	LEI	43	N088958	Ellis, Mr. Liam	Treanmore	Bore	5				Lower Shannon		SH 7
1250	Point	209500	292400	LEI	45	N085924	Hackett, Mr. P J	Liscloonadea	Bore	5				Lower Shannon		SH 7
1255	Point	208700	296400	LEI	50	N087964	Mohill Creamery	Mohill	Bore	18				Lower Shannon		SH 7
1273	Point	211800	292600	LEI	68	N118926	Private (M. Griffin)		Bore							SH 7

Record: 0 Show: All Selected Records (10 out of 2753 Selected.) Options

FID	Sha	GSIOLENA	INVT	EASTIN	NORTH1	GRI	DEPT	DT	DTBCONFID	SCHEMENAME	COMPANYNAM	CO	STARTDATE	EDITBY	EDI
21735	Point	2027NwW100	WB	210240	286710	7	43	6	Bedrock Presumed	John Hunt	WTB / LTM 1091	GA	<Null>	GWTF13	06/08
21958	Point	2029Sww006	WB	208830	291840	7	14	0	DTB Unknown	John Bohan		GA	01/09/1962	GWTF13	17/12
22003	Point	2029Sww007	WB	212440	292840	6	27	0	DTB Unknown	Raymond reynolds Peter colleavy		GA	<Null>	GWTF13	17/12
22037	Point	2029Sww005	WB	208180	294060	7	31	0	DTB Unknown	Drumard Group scheme		GA	<Null>	GWTF13	17/12
22087	Point	2029Sww003	WB	208570	295960	6	24	0	DTB Unknown	Liam Ellis		GA	01/04/1969	GWTF13	17/12
22122	Point	2029Sww001	WB	208910	297020	6	24	9	Bedrock Presumed	M Scott		GA	20/10/1964	GWTF13	17/12
22235	Point	2029Sww002	WB	208850	299240	6	12	0	DTB Unknown	Sean Moran		GA	01/05/1967	GWTF13	17/12
22533	Point	2029Nww005	WB	209480	303500	7	37	0	DTB Unknown	Joseph Dwyer		GA	01/03/1969	GWTF13	27/11
22683	Point	2029Nww007	WB	214610	305890	7	42	0	DTB Unknown	Thomas Lahan		GA	<Null>	GWTF13	27/11
22792	Point	2029Nww011	WB	214860	307170	7	29	0	DTB Unknown	Drumdiffier Group Scheme		GA	<Null>	GWTF13	27/11

Record: 1 Show: All Selected Records (10 out of 25096 Selected.) Options

FID	Shape*	AREA	PERIMETER	LAK	LAK	NAME	TYPE
4502	Polygon	111996.461	1400.614	42	0	Drumroosk Lough	Lake
4503	Polygon	3951.579	244.531	43	0	Little Lough	Lake
4510	Polygon	52834.445	892.982	50	0	Black Lough	Lake
4515	Polygon	21810.018	858.773	55	0	Lough Aguinneen	Lake
4516	Polygon	83558.836	1680.561	56	0	Lough Cam	Lake
4517	Polygon	20199.91	544.963	57	0	Cloone Lough	Lake
4519	Polygon	2178.242	181.72	59	0	Little Lough	Lake
4522	Polygon	8562.268	354.154	62	0	Lough Naman	Lake
4523	Polygon	47910.984	837.574	63	0	Killylea Lough	Lake
5518	Polygon	39829.512	901.219	2	1	Annaghmaconway Lough	Water
5519	Polygon	14300.969	623.278	3	2	Curraun Lough	Water
5520	Polygon	1119.653	125.556	4	3	Annaghmacullen Lough	Water
5521	Polygon	14103.847	489.891	5	4	Cloone Lough	Water

Record: 0 Show: All Selected Records (13 out of 12379 Selected.)

Selected Attributes of RIVERS-Ex_polyline

FID	Shape	ID	NAME	HYDRO	TYPE
1030	Polyline	0		26	6
1031	Polyline	R5	Relagh	26	4
1033	Polyline	0		26	6
1063	Polyline	C5	Cloone (Lough Rinn)	26	4
1069	Polyline	A10	Arderry Stream	26	4
1132	Polyline	C5	Cloone (Lough Rinn)	26	4
1133	Polyline	R5	Relagh	26	4
1211	Polyline	C5	Cloone (Lough Rinn)	26	4
1232	Polyline			0	1
1236	Polyline	0		26	6
1237	Polyline	0		26	6
1250	Polyline	0		26	6
1260	Polyline			0	1
1265	Polyline	0		26	6
1335	Polyline	R2	Rinn	26	4
1418	Polyline	R2	Rinn	26	4

Record: 1 Show: All Selected Records (16 out)

Selected Attributes of river_cen

FID	Shape	FNODE	TNO	LPOL	RPOL	LENGTH	RIVER_CEN	RIVER_CEN1	RIVER_NAME
2968	Polyline	112	135	0	0	4635.595	17	19	Cloone River
2969	Polyline	135	148	0	0	3169.572	18	13	Cloone River
3326	Polyline	42	16	0	0	3783.526	1	69	Cloone River
3327	Polyline	16	10	0	0	3686.325	2	62	Cloone River
3328	Polyline	10	2	0	0	2069.927	3	66	Cloone River
3331	Polyline	44	47	0	0	510.024	6	93	Lurga River
3332	Polyline	48	57	0	0	539.767	7	94	
3333	Polyline	67	53	0	0	1241.05	8	75	Errew River
3336	Polyline	110	73	0	0	3771.001	11	34	Rinn River
3338	Polyline	91	112	0	0	5245.084	13	2	Black River
3339	Polyline	112	110	0	0	1740.25	14	30	Black River
3340	Polyline	128	110	0	0	6285.066	15	47	Rinn River

Record: 1 Show: All Selected Records (12 out of 6582 Selected.) Options

Selected Attributes of NHALE_poly_region

FID	Shape	AREA	PERIMET	NHAL	NHA	PT	SITECO	VE	CE	CENT	NAME	TYPE
0	Polygon	1755518.6	7630.0659	42	31	1	001420	1	289	20745	CORRACRAMPH BOG	BOG
1	Polygon	1261153.2	5581.6509	43	32	1	001405	1	290	20861	CASHEL BOG (LEITRIM)	BOG
2	Polygon	1555482.8	11790.209	44	37	1	000691	1	287	21009	RINN RIVER	RIVER
4	Polygon	2398068	10987.175	46	34	1	000422	1	287	20658	AGHNAMONA BOG	BOG
5	Polygon	16636.5	557.84717	47	35	2		1	287	20610		
6	Polygon	1612749.5	8160.4966	48	36	1	001423	1	285	21070	CLOONAGEEHER BOG	BOG
7	Polygon	469511.94	6215.6123	49	38	1	000691	1	285	20899	RINN RIVER	RIVER
31	Polygon	130295.64	1648.8754	35	23	1	001808	1	294	21110	LOUGH SALLAGH	SALLAGH
32	Polygon	2778300.2	14776.409	36	24	1	001417	1	292	21010	LOUGH RINN	LOUGH
33	Polygon	552920.38	4314.2915	37	25	1	001807	1	294	21060	LOUGH ERREW	ERREW
34	Polygon	5860802	30059.551	38	27	1	001642	1	290	20325	LOUGH BODERG AND LOUGH BOFIN	LOUGH
35	Polygon	895408.12	5458.334	39	26	1	000424	1	292	21103	CLOONCOE WOOD AND LOUGH	WOOD AND LOUGH

Record: 0 Show: All Selected Records (12 out of 48 Selected.) Options

Selected Attributes of NHALF_poly_region

FI	Shape	AREA	PERIMETE	NHA	NH	P	SITEC	VE	CENTRO	CENTROI	NAME	TYPE
6	Polygon	77449.164	1131.1649	8	27	1	000691	1	286753.41	209504.94	RINN RIVER	RIVER
8	Polygon	1376980	7744.4248	9	29	1	001423	1	285045.44	210217.75	CLOONAGEEHER BOG	BOG
18	Polygon	624414	9220.5693	10	28	1	000691	1	284476.09	208889.98	RINN RIVER	RIVER
19	Polygon	416354.53	3403.9106	11	30	1	000422	1	285718.56	206704.97	AGHNAMONA BOG	BOG
20	Polygon	2146419.2	8466.2314	12	31	1	000445	1	283733.91	206932.64	CLOONEEN BOG	BOG
21	Polygon	11797371	34497.656	13	32	1	001818	1	279309.94	208150.61	LOUGH FORBES COMPLEX	COMPLEX

Record: 2 Show: All Selected Records (6 out of 35 Selected.) Options

Selected Attributes of ShannonAquifer

PERIMETE	Unique	NewCode	SheetN	JoinN	Lith	Strat	UnitName	Descript
11690.369	17064	C*MEAT	12	17077		ME	Meath Formation	Limestone, calcareous sandstone
13473.27	17119	C*MTHL	12	17132		MH	Moathill Formation	Limestone, calcareous sandstone, shale
2900.7	17154	CDWAUL	12	17167		WA	Waulsortian Limestones	Massive unbedded lime-mudstone
19454.694	17170	CDUABL	12	17183		AL	Argillaceous Limestones (Visean)	Dark limestone & shale, chert
2450.372	17208	C*MEAT	12	17221		ME	Meath Formation	Limestone, calcareous sandstone
16607.555	17297	C*MTHL	12	17310		MH	Moathill Formation	Limestone, calcareous sandstone, shale
5279.403	17289	C*MEAT	12	17302		ME	Meath Formation	Limestone, calcareous sandstone
3344.164	17294	C*MTHL	12	17307		MH	Moathill Formation	Limestone, calcareous sandstone, shale
2292.629	17362	C*MTHL	12	17332		MH	Moathill Formation	Limestone, calcareous sandstone, shale
4261.585	17873	CDBALL	12	17461		BA	Ballysteen Formation	Dark muddy limestone, shale
8506.891	18498	C*MTHL	12	17600		MH	Moathill Formation	Limestone, calcareous sandstone, shale
21041.497	19927	C*MTHL	12	17909		MH	Moathill Formation	Limestone, calcareous sandstone, shale
17672.761	19089	C*MEAT	12	17706		ME	Meath Formation	Limestone, calcareous sandstone
10262.018	19610	C*MTHL	12	17833		MH	Moathill Formation	Limestone, calcareous sandstone, shale
4144.7	19649	C*MEAT	12	17842		ME	Meath Formation	Limestone, calcareous sandstone
2301.796	19782	CDWAUL	12	17877		WA	Waulsortian Limestones	Massive unbedded lime-mudstone
72443.83	19848	CDBALL	12	17893		BA	Ballysteen Formation	Dark muddy limestone, shale
7784.375	20079	CDWAUL	12	17986		WA	Waulsortian Limestones	Massive unbedded lime-mudstone
21012.226	20306	CDBALL	12	18066		BA	Ballysteen Formation	Dark muddy limestone, shale
17332.199	20371	CDNAV	7	18079		NAV	Navan Beds	Dark limestone, mudstone, sandstone
4106.228	20393	CDULCL	7	18082		UC	Ulster Canal Formation	Calcareous sandstone, shale, micrite

Record: 0 Show: All Selected Records (32 out of 3957 Selected.) Options

Selected Attributes of ShannonAquifer

PERIMETE	Unique	NewCode	SheetN	JoinN	Lith	Strat	UnitName	Descript
17672.761	19089	C*MEAT	12	17706		ME	Meath Formation	Limestone, calcareous sandstone
10262.018	19610	C*MTHL	12	17833		MH	Moathill Formation	Limestone, calcareous sandstone, shale
4144.7	19649	C*MEAT	12	17842		ME	Meath Formation	Limestone, calcareous sandstone
2301.796	19782	CDWAUL	12	17877		WA	Waulsortian Limestones	Massive unbedded lime-mudstone
72443.83	19848	CDBALL	12	17893		BA	Ballysteen Formation	Dark muddy limestone, shale
7784.375	20079	CDWAUL	12	17986		WA	Waulsortian Limestones	Massive unbedded lime-mudstone
21012.226	20306	CDBALL	12	18066		BA	Ballysteen Formation	Dark muddy limestone, shale
17332.199	20371	CDNAV	7	18079		NAV	Navan Beds	Dark limestone, mudstone, sandstone
4106.228	20393	CDULCL	7	18082		UC	Ulster Canal Formation	Calcareous sandstone, shale, micrite
1356.229	20460	CDFRNT	8	18104		FT	Fearnaght Formation	Pale conglomerate & red sandstone
2633.835	20548	CDCLDH	7	18129		CH	Cooldaragh Formation	Pale brown-grey flaggy, silty mudstone
967.402	20583	CDULCL	7	18138		UC	Ulster Canal Formation	Calcareous sandstone, shale, micrite
25938.092	20493	CDLUCN	7	18111			Lucan Formation	
3293.178	20876	CDBALL	7	18249		BA	Ballysteen Formation	Dark muddy limestone, shale
15283.421	20606	CDBALL	7	18145		BA	Ballysteen Formation	Dark muddy limestone, shale
1735.353	20876	CDBALL	7	18249		BA	Ballysteen Formation	Dark muddy limestone, shale
8985.683	20860	CDBLYM	7	18242		BM	Ballymore Limestone Formation	Dark fine-grained limestone & shale
29620.836	21031	CDDMGH	7	18308		DH	Drumgessh Shale Formation	Dark shale, fine-grained limestone
2551.177	20962	CDDART cr	7	18282 cr		crDA	Dartry Limestone Formation & Crinoid	Dark fine-grained cherty limestone
11077.29	21419	CDDART	7	18498		DA	Dartry Limestone Formation	Dark fine-grained cherty limestone

Record: 0 Show: All Selected Records (32 out of 3957 Selected.) Options