Integrated Water Quality Report
Galway, Mayo and Sligo
2011

Appendices

Integrated Water Quality Report
Galway, Mayo and Sligo

Published by the Environmental Protection Agency, Ireland

September 2012

Edited by Carol O`Sullivan

The collation and summation of data for this report was undertaken with the assistance of Mr. Peter Webster (Senior Scientist, Reporting & Assessment) under the direction of Dr Micheál Lehane, (Programme Manager, Environmental Monitoring & Assessment) within the Office of Environmental Assessment.

ENVIRONMENTAL PROTECTION AGENCY

An Ghníomhaireacht um Chaomhnú Comhshaoil
PO Box 3000, Johnstown Castle Estate, Co. Wexford, Ireland

Telephone: +353 53 9160600 Fax: +353 53 9160699
Email: info@epa.ie Website: www.epa.ie

LoCall 1890 33 55 99

Regional Inspectorate,
John Moore Road,
Castlebar,
Co. Mayo.

Contents

APPENDIX 1. RIVER STATION CODES 5

GALWAY 5
MAYO 7
SLIGO 9

APPENDIX 2. 2011 SUMMARY OF RIVER WATER QUALITY 11

GALWAY 11
Overview 11
General Assessment 11
MAYO 16
Overview 16
General Assessment 16
SLIGO 22
Overview 22
General Assessment 22

APPENDIX 3. INFORMATION ON LABORATORY TESTING FOR RIVER SAMPLES 26

LABORATORY ANALYSIS 26
ANALYTICAL DETERMINATION OF PHOSPHORUS 26
Forms of Phosphorus 26
ANALYTICAL DETERMINATION OF NITRATE 26
ANALYTICAL DETERMINATION OF AMMONIA 26
Ammonia in River Waters 27
Forms of Ammonia 27
BIOCHEMICAL OXYGEN DEMAND OF RIVER WATERS 27
SCOPE AND ACCURACY OF ANALYSIS 28
Tests for which the Laboratory is Accredited 28
Tests for which the Laboratory is not Accredited 28

APPENDIX 4. ORTHO-PHOSPHATE TRENDS 1979 – 2011 29

GALWAY 29
MAYO 32
SLIGO 35

APPENDIX 5. NITRATE TRENDS 1979 – 2011 37

GALWAY 37
MAYO 40
SLIGO 43

APPENDIX 6. SALMONID SHEETS 45

GALWAY 45
MAYO 50
SLIGO 60

APPENDIX 7. BIOLOGICAL DATA 62

HYDROMETRIC AREA 29 62
HYDROMETRIC AREA 30 69
HYDROMETRIC AREA 31 90
HYDROMETRIC AREA 32 97
HYDROMETRIC AREA 33 112
HYDROMETRIC AREA 34 119
HYDROMETRIC AREA 35 147

APPENDIX 8. TRENDS IN CHLOROPHYLL, NITRATE & TOTAL PHOSHORUS IN LAKES 161

APPENDIX 1. RIVER STATION CODES
(with 2011 annual mean values and grid references)

Galway

		2011 annual mean values					Grid References	
Reference	Station ID	DO % Sat	BOD mg/l O_2	Ammonia mg/l N	o_PO_4 mg/l P	TON mg/l N	Easting	Northing
G1	RS31C010100	99.00	0.50	0.015	0.008	0.20	97815.17	226412.12
G2	RS31S010570	98.00	0.70	0.018	0.006	0.20	97337.29	240359.06
G3	RS30B010200	94.50	0.50	0.015	0.008	0.20	96578.20	252767.68
G4	RS30F010100	97.00	0.50	0.015	0.008	0.20	96324.15	252131.11
G5	RS32B040100	100.00	0.50	0.015	0.017	0.20	82395.05	260764.72
G6	RS31O020300	97.00	0.50	0.046	0.006	0.20	81853.65	239789.17
G7	RS31R010500	97.00	0.50	0.015	0.013	0.20	80235.85	247474.82
G8	RS32C040040	96.00	0.50	0.038	0.008	0.20	77916.71	262073.27
G9	RS31R010600	97.00	0.50	0.015	0.009	0.20	76517.89	247166.36
G10	RS32O030100	100.00	0.50	0.015	0.014	0.20	74473.13	251197.72
G11	RS32D010100	97.00	0.50	0.015	0.008	0.20	72966.50	258492.37
G12	RS32D010200	99.00	0.50	0.015	0.008	0.20	70205.66	259697.00
G13	RS32T010100	98.00	0.70	0.015	0.018	0.20	68800.33	256785.22
G14	RS32B070100	95.50	1.18	0.034	0.014	0.20	68353.65	247464.42
G15	RS32O030200	101.00	0.50	0.015	0.011	0.20	67625.09	250460.06
G16	RS32O030300	100.00	0.50	0.015	0.014	0.20	66085.87	250412.79
G17	RS26S071100	89.00	1.00	0.019	0.030	0.80	181610.43	246363.84
G18	RS26S070300	93.00	1.20	0.076	0.031	0.80	167100.49	278032.93
G19	RS29C031000	94.00	1.10	0.029	0.038	0.60	166233.52	223160.99
G20	RS29R010100	95.00	0.70	0.021	0.029	0.50	164864.15	229011.53
G21	RS29K010100	92.00	1.50	0.061	0.028	0.30	162238.98	217795.88
G22	RS29R010200	97.00	1.00	0.015	0.029	0.50	160925.73	226086.04
G23	RS30A010028	87.40	0.80	0.036	0.040	0.95	160706.96	233170.87
G24	RS29K010200	97.00	1.10	0.040	0.176	1.20	158089.19	219706.37
G25	RS30S010025	89.00	0.50	0.015	0.030	1.70	156427.72	261489.60
G26	RS30A010100	95.40	0.62	0.024	0.036	0.78	155933.22	237913.17
G27	RS30G020200	85.00	0.50	0.050	0.038	1.60	155338.12	251455.08
G28	RS30L070100	83.00	0.70	0.054	0.036	1.40	154647.67	252475.31
G29	RS30S010100	90.00	0.50	0.015	0.027	1.20	152609.83	262060.71
G30	RS29R010500	93.00	1.80	0.015	0.042	0.90	152165.69	220239.93
G31	RS30A010300	89.40	0.70	0.015	0.041	1.64	151670.92	243628.02
G32	RS29C020050	99.00	0.70	0.025	0.022	0.95	151293.08	229121.03
G33	RS29K010400	98.00	0.70	0.019	0.057	0.90	151124.40	219933.48
G34	RS30S010300	96.00	0.70	0.015	0.029	1.30	150223.35	263996.51
G35	RS29C020200	101.00	0.70	0.021	0.026	1.00	150211.10	227295.22
G36	RS29C020300	98.00	1.70	0.248	0.053	1.50	148849.69	226319.32
G37	RS29O011000	96.00	1.40	0.025	0.005	0.14	148355.13	197130.40
G38	RS30G020400	88.00	0.70	0.033	0.038	1.60	147980.62	249906.79
G39	RS29C020400	93.00	1.10	0.028	0.033	1.40	147057.84	223078.00
G40	RS29C010200	95.00	0.70	0.024	0.017	0.30	145894.17	204952.67
G41	RS29C010100	92.00	0.70	0.024	0.017	0.20	145258.29	201868.79
G42	RS30G020600	81.00	0.70	0.025	0.035	1.60	144647.05	246957.18
G43	RS30S010400	90.00	0.50	0.015	0.029	1.20	144381.97	263466.54
G44	RS29K010600	106.00	0.80	0.015	0.020	0.80	144266.15	218437.76

		2011 annual mean values					Grid References	
Reference	Station ID	DO % Sat	BOD mg/l O_2	Ammonia mg/l N	o_PO_4 mg/l P	TON mg/l N	Easting	Northing
G45	RS30A010500	101.30	0.84	0.017	0.028	1.46	143694.66	240726.30
G46	RS30D010600	94.00	0.70	0.036	0.030	1.40	143159.70	264250.25
G47	RS30C010800	95.00	0.90	0.032	0.033	1.30	142725.50	243149.70
G48	RS30C010500	90.00	0.65	0.019	0.040	1.30	142093.21	253778.96
G49	RS30C011000	92.00	0.60	0.030	0.043	1.60	141916.57	236354.17
G50	RS30N010300	83.00	0.50	0.044	0.051	2.30	141893.35	252974.62
G51	RS29K010700	94.00	0.70	0.015	0.024	1.10	141882.53	218518.29
G52	RS30C010650	89.00	0.70	0.030	0.041	1.60	141617.24	252833.46
G53	RS30C010100	89.00	0.65	0.024	0.041	1.20	141288.30	263693.26
G54	RS29C020500	101.00	0.70	0.024	0.040	1.80	141251.77	220046.79
G55	RS30C010700	87.00	0.80	0.060	0.045	1.50	140891.48	249785.25
G56	RS30C010300	89.00	0.50	0.021	0.040	1.28	139430.70	258746.32
G57	RS29C050400	85.00	1.90	0.116	0.130	2.60	138463.09	225155.42
G58	RS30C011200	93.00	0.70	0.029	0.044	1.70	137261.91	233237.21
G59	RS30C030100	78.00	0.50	0.015	0.047	2.60	135389.94	237858.59
G60	RS30C011300	92.00	1.00	0.022	0.027	1.10	132172.79	232847.29
G61	RS30B020100	79.00	0.80	0.029	0.038	1.10	131914.85	257707.34
G62	RS30T010100	98.00	0.70	0.028	0.014	0.60	131330.71	227241.25
G63	RS30T010200	89.00	0.70	0.050	0.027	0.80	130952.97	226844.62
G64	RS30T010300	85.00	0.70	0.063	0.026	0.90	130574.86	226581.73
G65	RS30T010500	76.00	1.20	0.120	0.028	0.90	129728.83	226269.80
G66	RS30C020500	98.00	0.70	0.021	0.012	0.50	129645.70	225872.80
G67	RS30C020600	98.00	0.70	0.028	0.022	0.60	129625.12	225636.00
G68	RS30C020460	99.00	0.90	0.020	0.012	0.50	129372.24	226210.73
G69	RS30C020400	83.00	1.20	0.032	0.034	0.40	128509.64	227732.43
G70	RS30C020300	100.00	0.60	0.019	0.011	0.40	127726.36	228521.24
G71	RS30H010200	84.00	0.50	0.021	0.048	3.00	127336.99	245218.74
G72	RS30C020200	102.00	0.50	0.016	0.010	0.30	126631.11	229115.10
G73	RS30C020100	93.00	0.60	0.023	0.013	0.30	126372.30	230092.31
G74	RS31B010300	96.00	0.80	0.015	0.043	1.70	124903.48	223675.95
G75	RS30B140100	94.00	0.50	0.033	0.024	0.35	123324.82	232574.73
G76	RS31B020600	99.00	0.50	0.015	0.027	0.60	123251.24	222795.96
G77	RS30C060300	99.00	0.60	0.019	0.018	0.40	114966.87	254562.25
G78	RS31O010200	99.00	0.90	0.015	0.012	0.20	112733.00	222482.57
G79	RS30O020200	97.00	0.50	0.026	0.016	0.20	112517.22	243231.01
G80	RS30O020190	100.00	0.60	0.015	0.015	0.20	112247.72	243140.27
G81	RS31O010100	95.00	1.30	0.015	0.014	0.20	112142.31	228709.30
G82	RS30O020100	100.00	1.00	0.022	0.011	0.20	110854.78	242471.14
G83	RS31P010100	99.00	0.50	0.015	0.008	0.20	109717.89	222082.79
G84	RS31O040300	99.00	0.70	0.024	0.012	0.20	108975.62	222622.34
G85	RS30C050100	97.00	0.50	0.015	0.017	0.20	104235.38	257442.39
G86	RS30D020200	96.00	0.70	0.015	0.009	0.20	104046.38	252587.09
G87	RS31C020100	99.00	0.50	0.015	0.006	0.20	103908.86	222198.88
G88	RS30C030300	79.00	0.50	0.021	0.046	2.30	130237.00	234557.00
G89	RS30H010300	91.00	0.50	0.015	0.043	2.70	126103.00	243184.00

Mayo

		2011 annual mean values					Grid References	
Reference	Station ID	DO % Sat	BOD mg/l O_2	Ammonia mg/l N	o_PO_4 mg/l P	TON mg/l N	Easting	Northing
M1	RS32C050300	98.00	0.90	0.015	0.024	0.60	99417.68	284466.11
M2	RS32N010190	100.00	0.60	0.015	0.011	0.20	98862.22	293855.70
M3	RS33O040050	101.00	0.90	0.019	0.012	0.20	97699.47	322764.74
M4	RS32E010100	99.00	0.50	0.015	0.014	0.20	97648.28	271119.68
M5	RS33S030150	99.00	1.00	0.019	0.013	0.20	97619.71	324018.80
M6	RS32E010200	97.00	0.50	0.025	0.015	0.20	96146.95	268314.80
M7	RS32G030100	87.00	0.80	0.028	0.017	0.20	94802.35	302324.64
M8	RS33O040200	100.00	0.80	0.015	0.015	0.20	93942.60	321178.24
M9	RS33G010050	100.00	0.80	0.015	0.019	0.20	92083.94	333551.96
M10	RS32E010300	101.00	0.50	0.015	0.011	0.20	89473.81	264501.26
M11	RS33G010100	99.00	0.90	0.015	0.025	0.20	89358.91	333789.97
M12	RS33O040300	101.00	1.00	0.015	0.014	0.20	86307.82	322900.98
M13	RS32B010100	100.00	0.50	0.015	0.007	0.20	84523.68	266405.72
M14	RS33O010020	102.00	0.50	0.015	0.010	0.20	84146.51	309619.68
M15	RS32B010200	100.00	0.50	0.015	0.007	0.20	84139.05	263380.52
M16	RS33M030100	98.00	1.10	0.023	0.008	0.20	83778.88	325260.85
M17	RS33M030200	97.00	1.20	0.041	0.010	0.20	82157.97	323259.13
M18	RS32B030100	100.00	0.50	0.017	0.014	0.20	81962.81	277952.08
M19	RS33O040500	99.00	1.10	0.024	0.009	0.20	81460.78	322572.70
M20	RS32B030150	96.00	0.50	0.021	0.020	0.20	80757.72	280663.66
M21	RS33O010100	102.00	0.70	0.015	0.012	0.20	80107.53	314685.80
M22	RS30D010100	93.00	0.90	0.038	0.036	1.10	149684.97	279479.42
M23	RS30D010200	92.00	1.50	0.145	0.040	1.50	148811.09	278093.15
M24	RS30D010300	96.00	0.80	0.063	0.036	1.50	148045.55	274902.08
M25	RS30D010400	93.00	0.60	0.040	0.034	1.40	147532.16	271672.99
M26	RS34S020060	99.00	0.80	0.015	0.024	1.00	143997.84	299531.97
M27	RS34T010200	95.00	1.30	0.085	0.037	0.90	143788.89	291449.39
M28	RS34S020100	99.00	1.30	0.047	0.035	1.00	141481.40	303995.78
M29	RS34M030300	95.00	1.00	0.041	0.035	0.80	141132.15	304868.27
M30	RS30R010030	95.00	0.70	0.025	0.031	1.10	141014.68	273662.93
M31	RS34T010300	97.00	1.00	0.068	0.039	0.80	139265.50	290925.89
M32	RS34M020500	95.00	0.90	0.017	0.027	0.40	139018.95	302368.92
M33	RS34G020100	99.00	0.80	0.038	0.029	1.10	138996.51	289493.10
M34	RS34Y020250	95.00	1.20	0.088	0.031	0.80	137928.38	286291.22
M35	RS34S050200	98.00	1.60	0.047	0.040	1.90	136654.81	300471.68
M36	RS30B030100	89.60	0.90	0.085	0.055	0.80	136639.94	269183.61
M37	RS34S030100	94.00	0.80	0.028	0.031	1.10	136343.75	298631.71
M38	RS34G020200	99.00	0.70	0.015	0.027	1.00	135070.94	291732.11
M39	RS30B030200	87.00	0.90	0.094	0.056	1.70	134977.27	270789.97
M40	RS34S050300	99.00	1.40	0.042	0.038	1.50	134971.29	301405.82
M41	RS34Y020300	98.00	0.90	0.068	0.027	0.70	134729.14	286717.87
M42	RS34P010300	95.00	1.10	0.065	0.032	0.60	134201.25	292657.10
M43	RS30R010200	94.00	0.60	0.029	0.035	1.20	133936.43	271033.42
M44	RS34T010500	102.00	0.80	0.015	0.026	0.80	133024.70	296389.33
M45	RS34P010260	95.00	1.30	0.073	0.031	0.60	133004.27	290679.45
M46	RS34G030100	104.00	0.70	0.033	0.028	0.90	132911.50	295935.89
M47	RS34S030200	100.00	0.70	0.017	0.029	0.90	132430.53	299299.28

		2011 annual mean values					Grid References	
Reference	Station ID	DO % Sat	BOD mg/l O_2	Ammonia mg/l N	o_PO_4 mg/l P	TON mg/l N	Easting	Northing
M48	RS34P010100	93.00	1.00	0.063	0.036	0.60	132393.41	285983.32
M49	RS34Y010100	99.00	1.10	0.026	0.022	0.20	132307.35	308563.31
M50	RS30R010250	96.00	0.70	0.049	0.035	1.30	132144.01	270221.82
M51	RS34G030200	99.00	0.70	0.023	0.029	0.80	130399.95	297538.22
M52	RS34Y010200	100.00	1.10	0.015	0.025	0.20	129967.59	305902.96
M53	RS34M020650	96.00	1.00	0.029	0.037	0.70	129464.06	298558.87
M54	RS34B080400	93.00	0.80	0.018	0.032	1.08	128854.46	318078.46
M55	RS30B020200	80.75	0.65	0.023	0.042	1.60	128048.32	252616.41
M56	RS34M020700	98.00	1.00	0.017	0.034	0.60	127620.99	299329.69
M57	RS34M020800	97.00	1.00	0.015	0.024	0.40	127033.00	304729.04
M58	RS34G010100	97.00	0.60	0.024	0.033	0.70	126940.32	317918.73
M59	RS34C070600	96.00	0.60	0.015	0.029	0.30	126452.78	310464.32
M60	RS34M020750	96.00	1.20	0.028	0.027	0.50	126207.28	300770.66
M61	RS30R010400	96.00	0.70	0.023	0.034	1.20	125922.90	268623.40
M62	RS30B020300	89.00	0.50	0.015	0.041	1.70	125601.24	249105.18
M63	RS34G010200	99.00	0.80	0.028	0.032	0.70	125555.89	319333.20
M64	RS34L040200	83.00	1.90	0.066	0.065	0.90	125297.47	284320.21
M65	RS34C060200	84.00	0.70	0.032	0.038	1.20	124804.31	313939.16
M66	RS34M021100	97.00	0.80	0.015	0.023	0.70	124676.14	318772.63
M67	RS34M021000	97.00	1.00	0.018	0.024	0.50	124475.27	317019.33
M68	RS34C010400	94.00	1.00	0.023	0.034	0.80	123360.34	294477.97
M69	RS34M010100	87.00	1.90	0.048	0.034	0.80	123074.87	281168.26
M70	RS30B020400	87.00	0.50	0.015	0.040	1.70	123022.74	248542.64
M71	RS34C010500	92.00	0.80	0.025	0.030	0.60	122863.74	300050.53
M72	RS30C090100	87.00	0.80	0.018	0.040	1.60	122455.09	273325.16
M73	RS34M010400	93.00	1.20	0.032	0.031	0.90	122368.29	291103.77
M74	RS34C050200	99.00	1.30	0.028	0.021	0.20	122286.68	296091.66
M75	RS34M010500	97.00	0.80	0.016	0.030	0.90	121936.84	293360.16
M76	RS34M010300	89.00	1.30	0.032	0.031	1.00	121323.29	288623.34
M77	RS34C010300	97.00	1.20	0.028	0.027	0.50	120995.17	293680.15
M78	RS34M010225	87.00	1.60	0.128	0.043	1.00	120024.79	284572.71
M79	RS34M010200	87.00	1.00	0.033	0.033	1.00	119971.73	284262.38
M80	RS30R010600	92.00	0.90	0.015	0.031	1.00	119542.70	264943.01
M81	RS30R010700	94.00	0.90	0.023	0.035	1.50	118121.16	264822.46
M82	RS34C030300	100.00	1.00	0.031	0.028	0.30	117358.59	331448.60
M83	RS34C050100	99.00	0.90	0.026	0.022	0.20	117214.93	294388.64
M84	RS34C010200	93.00	1.30	0.018	0.020	0.30	117072.94	292025.42
M85	RS30R010950	92.00	0.90	0.018	0.033	1.40	116851.40	264835.76
M86	RS34S060400	93.00	1.10	0.054	0.050	1.00	116478.95	320754.23
M87	RS34D010300	96.00	1.00	0.020	0.021	0.60	115808.01	319151.54
M88	RS34C030200	100.00	0.90	0.027	0.023	0.23	115774.44	328606.43
M89	RS34C010180	94.00	1.30	0.028	0.024	0.40	115130.22	290738.99
M90	RS30A020300	90.00	0.97	0.023	0.018	0.50	114432.26	273591.85
M91	RS34C010100	92.00	1.20	0.026	0.020	0.40	114349.13	290406.87
M92	RS34C050030	100.00	0.80	0.015	0.017	0.20	114329.33	296524.53
M93	RS30A020200	94.00	0.80	0.019	0.019	0.62	113461.73	277749.47
M94	RS34C030100	99.00	1.10	0.043	0.016	0.23	112226.18	324804.65
M95	RS34D010100	98.00	0.90	0.019	0.023	0.20	112095.44	316017.92

		2011 annual mean values					Grid References	
Reference	Station ID	DO % Sat	BOD mg/l O_2	Ammonia mg/l N	o_PO_4 mg/l P	TON mg/l N	Easting	Northing
M96	RS30S020400	97.00	0.80	0.015	0.022	0.20	111921.82	272397.33
M97	RS30G010300	101.00	0.60	0.015	0.023	0.20	110344.03	267904.87
M98	RS33B010100	97.90	0.96	0.023	0.018	0.23	110314.68	334110.84
M99	RS33B010200	98.00	0.80	0.025	0.022	0.23	110140.55	338213.85
M100	RS33G020200	100.00	1.00	0.023	0.024	0.20	109331.34	339229.40
M101	RS30O010200	99.00	0.70	0.015	0.006	0.20	105629.23	262758.90
M102	RS32N010020	98.00	0.60	0.018	0.010	0.20	104385.39	297280.37
M103	RS32C050100	91.00	1.40	0.018	0.031	0.40	102282.97	282744.91
M104	RS30F030100	97.00	0.50	0.015	0.006	0.20	101101.53	258636.15
M105	RS34D010010	98.00	1.00	0.015	0.019	0.20	101084.21	315758.72
M106	RS30S030100	101.00	0.50	0.015	0.008	0.20	100933.56	261427.38
M107	RS32G050080	100.00	0.50	0.015	0.010	0.20	84959.76	267494.42

Sligo

		2011 annual mean values					Grid References	
Reference	Station ID	DO % Sat	BOD mg/l O_2	Ammonia mg/l N	o_PO_4 mg/l P	TON mg/l N	Easting	Northing
S1	RS26F020400	91.00	0.80	0.020	0.033	0.30	189975.34	310673.94
S2	RS26F020200	97.00	1.20	0.015	0.029	0.30	186571.56	313712.56
S3	RS26F020080	87.00	1.00	0.025	0.041	0.40	183545.16	316455.17
S4	RS26F020050	93.00	1.30	0.028	0.032	0.20	180323.85	319494.65
S5	RS35D010100	99.00	0.50	0.015	0.022	0.20	177693.00	342346.26
S6	RS35U010100	98.00	0.70	0.015	0.020	0.20	176788.52	315760.11
S7	RS35U010200	86.00	0.70	0.015	0.023	0.20	175029.99	319241.18
S8	RS35D040200	98.00	0.50	0.015	0.017	0.20	173375.51	342953.90
S9	RS35D110800	93.00	0.80	0.036	0.033	0.70	171455.63	320419.53
S10	RS35G010100	96.00	0.50	0.015	0.021	0.20	171113.29	335211.33
S11	RS35U010400	95.00	1.00	0.015	0.031	0.30	169840.26	322821.39
S12	RS35G010200	97.00	0.60	0.015	0.022	0.20	169518.87	335977.20
S13	RS35D040300	96.00	0.50	0.015	0.022	0.20	169376.12	341907.64
S14	RS35W010300	101.00	0.50	0.019	0.028	0.60	169279.22	337384.94
S15	RS35U010600	91.00	1.00	0.028	0.029	0.40	168633.85	326926.40
S16	RS35O060900	99.00	1.30	0.077	0.041	0.50	168463.04	326657.88
S17	RS35O060025	101.00	0.80	0.019	0.033	0.70	168138.78	304319.56
S18	RS35G040100	101.00	0.50	0.015	0.033	0.20	167967.69	347912.20
S19	RS35O060050	97.00	0.80	0.024	0.032	0.40	167126.59	305661.03
S20	RS35B050100	102.00	0.94	0.015	0.032	0.51	166915.25	328966.37
S21	RS35O060700	97.00	0.80	0.015	0.029	0.50	166873.76	325762.79
S22	RS35G050200	96.00	1.20	0.076	0.038	1.10	166709.42	305290.99
S23	RS35O060200	92.00	0.90	0.035	0.034	0.50	166612.36	312348.30
S24	RS35B040100	101.00	0.80	0.025	0.043	0.68	166168.89	314580.13
S25	RS35O060250	90.00	1.00	0.039	0.040	0.60	165463.95	313535.62
S26	RS35O010400	98.00	0.80	0.015	0.019	0.20	165300.87	325491.12
S27	RS35G040200	97.00	1.50	0.095	0.036	0.50	165113.04	349544.90
S28	RS35C010600	94.00	0.90	0.033	0.034	0.60	164856.18	313245.21
S29	RS35O060500	88.00	0.90	0.024	0.031	0.50	162585.54	318551.10
S30	RS35D120800	92.00	0.60	0.015	0.042	0.70	162515.63	344122.12
S31	RS35O060400	87.00	0.90	0.034	0.038	0.60	162153.55	315391.06

		2011 annual mean values					Grid References	
Reference	**Station ID**	**DO % Sat**	**BOD mg/l O_2**	**Ammonia mg/l N**	**o_PO_4 mg/l P**	**TON mg/l N**	**Easting**	**Northing**
S32	RS35O010200	100.00	1.30	0.015	0.023	0.20	160745.86	325232.04
S33	RS35B080200	72.00	0.50	0.019	0.039	1.00	160050.52	312079.74
S34	RS35O010030	99.00	0.90	0.015	0.026	0.20	154405.37	324307.46
S35	RS34M020050	98.00	0.70	0.022	0.015	0.20	152303.88	319410.16
S36	RS34T030300	84.00	0.60	0.041	0.065	2.00	152215.28	311890.70
S37	RS34T030400	87.00	2.00	0.473	0.117	2.00	152044.95	311987.47
S38	RS34T030500	88.00	2.00	0.429	0.111	1.90	151935.04	312038.14
S39	RS34T020050	78.00	3.30	0.793	0.209	1.70	151078.14	311706.95
S40	RS35D100600	95.00	0.80	0.026	0.039	1.10	150617.65	335865.68
S41	RS34O030100	99.00	1.00	0.021	0.028	0.30	149371.37	306085.58
S42	RS34M020100	97.00	0.70	0.016	0.017	0.40	149339.11	316800.25
S43	RS34M040100	101.00	0.50	0.015	0.012	0.20	149253.50	317228.05
S44	RS34C120400	102.00	0.50	0.044	0.037	0.80	149099.60	314818.83
S45	RS34B120300	94.00	0.90	0.050	0.036	0.80	147820.22	302694.38
S46	RS34T020200	96.00	1.00	0.048	0.087	1.20	147604.22	311410.85
S47	RS34C280100	100.00	0.70	0.096	0.044	0.90	147506.51	302477.51
S48	RS34M020300	99.00	1.10	0.032	0.021	0.30	146674.84	312264.76
S49	RS34M020400	102.00	1.00	0.038	0.029	0.40	146525.12	310022.01
S50	RS34O030200	99.00	1.10	0.022	0.029	0.30	145393.69	307411.15
S51	RS35D060050	99.00	0.60	0.015	0.012	0.20	144568.05	329177.16
S52	RS34O010100	102.00	0.80	0.015	0.019	0.20	144443.13	313782.08
S53	RS35B090100	101.00	0.60	0.015	0.008	0.20	144165.45	327136.27
S54	RS35D060200	101.00	0.90	0.016	0.025	0.40	143846.52	334344.25
S55	RS34E010300	98.00	0.50	0.015	0.025	0.20	143090.38	308076.52
S56	RS34E010100	99.00	0.60	0.015	0.017	0.20	141484.74	313674.36
S57	RS35B090500	101.00	0.80	0.015	0.012	0.20	140616.02	331000.71
S58	RS35E010100	100.00	0.80	0.015	0.020	0.20	140001.33	333155.42
S59	RS35G030100	99.00	0.80	0.026	0.014	0.30	138824.06	326540.98

APPENDIX 2. 2011 SUMMARY OF RIVER WATER QUALITY

Galway

Overview

This report gives an assessment of river water quality in County Galway in 2011. It should be read in conjunction with the main report and the appendices for a complete picture of water quality in the county. It gives a summary assessment of water quality for each river in the county. The assessment is based on the experience and expert judgement of the author, in conjunction with an evaluation of the relevant Q values and physico-chemical data. In future reports, greater emphasis will be placed on WFD criteria when assessing river water quality.

General Assessment

Physico-chemical monitoring indicates a modest improvement in water quality in the Abbert (at station 0028), Bearna Stream, Carrowmoneash and Clare (particularly at station 0700) during 2011. However, the Clarinbridge, Dalgan, Kilcolgan and Terryland Rivers all have water quality issues at certain locations. These are mainly caused by diffuse agricultural or municipal pollution or point source pollution from waste water treatment plants.

It is hoped that targeting pollution at these sites will lead to continued improvement in river water quality in the county.

Galway River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Abbert (30A01) Station 0500 is a surveillance site, all others stations are operational sites Q value range 3-4 (2009)	4			Water quality remains satisfactory with a decrease in o-phosphate, ammonia and BOD levels at station 0028. 2009 biological assessment indicates good water quality at station 0028 but with unsatisfactory conditions at stations 0300 & 0500 .	Improvement at station 0028, no significant change at other stations.
Ballinaboy (32B07) Q 2-3 at station 0100 (2009) Operational site	1			Generally satisfactory quality. However biological assessment indicates poor water quality which may be due to factors not evident in physico-chemical monitoring.	No change from 2010.
Ballycuirke (30B14) Q3 at station 0100 (2009) Operational site	1			Generally satisfactory quality. 2009 biological assessment suggests moderate levels of pollution which may be due to factors not evident in the physico-chemical monitoring.	No change from 2010.
Bealanabrack (30B01) Q value 4 (2009) Operational site	1			Water quality remains good at this site. The 2009 biological assessment also supports this finding.	Overall, no significant change from 2010.
Bearna House Stream (31B02) Operational site	1			Satisfactory water quality.	No change.
Bearna Stream (31B01) Operational site	1			2011 physico-chemical data indicates satisfactory water quality at this site, no recent biological monitoring data available.	Levels of o-phosphate and ammonia have slightly improved compared to 2010 levels.

Galway River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Black (Shrule) (30B02) Q value range 4-5 (2009) Station 0100 is a surveillance site, all other stations are operational sites	4			A few elevated ammonia and nitrite levels observed at station 0100 in particular, otherwise quality is satisfactory. 2009 biological assessment also indicates this.	No change from 2010.
Cannahowna (29C01) Q value 4 over length of river (2009) Operational sites	2			2011 physico-chemical data indicates that water quality remains satisfactory. This finding is supported by the 2009 biological assessment.	No significant change observed.
Carra Stream (29C03) Q 3-4 (2009) Operational site	1			Satisfactory conditions. Biological assessment indicates moderate conditions in 2009, perhaps due to factors not evident in the physico-chemical monitoring.	No change observed.
Carrowmoneash (29C05) Operational site		1		Elevated BOD, o-phosphate, ammonia and nitrate results indicate moderate water quality at this site. No recent biological assessment carried out.	Overall, slight reduction in pollution levels compared to 2010 but reduction is marginal.
Cashla (31C01) Q value 4-5 (2009) Operational site	1			Good water quality continues to prevail at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Clare(Galway) (30C01) Q value range 3-5 over length of river (2009) Stations 0800 & 1300 are surveillance sites, all other stations are operational sites	9			Water quality is satisfactory with a slight reduction in ammonia and nitrite from 2010. 2009 biological assessment indicates unsatisfactory water quality at stations 0100, 0650, 0700 and 0800 with good water quality at the other stations monitored.	Slight improvement in water quality from 2010, particularly at station 0700.
Clarinbridge (29C02) Q value range 2-4 over length of river (2009) Operational sites	3	2		Elevated BOD, o-phosphate, ammonia and nitrite results particularly at station 0300 are indicative of intermittent pollution.	Overall levels of o-phosphate and ammonia at stations 0300 and 0400 are slightly reduced from 2010 levels.
Cloghbrack Stream (30C05) Operational site	1			2011 physico-chemical data indicates good water quality at this site.	No significant change from 2010.
Corrib (30C02) Q 4 (2009) Stations 0460 & 0600 are operational sites, all others are Salmonid sites	7			Apart from a few slightly elevated BOD and o-phosphate results at station 0400 in particular, water quality on the Corrib remains satisfactory. 2009 biological assessment indicates good water quality. Stations 0100, 0200 and 0300 fully comply with the EC (Quality of Salmonid Waters) Regs, station 0400 just failed to meet the criteria for nitrites with 92% compliance rate (95% required).	No significant change from 2010, except station 0400 failing to meet the criteria for nitrites in the Salmonid Regs.

Galway River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Cregg (30C03) Q 3-4 (2009) Operational sites	2			Water quality remains satisfactory in 2011.	No significant change from 2010.
Crumlin (Galway Bay) (31C02) Q 4 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Culfin (32C04) Q 4 (2009) Operational site	1			Good water quality continues to prevail at this site. This finding is supported by the 2009 biological assessment.	No significant change from 2010.
Dalgan (30D01) Q value range 2-4 over length of river (2009) Operational sites	3	2		Elevated BOD, o-phosphate, ammonia and nitrite levels are continued evidence of moderate intermittent pollution particularly at station 0200 and further downstream at station 0300. The 2009 biological assessment also indicate unsatisfactory water quality at these sites.	No significant change from 2010.
Dawros (32D01) Q value range 3-5 over length of river (2009) Operational sites	2			2011 physico- chemical data indicates good water quality at both sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Dooghta (30D02) Q 4-5 (2009) Operational site	1			2011 physico-chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Failmore (30F01) Q 4-5 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Finny (30F03) Q 4-5 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Grange (Galway) (30G02) Q value range 3-4 over length of river (2009) Operational sites	3			Apart from a few slightly elevated ammonia and o-phosphate levels, 2011 physico-chemical data indicates good water quality. The 2009 biological assessment at stations 0200 and 0400 indicates moderate levels of pollution.	No significant change from 2010.
Headford Stream (30H01) Q 4 (2009) Operational sites	2			2011 physico- chemical data indicates good water quality at both sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Kilcolgan (29K01) Q value range 3-4 over length of river (2009) Operational sites	3	3		Elevated BOD, o-phosphate, ammonia and nitrite levels at stations 0100 and 0200 in particular suggest continued evidence of moderate intermittent pollution particularly. The 2009 biological assessments at stations 0200 and 0600 also indicate unsatisfactory water quality.	Slight reduction in o-phosphate and ammonia levels at stations 0100 and 0200.

Galway River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Levally Stream (30L07) Q 4 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Nanny Tuam (30N01) Q 3 (2009) Operational site	1			Slightly elevated o-phosphate and ammonia results on occasion, otherwise satisfactory conditions prevail. 2009 biological assessment indicates unsatisfactory water quality. This may be due to factors not evident in the physico-chemical monitoring.	No significant change from 2010.
Owenboliska (31O01) Q 4-5 (2009) Operational sites	2			2011 physico- chemical data indicates good water quality at both sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Owendallulleegh (29O01) Q 4-5 (2009) Surveillance site	1			2011 physico- chemical data indicates good water quality at this site.	No significant change from 2010.
Owenglin (32O03) Q 4 (2009) Operational sites	3			2011 physico- chemical data indicates good water quality at all sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Owengowla (31O02) Q 4-5 (2009) Operational site	1			Apart from one slightly elevated ammonia, 2011 physico-chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Owenriff (Corrib)(30O02) Q 4-5 (2009) Station 0100 is a surveillance site, all others are operational sites	3			2011 physico- chemical data indicates good water quality at all sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Owenriff (South Galway) (31O04) Q 4 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Polleen (31P01) Q 4 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Raford (29R01) Q 4 (2009) Operational sites	3			Apart from a few slightly elevated BOD and o-phosphate results at stations 0500, water quality was satisfactory in 2011. This is supported by the 2009 biological assessment.	No significant change from 2010.
Recess (31R01) Q 4 (2009) Operational sites	2			2011 physico- chemical data indicates good water quality at both sites. This is supported by the 2009 biological assessment.	No significant change from 2010.

Galway River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Screeb (31S01) **Q 3-4 (2009)** **Surveillance site**	1			2011 physico- chemical data indicates good water quality. However the 2009 biological assessment indicates moderate water quality. This may be due to factors not evident in the physico-chemical monitoring.	No significant change from 2010.
Sinking (30S01) **Q 3-4 (2009)** **Operational sites**	4			2011 physico- chemical data indicates good water quality at all sites. However the 2009 biological assessment indicates moderate water quality. This may be due to factors not evident in the physico-chemical monitoring.	No significant change from 2010.
Suck (26S07) **Q value range 3-5 over length of river (2011)** **Surveillance sites**	2			Apart from a few slightly elevated ammonia results at station 0300, water quality remains satisfactory. This is in agreement with the 2011 biological assessment.	No significant change from 2010.
Terryland (30T01) **Q 2-3 (2009)** **Operational sites**	1	3		Elevated ammonia results as well as some depleted DO levels; particularly at station 0500 are indicative of intermittent pollution. The 2009 biological assessment of station 0500 also indicates moderate levels of pollution.	No significant change from 2010.
Traheen (32T01) **Q 4-5 (2009)** **Operational sites**	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.

Mayo

Overview

This report gives an assessment of river water quality in County Mayo in 2011. It should be read in conjunction with the main report and the appendices for a complete picture of water quality in the county.

It gives a summary assessment of water quality for each river in the county. The assessment is based on the experience and expert judgement of the author, in conjunction with an evaluation of the relevant Q values and physico-chemical data. In future reports, greater emphasis will be placed on WFD criteria when assessing river water quality.

General Assessment

Physico-chemical monitoring indicates a modest improvement in water quality in the Ballinglen at station 0100, Castlebar at stations 0200, 0300 and 0400, Loughnaminoo Stream and the Robe at station 0700 during 2011. However, the Ballindine, Dalgan at station 0200, Loughnaminoo Stream, Manulla at station 0225, Swinford, Trimoge and Yellow (Knock) all have water quality issues at some locations. These are mainly caused by diffuse agricultural or municipal pollution or point source pollution from waste water treatment plants. Further details of these sites are available in the following table.

It is hoped that targeting pollution at these sites will lead to continued improvement in river water quality in the county.

Mayo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Aille (30A02) Q 3-5 across the length of the river (2009) Both sites operational	2			Water quality remains good in 2011. The 2009 biological assessment also supports this finding.	No change from 2010.
Ballindine (30B03) Q 2-4 across the length of the river (2009) Operational sites		2		Elevated o-phosphate, ammonia and nitrate at both sites are indicative of intermittent pollution. The 2009 biological assessment also supports this finding.	No change from 2010.
Ballinglen (33B01) Q 4-5 across the length of the river (2011) Station 0200 is an operational site, station 0100 is a surveillance site	2			Generally good water quality. 2009 biological assessment also supports this finding.	Slight improvement in ammonia levels at station 0100.
Behy (North Mayo) (34B08) Q value 4-5 (2010) Surveillance site	1			Water quality remains good at this site. The 2010 biological assessment also supports this finding.	Overall, no significant change from 2010.
Black Shrule (30B02) Q 4-5 across the length of the river (2009) Stations 0200, 0300 and 0400 are operational sites, station 0100 is a surveillance site	4			Apart from a few slightly elevated ammonia results, water quality remains satisfactory. The 2009 biological assessment also indicates good water quality.	No change.

Mayo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Bundorragha (32B01) Q value 4-5 (2009) Stations 0100 is an operational site, station 0200 is a surveillance site	2			2011 physico-chemical data indicates good water quality at both sites; recent biological monitoring data also supports this finding.	No change from 2010.
Bunowen (Killary Harbour) (32B04) Operational site	1			Water quality in this river remains good. No recent biological data.	No change from 2010.
Bunowen (Louisburgh) (32B03) Q value 3-5 over length of river (2009) Station 0150 is an operational site; station 0100 is a surveillance site	2			Water quality remains good, however the 2009 biological assessment indicates slight pollution at station 0150 which may be due to factors not evident in the physico-chemical monitoring.	No significant change observed.
Carrowbeg (Westport) (32C05) Q value 3-5 over length of river (2009) Both sites are operational sites	2			Apart from a few slightly elevated BOD and o-phosphate results at station 0100, water quality remains satisfactory. Biological assessment at station 0300 indicates slight pollution.	Slight decline in water quality at station 0100, but overall no significant change.
Carrowkerribly Lough Stream (34C07) Q value 4-5 over length of river (2010) Operational site	1			Good water quality continues to prevail at this site. This is supported by the 2010 biological assessment.	No significant change from 2010.
Castlebar (34C01) Q value 3-5 over length of river (2011) Station 0200 is a surveillance site, station 0500 is a Salmonid site, all others are operational sites	6			Slight reduction in DO, BOD, o-phosphate and ammonia levels particularly at stations 0200 and 0300. However biological data at stations 0200 and 0300 suggest slight pollution. Station 0500 fully complied with the EC (Quality of Salmonid Water) Regs in 2011.	Slight improvement at stations 0200, 0300 and 0400.
Cloonaghmore (34C03) Q value 4 over length of river (2010) All operational sites	3			Good water quality continues to prevail at all sites. This is supported by the 2010 biological assessment.	No significant change from 2010.
Cloondaver Stream (North) (30C09) Q value range 3-4 over length of river (2009) Operational site	1			Apart from a couple of slightly elevated o-phosphate and nitrate results, water quality remains satisfactory. However the 2009 biological assessment at station 0100 suggests slightly polluted conditions.	No significant change from 2010.
Clydagh (Castlebar) (34C05) Q value range 4 -5 over the length of the river (2011) Stations 0100 and 0200 are operational sites, station 0030 is a surveillance site	3			2011 physico-chemical data indicates good water quality. This is supported by the most recent biological assessment.	No significant change from 2010.

Mayo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Cong Canal (30C06) **Q 4 (2009)** **Operational site**	1			Water quality in the Cong Canal remains satisfactory. 2009 biological assessment also indicates good water quality.	No significant change from 2010.
Corroy (34C06) **Q 3 (2005)** **Operational site and Salmonid station**	1			Water quality remains satisfactory in 2011. Station 0200 fully complied with the EC (Quality of Salmonid water) Regs in 2011.	No significant change from 2010.
Dalgan (30D01) **Q value range 2-4 over length of river (2009)** **Operational sites**	4	1		Continued evidence of slight intermittent pollution particularly at station 0200 with elevated BODs and ammonia. 2009 biological assessment indicates unsatisfactory water quality at stations 0200, 0300 and 0500.	No significant change from 2010.
Deel (Crossmolina) (34D01) **Q value range 4-5 over length of river (2010)** **Stations 0010 and 0100 are operational sites, station 0300 is a surveillance site**	3			Good water quality continues to prevail at all sites. This finding is supported by the 2010 biological assessment. Station 0300 is also a salmonid station and in 2011 fully complied with the EC (Quality of Salmonid Waters) Regs.	No significant change from 2010.
Eriff (32E01) **Q value 4 over length of river (2009)** **Operational sites**	3			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Glenamoy (33G01) **Q value range 4-5 over length of river (2008)** **Station 0050 is an operational site, station 0100 is a surveillance site**	2			2011 physico- chemical data indicates good water quality at both sites. This is supported by the 2008 biological assessment.	No significant change from 2010.
Glencullin (North Mayo) (33G02) **Q 4-5 (2011)** **Operational site**	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2011 biological assessment.	No significant change from 2010.
Glennamong (32G03) **Q 4 (2009)** **Surveillance site**	1			Physico-chemical data indicates good water quality at this site despite a couple of unusually low DO values. This is supported by the 2009 biological assessment.	No significant change from 2010.
Glenree (34G01) **Q 4-5 over the length of the river (2010)** **Operational sites**	2			2011 physico- chemical data indicates good water quality. This is supported by the 2010 biological assessment.	No significant change from 2010.
Glensaul (30G01) **Q 4-5 over the length of the river (2009)** **Operational site**	1			Apart from a couple of slightly elevated o-phosphate results, water quality remains satisfactory. This is in agreement with the 2009 biological assessment.	No significant change from 2010.

Mayo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Glenummera (32G05) **Q 4-5 over the length of the river (2009)** **Operational site**	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Glore (Mayo) (34G02) **Q 4 (2009)** **Both sites are operational sites, station 0200 is also a Salmonid site**	2			Apart from a few slightly elevated BOD, ammonia and nitrate results at station 0200 in particular, water quality remains satisfactory. Station 0200 also fully complied with the EC (Quality of Salmonid Waters) Regs in 2011.	No significant change from 2010.
Gweestion (34G03) **Q value range 4-5 over length of river (2010)** **Operational sites; station 0200 is also a Salmonid site**	2			2011 physico- chemical data indicates good water quality at both sites. This is supported by the 2010 biological assessment. Station 0200 fully complied with the EC (Quality of Salmonid Waters) Regs in 2011.	No significant change from 2010.
Loughnaminoo Stream (34L04) **Q value range 3-4 over length of river (2011)** **Operational site**		1		Evidence of moderate levels of pollution. 2011 biological assessment also indicates this at station 0200.	Slight improvement, o-phosphate and ammonia levels slightly lower than 2010 levels, water quality remains moderate.
Manulla (34M01) **Q value range 3-4 over length of river (2011)** **All stations are operational sites station 0500 is also a Salmonid site**	4	2		Elevated BOD and ammonia results at station 0100 and 0225 indicate moderate pollution. Water quality at other stations is satisfactory. Biological assessment indicates good water quality at 0100 and 0225 however poorer water quality at stations 0300 and 0500. Station 0500 complied with the EC (Quality of Salmonid Waters) Regs.	No significant change from 2010.
Moy (34M02) **Q value range 3-5 over length of river (2010)** **Stations 0650 and 1100 are surveillance sites, all others are operational sites** **Stations 0500, 0700, and 1100 are also Salmonid sites**	7			Apart from a few slightly elevated o-phosphate and ammonia results, water quality remains satisfactory. 2010 biological assessments also indicate satisfactory conditions except at stations 1000 and 1200. Stations 0500, 0700 and 1100 all fully complied with the EC (Quality of Water) Regs in 2011.	No significant change from 2010.
Mullaghanoe (34M03) **Q value range 3-4 over length of river (2010)** **Operational site and Salmonid site**	1			Apart from a few slightly elevated ammonia results, water quality remains satisfactory. However, station 0300 did not fully comply with the EC (Quality of Salmonid Waters) Regs in 2011, failing to meet the nitrites requirements (83% compliance rate).	No significant change from 2010.

Mayo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Munhin (33M03) Q 4 (2011) Operational sites	2			Water quality remains satisfactory. The 2011 biological assessment also supports this finding.	No significant change from 2010.
Newport (Mayo) (32N01) Q 4 (2009) Operational sites	2			2011 physico- chemical data indicates good water quality at these sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Owenbrin (30O01) Q value range 3- 4 across the length of the river (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Owenduff (Blacksod) (33O01) Q value range 4-5 over length of river (2011) Operational sites	2			2011 physico- chemical data indicates good water quality at these sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Owenmore (Mayo) (33O04) Q 4-5 across the length of the river (2011) Operational sites	4			2011 physico- chemical data indicates good water quality at these sites. This is supported by the 2011 biological assessment.	No significant change from 2010.
Pollagh (34P01) Q value range 3-5 across the length of the river (2010) Operational sites	3			Slightly elevated BODs, o-phosphate and ammonia results on occasion, otherwise satisfactory conditions prevail. 2010 biological assessment indicates good water quality at stations 0100, 0200 and 0300 with moderate water quality at station 0260.	No significant change from 2010.
Robe (30R01) Q value range 3-4 across the length of the river (2009) Station 0600 is a surveillance site, all others are operational sites	7			Some slightly elevated ammonia, and o-phosphate results but overall water quality remains satisfactory. 2009 biological assessment indicates good water quality at stations 0110, 0200, 0600 and 0950 with poorer water quality at 0030, 0310 and 0400.	Station 0700 shows a slight improvement in water quality when compared to 2010. Overall no significant change.
Sheskin Stream (33S03) Q 4-5 (2011) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2011 biological assessment.	No significant change from 2010.
Slieveclaur (34S06) Q value range 3-4 across the length of the river (2010) Operational site	1			Apart from a few slightly elevated o-phosphate and ammonia results, 2011 physico- chemical data indicates good water quality at this site. 2010 biological assessment indicates slightly polluted conditions at station 0400.	No significant change from 2010.

Mayo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Sonnagh (Moy) (34S02) Q value range 3-5 across the length of the river (2010) Operational sites	2			Apart from one slightly elevated ammonia and two slightly elevated BOD results at station 0100, 2011 physico-chemical data indicates satisfactory water quality. Biological assessment carried out in 2010 indicates good water quality at station 0100 with slightly poorer water quality at station 0060.	No significant change from 2010.
Spaddagh (34S03) Q 4 (2010) Both operational sites, station 0200 is also a Salmonid site	2			Physico-chemical data indicates good water quality. This is supported by the 2010 biological assessment. Station 0200 fully complied with the EC (Quality of Salm Water) Regs.	No significant change from 2010.
Srah Stream (30S02) Q 4 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Srahnalong (30S03) Q 4 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Swinford (34S05) Q 4 (2010) Operational sites		2		Some elevated BOD, o-phosphate and ammonia levels are indicative of moderate intermittent pollution. However, the 2010 biological assessment indicates good water quality.	No significant change from 2010.
Trimoge (34T01) Q value range 3-5 across the length of the river (2010) Operational sites, station 0500 is also a Salmonid station	1	2		Elevated BOD, o-phosphate and ammonia results are indicative of moderate intermittent pollution particularly at stations 0200 and 0300. Biological assessment at station 0200 also supports this finding. Biological assessment at 0300 and 0500 suggest good water quality. Station 0500 fully complied with the EC (Quality of Salmonid Waters) Regs in 2011.	Slight elevation in BOD, o-phosphate and ammonia levels at stations 0200 and 0300 suggest a slight deterioration in water quality. No change at station 0500.
Yellow (Foxford) (34Y01) Q 4-5 across the length of the river (2010) Operational sites, station 0200 is also a Salmonid site	2			Apart from a few elevated BOD results water quality was satisfactory in 2011. This is supported by the 2010 biological assessment. Station 0200 fully complied with the EC (Quality of Salmonid Water) Regs in 2011.	No significant change from 2010.
Yellow (Knock) (34Y02) Q 3-4 across the length of the river (2010) Operational sites		2		Elevated ammonia results are indicative of moderate intermittent pollution.	No significant change from 2010.

Sligo

Overview

This report gives an assessment of river water quality in County Sligo in 2011. It should be read in conjunction with the main report and the appendices for a complete picture of water quality in the county.

It gives a summary assessment of water quality for each river in the county. The assessment is based on the experience and expert judgement of the author, in conjunction with an evaluation of the relevant Q values and physico-chemical data. In future reports, greater emphasis will be placed on WFD criteria when assessing river water quality.

General Assessment

Physico-chemical monitoring indicates a modest improvement in water quality in the Bellawaddy, Charlestown Stream, Clooneen, Doonflin, Grange (Sligo) at station 0200, and Tubbercurry at station 0200 during 2011. However, the Charlestown Stream, Gurteen Stream, Owenmore, Tubbercurry, and Tubbercurry Stream all have water quality issues at certain locations. These are mainly caused by diffuse agricultural or municipal pollution or point source pollution from waste water treatment plants. It is hoped that targeting pollution at these sites will lead to continued improvement in river water quality in the county.

Sligo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Ballymote Stream (35B04) **Q value 4 (2009)** **Operational site**	1			Water quality remains satisfactory. 2009 biological assessment indicates good water quality also.	No change from 2010.
Ballysodare (35B05) **Q 4-5 at station 0100 (2009)** **Surveillance site**	1			Water quality remains good at this site. The 2009 biological assessment also supports this finding.	No change from 2010.
Bellawaddy (34B05) Q value range 3-4 across the length of the river (2010) **Operational sites**	2			2010 physico-chemical data indicates good water quality. 2010 biological assessments found good water quality at stations 0150 and 0200 with poorer quality at station 0300.	Overall, physico-chemical data indicates an improvement in water quality at station 0150.
Black (Sligo) (34B12) **Q value 3-4 (2010)** **Operational site**	1			Water quality remains good at this site. The 2010 biological assessment also supports this finding.	Overall, no significant change from 2010.
Buncrowney (35B09) **Q value 3-4 (2009)** **Operational sites**	2			Good water quality. 2009 biological assessment indicates moderate water quality; this may be due to factors not revealed by physico- chemical monitoring.	No change.
Bunnanaddan Stream (35B08) **Q value 3 (2009)** **Operational site**	1			2011 physico-chemical data indicates satisfactory water quality at this site, low DO levels are due to groundwater input. 2009 biological assessment indicates moderate/poor water quality which may be due to factors not evident in physico-chemical monitoring.	Overall, no significant change from 2010.

Sligo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Charlestown Stream (34C28) Q value 3 (2010) Operational site		1		A few elevated ammonia and o-phosphate results are indicative of moderate intermittent pollution, although results are slightly lower than 2010. 2010 biological assessments indicate moderate/poor water quality.	Although there is continuing evidence of intermittent pollution, levels are not quite as high as 2010 levels suggesting a continued slight improvement in water quality.
Clooneen (Sligo) (35C01) Q value 4 over length of river (2009) Operational site	1			2011 physico-chemical data indicates that water quality remains satisfactory. This finding is supported by the 2009 biological assessment.	Slight improvement in levels of o-phosphate, nitrate, BOD and DO from 2010.
Corsallagh Stream (34C12) Operational site	1			Satisfactory conditions continue to prevail at this site. No recent biological assessment carried out.	No change observed.
Diffreen (35D01) Q value 4 (2009) Operational site	1			2011 physico-chemical data indicates that water quality remains satisfactory. This finding is supported by the 2009 biological assessment.	No change observed.
Doonflin (35D10) Q value 4 (2009) Operational site	1			Water quality is satisfactory at this site. Most recent biological assessment also supports this finding.	Slight improvement in water quality from 2010.
Doonowney (35D12) Q value 3-4 (2006) Operational site	1			2011 physico-chemical data indicates satisfactory water quality.	No significant change from 2010.
Drumcliff (35D04) Q value range 3-4 over length of river (2009) Operational sites	2			2011 physico-chemical data indicates good water quality at both sites. This finding is supported by the 2009 biological assessment.	No significant change from 2010.
Drumfin (35D11) Q 4 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Dunneill (35D06) Q 4-5 (2009) Station 0050 is an operational site , station 0200 is a surveillance site	2			Water quality remains satisfactory in 2011. This finding is supported by the 2009 biological assessment.	No significant change from 2010.
Easky (35E01) Q value 4-5 over length of river (2009) Operational sites	2			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Eignagh (34E01) Q value 4-5 over length of river (2010) Operational sites	2			Good water quality continues to prevail at this site. This finding is supported by the 2009 biological assessment.	No significant change from 2010.

Sligo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Feorish (Ballyfarnon) (26F02) Q value 4 over length of river (2011) Stations 0050, 0080, & 0200 are operational sites Station 0400 is a surveillance site	4			Apart from a couple of slightly elevated BOD and o-phosphate results, water quality remains satisfactory. 2011 biological assessment also supports these findings.	No significant change from 2010.
Finned (35F01) Q value range 4-5 over length of river (2009) Operational sites	2			Apart from one elevated o-phosphate result, 2011 physico-chemical data indicates good water quality. This is supported by the 2009 biological assessment.	No significant change from 2010.
Garavogue (35G01) Q 4 (2009) Station 0100 is an operational site; station 0200 is a surveillance site	2			2011 physico- chemical data indicates good water quality at both sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Gowlan (Sligo) (35G03) Q 4 (2009) Surveillance site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.
Grange (Sligo) (35G04) Q value range 4-5 over length of river (2009) Operational sites	2			Water quality at station 0200 has slightly improved since 2010 with lower BOD, o-phosphate, ammonia and nitrate levels. 2009 biological assessment indicates satisfactory water quality.	Overall slight improvement in water quality at station 0200.
Gurteen Stream (35G05) Q value 3-4 (2009) Operational site		1		Elevated o-phosphate and ammonia results are indicative of moderate intermittent pollution. 2009 biological assessment also indicates moderate pollution.	No significant change from 2010.
Leaffony (34L01) Q 4 (2009) Operational sites	2			2011 physico- chemical data indicates good water quality at both sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Mad (34M04) Q 3 (2010) Operational site	1			2011 physico- chemical data indicates good water quality at this site. The 2010 biological assessment suggests moderate water quality, the causes of which are not evident in the physico-chemical monitoring.	No significant change from 2010.
Moy (34M02) Q value range 3-5 over length of river (2010) Station 0050 is a surveillance site, all others are operational sites(in Sligo) Stations 0100, is also Salmonid station	4			Apart from a few slightly elevated BOD and ammonia results at stations 0300 and 0400 in particular, 2011 physico-chemical data indicates satisfactory water quality. 2010 biological assessment at stations 0050, 0100 and 0300 indicate good water quality. Station 0100 is also a Salmonid station and fully complied with the EC (Quality of Salmonid water) Regs in 2011.	No significant change from 2010.

Sligo River	Number of Sampling Stations in each category			Remarks	Change from 2010
	Generally Satisfactory	Moderately Polluted at times	Seriously Polluted at times		
Owenaher (34O01) Q 4 (2010) Operational site	1			2011 physico- chemical data indicates good water quality at this site. The 2010 biological assessment also supports this finding.	No significant change from 2010.
Owenbeg (Coolaney) (35O01) Q 4 (2009) Operational sites	3			2011 physico- chemical data indicates good water quality at all sites. The 2009 biological assessment also supports this finding.	No significant change from 2010.
Owengarve (Sligo) (34O03) Q 4-5 (2010) Operational sites; station 0200 is a Salmonid Station also	2			2011 physico- chemical data indicates good water quality at both sites. The 2010 biological assessment also supports this finding. Station 0200 fully complied with the EC (Quality of Salmonid Water) Regs in 2011.	No significant change from 2010.
Owenmore (Sligo) (35O06) Q value range 3-4 over length of river (2009) All stations are operational sites except 0900 which is a surveillance site	5	3		Elevated BOD and ammonia levels at stations 0250, 0400 and 0900 in particular suggest continued evidence of moderate intermittent pollution. Water quality at all other stations is of good quality.	No significant change from 2010.
Tubbercurry (34T02) Q 1-3 across the length of the river (2010) Station 0050 is an operational site; station 0200 is a surveillance site			2	River remains seriously polluted, with high levels of BOD, o-phosphate, ammonia and nitrate with levels being much higher at station 0050. However pollution levels in 2011 were slightly reduced when compared to 2010 particularly at station 0200. 2010 biological data also indicates poor water quality.	Slight improvement from 2010.
Tubbercurry Stream (34T03) Q 2 (2010) Operational sites			3	Elevated o-phosphate and ammonia indicate poor water quality. 2010 biological assessment also indicates unsatisfactory water quality.	Levels of BOD and o-phosphate at station 0400 and 0500 have risen in 2011.
Unshin (35U01) Q value range 3-5 across the length of the river (2009) Operational sites	4			2011 physico- chemical data indicates good water quality at all sites. This is supported by the 2009 biological assessment.	No significant change from 2010.
Willsborough Stream (35W01) Q 4 (2009) Operational site	1			2011 physico- chemical data indicates good water quality at this site. This is supported by the 2009 biological assessment.	No significant change from 2010.

APPENDIX 3. INFORMATION ON LABORATORY TESTING FOR RIVER SAMPLES

Laboratory Analysis

The principal chemical analysis carried out at the EPA Laboratory in Castlebar are pH, Conductivity, Temperature, Dissolved Oxygen, Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Colour, Ammonia, ortho-Phosphate, Chloride, Oxidised Nitrogen (Nitrite & Nitrate), Total Oxidised Nitrogen (TON), Fluoride, Sulphate, Hardness, Alkalinity, Total Phosphorus and Total Nitrogen. The laboratory holds ISO 17025 accreditation and participates in national and international performance testing. The parameters covered by accreditation may be viewed at www.inab.ie. Our current Scope and Accuracy of Analysis is included in this appendix. It gives details of both accredited and non-accredited tests along with where relevant:

- Units of measurement
- Lowest Reporting Value (LRV)
- Uncertainty of Measurement (95%)
- Reference Test Method
- Maximum sample storage period
- Sample Preservation

Analytical Determination of Phosphorus

Orthophosphate is determined in the Castlebar laboratory using a standard colorimetric method whereby the orthophosphate reacts with ammonium molybdate to form a blue complex, the intensity of which is directly proportional to the concentration of orthophosphate. This is also referred to as "molybdate reactive phosphorus" (or MRP). This technique may also measure small amounts of other forms of phosphorus present in the sample. In general, samples are not prefiltered before analysis unless the presence of suspended matter is likely to cause interference in the analysis. Total phosphorus, which is commonly monitored in lakes, is determined using the same analytical technique, after the sample is digested at high temperature using acid and persulphate.

Forms of Phosphorus

Phosphorus exists in water in either a particulate or dissolved phase. The dissolved phase includes inorganic phosphorus and organic phosphorus. Phosphorus in natural waters is usually found in the form of phosphates (PO_4^{3-}). Phosphates can be in inorganic form (including orthophosphates and polyphosphates), or organic form (organically-bound phosphates). Orthophosphate is sometimes referred to as "reactive phosphorus" and is the form of phosphorus used by plants. Polyphosphates are strong complexing agents for some metal ions. They are unstable in water and will eventually convert to orthophosphate. Organic phosphates are phosphates that are bound to plant or animal tissue and formed primarily by biological processes.

Analytical Determination of Nitrate

Nitrate is determined in the Castlebar laboratory by measuring for Total Oxidised Nitrogen (TON). Total Oxidised Nitrogen is the sum of nitrate and nitrite. However, as nitrite in river water is typically a very small percentage of the TON concentration, the TON value can be taken as the nitrate concentration.
Analytically, nitrate is reduced to nitrite by a hydrazine-copper reagent. The nitrite ion is then converted into a red azo-dye by sulphanilamide and N-(1-naphthyl)-ethylenediamine dihydrochloride. The intensity of the colour formed is proportional to the concentration of TON.
Nitrate may be determined directly by other means (e.g. Ion Chromatography).

Analytical Determination of Ammonia

There are a number of techniques available, the most common of which are colorimetric tests. These tests measure the total amount of ammonia present, i.e. they cannot discriminate between ionised and unionised ammonia.

Ammonia in River Waters

Ammonia is very important to plant, animal and human life. It is a source of nitrogen, a nutrient to plants, and when deposited from the atmosphere onto land it can enrich the nitrogen content of habitats. It occurs naturally in the environment at low levels.

The most widespread environmental problems arise when ammonia is deposited from the atmosphere onto plants, soil and water. Though not normally the limiting factor, it can cause eutrophication of surface waters. When deposited in large quantities, ammonia can cause soil, streams and lakes to become acidic, affecting plants and aquatic biodiversity. High concentrations of ammonia in the air can also damage plants such as lichen, moss and heather, important components of balanced habitats. Ammonia can also contribute to poor air quality by reacting with the atmosphere to form fine particles.

Forms of Ammonia

Ammonia occurs naturally in water bodies arising from the microbiological decomposition of nitrogenous compounds in organic matter. Ammonia exists in water as either Unionised Ammonia (NH_3) or as Ionised Ammonia (NH_4^+) according to the following equilibrium:

$$NH_3 + H_2O \leftrightarrow NH_4^+ + OH^-$$

The balance between the two depends on temperature and more critically on pH. As the pH increases, the amount of NH_3 (unionised ammonia) also increases. At low pH the amount of unionised ammonia also is generally very low. Unionised ammonia is highly toxic to fish even at relatively low levels.

Biochemical Oxygen Demand of River Waters

Biochemical Oxygen Demand is a measure of how much dissolved oxygen is being consumed as microbes break down organic matter. A high demand, therefore, can indicate that levels of dissolved oxygen are falling, with potentially dangerous implications for a river's biodiversity.
High biochemical oxygen demand can be caused by:

- high levels of organic pollution, caused by poorly treated wastewater
- high nutrient levels, which trigger high plant growth

When aquatic plants die, aerobic bacteria feed upon them and nutrients, such as nitrates and phosphates, are released into the water body, stimulating plant growth. Eventually, more plant growth leads to more plant decay. Nutrients can be a prime contributor to high biochemical oxygen demand in rivers.

In rivers with high BOD levels, aerobic bacteria consume much of the available dissolved oxygen, robbing other aquatic organisms of the oxygen they need to live. Organisms that are more tolerant of lower dissolved oxygen levels may appear and become numerous, such as carp, midge larvae and sewage worms. Organisms that are intolerant of low oxygen levels, such as caddisfly larvae and mayfly and stonefly nymphs, will not survive. As organic pollution increases, the ecologically stable and complex relationship present in waters containing a high diversity of organisms is replaced by a low diversity of pollution-tolerant organisms with increasing populations. A typical BOD for a clean river is usually <3mg/l O_2.

Castlebar Regional Inspectorate, Castlebar, Co. Mayo

ISO17025 Quality Manual

Scope and accuracy of analysis

SUBSTANCES TESTED

766 WATERS
.02 Irrigation & Stock
.03 Industrial & Steam Raising Purposes
.04 Sewage
.06 Saline Waters
.07 Bore Waters
.99 Other Waters
Surface waters

LABORATORY

Environmental Protection Agency
John Moore Road
Castlebar

Tests for which the Laboratory is Accredited

The Laboratory is accredited by the Irish National Accreditation Board for the tests listed below. The table also lists the units of measurement, the lowest reported value (LRV), the uncertainty of the analysis, the reference of the test methods used, the maximum storage period for which samples may be stored before analysis and the method of preservation of samples prior to analysis.

Parameter	Units	Lowest Reported Value (LRV)	Uncertainty (95%)	Reference Test Method	Maximum Storage Period (before analysis)	Sample Preservation
Biochemical Oxygen Demand (BOD)	mg/l O_2	1.0	± 18.7 %	APHA Section 5210 B	35 hours	Refrigeration
Colour	Hazen	5	± 7.1 %	APHA Section 2120	35 hours	Refrigeration
Conductivity	µS/cm	15	± 1.6 %	APHA Section 2510	35 hours	Refrigeration
pH	pH unit	0.1	± 0.1 pH	APHA Section 4500 H^+	35 hours	Refrigeration
Turbidity	NTU	0.5	± 8.5 %	APHA Section 2130 B	35 hours	Refrigeration
Suspended Solids	mg/l	8	± 10.8 %	APHA Section 2540 D	7 days	Refrigeration
Total Solids	mg/l	30	± 10.6 %	APHA Section 2540 B	7 days	Refrigeration
Total Dissolved Solids	mg/l	60	± 12.5 %	APHA Section 2540 C	7 days	Refrigeration
Chemical Oxygen Demand (COD) *	mg/l O_2	25	± 10.7 %	APHA Section 5220 D	35 hours	Refrigeration
Total Hardness	mg/l $CaCO_3$	30	± 6.1 %	APHA Section 2340 C	35 hours	Refrigeration
Alkalinity	mg/l $CaCO_3$	8	± 5.3 %	APHA Section 2320 B/ Blue Bk HMSO 0117516015	35 hours	Refrigeration
Ammonia *	mg/l N	0.03	± 9.1 %	Blue Bk HMSO 0117516139	35 hours	Refrigeration
Chloride	mg/l Cl	2	± 7.1 %	APHA Section 4500-Cl E	35 hours	Refrigeration
Total Oxidised Nitrogen (TON) *	mg/l N	0.4	± 12.6 %	APHA Section 4500-NO_3 H	35 hours	Refrigeration
o-Phosphate	mg/l P	0.012	± 9.7 %	APHA Section 4500-P E	35 hours	Refrigeration
Nitrite	mg/l N	0.005	± 12.3 %	APHA Section 4500-NO_2 B	35 hours	Refrigeration
Silica	mg/l Si	0.1	± 6.6 %	APHA Section 4500-SiO_2 D	28 days	Refrigeration
Fluoride	mg/l F	0.03	± 8.9 %	APHA Section 4110	28 days	None
Nitrate *	mg/l N	0.05	± 5.2 %	APHA Section 4110	35 hours	Refrigeration
Sulphate	mg/l SO_4	0.5	± 4.1 %	APHA Section 4110	28 days	Refrigeration

Tests for which the Laboratory is not Accredited

Parameter	Units	Lowest Reported Value (LRV)	Uncertainty (95%)	Reference Test Method	Maximum Storage Period (before analysis)	Sample Preservation
Temperature (Field)	^0C	0.1		APHA Section 2550	Immediately	None
Dissolved Oxygen (Field)	% Sat	1.0		APHA Section 4500-O G	Immediately	None
Salinity	$^0/_{oo}$Sal	1.0		APHA Section 2520 B	Immediately	None
Total Nitrogen	mg/l N	1.0		Automated Digestion / Chemiluminescence	28 days	H_2SO_4 to pH <2 & Refrigeration
Cyanide (total)	mg/l	0.05		Offline digestion / FIA Analysis	14 days	**NaOH to pH >12 &Refrigeration**
Hexavalent Chromium	µg/l	5.0	12.6	In-house method	35 hours	**Refrigeration**
Fats, Oils & Greases	mg/l	5.0		APHA Section 5220 D	28 days	H_2SO_4 to pH <2 & Refrigeration
Chlorophyll	mg/m^3	2.0		Methods for Physical & Chemical Analysis of Freshwaters 1978	35 hours	Refrigeration
Calcium Hardness	mg/l $CaCO_3$	10		APHA Section 3500-Ca B	35 hours	Refrigeration
Total & Free Residual Chlorine	mg/l Cl_2	0.03		APHA Section 4500-Cl G	Immediately	None
Odour	None	None		APHA Section 2150	35 hours	Refrigeration
Coliforms (Total & Faecal)	No / 100mls	1		APHA Section 9223	35 hours	Refrigeration
Faecal Streps	No / 100 mls	1		Bacteriological Examination of water supplies HMSO 1977	35 hours	Refrigeration
All Metals	mg/l or µg/l	various		APHA Section 3125 (ICP-MS)	6 months	HNO_3 to pH <2

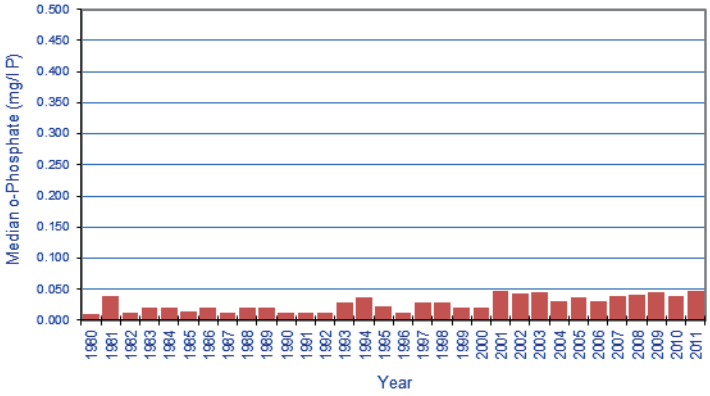
* The Laboratory is not accredited for measuring these parameters in saline samples.
The Laboratory is not accredited for sampling. The results of analysis reflect the sample(s) as submitted to the Laboratory
APHA Reference: Standard Methods for the Examination of Water and Wastewater, American Public Health Association (APHA) 21^s edition, 2005
Blue Bk Reference: Methods for the Examination of Waters and Associated Materials 1976 – 1992
Test Reports relate only to the samples tested and as described on the report form.
Test Reports shall not be reproduced except in full, without the written consent of the EPA.
The Uncertainty values listed above are for samples in the normal analytical range and not requiring dilution before analysis

Uncertainty = $\sqrt{2 \times (\text{PRECISION})^2 + (\text{BIAS})^2}$

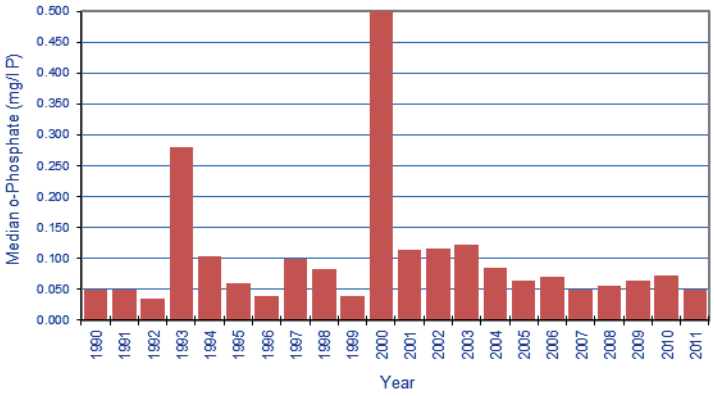
APPENDIX 4. ORTHO-PHOSPHATE TRENDS 1979 – 2011

Galway

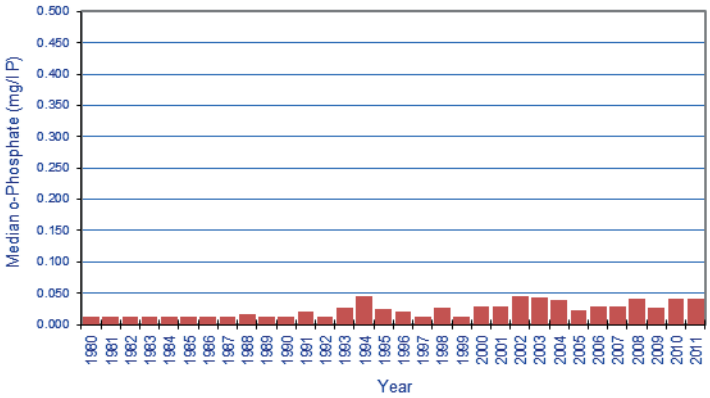
River: Abbert Station No.: 0300



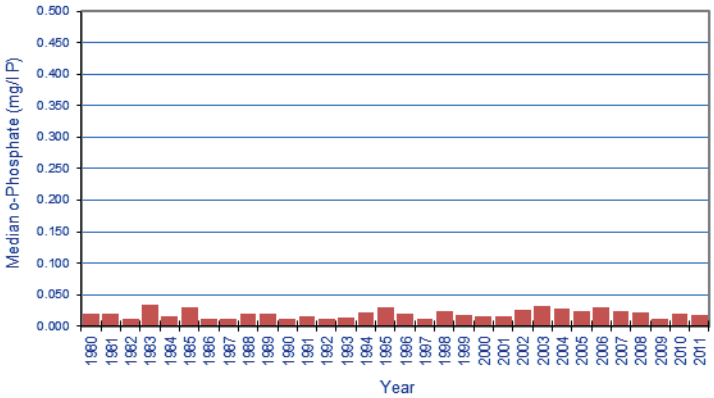
River: Bearna Stream Station No.: 0300



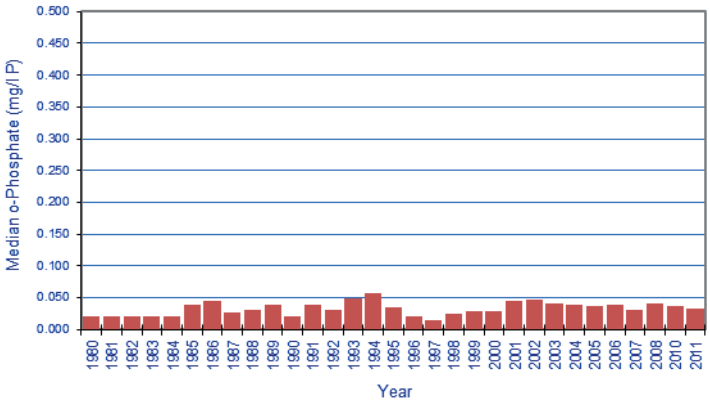
River: Black (Shrule) Station No.: 0400



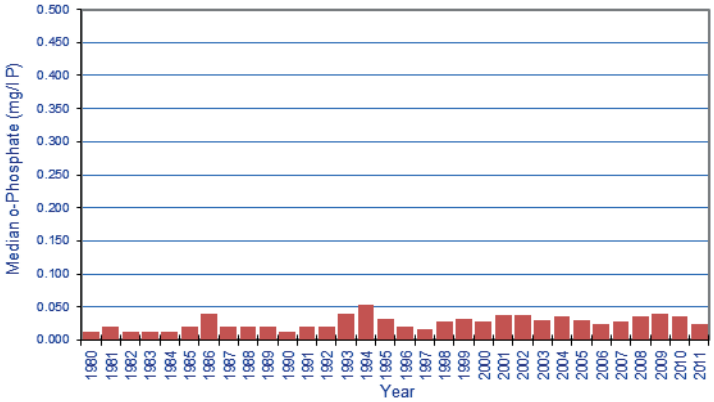
River: Cannahowna Station No.: 0200



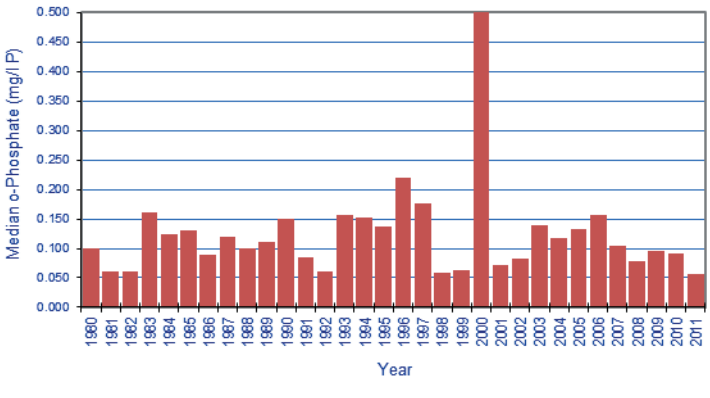
River: Clare Station No.: 0800



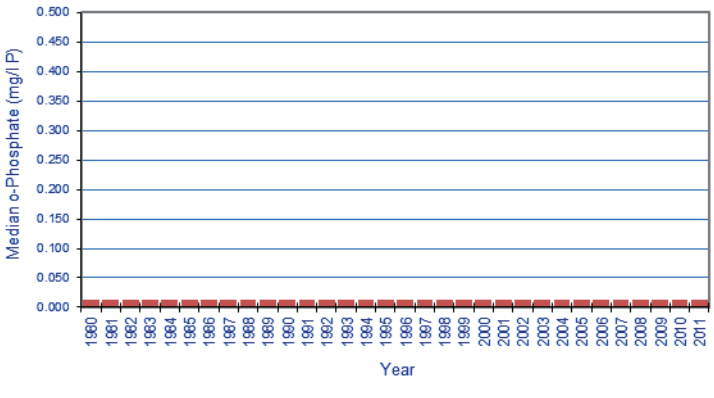
River: Clare Station No.: 1300



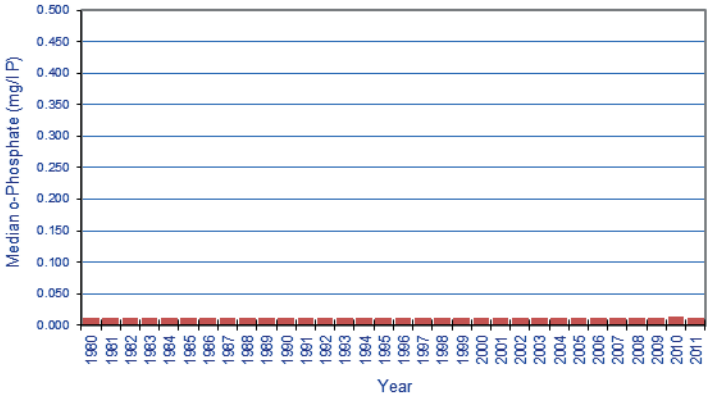
River: Clarinbridge Station No.: 0300



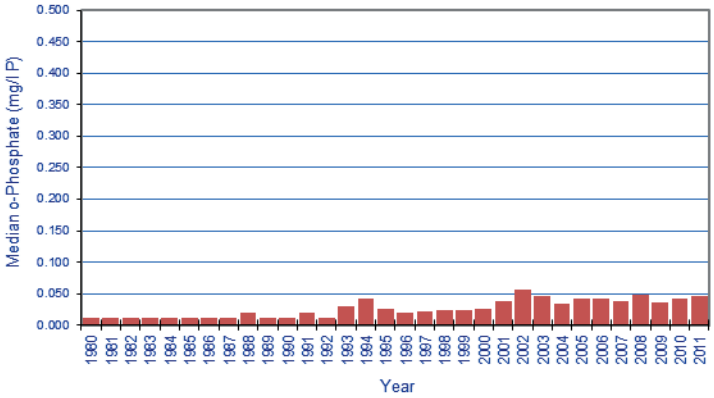
River: Corrib Station No.: 0100



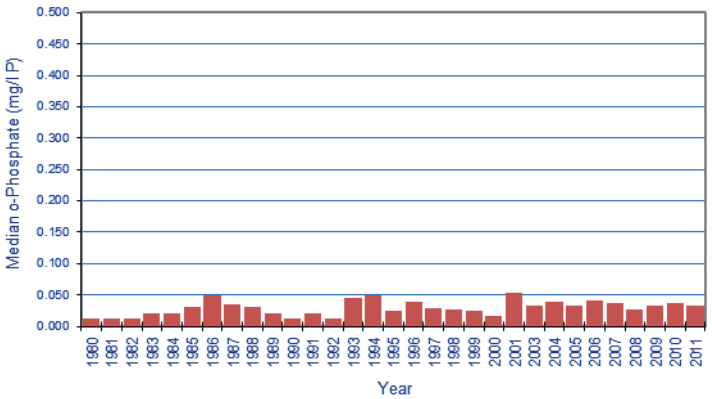
River: Corrib Station No.: 0500



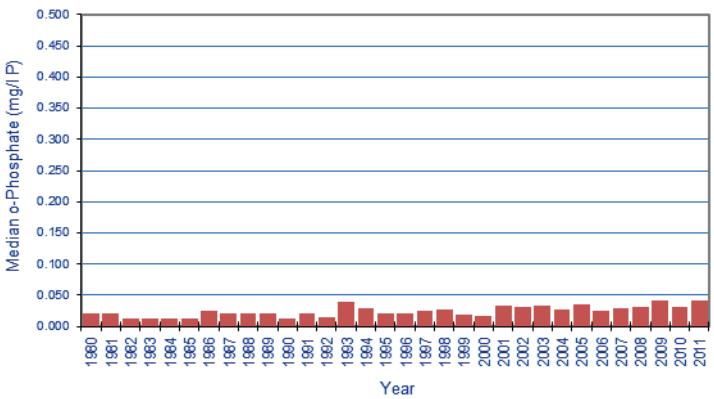
River: Cregg Station No.: 0100



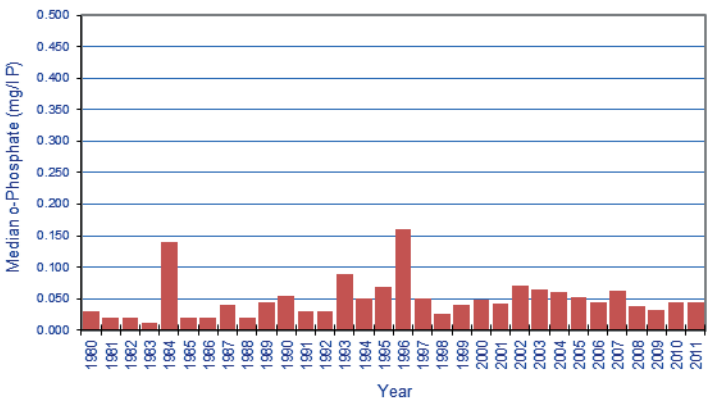
River: Dalgan Station No.: 0600



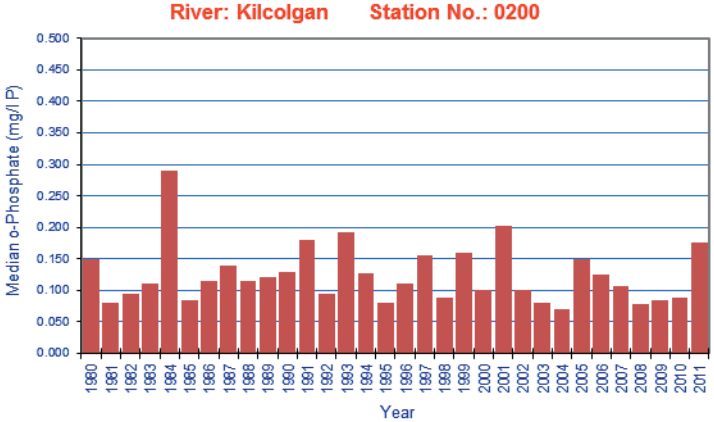
River: Grange Station No.: 0400



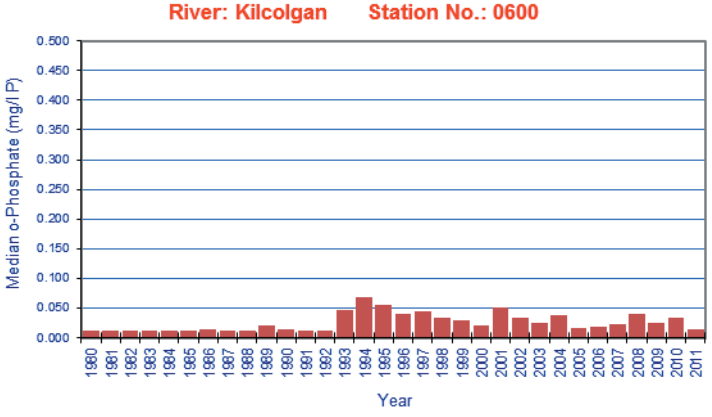
River: Headford Station No.: 0300



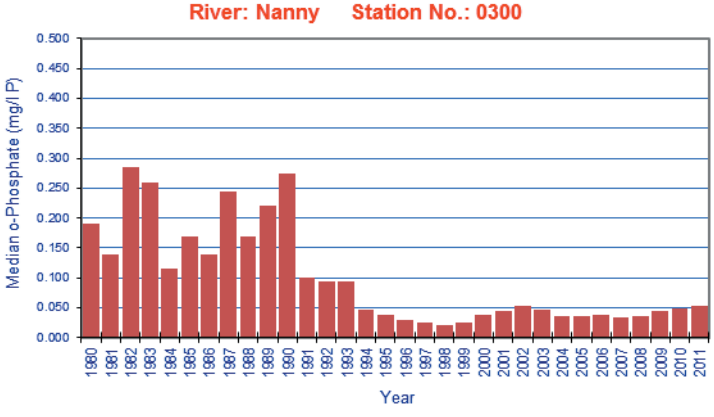
River: Kilcolgan Station No.: 0200



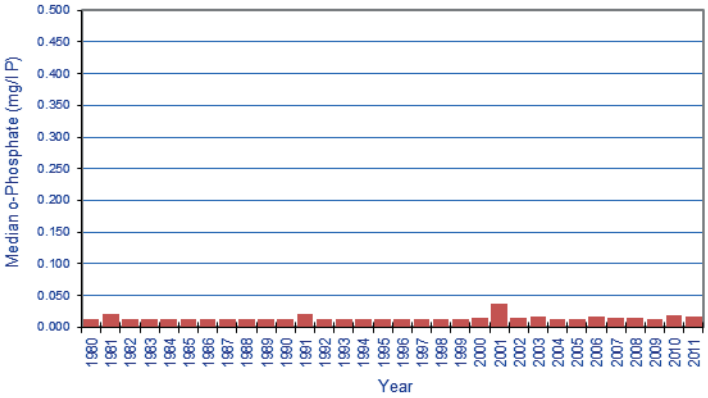
River: Kilcolgan Station No.: 0600



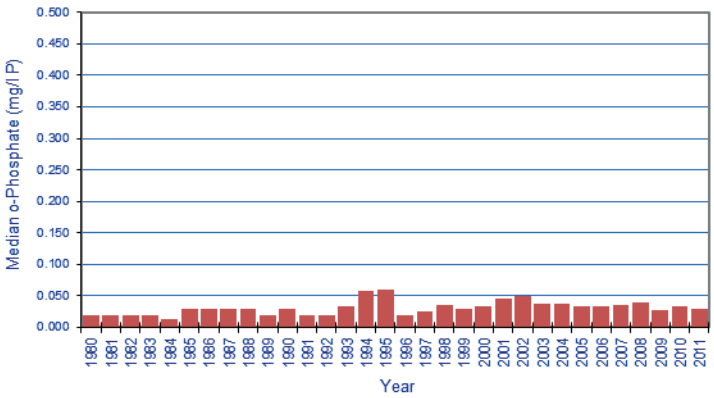
River: Nanny Station No.: 0300



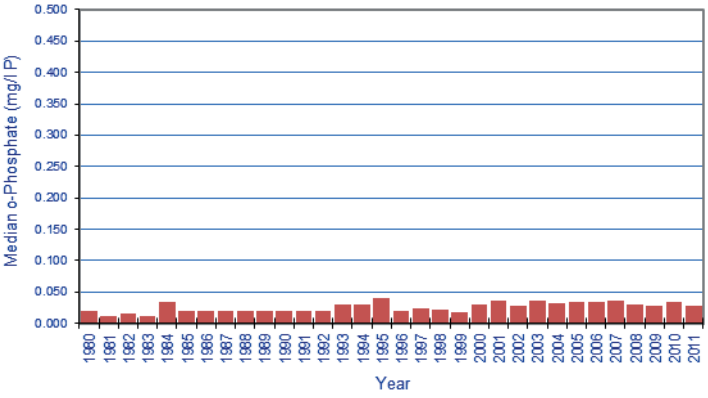
River: Owenriff (Corrib) Station No.: 0200



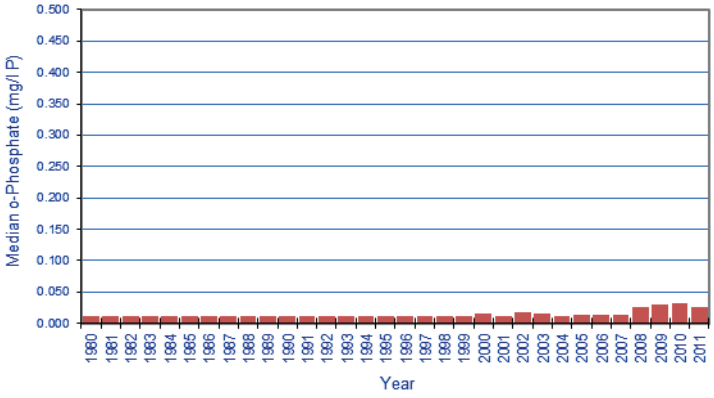
River: Raford Station No.: 0200



River: Sinking Station No.: 0300

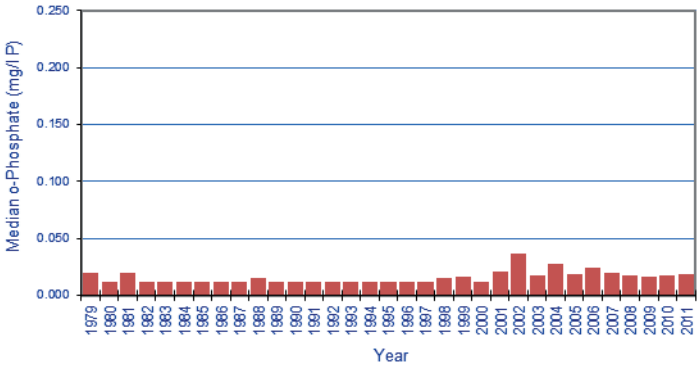


River: Terryland Station No.: 0300

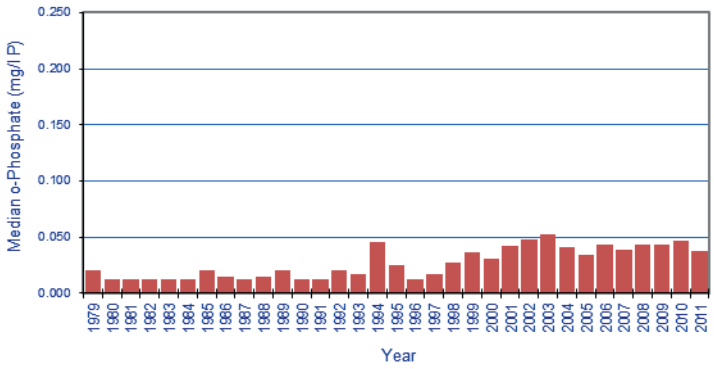


Mayo

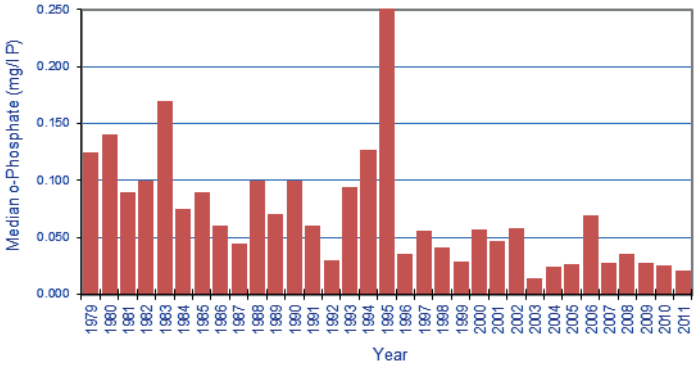
River: Ballinglen Station No.: 0100



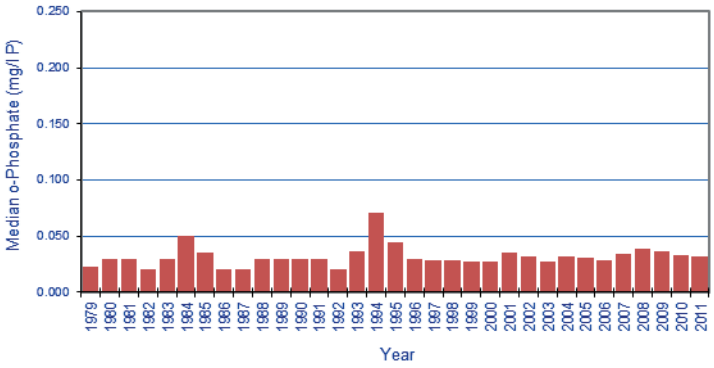
River: Black (Shrule) Station No.: 0100



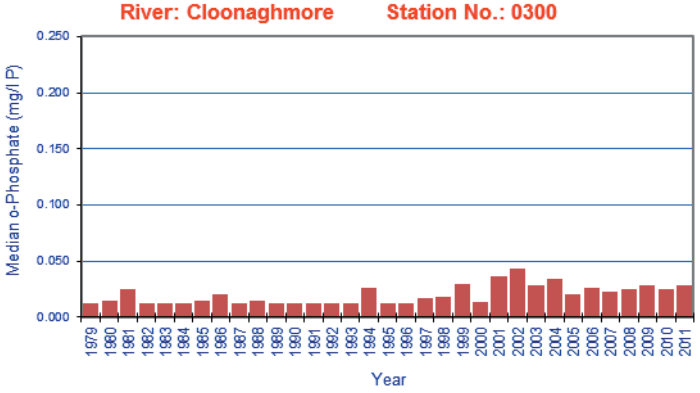
River: Castlebar Station No.: 0200



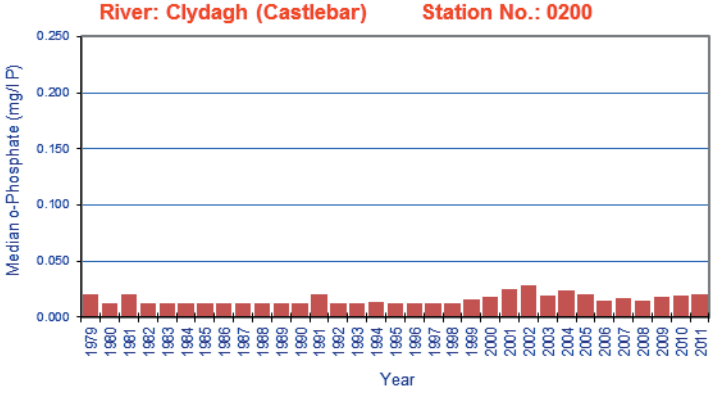
River: Castlebar Station No.: 0500



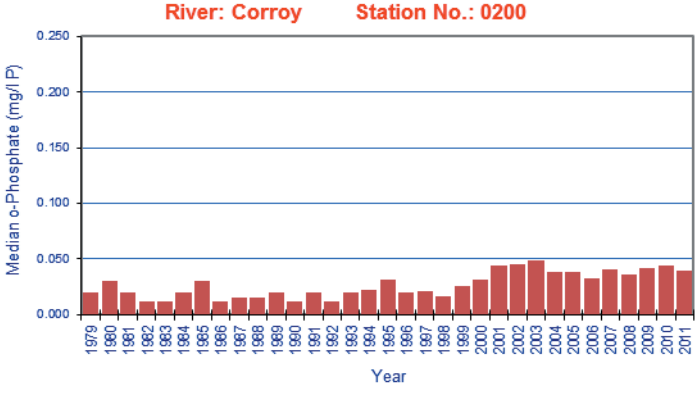
River: Cloonaghmore Station No.: 0300



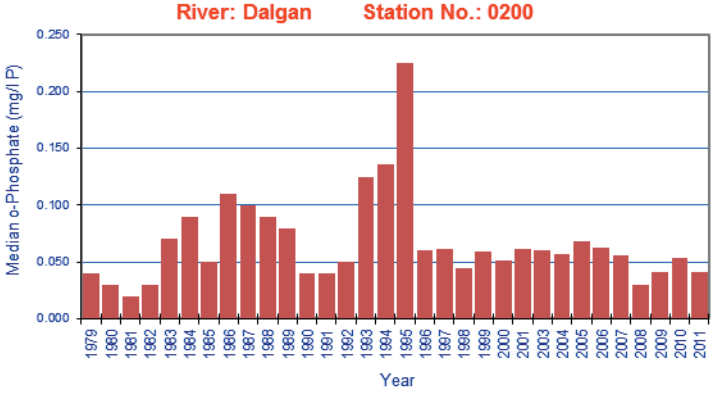
River: Clydagh (Castlebar) Station No.: 0200



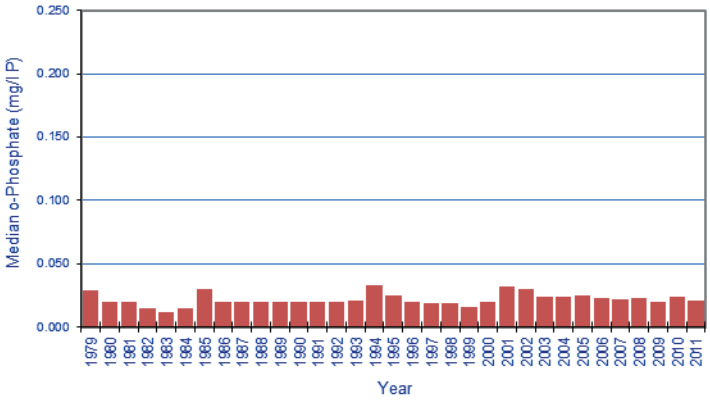
River: Corroy Station No.: 0200



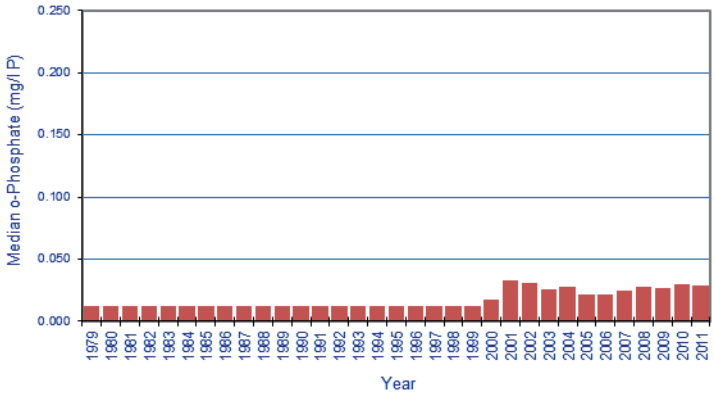
River: Dalgan Station No.: 0200



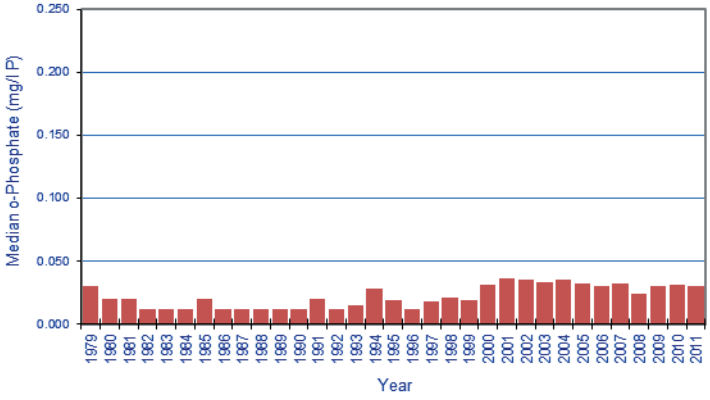
River: Deel Station No.: 0300



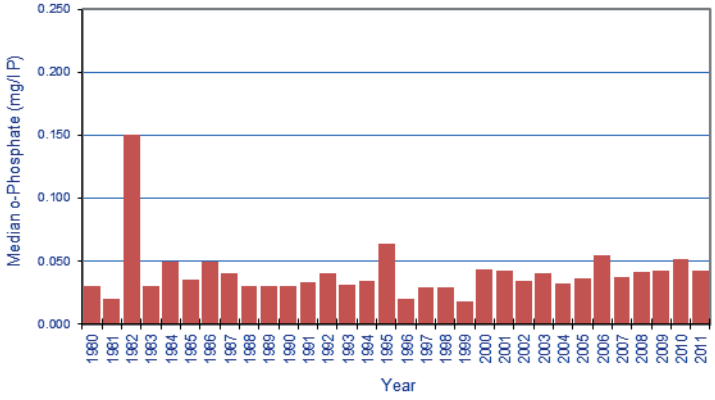
River: Glore Station No.: 0200



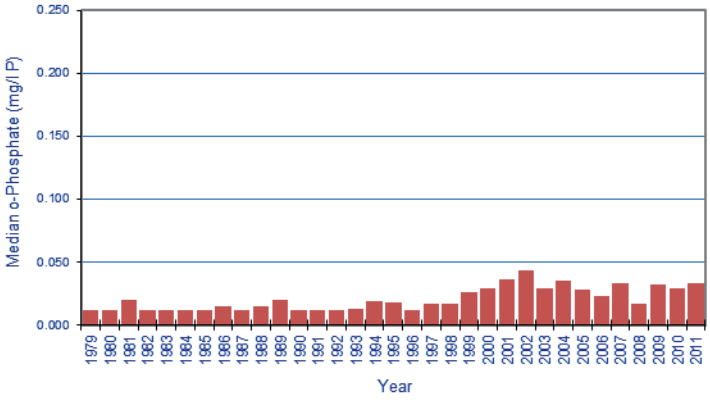
River: Gweestion Station No.: 0200



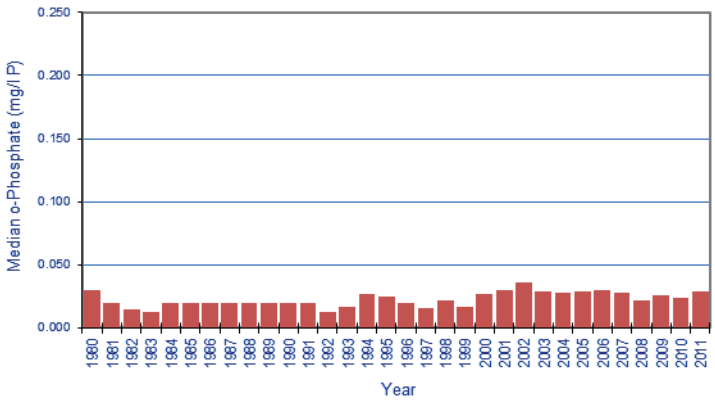
River: Loughnaminoo Str Station No.: 0200



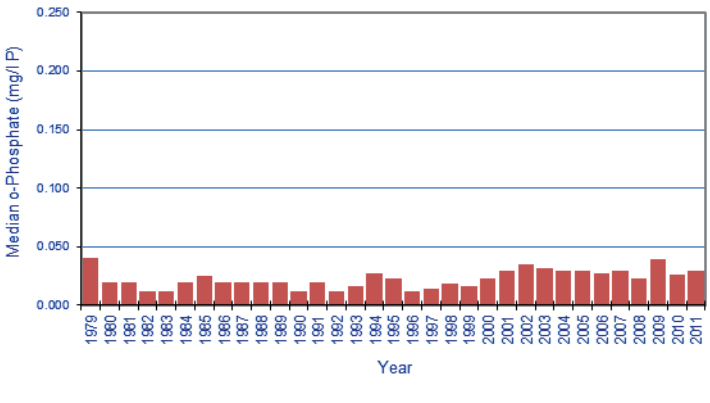
River: Manulla Station No.: 0500



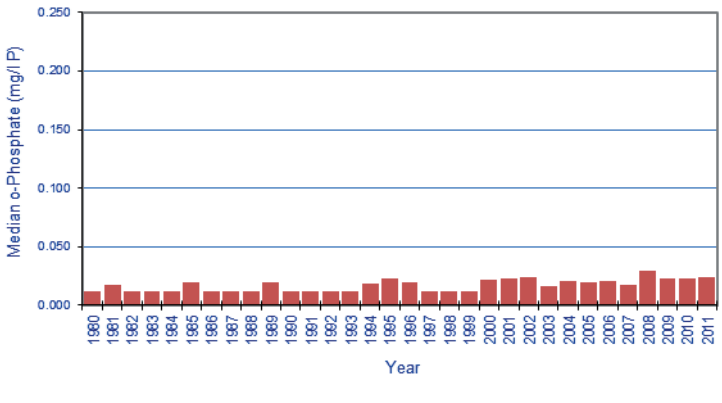
River: Moy Station No.: 0500



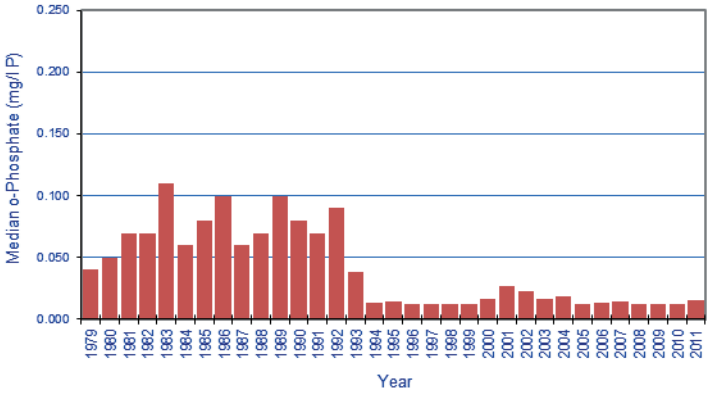
River: Moy Station No.: 0700



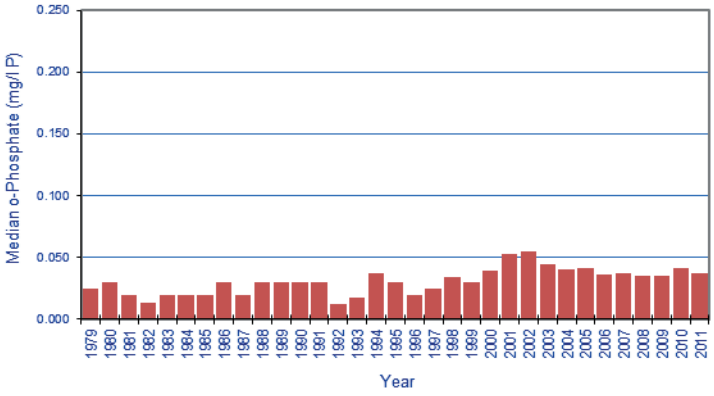
River: Moy Station No.: 1100



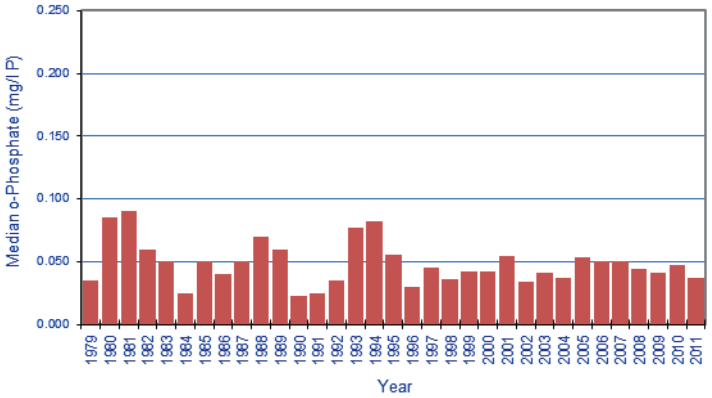
River: Owenmore Station No.: 0300



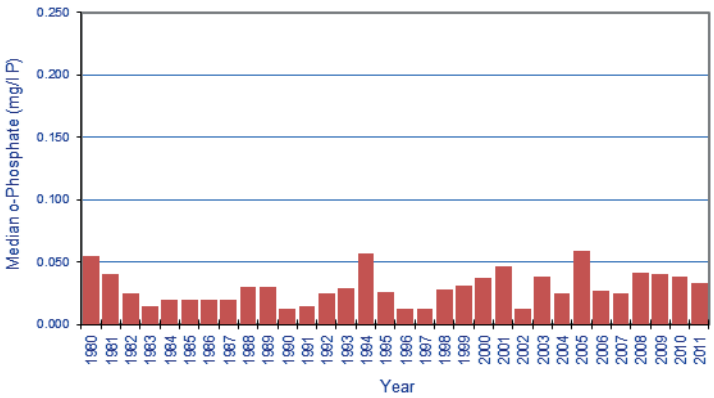
River: Pollagh Station No.: 0300



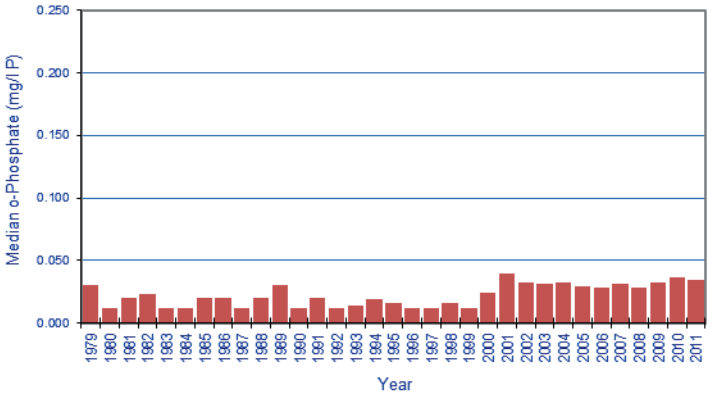
River: Robe Station No.: 0200



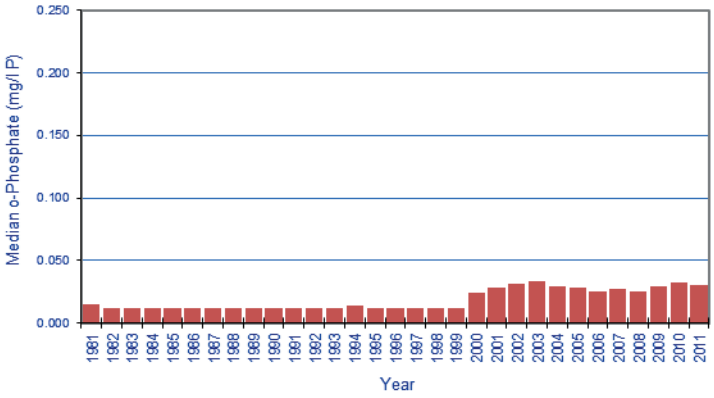
River: Robe Station No.: 0600



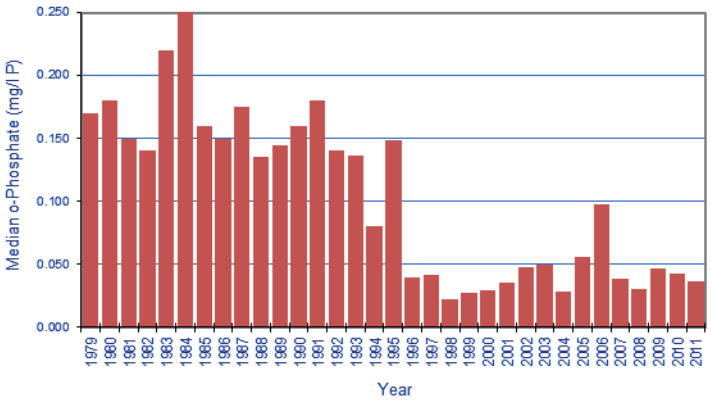
River: Sonnagh Station No.: 0100



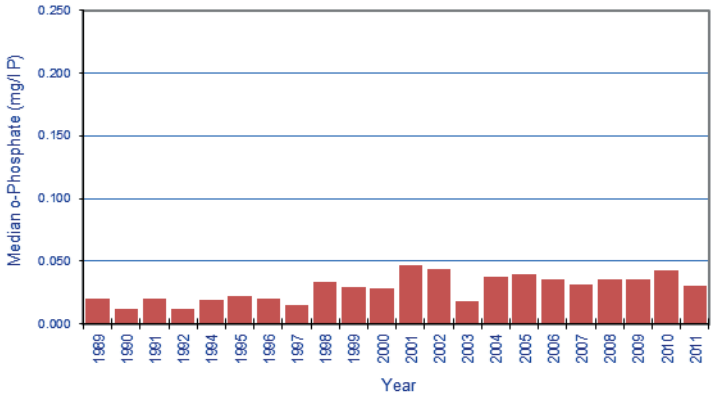
River: Spaddagh Station No.: 0200



River: Swinford Station No.: 0200

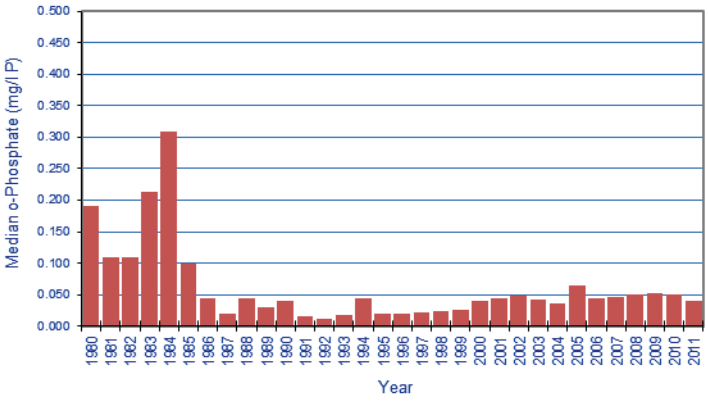


River: Yellow (Knock) Station No.: 0250

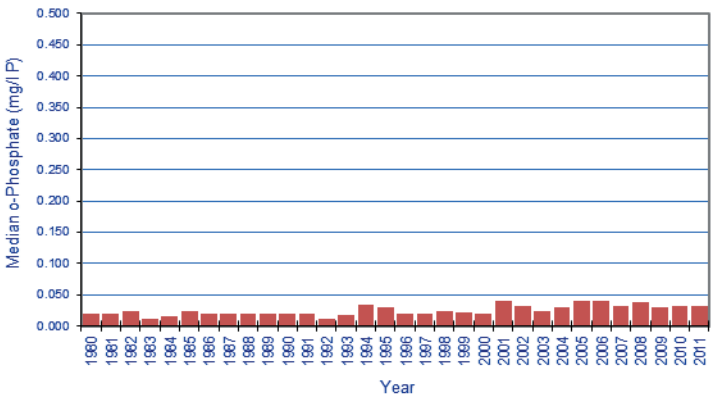


Sligo

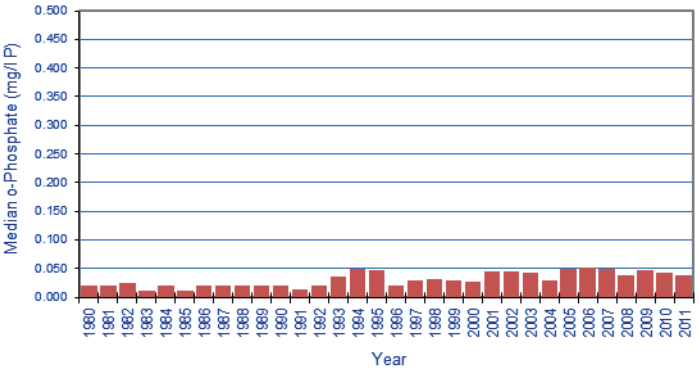
River: Ballymote Str Station No.: 0100



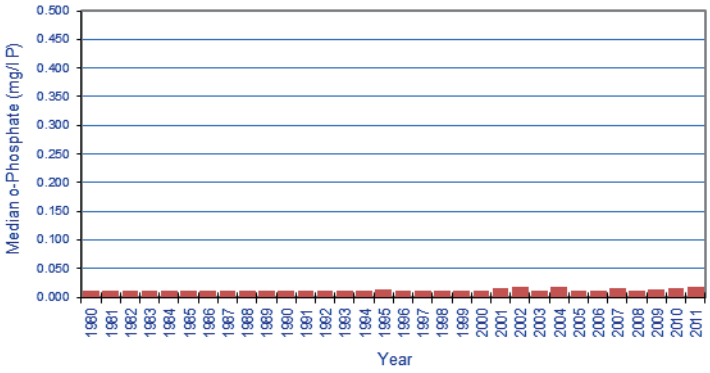
River: Ballysodare Station No.: 0100



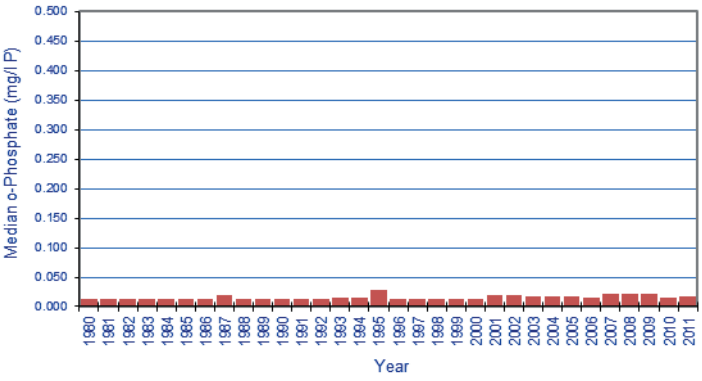
River: Bunnanaddan Str Station No.: 0200



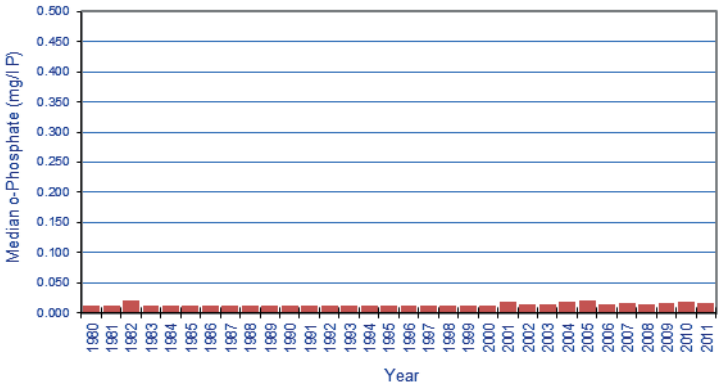
River: Drumcliff Station No.: 0200



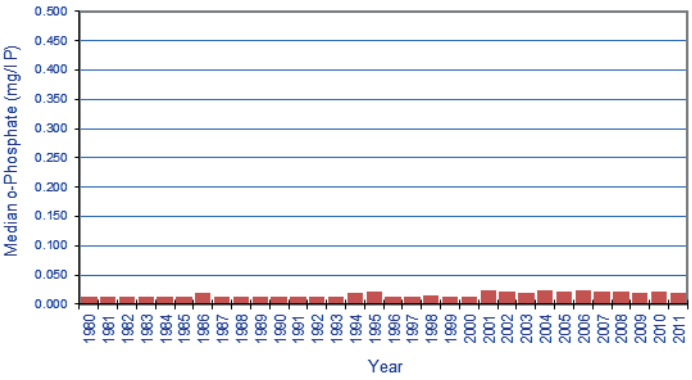
River: Easky Station No.: 0300



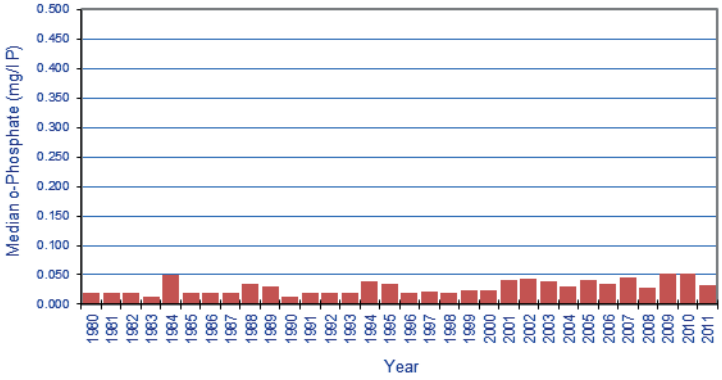
River: Eighnagh Station No.: 0100



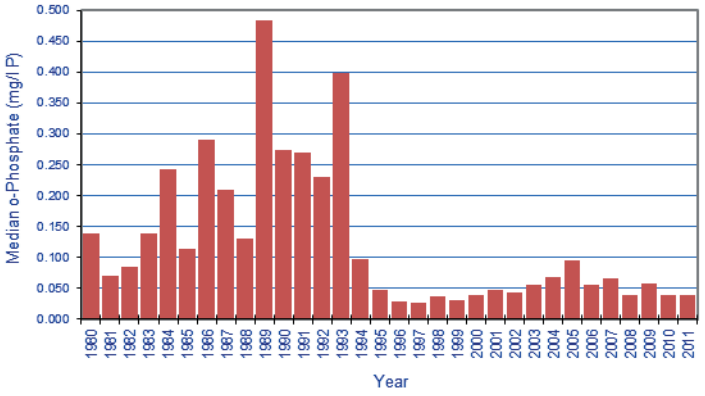
River: Garavogue Station No.: 0100



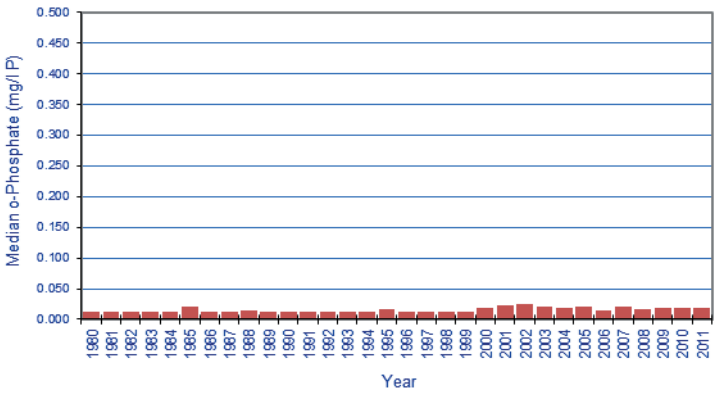
River: Grange Station No.: 0200



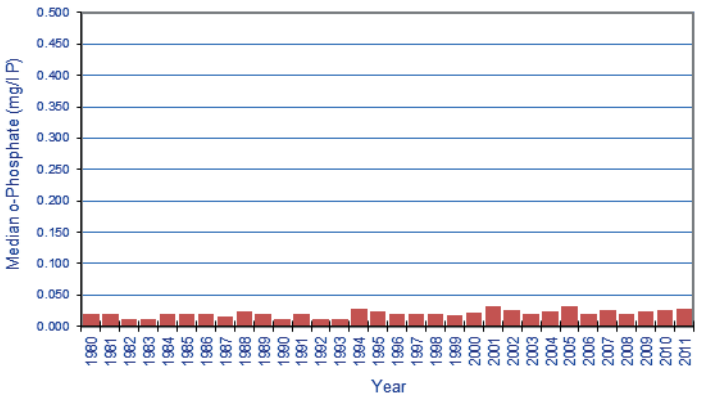
River: Gurteen Station No.: 0200



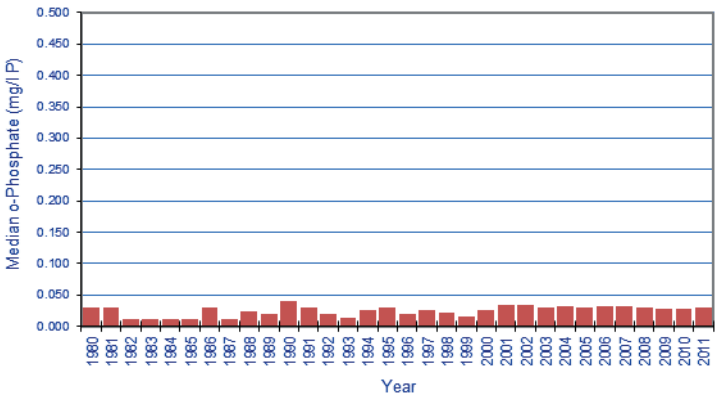
River: Moy Station No.: 0100



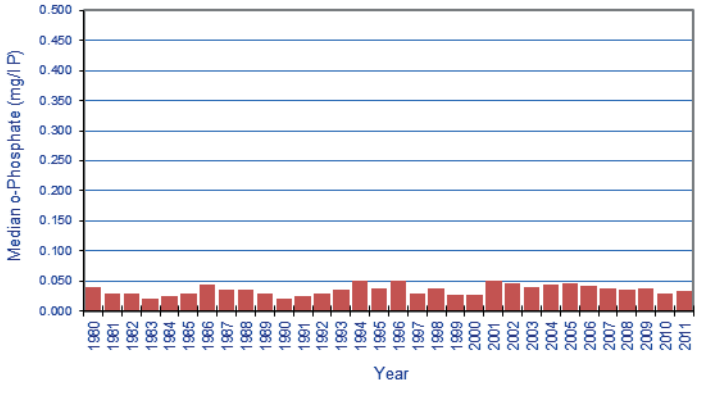
River: Moy Station No.: 0400



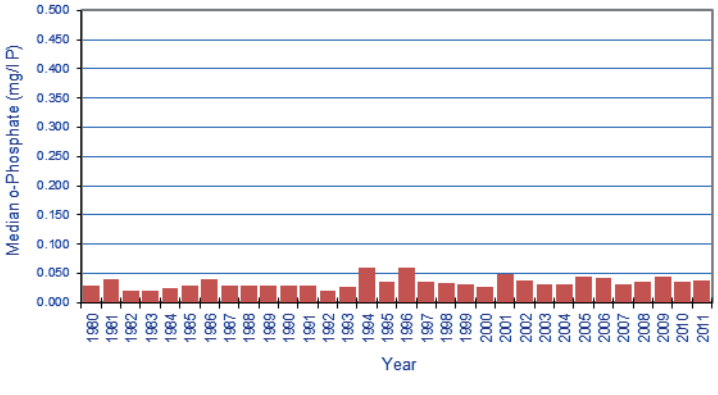
River: Owengarve Station No.: 0200



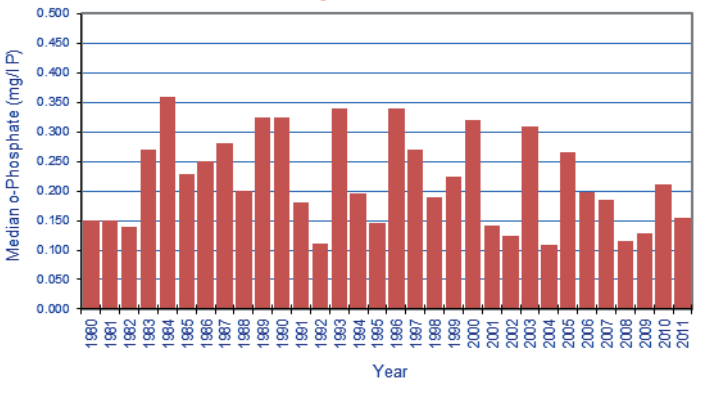
River: Owenmore Station No.: 0200



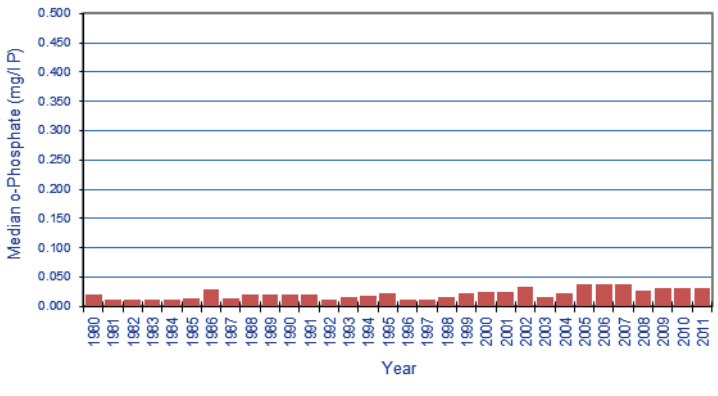
River: Owenmore Station No.: 0900



River: Tubbercurry Station No.: 0050

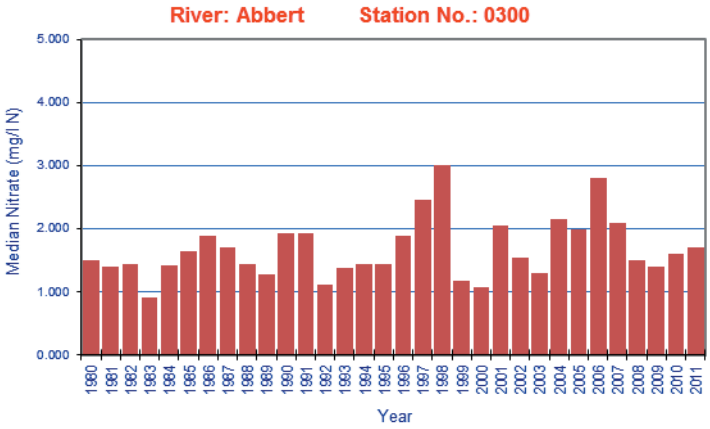


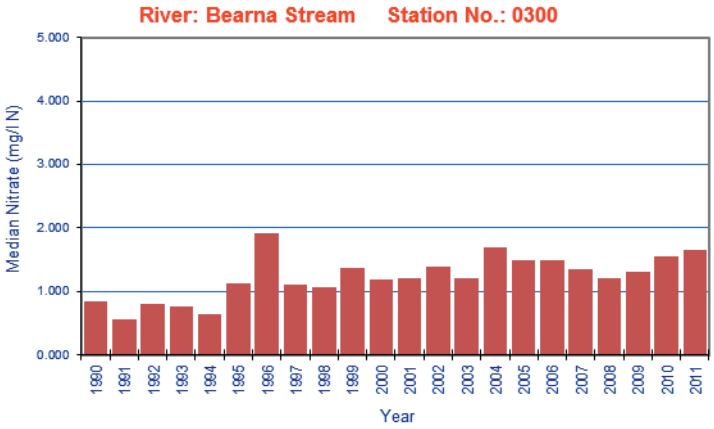
River: Unshin Station No.: 0600

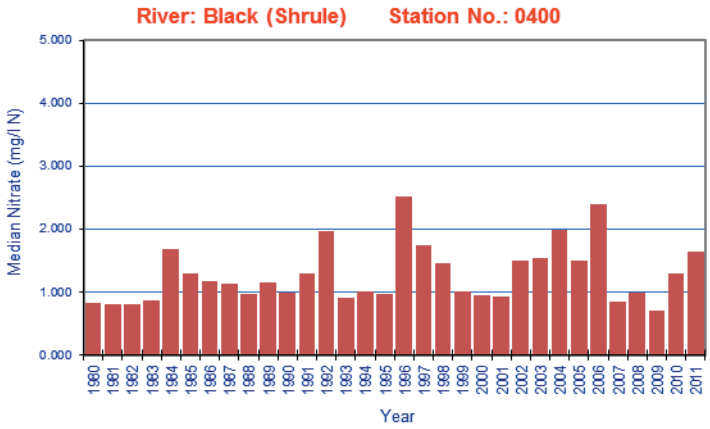


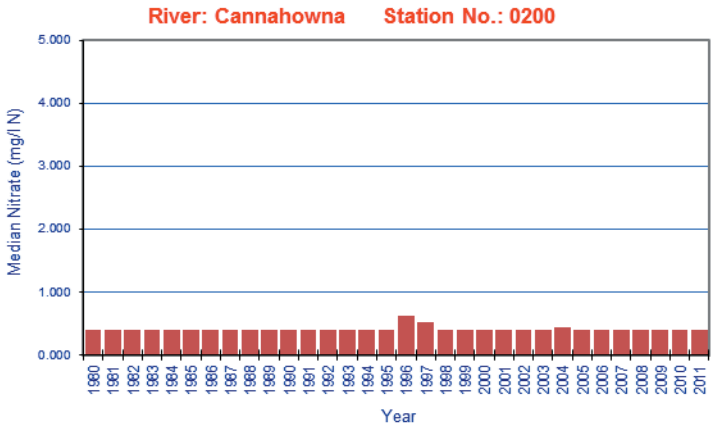
APPENDIX 5. NITRATE TRENDS 1979 – 2011

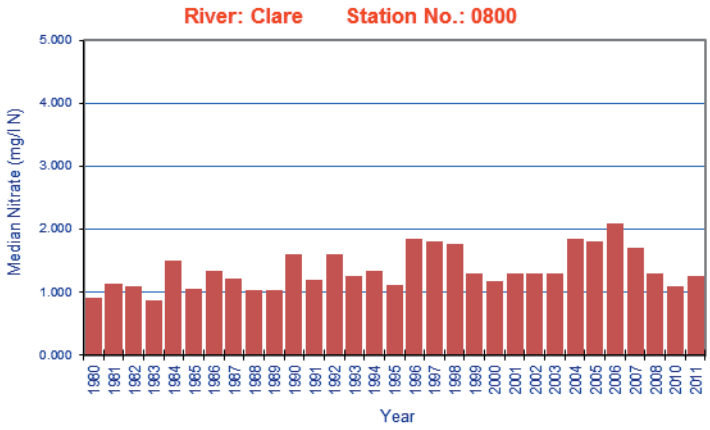
Galway

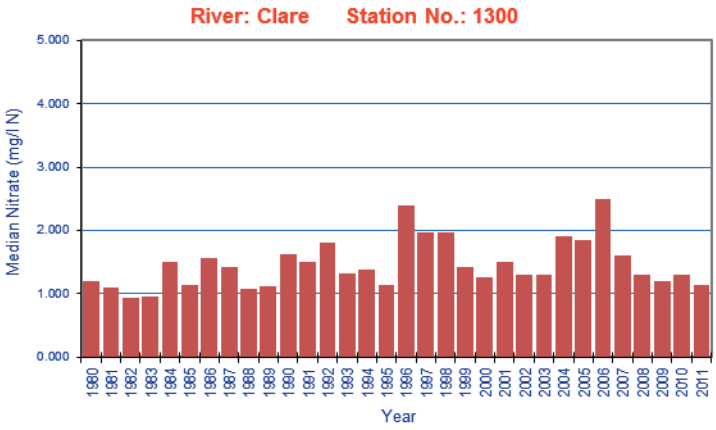




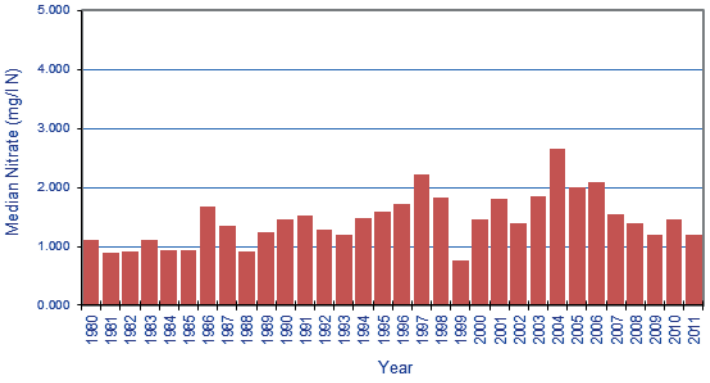




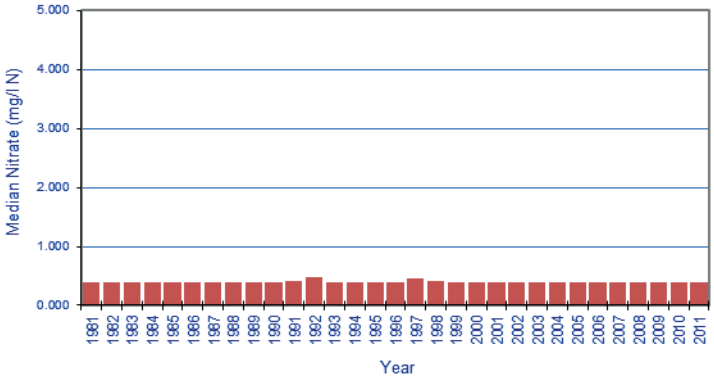




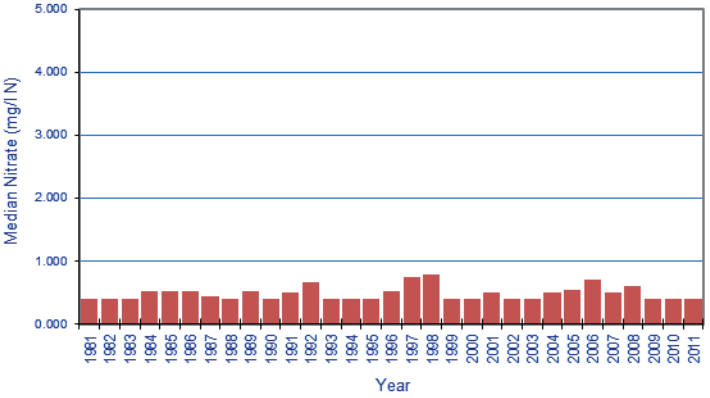
River: Clarinbridge Station No.: 0300



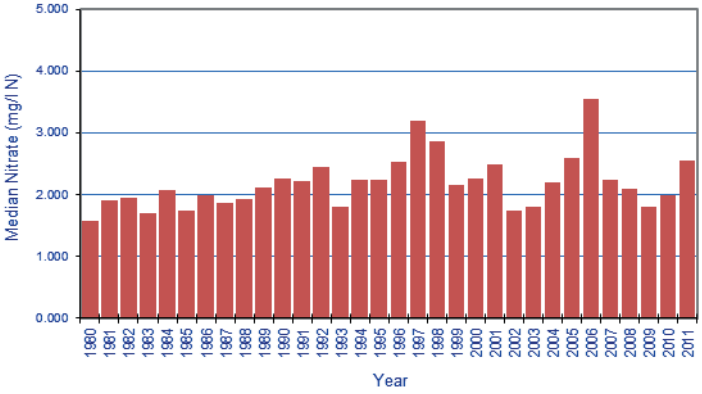
River: Corrib Station No.: 0100



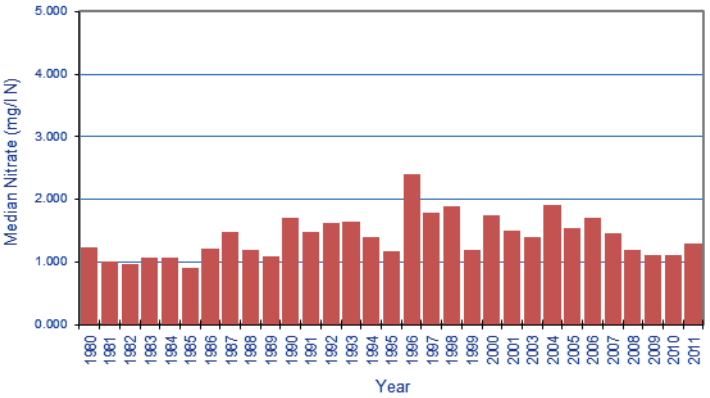
River: Corrib Station No.: 0500



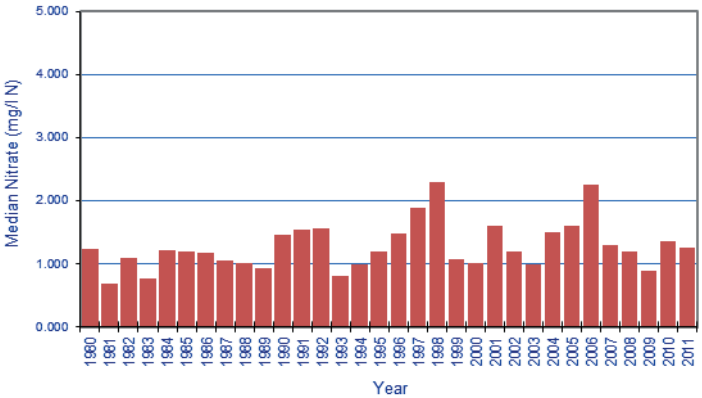
River: Cregg Station No.: 0100



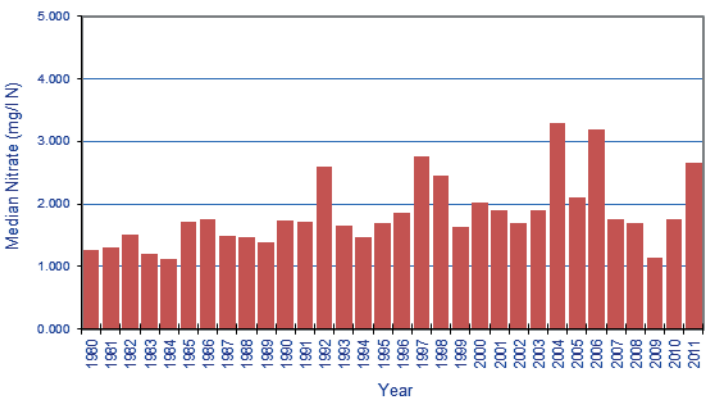
River: Dalgan Station No.: 0600



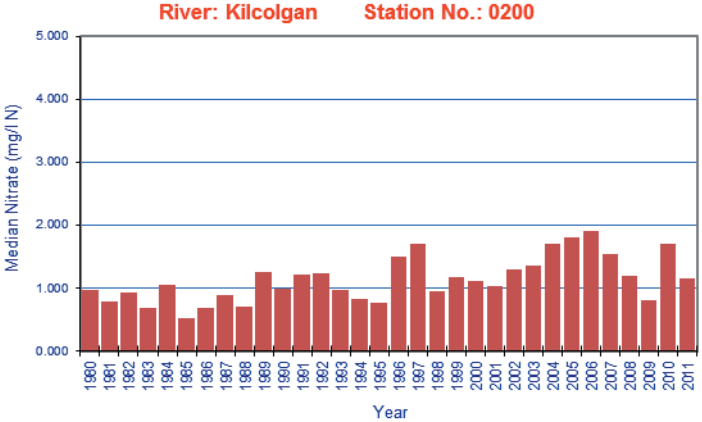
River: Grange Station No.: 0400



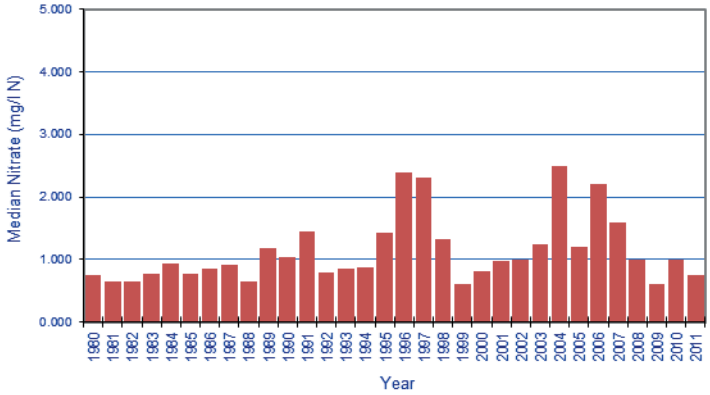
River: Headford Station No.: 0300



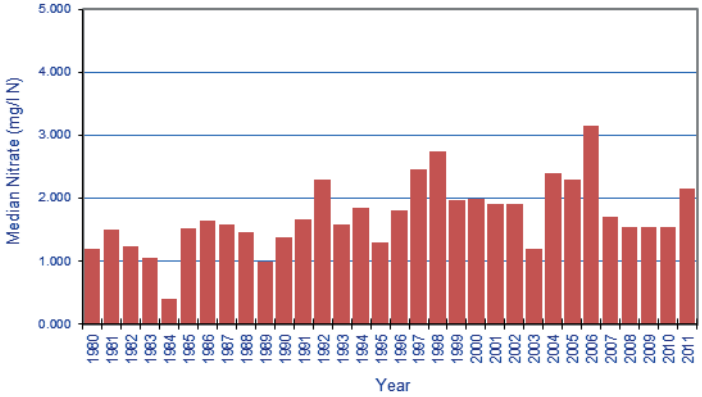
River: Kilcolgan Station No.: 0200



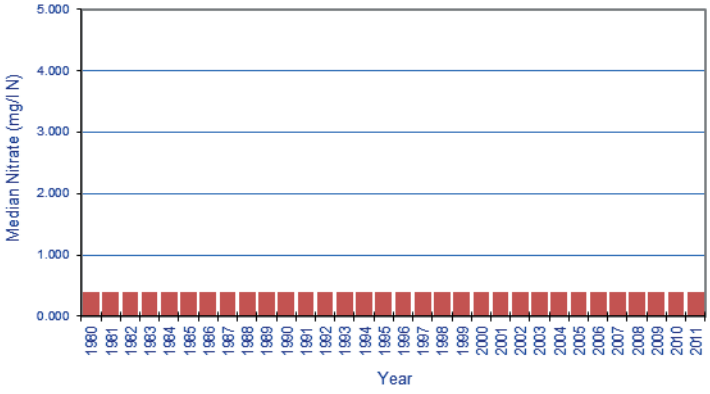
River: Kilcolgan Station No.: 0600



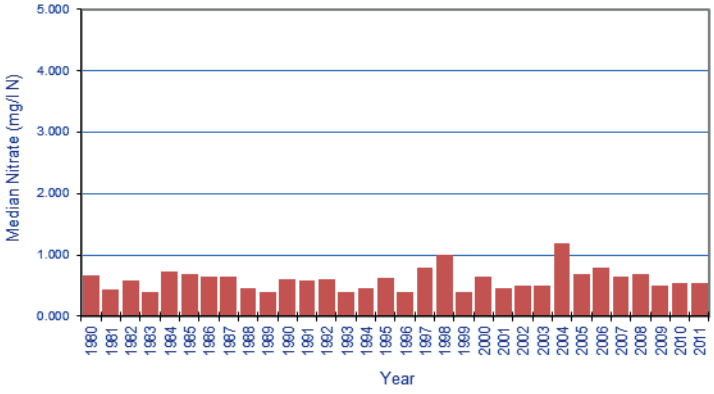
River: Nanny Station No.: 0300



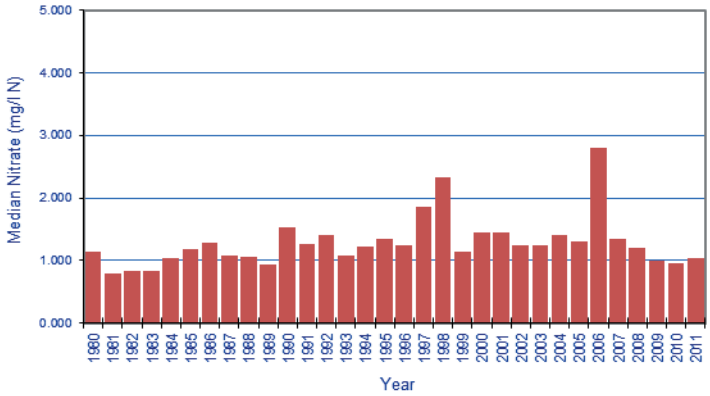
River: Owenriff (Corrib) Station No.: 0200



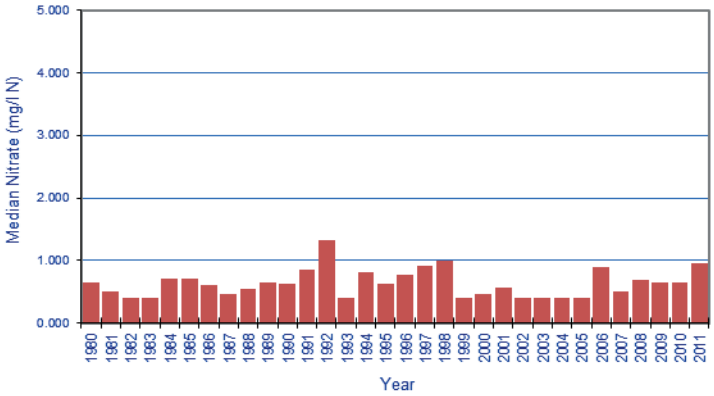
River: Raford Station No.: 0200



River: Sinking Station No.: 0300

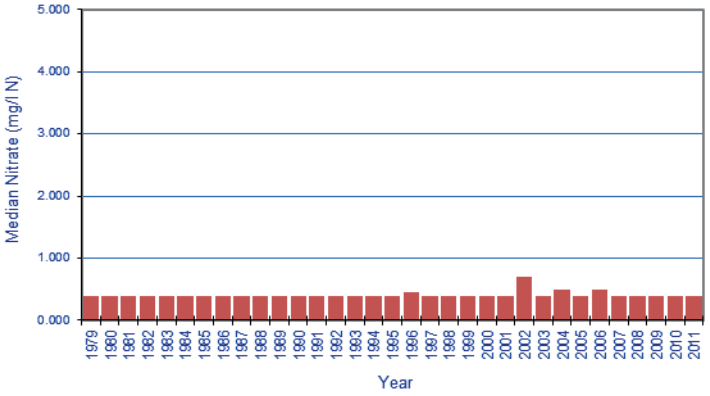


River: Terryland Station No.: 0300

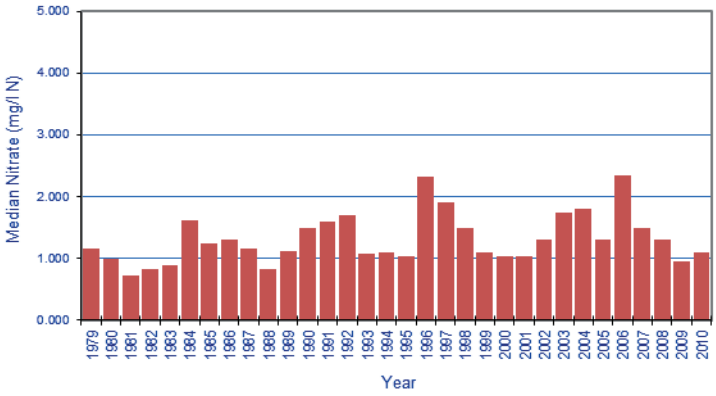


Mayo

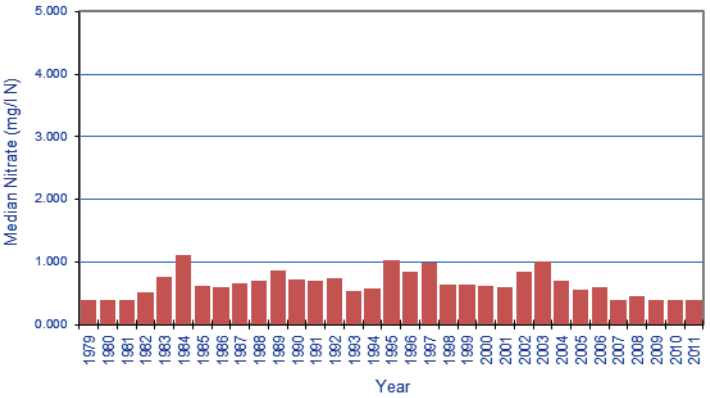
River: Ballinglen Station No.: 0100



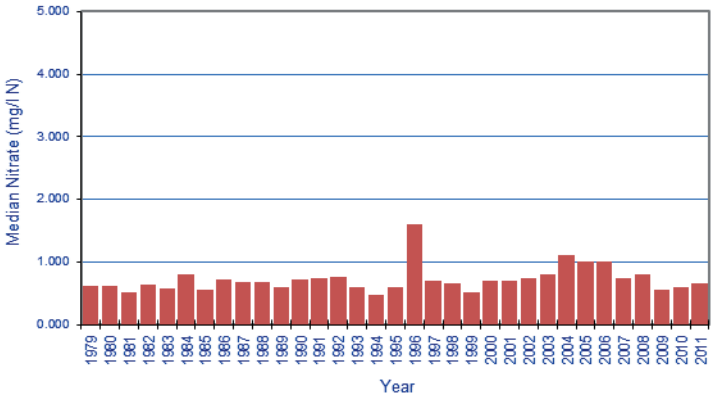
River: Black (Shrule) Station No.: 0100



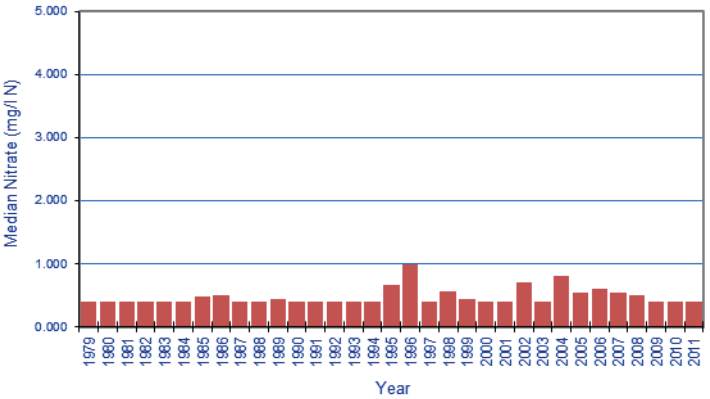
River: Castlebar Station No.: 0200



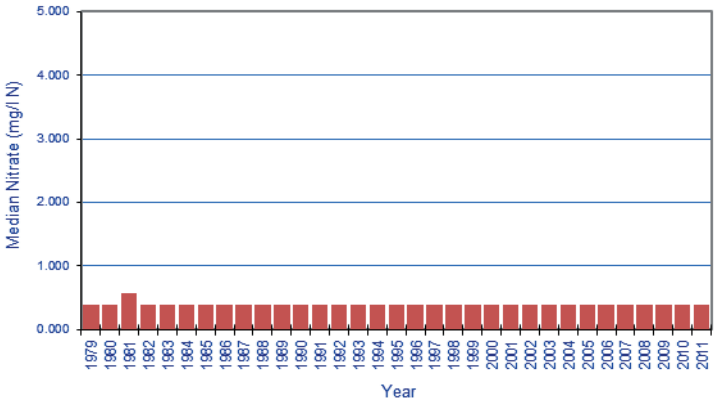
River: Castlebar Station No.: 0500



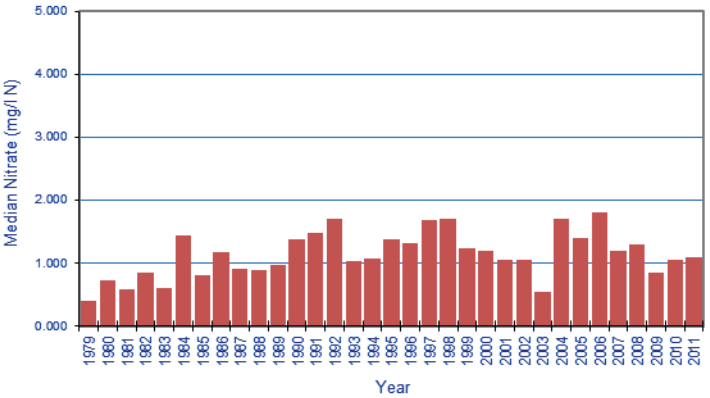
River: Cloonaghmore Station No.: 0300



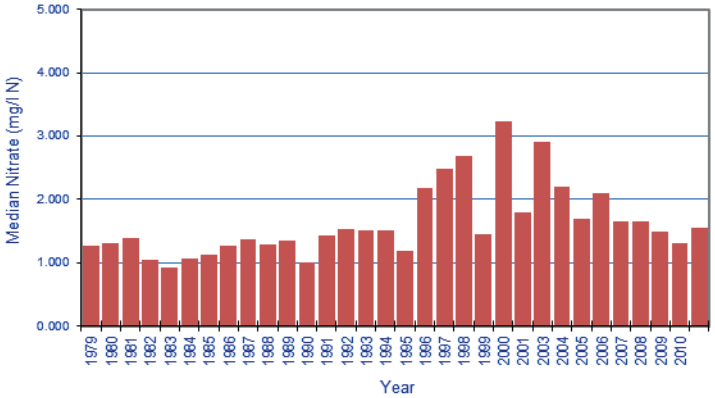
River: Clydagh (Castlebar) Station No.: 0200



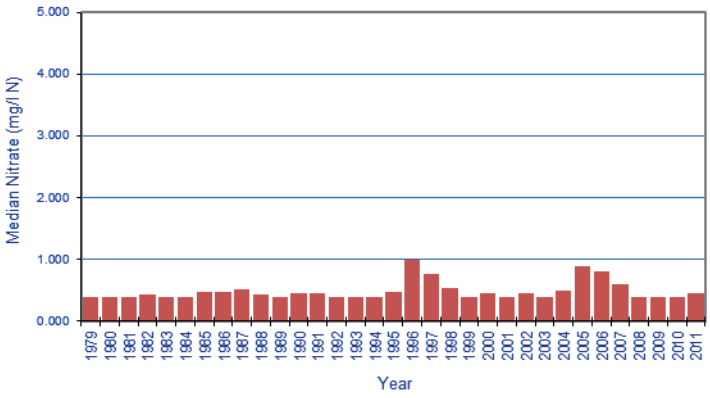
River: Corroy Station No.: 0200



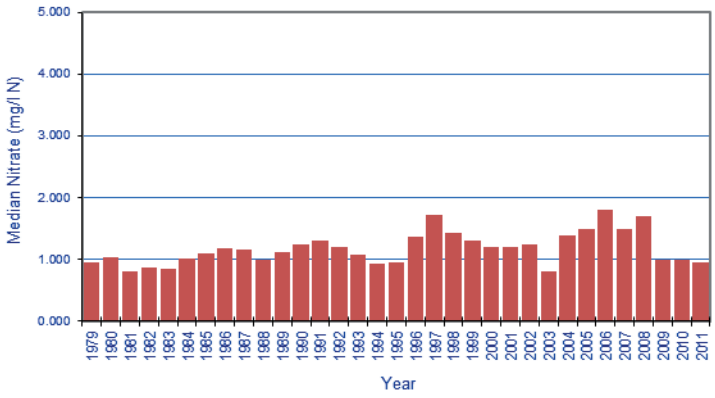
River: Dalgan Station No.: 0200



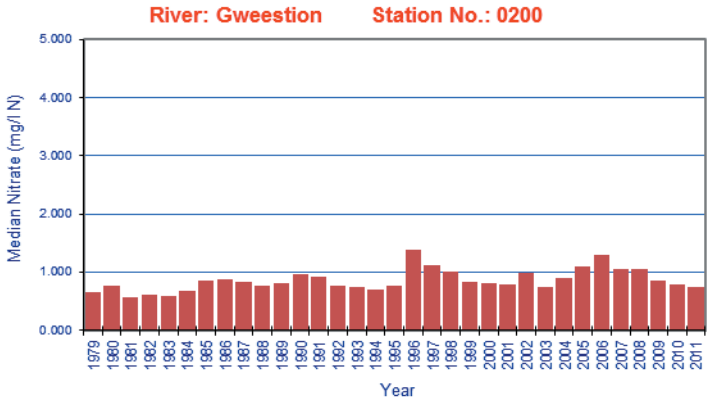
River: Deel Station No.: 0300



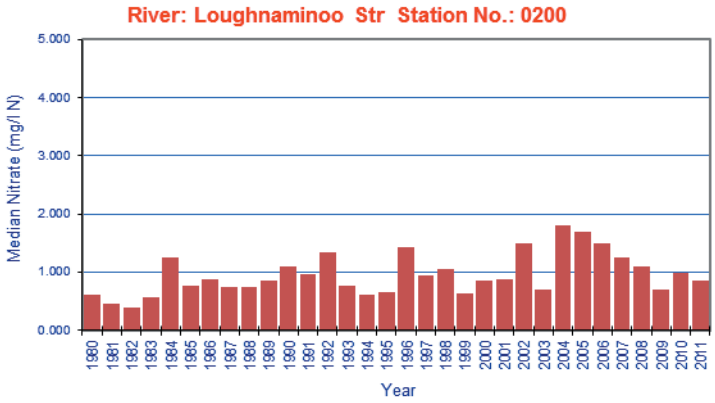
River: Glore Station No.: 0200



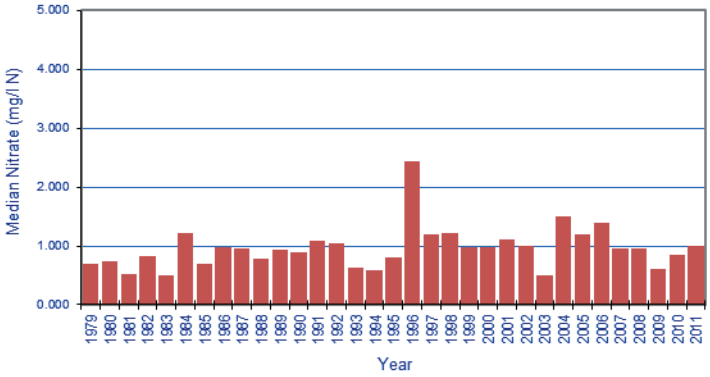
River: Gweestion Station No.: 0200



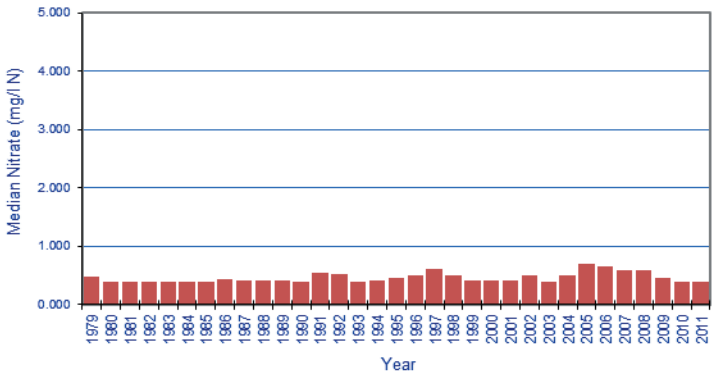
River: Loughnaminoo Str Station No.: 0200



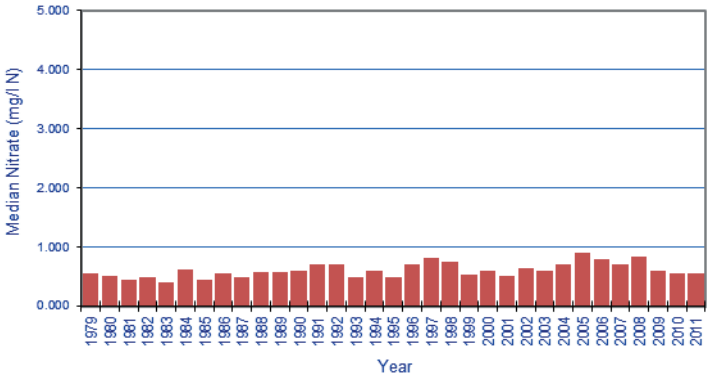
River: Manulla Station No.: 0500



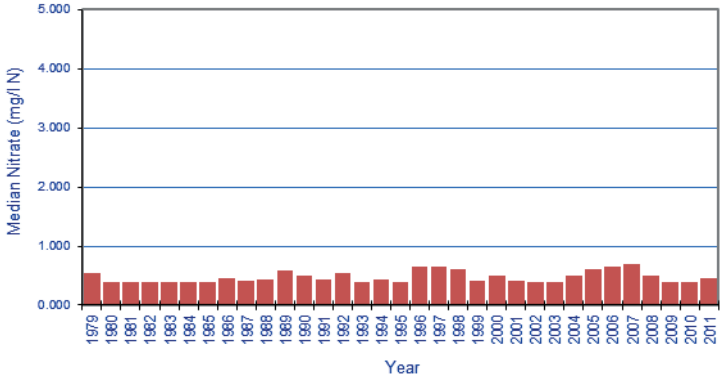
River: Moy Station No.: 0500



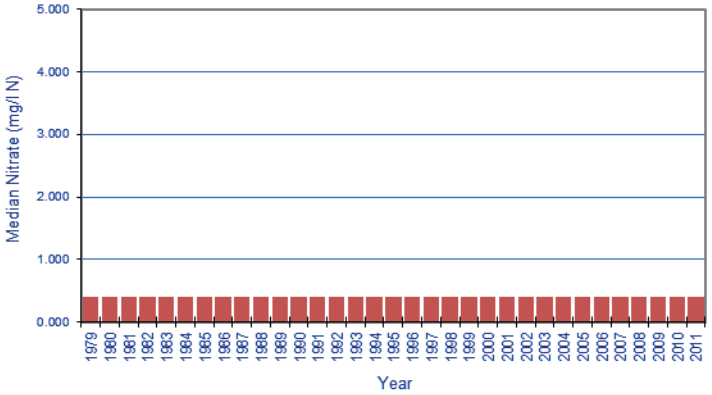
River: Moy Station No.: 0700



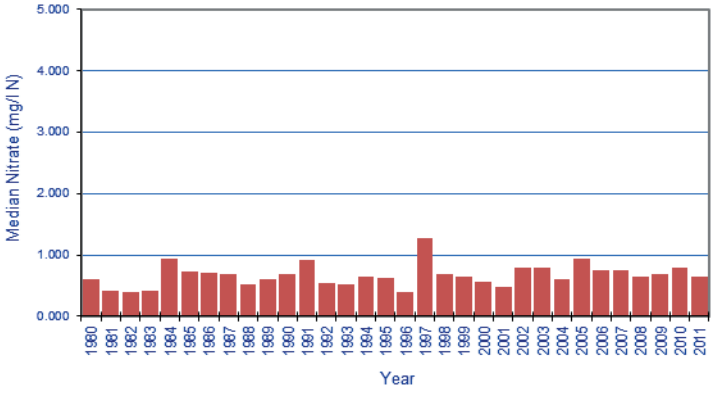
River: Moy Station No.: 1100



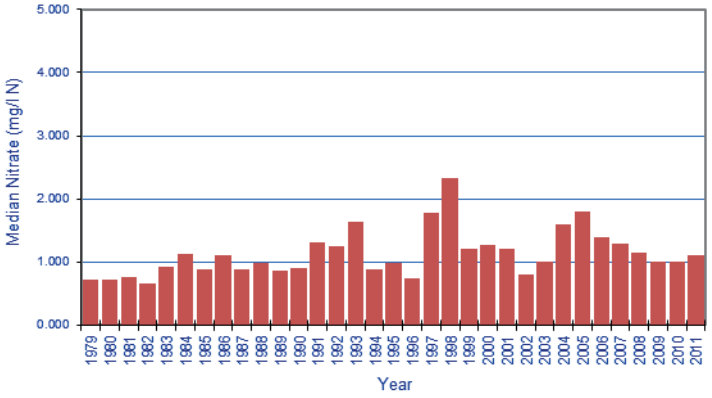
River: Owenmore Station No.: 0300



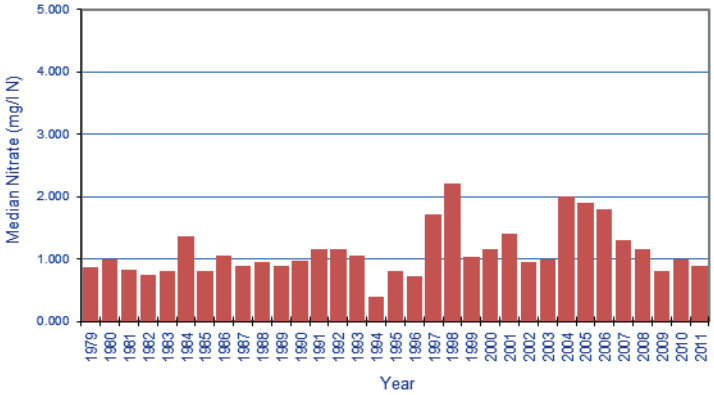
River: Pollagh Station No.: 0300



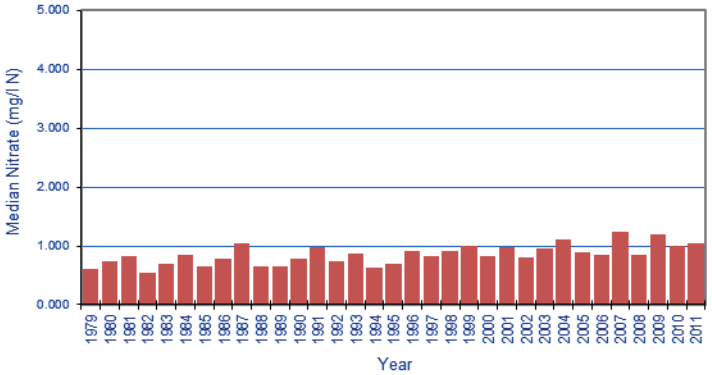
River: Robe Station No.: 0200



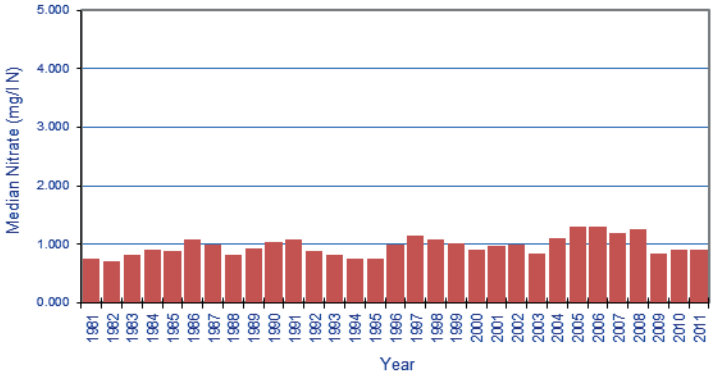
River: Robe Station No.: 0600



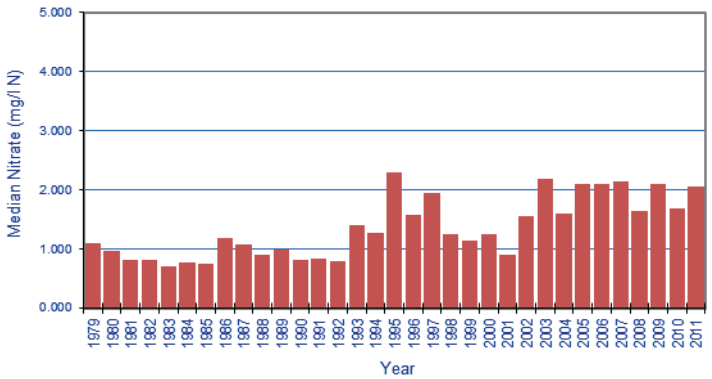
River: Sonnagh Station No.: 0100



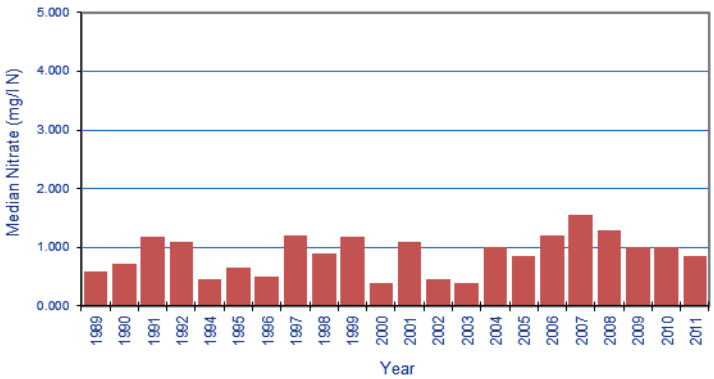
River: Spaddagh Station No.: 0200



River: Swinford Station No.: 0200

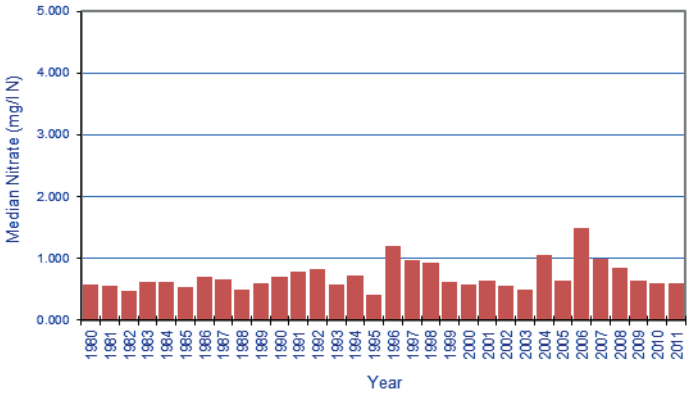


River: Yellow (Knock) Station No.: 0250

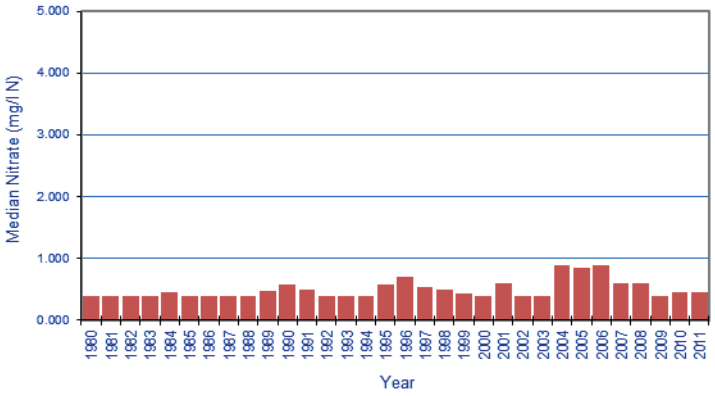


Sligo

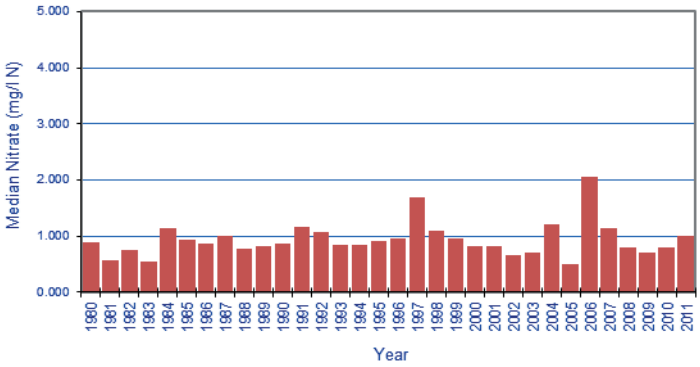
River: Ballymote Station No.: 0100



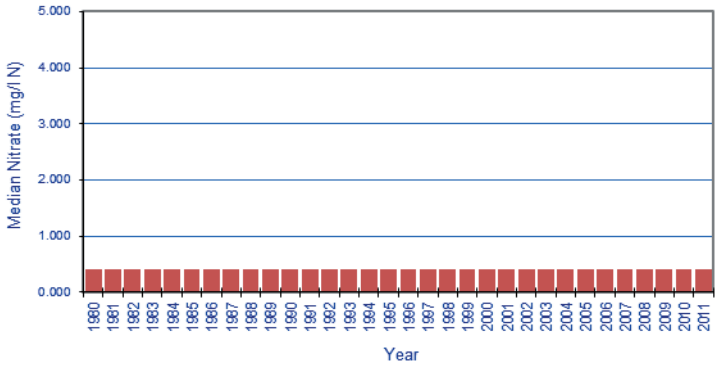
River: Ballysodare Station No.: 0100



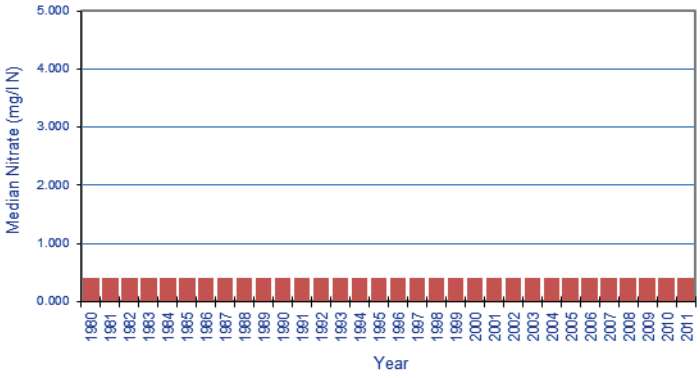
River: Bunnanaddan Str Station No.: 0200



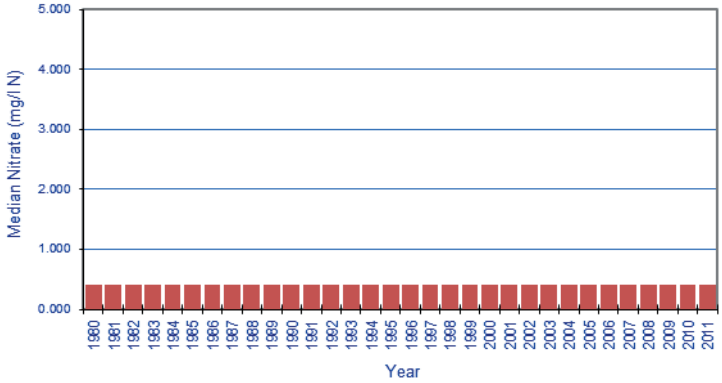
River: Drumcliff Station No.: 0200



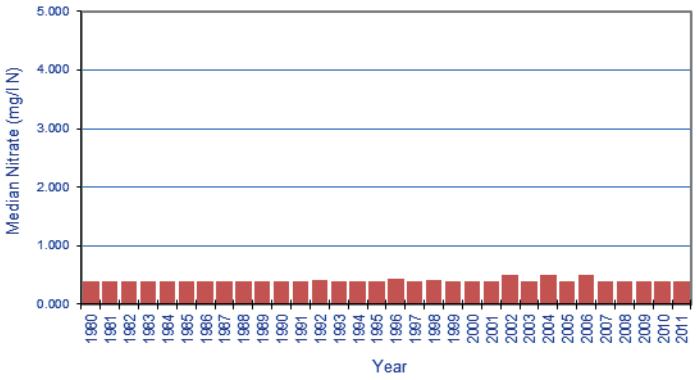
River: Easky Station No.: 0300



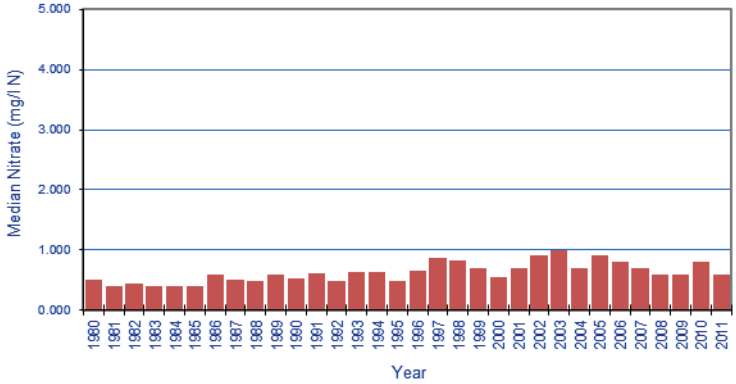
River: Eignagh Station No.: 0100



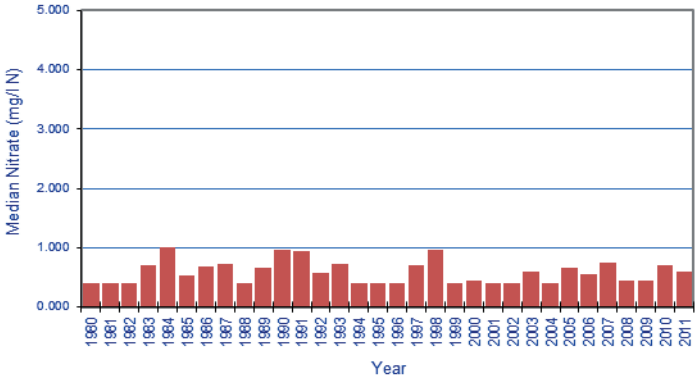
River: Garavogue Station No.: 0100



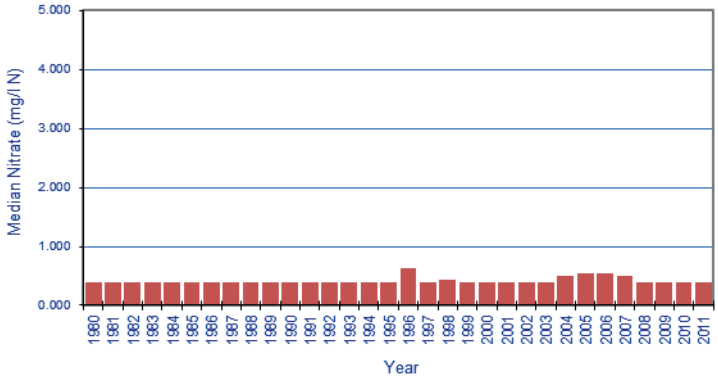
River: Grange Station No.: 0200



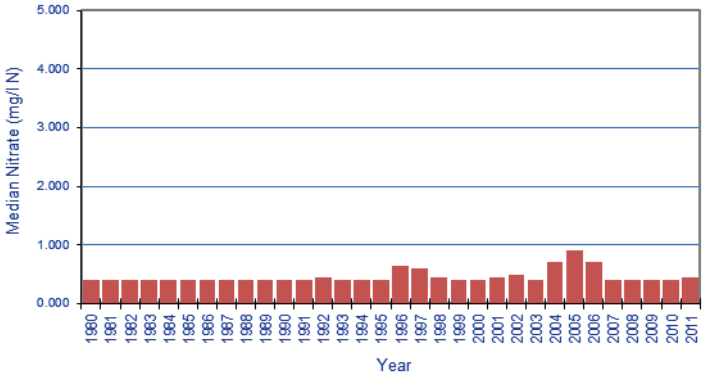
River: Gurteen Station No.: 0200



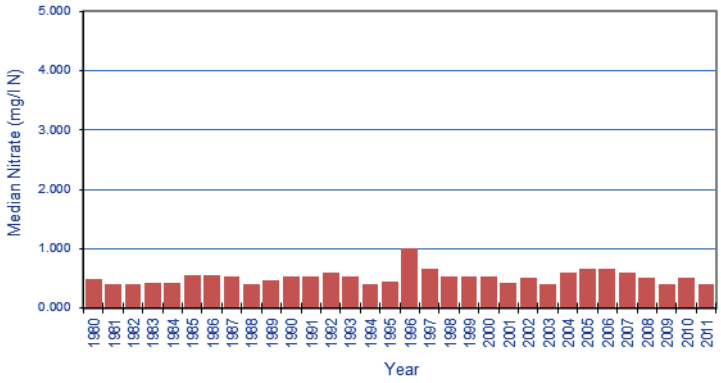
River: Moy Station No.: 0100



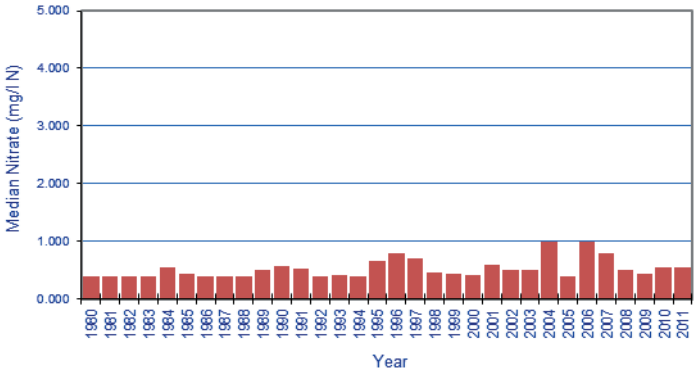
River: Moy Station No.: 0400



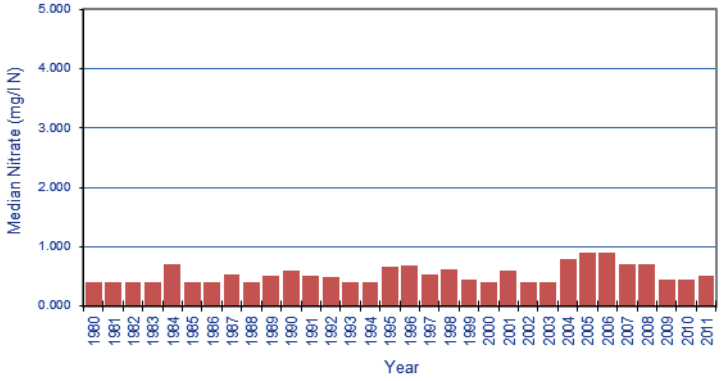
River: Owengarve Station No.: 0200



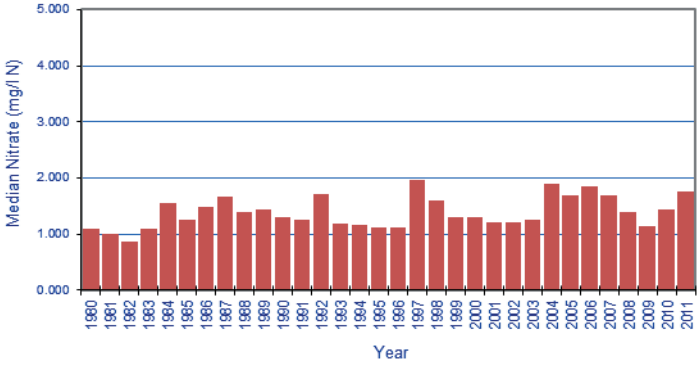
River: Owenmore Station No.: 0200



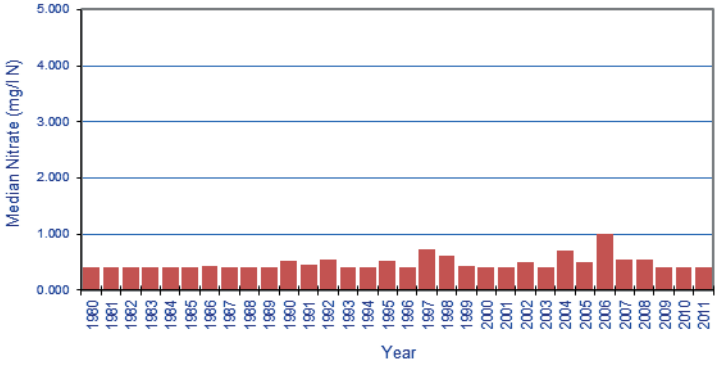
River: Owenmore Station No.: 0900



River: Tubbercurry Station No.: 0050



River: Unshin Station No.: 0600



APPENDIX 6. SALMONID SHEETS

Galway

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : CORRIB [30/C/02]
STATION NUMBER : 0100
STATION DESCRIPTION : Lisloughrea Pier - Cong

Parameter Name	No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C	13	< 21.5 Deg.C. (98%)	13	100%	Pass
Dissolved Oxygen mg/l O_2	13	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 13	92.3% 100%	Pass
pH	13	>= 6 <= 9 (95%)	13	100%	Pass
Suspended Solids mg/l	13	<= 25 mg/l (average)	13	100%	Pass
B.O.D. mg/l O_2	13	<= 5 mg/l O_2 (95%)	13	100%	Pass
Nitrites mg/l NO_2	13	<= 0.05 mg/l NO_2 (95%)	13	100%	Pass
Non-Ionized Ammonia mg/l NH_3	13	<= 0.02 mg/l NH_3 (95%)	13	100%	Pass
Total Ammonia mg/l NH_4	13	<= 1.0 mg/l NH_4 (95%)	13	100%	Pass
Total Zinc mg/l	13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$ / *Standard mg/l Zn*					
10 / < = 0.03					
50 / < = 0.2					
100 / < = 0.3					
500 / < = 0.5					
Dissolved Copper mg/l	13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$ / *Standard mg/l Cu*					
10 / < = 0.005					
50 / < = 0.022					
100 / < = 0.04					
300 / < = 0.112					

Median Hardness for 2011 = 108 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : **CORRIB [30/C/02]**
STATION NUMBER : **0200**
STATION DESCRIPTION : **Kilbeg Ferry**

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass/Fail
Temperature °C		13	< 21.5 Deg.C. (98%)	13	100%	Pass
Dissolved Oxygen mg/l O_2		13	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	13 13	100% 100%	Pass
pH		13	>= 6 <= 9 (95%)	13	100%	Pass
Suspended Solids mg/l		13	<= 25 mg/l (average)	13	100%	Pass
B.O.D. mg/l O_2		13	<= 5 mg/l O_2 (95%)	13	100%	Pass
Nitrites mg/l NO_2		13	<= 0.05 mg/l NO_2 (95%)	13	100%	Pass
Non-Ionized Ammonia mg/l NH_3		13	<= 0.02 mg/l NH_3 (95%)	13	100%	Pass
Total Ammonia mg/l NH_4		13	<= 1.0 mg/l NH_4 (95%)	13	100%	Pass
Total Zinc mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 102 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : CORRIB [30/C/02]
STATION NUMBER : 0300
STATION DESCRIPTION : Annaghdown Pier

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C		13	< 21.5 Deg.C. (98%)	13	100%	Pass
Dissolved Oxygen mg/l O_2		13	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	13 13	100% 100%	Pass
pH		13	>= 6 <= 9 (95%)	13	100%	Pass
Suspended Solids mg/l		13	<= 25 mg/l (average)	13	100%	Pass
B.O.D. mg/l O_2		13	<= 5 mg/l O_2 (95%)	13	100%	Pass
Nitrites mg/l NO_2		13	<= 0.05 mg/l NO_2 (95%)	13	100%	Pass
Non-Ionized Ammonia mg/l NH_3		13	<= 0.02 mg/l NH_3 (95%)	13	100%	Pass
Total Ammonia mg/l NH_4		13	<= 1.0 mg/l NH_4 (95%)	13	100%	Pass
Total Zinc mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 116 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : CORRIB [30/C/02]
STATION NUMBER : 0400
STATION DESCRIPTION : Menlough Castle

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C		13	< 21.5 Deg.C. (98%)	13	100%	Pass
Dissolved Oxygen mg/l O_2		13	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	7 13	53.8% 100%	Pass
pH		13	>= 6 <= 9 (95%)	13	100%	Pass
Suspended Solids mg/l		13	<= 25 mg/l (average)	13	100%	Pass
B.O.D. mg/l O_2		13	<= 5 mg/l O_2 (95%)	13	100%	Pass
Nitrites mg/l NO_2		13	<= 0.05 mg/l NO_2 (95%)	12	92%	Fail
Non-Ionized Ammonia mg/l NH_3		13	<= 0.02 mg/l NH_3 (95%)	13	100%	Pass
Total Ammonia mg/l NH_4		13	<= 1.0 mg/l NH_4 (95%)	13	100%	Pass
Total Zinc mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 152 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : CORRIB [30/C/02]
STATION NUMBER : 0500
STATION DESCRIPTION : Waterside - Galway

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C		13	< 21.5 Deg.C. (98%)	13	100%	Pass
Dissolved Oxygen mg/l O_2		13	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 13	92.3% 100%	Pass
pH		13	>= 6 <= 9 (95%)	13	100%	Pass
Suspended Solids mg/l		13	<= 25 mg/l (average)	13	100%	Pass
B.O.D. mg/l O_2		13	<= 5 mg/l O_2 (95%)	13	100%	Pass
Nitrites mg/l NO_2		13	<= 0.05 mg/l NO_2 (95%)	13	100%	Pass
Non-Ionized Ammonia mg/l NH_3		13	<= 0.02 mg/l NH_3 (95%)	13	100%	Pass
Total Ammonia mg/l NH_4		13	<= 1.0 mg/l NH_4 (95%)	13	100%	Pass
Total Zinc mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 144 mg/l $CaCO_3$

MAYO

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : GLORE [34/G/02]
STATION NUMBER : 0200
STATION DESCRIPTION : Glore Bridge

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C		12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2		12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH		12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l		12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2		12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2		12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3		12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4		12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988
S.I. NO. 293 OF 1988

RIVER : GWEESTION [34/G/03]
STATION NUMBER : 0200
STATION DESCRIPTION : Scarrownageeragh Bridge

Parameter Name	No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C	12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2	12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH	12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l	12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2	12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2	12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3	12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4	12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Zn* 10 / < = 0.03 50 / < = 0.2 100 / < = 0.3 500 / < = 0.5	12	Related to Hardness (95%)	12	100%	Pass
Dissolved Copper mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Cu* 10 / < = 0.005 50 / < = 0.022 100 / < = 0.04 300 / < = 0.112	12	Related to Hardness (95%)	12	100%	Pass

Median Hardness for 2011 = 233 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988
S.I. NO. 293 OF 1988

RIVER : MANULLA [34/M/01]
STATION NUMBER : 0500
STATION DESCRIPTION : Bridge u/s Castlebar River

Parameter Name	No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C	12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2	12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	11 12	92% 100%	Pass
pH	12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l	12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2	12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2	12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3	12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4	12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Zn* 10 / < = 0.03 50 / < = 0.2 100 / < = 0.3 500 / < = 0.5	12	Related to Hardness (95%)	12	100%	Pass
Dissolved Copper mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Cu* 10 / < = 0.005 50 / < = 0.022 100 / < = 0.04 300 / < = 0.112	12	Related to Hardness (95%)	12	100%	Pass

Median Hardness for 2011 = 271 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : MOY [34/M/02]
STATION NUMBER : 0500
STATION DESCRIPTION : Cloonacannana Bridge

Parameter Name	No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C	12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2	12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH	12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l	12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2	12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2	12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3	12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4	12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Zn* 10 / < = 0.03 50 / < = 0.2 100 / < = 0.3 500 / < = 0.5	12	Related to Hardness (95%)	12	100%	Pass
Dissolved Copper mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Cu* 10 / < = 0.005 50 / < = 0.022 100 / < = 0.04 300 / < = 0.112	12	Related to Hardness (95%)	12	100%	Pass

Median Hardness for 2011 = 125 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : MOY [34/M/02]
STATION NUMBER : 0700
STATION DESCRIPTION : Ballylahan Bridge

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C		12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2		12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH		12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l		12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2		12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2		12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3		12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4		12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 161 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : MOY [34/M/02]
STATION NUMBER : 1100
STATION DESCRIPTION : Ardnaree Bridge

Parameter Name	No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C	11	< 21.5 Deg.C. (98%)	11	100%	Pass
Dissolved Oxygen mg/l O_2	11	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	11 11	100% 100%	Pass
pH	12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l	12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2	12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2	12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3	12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4	12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Zn* 10 / < = 0.03 50 / < = 0.2 100 / < = 0.3 500 / < = 0.5	12	Related to Hardness (95%)	12	100%	Pass
Dissolved Copper mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Cu* 10 / < = 0.005 50 / < = 0.022 100 / < = 0.04 300 / < = 0.112	12	Related to Hardness (95%)	12	100%	Pass

Median Hardness for 2011 = 164 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : MULLAGHANOE [34/M/03]
STATION NUMBER : 0300
STATION DESCRIPTION : Bridge 1km u/s Moy River

Parameter Name	No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature °C	12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2	12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH	12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l	12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2	12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2	12	<= 0.05 mg/l NO_2 (95%)	10	**83.3%**	**Fail**
Non-Ionized Ammonia mg/l NH_3	12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4	12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Zn* 10 / < = 0.03 50 / < = 0.2 100 / < = 0.3 500 / < = 0.5	12	Related to Hardness (95%)	12	100%	Pass
Dissolved Copper mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Cu* 10 / < = 0.005 50 / < = 0.022 100 / < = 0.04 300 / < = 0.112	12	Related to Hardness (95%)	12	100%	Pass

Median Hardness for 2011 = 157 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : SPADDAGH [34/S/03]
STATION NUMBER : 0200
STATION DESCRIPTION : Bridge u/s Moy River conf

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C		12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2		12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH		12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l		12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2		12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2		12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3		12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4		12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 225 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : TRIMOGE [34/T/01]
STATION NUMBER : 0500
STATION DESCRIPTION : Bridge u/s Gweestion River

Parameter Name	No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C	12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2	12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH	12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l	12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2	12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2	12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3	12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4	12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Zn* 10 / < = 0.03 50 / < = 0.2 100 / < = 0.3 500 / < = 0.5	12	Related to Hardness (95%)	12	100%	Pass
Dissolved Copper mg/l *Hardness mg/l $CaCo_3$* / *Standard mg/l Cu* 10 / < = 0.005 50 / < = 0.022 100 / < = 0.04 300 / < = 0.112	12	Related to Hardness (95%)	12	100%	Pass

Median Hardness for 2011 = 201 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : YELLOW (FOXFORD) [34/C/05]
STATION NUMBER : 0200
STATION DESCRIPTION : Bridge S. of Church Village

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C		13	< 21.5 Deg.C. (98%)	13	100%	Pass
Dissolved Oxygen mg/l O_2		13	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	13 13	100% 100%	Pass
pH		13	>= 6 <= 9 (95%)	13	100%	Pass
Suspended Solids mg/l		13	<= 25 mg/l (average)	13	100%	Pass
B.O.D. mg/l O_2		13	<= 5 mg/l O_2 (95%)	13	100%	Pass
Nitrites mg/l NO_2		13	<= 0.05 mg/l NO_2 (95%)	13	100%	Pass
Non-Ionized Ammonia mg/l NH_3		13	<= 0.02 mg/l NH_3 (95%)	13	100%	Pass
Total Ammonia mg/l NH_4		13	<= 1.0 mg/l NH_4 (95%)	13	100%	Pass
Total Zinc mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		13	Related to Hardness (95%)	13	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 74 mg/l $CaCO_3$

Sligo

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : MOY [34/M/02]
STATION NUMBER : 0100
STATION DESCRIPTION : Bridge S.E. Cloonacool

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature °C		12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2		12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH		12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l		12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2		12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2		12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3		12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4		12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 119 mg/l $CaCO_3$

EC (QUALITY OF SALMONID WATERS) REGULATIONS 1988

S.I. NO. 293 OF 1988

RIVER : OWENGARVE [34/O/03]
STATION NUMBER : 0200
STATION DESCRIPTION : Bridge u/s Moy River conf

Parameter Name		No. of Results	Standard (% compliance)	No. within Standard	Percentage Compliance	Pass / Fail
Temperature ^{o}C		12	< 21.5 Deg.C. (98%)	12	100%	Pass
Dissolved Oxygen mg/l O_2		12	50% > 9.0 mg/l O_2 100% > 6.0 mg/l O_2	12 12	100% 100%	Pass
pH		12	>= 6 <= 9 (95%)	12	100%	Pass
Suspended Solids mg/l		12	<= 25 mg/l (average)	12	100%	Pass
B.O.D. mg/l O_2		12	<= 5 mg/l O_2 (95%)	12	100%	Pass
Nitrites mg/l NO_2		12	<= 0.05 mg/l NO_2 (95%)	12	100%	Pass
Non-Ionized Ammonia mg/l NH_3		12	<= 0.02 mg/l NH_3 (95%)	12	100%	Pass
Total Ammonia mg/l NH_4		12	<= 1.0 mg/l NH_4 (95%)	12	100%	Pass
Total Zinc mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Zn*					
10	< = 0.03					
50	< = 0.2					
100	< = 0.3					
500	< = 0.5					
Dissolved Copper mg/l		12	Related to Hardness (95%)	12	100%	Pass
Hardness mg/l $CaCo_3$	*Standard mg/l Cu*					
10	< = 0.005					
50	< = 0.022					
100	< = 0.04					
300	< = 0.112					

Median Hardness for 2011 = 127mg/l CaCO3

APPENDIX 7. BIOLOGICAL DATA

HYDROMETRIC AREA 29

Ballymabilla	29B03
Beagh	29B02
Boleyneendorrish	29B04
Cannahowna	29C01
Carra Stream	29C03
# Clarinbridge	29C02
Kilcolgan	29K01
Knocknarebana	29K04
Lecarrow Stream *	29L01
Owendalulleegh	29O01
Raford	29R01
Toberdoney	29T01

# indicates rivers having seriously polluted stretches at time of this survey.
* LECARROW STREAM Previously reported as part of the Carra (29C03)

River and Code : **BALLYMABILLA** **29/B/03**

Tributary of : 29R01 RAFORD OS Catchment No: 145

OS Grid Ref of Confluence: M 649 274

Date(s) Surveyed: 31/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1997	2000	2003	2006	2009
0200	4	-	-	4	4	-	-
0300	2-3	3	4	3-4	3-4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br WNW Treanbaun	168261	226212	46	GY
0300	Bellafa Bridge	165867	226922	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	90	10	0	100	56	0	15	0	7	0	22
0300	75	16	0	100	55	0	9	0	15	0	21

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BEAGH** **29/B/02**

Tributary of : Goes underground - Cannahowna OS Catchment No: 146

OS Grid Ref of Confluence: M 455 001

Date(s) Surveyed: 21/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1997	2000	2003	2006	2009
0100	4-5	4-5	4	4	4	4	4-5

Assessment: High status in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	S Cloghnakeava	146728	200612	52	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	37	129	78	22	18	23	29	0	7	3	21

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BOLEYNEENDORRISH** **29/B/04**

Tributary of : (Goes underground) OS Catchment No: 146

OS Grid Ref of Confluence: M 479 047

Date(s) Surveyed: 21/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1997	2000	2003	2006	2009
0100	5	-	5	4-5	5	5	-
0200	5	5	-	-	-	-	-
0300	-	-	5	5	5	4-5	-
0400	5	4-5	-	4-5	4-5	-	-
0500	4-5	-	-	-	-	-	-
0600	3	4	-	-	-	-	-
0800	5	4	4	4	4-5	4-5	4

Assessment: The lower site surveyed in 2009 (Stn 0800) had declined from high status to good status compared to 2006.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW Knockapollboy	155541	206823	52	GY
0200	Bridge N. of Hollymount	152615	206010	52	GY
0300	Kenny's Br	151415	205622	52	GY
0400	Br NE Islandmore	149675	205655	52	GY
0500	Bridge N. of Cloon Bridge	148180	204710	52	GY
0600	Cloon Bridge (on tributary)	147995	204410	52	GY
0800	Ford N. of Streamstown	148173	206044	52	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	129	21	98	2	0	54	32	0	0	0	14
0300	49	33	95	5	6	44	33	0	0	0	17
0400	35	48	80	20	24	35	27	0	0	0	14

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CANNAHOWNA** **29/C/01**

Tributary of : (Goes underground) OS Catchment No: 146

OS Grid Ref of Confluence: M 452 018

Date(s) Surveyed: 21/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1980	1985	1989	1994	1997	2000	2003	2006	2009
0100	5	4	4	4	-	4	4	4	4
0200	3-4	4	3	3-4	4-5	4	4	3	4

Assessment: Good status with an improvement noted downstream of Gort wastewater treatment plant before the river enters its underground channel to Galway Bay.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge in Gort	145255	201943	52	GY
0200	At Ballynamanlan (footbridge)	145690	203775	52	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	22	135	75	25	20	22	28	0	7	3	20
0200	12	0	0	100	100	0	0	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CARRA STREAM** **29/C/03**

Tributary of : 29T01 TOBERDONEY OS Catchment No: 145

OS Grid Ref of Confluence: M 553 214

Date(s) Surveyed: 1/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0900	-	-	3-4	3	3	3	3-4
1000	3-4	4	-	3	3-4	-	3-4
1400	-	-	-	-	4	4	-
1500	4	-	-	-	-	-	-
1700	4	4	-	4	4	-	4
2000	4-5	3-4	-	4	4	4	4

Assessment: Unsatisfactory in the upper reaches (0900, 1000) and improving to good status in the lower section (1700, 2000). Diffuse agricultural pollution is the main suspected cause of pollution. Investigative monitoring is needed to further pinpoint particular sources.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0900	Br at Nogginstown	170392	222014	46	GY
1000	Carra Bridge	166152	223188	46	GY
1400	Turoe Br	162704	222329	46	GY
1500	Tonnawansa Bridge	161385	221770	46	GY
1700	Br ESE Dunsandle	158590	221376	46	GY
2000	Br at Ballynahivnia	155512	221132	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0900	92	6	0	100	73	3	0	0	10	0	14
1000	81	15	0	100	75	1	5	0	9	0	10
1700	45	67	0	100	78	2	2	0	8	0	10
2000	33	70	0	100	77	2	2	0	7	0	11

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLARINBRIDGE** **29/C/02**

Tributary of : Sea - Galway Bay OS Catchment No: 144

OS Grid Ref of Confluence: M 413 200

Date(s) Surveyed: 31/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1980	1982	1984	1986	1989	1994	1997	2000	2003	2006	2008	2009
0030	-	-	-	-	3-4	-	4-5	-	-	-	-	-
0035	-	-	-	-	-	4	-	-	-	-	-	-
0040	-	-	-	-	3	4	4	4	4	4	-	4
0050	4	4-5	4	4-5	4	-	4	3	4	-	-	-
0200	4	4-5	4	4	4	-	-	-	-	-	-	-
0300	2	2	1-2	2-3	3-4	4	2-3	2-3	2-3	2	2	2
0400	3	-	-	3	3-4	-	3	3	3	3	-	3
0450	3	-	-	3	-	-	4	4	3	-	-	-
0500	3	3	2	3-4	3	2-3	3	3	3	3	-	3

Assessment: Serious pollution was noted in 2009 downstream of Athenry. Works to improve the performance of the wastewater treatment plant should result in improved water quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br at Lisdoran	156625	205637	46	GY
0035	Downstream Br S of Cloonkeen	0	0	0	GY
0040	Bridge N. of Ballyboggan	154969	230288	46	GY
0050	Bridge 1.6 km u/s Athenry	151294	229122	46	GY
0200	Athenry: South Bridge	150211	227295	46	GY
0300	Br N Mulpit	148794	226293	46	GY
0400	Whistle Bridge	146986	223067	46	GY
0450	Toberbracken Br	143934	222090	46	GY
0500	Clarin Bridge	141213	220027	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	65	9	0	100	63	0	18	0	0	0	19
0040	60	13	0	100	56	0	20	0	0	0	24
0050	40	34	0	100	67	0	20	0	0	0	12
0200	27	39	0	100	65	0	19	3	0	0	13
0300	20	48	0	100	69	0	15	3	2	0	11
0400	12	88	0	100	72	2	9	2	6	0	10
0450	10	110	0	100	71	1	7	2	10	0	9
0500	1	115	0	100	71	2	7	1	11	0	9

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILCOLGAN** **29/K/01**

Tributary of : Sea - Dunbulvaun Bay OS Catchment No: 145

OS Grid Ref of Confluence: M 417 184

Date(s) Surveyed: 21/10/2009, 17/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1980	1983	1986	1989	1994	1997	2000	2003	2006	2009
0100	4	-	-	3-4	3-4	3-4	3	-	-	3	-	-	-
0200	4	4	3	3	3	3	4	4	2	2-3	3	4	3-4
0280	-	-	-	-	-	-	-	3-4	-	-	-	-	-
0300	4-5	-	-	4	4	4	4	-	3-4	4	4	-	4
0400	4-5	5	4	4	4	4	4	4	3	4	4	4	4
0500	-	-	-	4	-	-	3-4	4	3-4	3-4	-	3	-
0600	-	-	-	4	-	-	-	3-4	3	3-4	3-4	3-4	3-4

Assessment: Moderate status in the upper reaches (0200) with improvements in the mid reaches (Craughwell) and a decline again in the lower section downstream of Rahasane Turlough. The catchment is dominated by karst limestone with a significant risk posed by septic tanks and agricultural activities.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	White Mill N. of Loughrea*	162190	217900	52	GY
0200	Killilan Bridge	157984	219743	52	GY
0280	Br just u/s Toberdoney at Caherkin	153850	220611	46	GY
0300	Bridge at Strongfort Lodge	152589	220060	46	GY
0400	Old Road Bridge Craughwell	151051	220017	52	GY
0500	Dunkellin Bridge	145425	218405	52	GY
0600	Kilcolgan Bridge	144213	218418	52	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	75	17	0	100	65	0	0	13	4	18	0
0200	49	29	0	100	71	0	0	10	8	11	0
0300	23	148	0	100	76	1	2	2	9	2	8
0400	19	271	0	100	71	2	5	1	7	1	13
0500	12	332	0	100	72	2	4	1	9	1	12
0600	10	336	0	100	72	2	4	1	9	1	12

River and Code : **KNOCKNAREBANA** **29/K/04**

Tributary of : 29O01 OWENDALULLEEGH OS Catchment No: 146

OS Grid Ref of Confluence: R 556 990

Date(s) Surveyed: 20/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1994	1997	2000	2003	2006	2009
0100	4-5	4-5	4-5	4	4-5	4-5

Assessment: High ecological status was noted in this tributary of the Owendalulleegh (qv).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br W of Tooravoola	155313	201183	52	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	143	5	100	0	0	57	36	0	4	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LECARROW STREAM** **29/L/01**

Tributary of : 29C03 CARRA STREAM OS Catchment No: 145

OS Grid Ref of Confluence: R 625 217

Date(s) Surveyed: 21/10/2009

Previously reported as part of the Carra (29C03)

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0400	-	3-4	3	-	4	-	-
0500	3-4	-	-	-	-	-	-
0600	4-5	4	-	4	4	3-4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br at Lisduff	164634	220261	46	GY
0500	Bridge N. of Kincullia	164285	220420	46	GY
0600	Br at Bullaun	163039	221393	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	67	28	0	100	81	3	0	0	9	0	7
0600	62	34	0	100	77	3	0	0	11	0	8

River and Code : **OWENDALULLEEGH** **29/O/01**

Tributary of : Lough Cutra OS Catchment No: 146

OS Grid Ref of Confluence: R 478 976

Date(s) Surveyed: 20/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1990	1994	1997	2000	2003	2006	2009
0100	-	4-5	-	-	-	-	-	-
0200	-	4-5	-	-	-	-	-	-
0400	-	3-4	-	-	-	-	-	-
0500	5	-	4-5	4-5	4-5	2*	4-5	4-5
0600	5	-	-	-	-	-	-	-
0700	-	-	4-5	4-5	5	3-4*	4-5	-
0800	5	-	-	-	5	4*	-	5
0900	-	4-5	4-5	4-5	5	4	5	4-5
1000	-	5	4-5	4-5	4-5	4	4	4-5

Assessment: High status at all sites sampled in 2009. A good recovery made since the landslide/bogburst caused by windfarm construction in October 2003.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E.S.E. of Knocknamona	0	0	0	GY
0200	Br S.S.E. of Knockmoyle West	0	0	0	GY
0400	Bridge N. of Derreennamucka	0	0	0	GY
0500	Ford at Tooraglassa	160197	201219	52	GY
0600	Ford S. of Knock	0	0	0	GY
0700	Ford at Inchamore	156156	199607	52	GY
0800	Br 750m N of Scalp	154668	198941	52	GY
0900	Ford at Derreen	151724	198386	52	GY
1000	Br SE Killafeen	148354	197128	52	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	102	39	86	14	6	35	40	0	0	0	19
0700	73	57	88	12	11	30	44	0	0	0	15
0800	62	69	89	11	9	31	42	0	0	0	17
0900	49	80	88	12	9	30	41	0	2	0	19
1000	36	90	89	11	10	28	39	0	3	0	20

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RAFORD** **29/R/01**

Tributary of : 29K01 KILCOLGAN OS Catchment No: 145

OS Grid Ref of Confluence: M 522 200

Date(s) Surveyed: 2/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1985	1990	1994	1997	2000	2003	2006	2009
0100	4	4	4	4	4	4	4	4	4
0150	3-4	3-4	4-5	3-4	4	4	4	-	-
0200	4-5	4	3-4	3-4	4	3-4	3-4	3-4	4
0300	3-4	4	4	4	-	-	-	-	-
0400	4	4	3-4	4	3-4	3-4	4	4	-
0500	-	4	4	-	-	-	-	-	4

Assessment: Satisfactory at all three sites. Unusually the Raford had surface water at all locations in September 2009 – in drier summers the last station in particular is usually dry due to the karst nature of the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Beech Hill Bridge	164839	229078	46	GY
0150	Br at Island, NW Bellafa	164759	227032	46	GY
0200	Raford Bridge	160833	226097	46	GY
0300	Bridge E. of Kiltullagh	157926	225019	46	GY
0400	Rattys Bridge	154734	223261	46	GY
0500	Bridge u/s Kilcolgan River	152207	220346	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	74	28	0	100	53	9	10	0	1	0	26
0150	63	66	0	100	57	4	11	1	4	0	22
0200	46	76	0	100	59	4	11	1	4	0	21
0300	36	83	0	100	60	4	10	1	4	0	21
0400	28	113	0	100	64	3	9	1	4	0	20
0500	21	122	0	100	66	3	8	1	4	0	18

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TOBERDONEY** **29/T/01**

Tributary of : 29K01 KILCOLGAN OS Catchment No: 145

OS Grid Ref of Confluence: M 553 215

Date(s) Surveyed: 1 & 2/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1997	2000	2003	2006	2009
0300	4	3	-	3	3	3-4	3
0500	4	-	4-5	4-5	4	-	-
0700	-	-	3	-	4	4	4

Assessment: Poor status was noted in the upper site (0300) recovering to good status upstream of its confluence with the Kilcolgan (qv) or Dunkellin River. Agricultural pressures are the most likely cause of the pollution in the upper Toberdoney.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Ballykeeran Bridge	160956	223244	46	GY
0500	Bridge W. of Dunsandle	156044	221566	46	GY
0700	Just u/s Kilcolgan R confl	153776	220692	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	49	14	0	100	80	0	8	0	0	0	12
0500	32	22	0	100	76	4	5	0	5	0	10
0700	27	98	0	100	78	2	3	0	7	0	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 30

Abbert	30A01
Aghinish	30A03
Aille (Mayo)	30A02
Ballindine	30B03
Ballycuirke	30B14
Bealanabrack	30B01
Black (Shrule)	30B02
Bunowen (Oughterard)	30B08
Cammanagh	30C04
Clare (Galway)	30C01
Claureen (Mayo)	30C12
Cloondaver Stream (North)	30C09
Cloonfad	30C11
Cong Canal	30C06
Corrib	30C02
Cregg	30C03
Dalgan	30D01
Dooghta	30D02
Drimneen	30D03
Failmore	30F01
Finny	30F03
Fooey	30F02
Glengawbeg	30G06
Glennamucka Stream *	30G04
Glensaul	30G01
Gortgarrow Stream *	30G05
Grange (Galway)	30G02
Headford Stream	30H01
Joyce's	30J01
Knockaunranny Stream	30K02
Levally Stream *	30L07
Lough Nacorralea Stream	30L03
Loughkip	30L01
Nanny (Tuam)	30N01
Owenbrin	30O01
Owenriff (Corrib)	30O02
Owenwee (Corrib)	30O03
Robe	30R01
Scardaun	30S04
Sinking	30S01
Srah Stream	30S02
Srahnalong	30S03
Terryland	30T01
Tullaghaun	30T03
Yellow (Sinking) *	30Y01

* GLENNAMUCKA STREAM Previously reported as part of the Abbert 30A01
* GORTGARROW STREAM Previously reported as part of the Sinking 30S01
* LEVALLY STREAM Previously reported as part of the Grange (GY) 30G02
* YELLOW (SINKING) Previously reported as part of the Sinking 30S01

River and Code : **ABBERT** **30/A/01**

Tributary of : 30C01 CLARE (GALWAY) OS Catchment No: 143

OS Grid Ref of Confluence: M 415 483

Date(s) Surveyed: 23/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1977	1981	1985	1987	1989	1994	1997	2000	2003	2006	2009
0028	-	-	-	-	-	-	-	4	3-4	-	-	4
0070	-	-	-	-	-	-	4	4	3-4	4	4	-
0100	-	-	4-5	5	4	4	4	4	4	3-4	4	4
0200	-	-	3-4	4	3-4	4	4	4	4	3-4	3-4	-
0300	-	4-5	4	4	4	4	4	3-4	3	3	3-4	3-4
0400	-	-	4-5	4	4	4	4	4	4	4	4	-
0500	4-5	4-5	5	3-4	4	4	4	4	3	3-4	3-4	3-4

Assessment: The upper sites surveyed (0028, 0100) were again satisfactory in 2009 but the lower two sites (0300, 0400) showed definite signs of eutrophication. In relation to an apparent decline of Crayfish they were only found in the upper reaches (0028) in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0028	400m u/s Br at Sheeaun	160620	233183	46	GY
0070	Licklea Br	155736	233602	46	GY
0100	Killaclogher Bridge	155928	237967	46	GY
0200	Abbert Bridge	155685	242729	46	GY
0300	Bridge u/s Abbey Bridge	151688	243646	46	GY
0400	Pallas Bridge	147219	242306	46	GY
0500	Bridge at Bullaun	143625	240783	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0028	78	10	0	100	46	3	42	0	2	0	7
0070	61	30	0	100	52	3	31	0	3	0	12
0100	55	52	0	100	55	3	27	0	3	0	12
0200	48	100	0	100	57	3	23	0	8	0	9
0300	39	165	0	100	63	2	17	0	12	0	6
0400	32	190	0	100	64	2	17	0	12	0	6
0500	28	212	0	100	65	2	15	0	13	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **AGHINISH** **30/A/03**

Tributary of : Lough Mask OS Catchment No: 143

OS Grid Ref of Confluence: M 155 672

Date(s) Surveyed: 9/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1994	1996	2000	2003	2006	2009
0100	4	4-5	4	4-5	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Keel Bridge	116236	268054	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	15	109	0	100	45	3	9	0	21	15	7

River and Code : **AILLE (MAYO)** **30/A/02**

Tributary of : Lough Mask OS Catchment No: 143

OS Grid Ref of Confluence: M 136 727

Date(s) Surveyed: 20/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1980	1984	1989	1993	1996	2000	2003	2006	2009
0010	3-4	4-5	4-5	3	4-5	3-4	3-4	3-4	3-4
0100	4	4-5	4-5	4-5	-	-	-	4-5	-
0110	-	-	-	-	4-5	5	4-5	-	4-5
0250	-	-	5	4-5	4	4-5	4	4-5	4-5
0300	4	4	4-5	4-5	-	-	-	-	4
0400	-	4	-	-	4	4	3-4	4	4

Assessment: The upper Aille once again showed signs of enrichment (most likely due to forestry nutrient losses). The quality improved in the mid reaches (0110, 0250) with high ecological status observed there. Good status was recorded in the lower stretches upstream of Lough Mask.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br NE Croaghrimbeg	103865	272113	38	MO
0100	Bridge S. of Killawullaun	111287	280373	31	MO
0110	Bridge NW of Claureen	112255	280068	31	MO
0250	Bridge u/s Cloon Lough	114284	276081	38	MO
0300	Bridge d/s Cloon Lough	114390	273586	38	MO
0400	Bridge u/s Lough Mask	113494	272577	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	97	8	100	0	1	0	89	0	10	0	0
0100	25	73	55	45	1	3	60	0	26	0	10
0110	22	79	52	48	1	3	60	0	27	1	9
0250	18	124	33	67	8	2	52	0	31	0	6
0300	20	129	32	68	8	2	52	0	31	1	6
0400	20	145	34	66	8	2	54	0	30	1	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLINDINE** **30/B/03**

Tributary of : 30R01 ROBE OS Catchment No: 143

OS Grid Ref of Confluence: M 349 709

Date(s) Surveyed: 21 & 28/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1979	1986	1989	1994	1996	2000	2003	2006	2009
0100	-	3-4	3	3	1-2	2-3	3/0	3	2-3
0200	3	3-4	2-3	2-3	2-3	3-4	2-3	3-4	3-4

Assessment: Poor status was noted in Ballindine village and moderate status downstream (0200) just upstream of its confluence with the River Robe. Investigative monitoring is required to pin down the precise cause of the pollution problem in Ballindine which is upstream of the WWTP – agricultural or other.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballindine Bridge	136558	269227	39	MO
0200	Bridge u/s Robe River confl	134907	270841	39	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	52	4	0	100	24	11	17	0	48	0	0
0200	47	9	0	100	37	10	9	0	45	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYCUIRKE** **30/B/14**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: M 241 332

Date(s) Surveyed: 27/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1997	2000	2003	2006	2009
0100	3-4	3-4	3	3	3	3	3

Assessment: Poor status was noted at the outflow from Ballycuirke. Significant algal blooms are a regular feature of the lake.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Railway Br d/s Ballycuirke Lough	123190	232555	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	-99	0	0	100	66	0	34	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BEALANABRACK** **30/B/01**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: L 975 522

Date(s) Surveyed: 13/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1985	1989	1994	1996	2000	2003	2006	2009
0050	-	-	-	-	-	-	4	-	4
0100	5	5	5	4-5	4-5	4-5	3	4	-
0200	5	-	5	4	4-5	4-5	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Footbridge N Knockaunbaun	90248	255014	38	GY
0100	Bridge u/s Joyce's River	92031	254742	38	GY
0200	Maam Bridge	96497	252808	38	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	29	0	0	0	0	0	0	0	0	0	0
0100	18	21	76	24	0	2	8	0	0	0	90
0200	7	55	87	13	0	3	30	0	16	0	52

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACK (SHRULE)** **30/B/02**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: M 198 578

Date(s) Surveyed: 9/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1977	1980	1984	1989	1994	1997	2000	2003	2006	2009
0100	-	3-4	3-4	3-4	3-4	4	3-4	4	4	4
0200	4-5	4-5	4	4-5	4-5	4-5	4	4-5	4	4-5
0300	4-5	4-5	3	3-4	3-4	4	4	3-4	4	4
0600	-	-	4	4	4	-	4	4	4	4

Assessment: Overall good condition observed in the Black.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge at Kilshanvy	131862	257689	38	GY
0200	Bridge in Shrule	128031	252598	38	MO
0300	Moyne Br	125579	249084	45	MO
0600	First Bridge u/s L Corrib	120586	247820	45	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	30	3	0	100	92	0	0	0	8	0	0
0200	22	173	0	100	54	1	16	0	25	0	4
0300	16	186	0	100	53	1	15	0	27	0	3
0600	7	202	0	100	54	1	14	0	28	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BUNOWEN (OUGHTERARD)** **30/B/08**

Tributary of : Lough Ateeaun OS Catchment No: 143

OS Grid Ref of Confluence: M 090 414

Date(s) Surveyed: 27/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1997	2000	2003	2006	2009
0100	4-5	4-5	4	3-4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Glengowla Bridge	108353	242380	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	38	5	85	15	6	5	81	0	0	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CAMMANAGH** **30/C/04**

Tributary of : Lough Mask OS Catchment No: 143

OS Grid Ref of Confluence: L 996 568

Date(s) Surveyed: 13/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1994	1996	2000	2003	2006	2009
0100	5	5	4-5	5	4	4-5	4-5	4-5

Assessment: High status was maintained in this tributary of upper Lough Mask.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Mask	97834	256851	38	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	28	8	100	0	0	0	42	0	14	0	43

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLARE (GALWAY)** **30/C/01**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: M 303 314

Date(s) Surveyed: 22/7/2009, 14/9/2009, 8 & 19/10/2009,

Biological Quality Ratings (Q Values)

Station Nos.	71	73	75	77	78	79	80	82	85	89	92	93	94	96	97	98	99	00	02	03	05	06	08	09
0100	4-5	4	-	4	-	-	4	-	3-4	4	-	3	-	3-4	-	-	-	3-4	-	4	-	3-4	-	3-4
0300	-	-	-	-	-	-	5	-	4	4	-	3-4	-	3	-	-	-	4	-	4	-	4	-	-
0500	5	5	4	4	4	-	4-5	-	4	4	-	4	-	3	-	-	-	4	-	4	-	4	-	4
0650	3	3	3-4	4	-	4	3-4	3	3	2-3	-	3	-	3	-	-	-	4	-	3-4	-	4	-	3-4
0700	3-4	3	3-4	4	-	4	4	4	3	3-4	-	3	-	3	-	-	-	3-4	-	4-5	-	4	-	3-4
0800	4	4	4	4	-	4	4	3-4	4	3-4	3-4	3	3-4	4	4	4	3-4	3	3-4	3-4	3-4	3	3-4	3-4
0900	-	-	-	-	-	-	4	3-4	3-4	3-4	-	3-4	-	3-4	-	-	-	4	-	4	-	4	-	-
1000	-	-	-	-	-	-	-	-	-	4	-	4	-	3	-	-	-	4	-	3-4	-	3-4	-	4
1100	-	-	-	-	-	-	4	-	3-4	4	-	3-4	-	3-4	-	-	-	3	-	4	-	4	-	4
1200	4	-	-	5	-	-	-	-	3-4	4	-	3	-	3	-	-	-	3-4	-	3-4	-	4	-	-
1300	-	-	-	-	-	-	4	-	4	4	-	4	-	4	-	-	-	4	-	4	-	4-5	-	4-5

Assessment: Downstream of the confluence of the Dalgan (qv) and Sinking (qv) Rivers the Clare was at moderate status. Quality improved upstream of Tuam (0500) and then dropped back over the mid reaches from Tuam to Corrofin. An improvement was then noted in the lower sections before entering Lough Corrib.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1.5 km u/s Milltown	141291	263709	39	GY
0300	Fartamore Bridge	139437	258772	39	GY
0500	Ballygaddy Bridge	142020	253774	39	GY
0650	100 m d/s Weir Br (LHS)	141593	252819	39	GY
0700	Cloonmore Br	140827	249846	46	GY
0800	Corrofin Bridge	142705	243204	46	GY
0900	Dalys Br	141533	240374	46	GY
1000	Lackagh Br	141843	236407	46	GY
1100	Cregmore Bridge	141011	232809	46	GY
1200	Claregalway Bridge	137185	233239	46	GY
1300	Curraghmore Bridge	132111	232828	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	42	335	0	100	58	1	21	1	14	0	5
0300	37	424	0	100	60	1	19	0	15	0	4
0500	31	453	0	100	61	1	18	1	15	0	4
0650	29	496	0	100	61	1	18	1	15	0	3
0700	27	514	0	100	61	1	18	1	15	0	3
0800	24	683	0	100	61	1	19	1	14	0	3
0900	22	909	0	100	62	1	18	1	14	0	4
1000	20	931	0	100	62	1	17	1	14	0	4
1100	10	976	0	100	63	1	17	1	15	0	4
1200	8	1056	0	100	65	1	15	1	15	0	3
1300	6	1075	0	100	65	1	15	1	15	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : CLAUREEN (MAYO) 30/C/12

Tributary of : 30A02 AILLE (MAYO) OS Catchment No: 143
OS Grid Ref of Confluence: M 134 794
Date(s) Surveyed: 15/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1996	2000	2003	2006	2009
0400	3	3-4	2-3	3	3	3	3
0700	4-5	4	4	4	4	3	4

Assessment: Poor conditions were again noted downstream of Ballyheane village with fairly intense signs of enrichment. Conditions improved at the lower site (0700) upstream of its confluence with the Aille (qv).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Bridge in Ballyhean	113427	283326	31	MO
0700	Claureen Bridge	113202	280262	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	27	26	0	100	21	0	29	0	49	0	2
0700	22	37	1	99	20	1	31	0	46	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : CLOONDAVER STREAM (NORTH) 30/C/09

Tributary of : Lough Carra OS Catchment No: 143
OS Grid Ref of Confluence: M 200 727
Date(s) Surveyed: 16/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1993	1996	2000	2003	2006	2009
0100	3-4	3-4	4	3	3-4	3-4	3	3-4
0200	4-5	4	4-5	3-4	4	3	-	4

Assessment: The upper site was again quite enriched – mainly due to diffuse agricultural pressures albeit improved compared to the 2006 survey. Conditions were further improved at Cloondaver upstream of the important limestone lake, Lough Carra. Investigative monitoring and nutrient reduction plans are needed for the entire Lough Carra catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Mullingar Bridge	122372	273337	38	MO
0200	Bridge N.E. of Cloondaver	120583	272744	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	30	12	0	100	60	0	8	0	32	0	0
0200	20	0	0	100	40	0	10	0	42	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : CLOONFAD 30/C/11

Tributary of : 30D01 DALGAN
OS Catchment No: 143
OS Grid Ref of Confluence: M 477 721
Date(s) Surveyed: 28/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1996	2000	2003	2006	2009
0110	4	4	4	4	4	3-4	-
0300	2-3	3-4	3	3	3-4	3-4	3-4

Assessment: This Dalgan River tributary was unsatisfactory where sampled in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0110	Bridge E. of Cloonfad	151737	271155	39	RN
0300	Blackford Bridge	149226	271082	39	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0110	68	20	0	100	61	6	6	0	24	0	3
0300	59	29	0	100	44	6	18	0	27	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : CONG CANAL 30/C/06

Tributary of : Lough Corrib
OS Catchment No: 143
OS Grid Ref of Confluence: M 149 545
Date(s) Surveyed: 21/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1997	2000	2003	2009
0250	4-5	4-5	4-5	4

Assessment: This site is one of the main waterways linking Lough Mask and Lough Corrib. A drop in quality was noted in 2009 compared to previous years. Ongoing vigilance and measures to control diffuse nutrient sources especially are needed to ensure that nutrient levels are kept low in Lough Mask and its receiving water Lough Corrib.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0250	Br at old Church in Cong	114616	255091	38	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0250	10	891	29	71	29	3	26	1	22	12	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CORRIB** **30/C/02**

Tributary of : Sea - Galway Bay OS Catchment No: 143

OS Grid Ref of Confluence: M 300 246

Date(s) Surveyed: 19/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1994	1997	2000	2006	2009
0600	4	4	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Salmon Weir Bridge- Galway	129631	225646	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	6	3119	19	81	42	2	21	1	19	9	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CREGG** **30/C/03**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: M 297 341

Date(s) Surveyed: 8/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1985	1989	1993	1996	2000	2003	2006	2009
0100	5	4	4	4	4	4	4	4	-
0150	-	-	-	-	-	-	-	-	3-4
0200	4	4	4	4	4-5	4	-	4	-

Assessment: Moderate status was recorded at a new monitoring point on the Cregg in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge near Drumgriffin	135386	237853	46	GY
0150	SW Liscananaun	133756	235955	46	
0200	Bridge S. of Addergoole	132288	234991	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	10	8	0	100	83	0	0	4	13	0	0
0200	7	50	0	100	58	1	20	2	19	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DALGAN** **30/D/01**

Tributary of : 30C01 CLARE (GALWAY) OS Catchment No: 143

OS Grid Ref of Confluence: M 432 638

Date(s) Surveyed: 30 & 31/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1979	1981	1983	1985	1987	1988	1989	1990	1991	1994	1996	2000	2003	2006	2009
0100	4-5	4	4	4	4	4	4	-	-	4	3-4	4	4	3-4	4
0200	1	1	1	1-2	1	1-2	1-2	1/0	1	1-2	1-2	2-3	3	2-3	2-3
0300	4	3	3	-	2	2-3	3	-	-	3	2-3	3	3-4	3-4	3
0400	4	4	3-4	3	2-3	3	3-4	-	-	3	3	3	4	3-4	4
0500	4	4	3-4	3	3	3-4	3	-	-	3-4	3-4	4	4	3-4	3-4
0600	4	4	3-4	3-4	3	3-4	4	-	-	3-4	3-4	3	3-4	4	4

Assessment: The Dalgan was satisfactory in Ballyhaunis town (0100) improving on 2006. Poor status was again recorded downstream of the towns multiple discharges (0200) but improving sporadically thereafter before joining with the Sinking (qv) to form the main Clare River near Milltown.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballyhaunis Bridge	149654	279461	39	MO
0200	2 km S.W. of Ballyhaunis	148752	278064	39	MO
0300	Cottage Bridge	148048	274909	39	MO
0400	Culnacleha Bridge	147536	271685	39	MO
0500	Doonmacreena Bridge	143090	267519	39	MO
0600	Dalgin Bridge	143086	264301	39	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	75	21	0	100	66	0	26	1	2	0	5
0200	72	25	0	100	68	0	22	4	3	0	4
0300	59	42	0	100	70	0	19	2	5	0	3
0400	57	102	0	100	61	2	15	1	14	0	7
0500	53	146	0	100	56	2	19	1	17	0	6
0600	48	168	0	100	56	2	19	1	18	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOOGHTA** **30/D/02**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: M 057 520

Date(s) Surveyed: 21/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1994	1997	2000	2003	2006	2009
0100	5	4-5	5	4-5	4-5	4-5	4-5	4-5
0200	5	5	4	4	4-5	4-5	4-5	-

Assessment: High Status at the site monitored in 2009. Flooding prevented a sample being taken at the lower site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford to W. of Dooghta	101405	253056	38	GY
0200	Bridge u/s Lough Corrib	103977	252588	38	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	19	12	100	0	0	0	68	0	32	0	0
0200	9	24	100	0	0	0	57	0	39	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRIMNEEN** **30/D/03**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: M 157 419

Date(s) Surveyed: 19/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1997	2000	2003	2006	2009
0600	4-5	4-5	4-5	4-5	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Natural Bridge	114729	240903	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	9	26	68	32	3	11	49	0	20	1	16

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FAILMORE** **30/F/01**

Tributary of : 30B01 BEALANABRACK OS Catchment No: 143

OS Grid Ref of Confluence: L 974 522

Date(s) Surveyed: 13/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1985	1989	1994	1996	2000	2003	2006	2009
0100	5	5	5	5	5	4-5	4-5	4-5	4-5

Assessment: High ecological status was again recorded in the Failmore.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Teernakill Bridge	96247	252111	38	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	7	26	77	23	1	0	85	0	5	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FINNY** **30/F/03**

Tributary of : Lough Mask OS Catchment No: 143

OS Grid Ref of Confluence: M 018 582

Date(s) Surveyed: 13/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1993	1996	2000	2003	2006	2009
0100	5	5	4	4-5	4-5	4-5	4	4-5

Assessment: An improvement to high status was noted in this Lough Mask tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	S.W. of Finny	101024	258646	38	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	19	39	94	6	1	0	58	0	5	7	28

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FOOEY** **30/F/02**

Tributary of : Lough Nafooey OS Catchment No: 143

OS Grid Ref of Confluence: L 953 596

Date(s) Surveyed: 13/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1994	1996	2000	2003	2006	2009
0100	5	5	4	5	4-5	3-4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Nafooey	94714	260050	38	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	22	10	100	0	0	0	25	0	0	0	75

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENGAWBEG** **30/G/06**

Tributary of : 30O02 OWENRIFF (CORRIB) OS Catchment No:

OS Grid Ref of Confluence:

Date(s) Surveyed: 22/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	2006	2009
0100	4	4*

Assessment: The macroinvertebrate populations were indicative of good status but significant quantities of filamentous algae were noted in this fast flowing mountain tributary of the Owenriff River which is an SAC for freshwater pearl mussels. There are significant forestry plantations upstream planted on deep peat soils that are highly vulnerable to nutrient losses during and after clear-felling operations. Measures to prevent silt and nutrient loss are required in all such afforested locations on deep peats in the West of Ireland in particular.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s L. Agraffard .	106773	241601	45	GY

River and Code : **GLENNAMUCKA STREAM** **30/G/04**

Tributary of : 30A01 ABBERT OS Catchment No: 143

OS Grid Ref of Confluence:

Date(s) Surveyed: 23/7/2009

Previously reported as part of the Abbert 30A01

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1997	2000	2003	2009
0015	4	4	3-4	3	4	3-4

Assessment: Unsatisfactory – moderate ecological status observed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015	Br at Ballyglass	160526	234877	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015	76	8	0	100	44	4	22	0	8	0	21

River and Code : GLENSAUL

30/G/01

Tributary of : Lough Mask
OS Catchment No: 143
OS Grid Ref of Confluence: M 106 678
Date(s) Surveyed: 29/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1996	2000	2003	2006	2009
0010	3-4	3-4	4	4	4
0250	-	-	4	4-5	4-5

Assessment: Satisfactory conditions at both sites surveyed in July 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	S of Garaanagerra (roadside)	105317	265869	38	MO
0250	0.25 km d/s Br in Tourmakeady	109936	267975	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	101	5	91	9	0	0	67	0	33	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : GORTGARROW STREAM

30/G/05

Tributary of : 30S01 SINKING
OS Catchment No: 143
OS Grid Ref of Confluence:
Date(s) Surveyed: 28/7/2009

Previously reported as part of the Sinking 30S01

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1996	2000	2003	2006	2009
0010	-	3-4	2-3	2-3	3	3	-
0025	3-4	3-4	3	4	3-4	4	3-4

Assessment: A decline in quality was noted in the Gortgarrow.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br at Gortgarrow*	157514	259081	39	GY
0025	Bridge W. of Parkbaun	158766	260999	39	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	74	5	0	100	90	1	9	0	0	0	0
0025	67	31	0	100	74	0	15	1	3	3	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : GRANGE (GALWAY)

30/G/02

Tributary of : 30C01 CLARE (GALWAY)
OS Catchment No: 143
OS Grid Ref of Confluence: M 430 450
Date(s) Surveyed: 24/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1980	1985	1989	1994	1997	2000	2003	2006	2009
0120	-	-	4	4	4	3	4	4	4
0200	3	4	4	3-4	4	4	3	3-4	3-4
0300	5	4	4	3-4	3	4	3-4	4	-
0400	4	4-5	4-5	3-4	3	3-4	3-4	3-4	3-4
0500	4	4	4	3	3-4	4	4	4	4
0700	-	-	-	-	-	-	4	3-4	3

Assessment: The Grange was generally similar in status to the 2006 survey apart from a decline to poor status at the Mahanagh Bridge (0700) site upstream of its confluence with the Clare River.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0120	Cloonkeen Bridge	159204	251985	39	GY
0200	Bridge near Cloondahamper	155263	251505	39	GY
0300	Ford N.N.W. of Cornacartan	150944	251664	39	GY
0400	Grange Bridge	147920	249890	46	GY
0500	Cahergal Bridge	147702	247620	46	GY
0700	Mahanagh Bridge (lower)	144075	246125	46	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0120	70	4	0	100	22	17	37	0	18	0	7
0200	62	23	0	100	47	3	39	0	5	2	4
0300	52	74	0	100	58	2	29	0	3	1	8
0400	41	93	0	100	60	2	27	0	4	0	7
0500	28	105	0	100	61	1	25	0	7	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : HEADFORD STREAM — 30/H/01

Tributary of : Lough Corrib — OS Catchment No: 143
OS Grid Ref of Confluence: M 262 435
Date(s) Surveyed: 19/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1979	1981	1983	1985	1989	1993	1997	2000	2009
0300	3-4	3-4	3	3	3	3-4	3-4	3-4	4

Assessment: The Headford Stream achieved good ecological status in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br at Lisheennageha	126103	243184	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	9	1	0	100	9	0	0	0	91	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : JOYCE'S — 30/J/01

Tributary of : 30B01 BEALANABRACK — OS Catchment No: 143
OS Grid Ref of Confluence: L 930 548
Date(s) Surveyed: 21/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1985	1989	1994	1996	2000	2003	2006	2009
0100	5	5	5	4	-	4	4	3	4
0200	-	-	5	4	4	4	4	3	-

Assessment: The Joyce's River a tributary of the Bealanabrack (qv) was in satisfactory condition in August 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford W.N.W. of Griggins	91573	257044	37	GY
0200	Br u/s Bealanabrack River	93093	254846	38	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	18	12	100	0	0	2	30	0	31	0	38
0200	10	21	100	0	0	5	33	0	27	0	35

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KNOCKAUNRANNY STREAM** **30/K/02**

Tributary of : Ross Lake OS Catchment No: 143

OS Grid Ref of Confluence: M 197 357

Date(s) Surveyed: 27/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	2000	2003	2006	2009
0200	4-5	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Ross Lake (side road)	119208	235788	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	10	11	96	4	13	0	68	0	8	0	11

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LEVALLY STREAM** **30/L/07**

Tributary of : 30G02 GRANGE (GALWAY) OS Catchment No: 143

OS Grid Ref of Confluence:

Date(s) Surveyed: 24/7/2009

Previously reported as part of the Grange (GY) 30G02

Biological Quality Ratings (Q Values)

Station Nos.	1980	1985	1989	1994	1997	2000	2003	2006	2009
0100	4	4	3	4	4	3-4	4	4	4

Assessment: Satisfactory with no change apparent.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge near Levally	154636	252462	39	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	61	40	0	100	66	1	18	0	2	0	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGH NACORRALEA STREAM** **30/L/03**

Tributary of : 30A02 AILLE (MAYO) OS Catchment No: 143

OS Grid Ref of Confluence: M 139 737

Date(s) Surveyed: 16/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1996	2000	2003	2006	2009
0400	4	4	4-5	3-4	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Bridge E. of Cloonee	113055	274654	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	25	13	62	38	7	0	67	0	19	4	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGHKIP** **30/L/01**

Tributary of : Ballycuirke Lough OS Catchment No: 143

OS Grid Ref of Confluence: M 241 333

Date(s) Surveyed: 27/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1993	1997	2000	2003	2006	2009
0100	-	4	4	4	4	4-5	4	-
0200	4-5	5	4	4-5	4-5	4-5	4	4

Assessment: Ecological status was good upstream of Ballycuirke Lake.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Laughil Bridge	118675	229834	45	GY
0200	Bridge u/s Ballycuirke Lough	122211	231218	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	72	11	100	0	5	3	71	0	7	0	14
0200	18	28	100	0	12	1	73	0	6	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **NANNY (TUAM)** **30/N/01**

Tributary of : 30C01 CLARE (GALWAY) OS Catchment No: 143

OS Grid Ref of Confluence: M 418 529

Date(s) Surveyed: 17/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1975	1979	1981	1983	1987	1989	1990	1991	1994	1997	2000	2003	2006	2009
0100	-	-	-	-	5	5	4	3	-	-	4	-	4-5	4	4-5	-
0300	2	1-2	1	1	1	1	1	1	1	1	2-3	4	4	4	3-4	3

Assessment: A deterioration was noted upstream of the Clare River confluence with poor ecological status recorded. The upper site was not included on the 2007-2009 monitoring programme.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW Loughpark	145518	252926	39	GY
0300	u/s Weir Bridge	141798	252990	39	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	44	27	0	100	73	0	15	3	7	0	2
0300	30	37	0	100	72	0	12	8	7	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENBRIN** **30/O/01**

Tributary of : Lough Mask OS Catchment No: 143

OS Grid Ref of Confluence: M 058 626

Date(s) Surveyed: 6/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1993	1996	2000	2003	2006	2009
0050	-	5*	3*	3-4	4	3-4	3-4	3-4
0200	5	4*	3*	3	3	3	3-4	4

Assessment: The upper Owenbrin was again showing signs of nutrient enrichment with significant growths of filamentous algae in a remote upland location. The river bed has been very unstable over a number of years. Forestry and possibly historical sheep overgrazing are the suspected causes of the problem. Quality improved at the lower site upstream of Lough Mask.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br WNW Barnahowna	102974	264278	38	MO
0200	Bridge u/s Lough Mask	105561	262758	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	71	18	100	0	7	7	77	0	2	2	5
0200	20	26	100	0	7	5	70	0	11	1	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENRIFF (CORRIB)** **30/O/02**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: M 130 435

Date(s) Surveyed: 22/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1981	1985	1989	1994	1997	2000	2003	2006	2009
0070	-	-	-	-	-	4	4	4	4	4	4-5	4-5
0100	4-5	4	4	5	4	4-5	4	4	4	4	4-5	4-5
0190	4	4	4-5	4-5	4	3-4	3-4	3-4	4-5	4-5	4	4

Assessment: This is an important designated freshwater pearl mussel river. The upper sites were of high ecological status with the lower site in Oughterard dropping to good status. Measures to protect freshwater pearl mussels are required in the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	1 km d/s Lough Agraffard	107289	242061	45	GY
0100	1 km u/s Oughterard Bridge	110778	242519	45	GY
0190	Bridge u/s Lough Corrib	112247	243183	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0070	33	44	76	24	0	12	62	0	5	6	14
0100	22	63	74	26	1	12	66	0	5	4	11
0190	10	66	72	28	2	12	65	1	5	4	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENWEE (CORRIB)** **30/O/03**

Tributary of : Lough Corrib OS Catchment No: 143

OS Grid Ref of Confluence: M 014 484

Date(s) Surveyed: 27/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1997	2000	2003	2006	2009
0180	4	4	3	4	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0180	200 m d/s Tawnaghbeg Lough	101408	246968	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0180	19	9	81	19	0	12	58	0	4	3	23

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ROBE** **30/R/01**

Tributary of : Lough Mask OS Catchment No: 143

OS Grid Ref of Confluence: M 153 658

Date(s) Surveyed: 21 & 22/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1977	1980	1982	1985	1987	1989	1994	1996	1997	2000	2001	2003	2006	2009
0015	-	-	-	-	-	-	-	4-5	4	-	3	-	4	4	-
0030	-	-	-	-	-	-	3	3-4	-	4	3-4	-	4	3-4	3-4
0110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
0120	-	-	-	-	-	-	3-4	3-4	-	4	4	3-4	4	4	-
0200	4-5	4-5	4	3	4	4	3-4	3-4	-	3	3-4	-	4	4-5	4
0310	-	-	-	-	-	-	-	3	-	3	3-4	-	3-4	-	3
0400	5	5	4	4	3-4	3-4	4	3	-	3-4	3	3-4	3	4	3-4
0510	-	-	-	-	-	-	-	4	-	4	3	-	4	4	-
0600	4-5	4	4	4	4	4	4-5	3	-	4	3	-	3-4	4	4
0950	-	-	-	-	-	-	-	-	-	4	3	-	4	4	4

Assessment: The upper section (Stn 0030) was still quite eutrophic due to diffuse losses of silt & nutrients from tillage and grassland farms in the upper Robe. Good status was maintained at Stn 0110 but a loss in quality was noted at Crossboyne compared to 2006. Both Hollybrook and Hollymount were unsatisfactory appearing to drop in quality compared to 2003 and 2006. The lower reaches downstream of Ballinrobe were satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015	Br S of Cloonbullan	143566	276981	39	MO
0030	Kilknock Bridge	141001	273651	39	MO
0110	Br on N17 near Castlemagarret	135780	271580	0	MO
0120	Christina's Br	134435	270995	0	MO
0200	Bridge in Crossboyne	133871	271034	39	MO
0310	Hollybrook Br	128280	272033	38	MO
0400	Hollymount Bridge	125839	268640	38	MO
0510	Robeen Bridge	123326	268656	38	MO
0600	Akit Bridge	119464	264943	38	MO
0950	North of Curragh	116794	264817	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015	71	9	0	100	29	0	4	0	40	3	24
0030	57	47	0	100	46	1	24	0	22	1	6
0200	44	128	0	100	47	3	15	2	25	0	7
0310	35	174	0	100	46	3	15	2	26	1	8
0400	32	193	0	100	46	2	16	2	25	1	7
0510	30	243	0	100	50	2	14	1	26	1	6
0600	24	265	0	100	51	2	13	1	27	1	5
0950	20	300	0	100	54	2	12	2	25	1	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : SCARDAUN

30/S/04

Tributary of : 30R01 ROBE

OS Catchment No: 143

OS Grid Ref of Confluence: M 322 704

Date(s) Surveyed: 28/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1996	2000	2003	2006	2009
0100	2-3	3	2-3	4	4	4	4
0500	-	3	3	3	-	3	-

Assessment: The Scardaun was at good status where sampled in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge at Scardaun	133371	267972	39	MO
0500	Just u/s Robe River confluence	132097	270185	39	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	47	6	0	100	47	5	18	0	30	0	0
0500	40	13	0	100	42	2	20	0	35	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : SINKING

30/S/01

Tributary of : 30C01 CLARE (GALWAY)

OS Catchment No: 143

OS Grid Ref of Confluence: M 432 638

Date(s) Surveyed: 30/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1979	1984	1989	1994	1996	2000	2003	2006	2009
0080	-	-	-	-	-	-	3-4	3	4	-	3-4	-
0100	5	-	4-5	4-5	4	4	-	-	-	3-4	-	4
0200	-	-	-	-	4	4	-	-	-	-	-	-
0300	4	5	4	4	4	3-4	3-4	-	3	3-4	2-3	3
0320	-	-	-	-	-	-	4	-	3	4	4	-
0400	-	-	-	-	-	4	4	-	3	-	3-4	3-4

Assessment: The upper site surveyed on the Sinking (0100) was satisfactory in 2009. A slight improvement was noted at Stn 0300 albeit still poor ecological status and moderate status was recorded at the last station before joining with the Dalgan (qv) to form the Clare River. Agricultural pressures are believed to be the main source of pollution in the Sinking.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br SSW of Ballinlass	153497	262008	39	GY
0100	Br 3 km u/s Dunmore Bridge	152528	262094	39	GY
0200	Dunmore Bridge	150920	263507	39	GY
0300	Br at Dunmore Castle	150201	263985	39	GY
0320	Ballymoney Br	148329	263237	39	GY
0400	Cloonagh Br	144296	263500	39	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	57	84	0	100	58	0	29	0	9	1	2
0100	56	86	0	100	58	0	30	0	9	1	2
0200	52	108	0	100	59	0	28	0	8	1	3
0300	50	132	0	100	61	0	24	0	8	1	6
0320	49	143	0	100	60	1	24	0	9	1	6
0400	45	155	0	100	60	0	23	0	10	1	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : SRAH STREAM — 30/S/02

Tributary of : Lough Mask
OS Catchment No: 143
OS Grid Ref of Confluence: M 123 718
Date(s) Surveyed: 29/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1986	1988	1989	1993	1996	2000	2003	2009
0400	5	4/0	4	5	3	4-5	4-5	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Br u/s Lough Mask	111845	272439	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	21	14	87	13	33	0	62	0	5	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : SRAHNALONG — 30/S/03

Tributary of : Lough Mask
OS Catchment No: 143
OS Grid Ref of Confluence: M 019 613
Date(s) Surveyed: 6/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1985	1989	1993	1996	2000	2003	2006	2009
0100	5	5	4	5	4	4	4	4

Assessment: Satisfactory in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Mask	100885	261418	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	33	9	99	1	0	0	97	0	3	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : TERRYLAND

30/T/01

Tributary of : Corrib (Distributary)
OS Catchment No: 143
OS Grid Ref of Confluence: M 295 265
Date(s) Surveyed: 19/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1980	1982	1984	1989	1994	1997	2000	2003	2006	2009
0200	4	4	4	4	3-4	3	3	-	-	-
0400	1/0	3/0	3	3/0	2-3	2-3	-	-	-	-
0500	-	-	-	-	-	-	2-3	2-3	2-3	2-3

Assessment: Terryland was at poor ecological status at Station 0500 before it flows underground.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge on Galway-Headford Rd	130203	226315	45	GY
0400	400 m d/s Terryland Bridge	130882	226820	45	GY
0500	Br d/s Terryland Br on ring road	131333	227263	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	7	6	0	100	43	0	0	38	0	0	19
0400	7	5	0	100	48	0	0	30	0	0	22
0500	8	5	0	100	50	0	0	25	0	0	25

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : TULLAGHAUN

30/T/03

Tributary of : 30D01 DALGAN
OS Catchment No: 143
OS Grid Ref of Confluence: M 484 738
Date(s) Surveyed: 28/7/2009

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1996	2000	2003	2006	2009
0300	4	4	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge u/s Dalgan River	148698	274092	39	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	60	16	0	100	67	0	6	0	1	0	27

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : YELLOW (SINKING)

30/Y/01

Tributary of : 30S01 SINKING
OS Catchment No: 143
OS Grid Ref of Confluence:
Date(s) Surveyed: 30/7/2009 *Previously reported as part of the Sinking 30S01*

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1996	2000	2003	2006	2009
0045	3-4	4	3-4*	4	3	4	-
0055	3-4	3-4	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0045	Bridge S. of Cloonkeen	159443	265257	39	GY
0055	Woodfield Br	157151	263736	39	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0045	81	20	0	100	23	0	56	0	20	0	0
0055	68	33	0	100	45	0	40	0	14	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 31

Cashla	31C01
Crumlin (Galway Bay)	31C02
Glencoaghan	31G01
Gowlabeg	31G03
Invermore	31I01
Knock (Furbo)	31K01
Knockadoagh	31K02
Lough Nabrocky Stream *	31N01
Loughinch	31L01
Owenboliska	31O01
Owengowla	31O02
Owenriff (South Galway)	31O04
Owentooey	31O03
Polleen	31P01
Recess	31R01
Screeb	31S01
Tooreenacoona	31T01

* LOUGH NABROCKY STREAM Previously reported as part of the Owengowla 31O02

River and Code : **CASHLA** **31/C/01**

Tributary of : Sea - Cashla Bay OS Catchment No: 138

OS Grid Ref of Confluence: L 973 264

Date(s) Surveyed: 17/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2003	2006	2009
0100	4-5	4	4	4-5	4-5	4-5	4-5	4-5

Assessment: High status recorded.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Cashla Bridge	97806	226404	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	3	73	100	0	1	4	81	0	0	7	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CRUMLIN (GALWAY BAY)** **31/C/02**

Tributary of : Sea - Galway Bay OS Catchment No: 139

OS Grid Ref of Confluence: M 038 214

Date(s) Surveyed: 17/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2002	2006	2009
0100	4	4	3-4	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Dr Chromghlinne	103914	222241	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	25	24	100	0	0	0	89	0	0	9	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENCOAGHAN** **31/G/01**

Tributary of : Ballynahinch Lough OS Catchment No: 136

OS Grid Ref of Confluence: L 798 474

Date(s) Surveyed: 11/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1997	1999	2003	2006	2009
0100	4-5	4-5	4	3-4	3-4	4

Assessment: A recovery to good status was noted in this upland stream in comparison to 2006.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br SE of Derrynavglaun	80151	248606	44	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	22	11	98	2	0	0	67	0	6	0	27

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GOWLABEG** **31/G/03**

Tributary of : Sea - Bertraghboy Bay OS Catchment No: 137

OS Grid Ref of Confluence: L 817 392

Date(s) Surveyed: 23/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2003	2006	2009
0100	4-5	4	4-5	4-5	4	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S.W. of Gowla	81584	239089	44	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	3	9	100	0	0	0	86	0	0	0	14

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **INVERMORE** **31/I/01**

Tributary of : Sea - Kilkieran Bay OS Catchment No: r4

OS Grid Ref of Confluence: L 899 391

Date(s) Surveyed: 23/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1994	1997	1999	2003	2006	2009
0080	-	4	4	4	-	-
0500	3-4	3-4	4	3-4	4	4

Assessment: Satisfactory, no change on 2006.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	0.4 km d/s Lough Bunnahask	89990	240943	44	GY
0500	Br d/s Invermore Lough	89891	238982	44	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	18	11	100	0	0	26	63	0	0	10	1
0500	0	37	100	0	0	32	58	0	2	7	22

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KNOCK (FURBO)** **31/K/01**

Tributary of : Sea - Galway Bay OS Catchment No: 142

OS Grid Ref of Confluence: M 184 228

Date(s) Surveyed: 15/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2002	2006	2009
0100	-	4	3-4	3-4	4	3-4	4	-
0200	5	4	4	4-5	4-5	4	4-5	4

Assessment: A drop in status from high to good was recorded in this Galway Bay tributary stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Knockadrohid Bridge	115876	226684	45	GY
0200	Br at Doire Uachtair	118658	224016	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	88	6	100	0	3	10	72	0	0	5	9
0200	24	16	100	0	10	4	64	0	3	2	18

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KNOCKADOAGH** **31/K/02**

Tributary of : Glenicmurran Lough OS Catchment No: 138

OS Grid Ref of Confluence: M 005 301

Date(s) Surveyed: 23/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2003	2006	2009
0100	4	4	4	4	4-5	4-5	4

Assessment: Ecological status dropped from high to good status where sampled in 2009 north of Knockadoagh. Significant quantities of filamentous algae were noted.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge N. of Knockadoagh	101058	229747	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	30	10	100	0	3	0	93	0	0	5	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGH NABROCKY STREAM** **31/N/01**

Tributary of : 31O02 OWENGOWLA OS Catchment No: 137

OS Grid Ref of Confluence:

Date(s) Surveyed: 23/10/2009

Previously reported as part of the Owengowla 31O02

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2003	2009
0100	4*	4	4	4	4	4-5

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E. of Loughanillaun S.	85658	240125	0	GY

River and Code : **LOUGHINCH** **31/L/01**

Tributary of : 31K01 KNOCK (FURBO) OS Catchment No: 142

OS Grid Ref of Confluence: M 186 232

Date(s) Surveyed: 15/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0020	-	-	-	3	3-4	3-4	-
0100	4	4	4	4	4	4	4

Assessment: Good status was noted at the lower site sampled in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br d/s Lough Inch	121344	224582	45	GY
0100	Second Br u/s Knock River	118928	224017	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	54	0	100	0	0	0	81	0	19	0	0
0100	24	7	100	0	5	0	82	0	13	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENBOLISKA** **31/O/01**

Tributary of : Sea - Galway Bay OS Catchment No: 141

OS Grid Ref of Confluence: M 127 223

Date(s) Surveyed: 15/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2003	2006	2009
0100	4	4	3-4	4	4	-	4	-
0200	4	4	4	4	4-5	4-5	4	4-5

Assessment: An improvement was noted at the site sampled in Spiddal (0200).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	U/s Lough Boliska	112147	228726	45	GY
0200	Bridge in Spiddal	112742	222517	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	59	74	100	0	0	35	44	0	1	2	18
0200	9	90	100	0	1	29	49	0	4	3	15

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENGOWLA** **31/O/02**

Tributary of : Sea - Bertraghboy Bay OS Catchment No: 137

OS Grid Ref of Confluence: L 811 395

Date(s) Surveyed: 14/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2003	2006	2009
0300	4-5	4	4	4	4	4-5	4-5	4-5

Assessment: High quality was maintained in this remote river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bunnahown Bridge	81826	239769	44	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	5	34	100	0	0	0	96	0	1	2	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENRIFF (SOUTH GALWAY)** **31/O/04**

Tributary of : Sea - Galway Bay OS Catchment No: 140

OS Grid Ref of Confluence: M 089 221

Date(s) Surveyed: 15/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2002	2006	2009
0100	-	4	4	4	4	3-4	-	-
0200	-	4	-	-	-	-	-	-
0300	4	3	4	4	4-5	4	4	4

Assessment: Satisfactory, no change.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 2.3 km d/s Loughaunnagun	108645	225318	45	GY
0200	Bridge N.W. of Caher	0	0	0	GY
0300	Br SE Knock South	108974	222678	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	61	12	100	0	0	13	67	0	0	3	17
0300	15	17	100	0	6	9	70	0	0	3	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENTOOEY** **31/O/03**

Tributary of : 31R01 RECESS OS Catchment No: 136

OS Grid Ref of Confluence: L 870 472

Date(s) Surveyed: 28/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2003	2006	2009
0100	4-5	4-5	4	4	4	4-5	4-5	3-4

Assessment: A significant decline in water quality was found in the Owentooey. The catchment has some forestry and sheep overgrazing may be an issue at a distance upstream of the survey site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Tullywee Bridge	87223	247478	44	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	29	21	88	12	0	3	88	0	3	1	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **POLLEEN** **31/P/01**

Tributary of : Sea - Galway Bay OS Catchment No: o4

OS Grid Ref of Confluence: M 096 220

Date(s) Surveyed: 15/12/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0100	4	4	4	3-4	3-4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br S Kilroe East	109723	222118	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	1	5	100	0	10	0	76	0	0	14	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **RECESS** **31/R/01**

Tributary of : Sea - Bertraghboy Bay OS Catchment No: 136

OS Grid Ref of Confluence: L 757 446

Date(s) Surveyed: 28/8/2009, 14/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2003	2006	2009
0100	4-5	5	4	4-5	4	4	4-5	4-5
0200	4-5	4	4	4-5	-	4	4	-
0300	4	4	-	4-5	4	4	-	-
0400	-	4	4	4	-	4	-	4
0700	-	4	5	4	4-5	4-5	4-5	5

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bunskannive Bridge	93634	246316	45	GY
0200	Cloonloppeen Bridge	90343	246100	44	GY
0300	D/s Owentooey River confl	85925	247120	44	GY
0400	Weir Bridge	83359	247725	44	GY
0700	Cloonbeg Bridge	75897	246571	44	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	48	2	100	0	0	7	93	0	0	0	0
0200	45	15	81	19	0	3	80	0	6	9	2
0300	22	45	82	18	0	8	77	0	5	4	6
0400	19	52	82	18	0	7	75	0	7	5	6
0700	7	157	79	21	0	9	64	0	5	6	15

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SCREEB** **31/S/01**

Tributary of : Sea - Camus Bay OS Catchment No: r4

OS Grid Ref of Confluence: L 951 383

Date(s) Surveyed: 22/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2003	2006	2009
0100	-	4-5	4-5	4-5	4-5	-	-
0200	4-5	4-5	4	4	-	-	-
0400	4	-	-	-	-	-	-
0570	4	3-4	3-4	3-4	3-4	3-4	3-4

Assessment: Moderate status again recorded upstream of Lough Ahalia.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Old Railway Br u/s L. Shindilla	94626	246000	45	GY
0200	Bridge u/s Lough Nahasleam	97459	244283	45	GY
0400	Bridge d/s Loughaunfree	0	0	0	GY
0570	U/s Lough Ahalia North	97356	240320	45	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	41	4	97	3	0	7	93	0	0	0	0
0200	40	21	61	39	0	8	77	0	0	8	8
0570	2	41	79	21	0	8	76	0	0	7	9

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TOOREENACOONA** **31/T/01**

Tributary of : Lough Inagh OS Catchment No: 136

OS Grid Ref of Confluence: L 825 545

Date(s) Surveyed: 28/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2003	2006	2009
0200	4-5	4-5	5	4-5	4	4-5	4

Assessment: Satisfactory, but a slight drop in quality compared to 2006.

Station No.	Stations Location	National Grid Ref. X	Y	Discovery Series No.	County Code
0200	Bridge u/s Lough Inagh	82446	255514	37	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	22	14	56	44	0	16	74	0	0	0	9

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 32

Altaconey	32A02
Ballinaboy	32B07
Bundorragha	32B01
Bunnahowna	32B02
Bunowen (Louisburgh)	32B03
Carrowbeg (Westport)	32C05
Carrownisky	32C01
Clogher (Moyour)	32C07
Cross (Mayo)	32C02
Crumpaun	32C03
Culfin	32C04
Dawros	32D01
Derrycraff	32D02
Derryehorraun	32D04
Erriff	32E01
Glaishwy	32G12
Glendavock	32G01
Glenisland	32G07
Glenlaur	32G02
Glennamong	32G03
Glenummera *	32G05
Goulaun	32G06
Moyour	32M01
Newport (Mayo)	32N01
Owenduff (Erriff)	32O08
Owengarve (Mayo)	32O02
Owenglin	32O03
Owennabrockagh	32O04
Owennadornaun	32O07
Owenwee (Mayo)	32O06
Skerdagh	32S01
Srahmore	32S02
Streamstown (Clifden)	32S04
Traheen	32T01

* GLENUMMERA Previously reported as part of the Bundorragha (32B01)

River and Code : **ALTACONEY** **32/A/02**

Tributary of : 32S02 SRAHMORE OS Catchment No: 107

OS Grid Ref of Confluence: F 967 043

Date(s) Surveyed: 5/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2004	2005	2009
0300	5	5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: Satisfactory in August 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	1.5 km d/s Goulaun River	96892	306150	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	46	23	94	6	0	25	60	0	1	2	11

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : BALLINABOY

32/B/07

Tributary of : Sea: Ardbear Bay
OS Catchment No: t4
OS Grid Ref of Confluence: L 660 480
Date(s) Surveyed: 11/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1994	1997	1999	2002	2006	2009
0100	3	3	3	2-3	2-3	2-3
0300	4	3-4	4	4	4	3

Assessment: The Ballinaboy continues to impacted by discharges from a lake-based fish farm particularly at the upper site near the outflow from the lake.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br. d/s L. Beaghcauneen	68093	247523	44	GY
0300	Br WSW of L. Nagilky	66764	247768	44	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	16	22	99	1	0	0	69	0	0	31	0
0300	12	24	99	1	0	0	71	0	1	29	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : BUNDORRAGHA

32/B/01

Tributary of : Sea - Killary Harbour
OS Catchment No: 130
OS Grid Ref of Confluence: L 842 632
Date(s) Surveyed: 14/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	1999	2002	2006	2009
0200	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: High status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge E. of Bundorragha	84182	263413	37	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	3	48	100	0	0	3	55	0	0	4	39

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : BUNNAHOWNA

32/B/02

Tributary of : Sea - Clew Bay
OS Catchment No: i5
OS Grid Ref of Confluence: L 855 962
Date(s) Surveyed: 4/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2004	2005	2009
0100	5	4-5	4-5	4-5	3-4	4	4	4

Assessment: Satisfactory

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bunnahowna Bridge	85656	296511	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	23	9	66	34	0	0	100	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : BUNOWEN (LOUISBURGH) 32/B/03

Tributary of : Sea - Clew Bay
OS Catchment No: 127
OS Grid Ref of Confluence: L 803 818
Date(s) Surveyed: 19/8/2009, 13/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2006	2009
0050	-	-	-	-	-	-	5	5	5
0100	5	5	5	5	5	5	4-5	4-5	4-5
0150	4-5	4-5	4	4	4	4	4	3	3-4

Assessment: The upper and middle Bunowen (0050, 0100) were satisfactory. A slight improvement was noted at the lower site in Louisburgh (0150) but it still appears quite enriched.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br N laghta Eighter	85176	275060	0	MO
0100	Tully Bridge	81965	277956	37	MO
0150	Bridge in Louisburgh	80678	280689	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	21	33	100	0	0	11	82	0	6	0	2
0150	5	70	100	0	8	6	68	0	13	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : CARROWBEG (WESTPORT) 32/C/05

Tributary of : Sea - Westport Bay
OS Catchment No: 125
OS Grid Ref of Confluence: L 982 846
Date(s) Surveyed: 15/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1980	1986	1988	1990	1991	1994	1997	1999	2002	2003	2006	2009
0050	4	5	-	5	5	4-5	4-5	4	4	4-5	4-5	4-5
0100	4	4	-	4-5	-	4-5	4	4	-	4	4	-
0200	-	4	4	3	-	-	-	-	-	-	-	-
0300	-	-	-	3	-	3	3	2-3	-	3-4	3	3-4

Assessment: The upper Carrowbeg retained its high status and a slight improvement was noted in Westport town (0300) but at moderate ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Cloghan Bridge	101084	279825	38	MO
0100	Cooloughra Bridge	102283	282745	31	MO
0200	Westport Bridge	99815	284473	0	MO
0300	2nd Br u/s Lake Westport Ho	99338	284501	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	30	15	86	14	0	0	49	0	27	0	24
0100	24	36	50	50	4	1	30	0	33	1	31
0300	8	43	53	47	3	2	25	3	40	1	26

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CARROWNISKY** **32/C/01**

Tributary of : Sea - S of Clew Bay OS Catchment No: 128

OS Grid Ref of Confluence: L 745 765

Date(s) Surveyed: 19/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	1999	2002	2006	2009
0020	-	-	5	5	5	4-5	4-5	4-5	4-5
0100	4-5	5	5	4	4-5	4-5	3-4	4	-
0250	-	-	-	-	-	-	3-4	4	3-4

Assessment: High status in the upper reaches of the Carrownisky but declining to moderate status in the lower stretches (0250) where signs of enrichment are noticeable.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Glenkeen Bridge	81858	272370	37	MO
0100	Br at Srahwee	80051	274109	37	MO
0250	Ford 1.7 km u/s Roonagh Lough	76060	277405	0	

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	63	6	100	0	0	0	90	0	3	0	6
0100	48	21	100	0	0	2	87	0	9	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOGHER (MOYOUR)** **32/C/07**

Tributary of : 32M01 MOYOUR OS Catchment No: 124

OS Grid Ref of Confluence: M 029 888

Date(s) Surveyed: 15/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	2002	2009
0600	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br d/s Clogher Lake	103370	288620	0	

River and Code : **CROSS (MAYO)** **32/C/02**

Tributary of : 32D02 DERRYCRAFF OS Catchment No: 131

OS Grid Ref of Confluence: L 992 723

Date(s) Surveyed: 12/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	2002	2006	2009
0100	5	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Derrinkee Bridge	100530	272273	0	MO

River and Code : **CRUMPAUN** **32/C/03**

Tributary of : Beltra Lough OS Catchment No: 108

OS Grid Ref of Confluence: M 082 998

Date(s) Surveyed: 17/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	1999	2002	2005	2009
0050	4	4	4-5	3-4	4-5	4	4	4-5	-
0150	5	5	5	4	4-5	4	4	4-5	4-5

Assessment: High status at the last site monitored upstream of Lough Beltra.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Bridge at Bogadoon	106742	306774	23	MO
0150	N. of Lough Beltra	109004	301432	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	45	12	92	8	0	13	50	0	26	0	11
0150	30	58	70	30	0	12	62	0	16	0	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CULFIN** **32/C/04**

Tributary of : Sea - near Killary Harbour OS Catchment No: 132

OS Grid Ref of Confluence: L 747 636

Date(s) Surveyed: 25/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	1999	2002	2006	2009
0020	-	-	5	4-5	4	4	4	-	4
0040	-	-	4	4	4	4	4	4	4
0200	5	5	4	4	4	4-5	4-5	4	4

Assessment: Satisfactory at all sites sampled in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Owenduff Bridge	81021	259611	37	GY
0040	Between L Fee and L Muck	77868	262129	37	GY
0200	Br NW of Townacarra	75045	263473	37	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	52	6	100	0	0	18	55	0	0	0	27
0040	47	16	100	0	0	7	65	0	0	11	17
0200	2	21	100	0	1	5	69	0	0	9	16

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DAWROS** **32/D/01**

Tributary of : Sea - Ballynakill Harbour OS Catchment No: 133

OS Grid Ref of Confluence: L 701 598

Date(s) Surveyed: 25 & 26/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	1999	2002	2006	2009
0020	-	-	5	4-5	5	4-5	4-5	3	3-4
0060	-	-	-	-	-	-	4	-	-
0080	-	-	-	-	-	-	4-5	-	-
0100	5	5	5	4-5	3-4	4-5	5	-	4-5
0200	5	5	5	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: A slight improvement was seen at the upper site above Kylemore Lough but still less than satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Ford u/s Kylemore Lough	80028	257445	37	GY
0060	Br d/s Pollacappul Lough	74684	258285	0	GY
0080	D/s L. Maladrolaun	74134	258600	0	GY
0100	Tullywee Bridge	72917	258490	37	GY
0200	Dawros Bridge	70180	259745	37	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	39	9	68	32	0	10	54	0	0	0	37
0100	20	40	72	28	0	10	68	0	2	4	17
0200	4	53	76	24	0	7	72	0	3	3	15

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DERRYCRAFF** **32/D/02**

Tributary of : 32E01 ERRIFF OS Catchment No: 131

OS Grid Ref of Confluence: L 976 707

Date(s) Surveyed: 12/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	1999	2002	2006	2009
0100	-	5	5	4	4-5	4	4	4	-
0150	4-5	5	-	4	4	4	3-4	3-4	4

Assessment: Satisfactory with an improvement seen upstream of the Erriff confluence.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NW Tullywee L.	101522	273525	38	MO
0150	Br u/s Erriff R confluence	97850	270547	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	47	9	63	37	4	8	86	0	2	0	1
0150	34	48	86	14	1	6	78	0	8	1	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DERRYEHORRAUN** **32/D/04**

Tributary of : Sea - Ardbear Bay OS Catchment No: t4

OS Grid Ref of Confluence: L 659 490

Date(s) Surveyed: 11/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0200	4-5	4	4-5	4-5	4-5	4-5	4-5

Assessment: High status conditions continued in the Derryehorraun.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Just u/s Salt Lough	67132	249373	44	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	12	12	54	46	0	3	76	0	16	5	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **ERRIFF** **32/E/01**

Tributary of : Sea - Killary Harbour OS Catchment No: 131

OS Grid Ref of Confluence: L 894 643

Date(s) Surveyed: 12/8/2009, 14/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2006	2009
0030	-	-	5	4-5	4-5	4-5	4-5	4	4
0100	5	5	5	4	4-5	4-5	4-5	4	4
0200	5	5	5	4-5	4-5	4-5	4-5	4-5	4
0300	5	5	5	4-5	4	4	4	4	4

Assessment: Satisfactory conditions at all sites, but a decline from high to good status was recorded at Erriff Bridge in the middle reaches. The lower reaches still exhibit signs of overgrazing along certain beats of this important game angling river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	The Wooden Br (W of Cregganmore)	91536	274307	37	MO
0100	Srahlea Bridge	97646	271169	38	MO
0200	Erriff Bridge	96087	268311	38	MO
0300	Aasleagh Bridge	89485	264549	37	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	78	15	100	0	2	4	67	0	0	2	24
0100	36	56	100	0	1	2	74	0	14	1	9
0200	29	116	94	6	1	5	76	0	11	1	7
0300	8	166	95	5	1	6	75	0	9	1	9

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLAISHWY** **32/G/12**

Tributary of : Lough Beltra OS Catchment No: 108

OS Grid Ref of Confluence: M 050 960

Date(s) Surveyed: 17/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	2000	2001	2002	2003	2004	2005	2006	2007	2009		
0050	-	-	-	-	3	-	-	-	-		
0100	3	3	3-4	3	3-4	4	3-4	4	3	4	4

Assessment: The Glaishwy was in good ecological status when sampled in August 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	1km u/s Glaishwy Br	104924	295050	31	MO
0100	Glaishwy Bridge	105015	296043	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	31	5	83	17	0	11	41	0	0	0	49

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENDAVOCK** **32/G/01**

Tributary of : Tawnyard Lough OS Catchment No: 131

OS Grid Ref of Confluence: L 908 674

Date(s) Surveyed: 24/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0100	5	3-4	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	0.85 km u/s Tawnyard Lough	90038	267626	37	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	68	7	100	0	0	12	33	0	0	0	54

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENISLAND** **32/G/07**

Tributary of : Beltra Lough OS Catchment No: 108

OS Grid Ref of Confluence: M 072 972

Date(s) Surveyed: 17/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2005	2009
0300	5	4	4-5	4-5	4-5	4	4-5

Assessment: A recovery to high ecological status was noted in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge u/s Lough Beltra	107304	296716	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	20	14	100	0	0	31	47	0	15	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENLAUR** **32/G/02**

Tributary of : 32E01 ERRIFF OS Catchment No: 131

OS Grid Ref of Confluence: L 948 713

Date(s) Surveyed: 24/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0200	5	4-5	5	4-5	4-5	4-5	4-5

Assessment: High status conditions continued in the Glenlaur.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	400 m d/s Sheefry Bridge	92072	269298	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	90	6	100	0	0	0	94	0	3	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENNAMONG** **32/G/03**

Tributary of : Lough Feeagh OS Catchment No: 107

OS Grid Ref of Confluence: F 957 018

Date(s) Surveyed: 5/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2005	2009
0100	4-5	3-4	4	3-4	4	4	4

Assessment: Satisfactory but a sparse fauna noted and significant algal growth. Mayflies are now more common than previously perhaps indicating a reduction in acid rain pressure – the catchment is heavily forested and has gradually lost its salmon populations over a number of decades. The catchment still shows sign of overgrazing damage.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Feeagh	94735	302444	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	24	14	100	0	0	32	63	0	0	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENUMMERA** **32/G/05**

Tributary of : 32B01 BUNDORRAGHA OS Catchment No: 130

OS Grid Ref of Confluence: L 845 650

Date(s) Surveyed: 24/8/2009

Previously reported as part of the Bundorragha (32B01)

Biological Quality Ratings (Q Values)

Station Nos.	2002	2006	2009
0010	5	5	5
0070	4-5	4-5	4-5

Assessment: High status was maintained in this Doo Lough tributary. Care is needed with the clear-felling of forestry stands in the catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	N of Glendavock (w of 88m bmark)	88486	268260	0	
0070	1km u/s Doo Lough	85340	267585	0	

River and Code : **GOULAUN** **32/G/06**

Tributary of : 32S02 SRAHMORE OS Catchment No: 107

OS Grid Ref of Confluence: F 967 070

Date(s) Surveyed: 5/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2005	2009
0100	5	4-5	5	4	4	4	3/0	3-4	4

Assessment: An improvement was noted following significant damage due to drainage activities in the catchment particularly in and around 2002.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	1.4 km d/s Bunaveela Lough	98226	307834	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	96	8	94	6	0	5	70	0	4	6	14

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOYOUR** **32/M/01**

Tributary of : Sea - Clew Bay OS Catchment No: 124

OS Grid Ref of Confluence: L 943 876

Date(s) Surveyed: 12/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0100	4	3*	3	3	3-4	3	4
0400	3-4	4	3	3	4	3	-
0700	4	4-5	4	4	4	3-4	4

Assessment: Satisfactory – significant improvement at Stn 0100 where farm pollution had been an issue.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br SW of Slinaun	102985	288802	31	MO
0400	Br S of Lugnafahy	101317	288984	31	MO
0700	Moyour Bridge	96641	287896	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	21	4	36	64	4	0	40	0	42	0	14
0400	16	30	35	65	9	0	7	1	46	2	36
0700	5	43	25	75	12	0	5	0	36	2	44

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : NEWPORT (MAYO) 32/N/01

Tributary of : Sea - Newport Bay
OS Catchment No: 108
OS Grid Ref of Confluence: L 977 941
Date(s) Surveyed: 12/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2005	2009
0020	-	-	-	-	-	-	-	-	4
0050	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	-
0190	4-5	5	4-5	4-5	4-5	4-5	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br 1.25km d/s Lough Beltra	104300	297305	0	MO
0050	4.5 km u/s Br in Newport	101220	295342	31	MO
0190	400 m u/s Newport Bridge	98815	293847	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	11	141	63	37	0	12	55	0	17	3	13
0190	2	147	61	39	0	11	55	0	17	3	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : OWENDUFF (ERRIFF) 32/O/08

Tributary of : 32E01 ERRIFF
OS Catchment No: 131
OS Grid Ref of Confluence: L 951 678
Date(s) Surveyed: 12/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0100	4-5	4	4	4	4-5	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge d/s Tawnyard Lough	92782	267499	38	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	65	12	100	0	0	15	35	0	6	6	38

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENGARVE (MAYO)** **32/O/02**

Tributary of : Sea - Clew Bay OS Catchment No: i5

OS Grid Ref of Confluence: L 882 961

Date(s) Surveyed: 4/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1990	1994	1997	1999	2002	2005	2006	2009
0100	5	4-5	3	4	4	3-4	3-4	3	3-4
0200	4-5	4-5	4	4	3-4	4	3-4	4	3-4

Assessment: Both sites were of moderate ecological status due to a combination of forestry activities and sheep grazing impacts. Significant bank erosion and peat deposits being symptomatic of catchment problems.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NNE Carheenbrack Lough	91166	297901	30	MO
0200	Rosgalliv Br.	88653	296317	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	48	12	90	10	0	16	73	0	0	0	10
0200	7	29	67	32	0	7	82	0	2	0	9

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENGLIN** **32/O/03**

Tributary of : Sea - Clifden Bay OS Catchment No: 135

OS Grid Ref of Confluence: L 658 506

Date(s) Surveyed: 11 & 26/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1986	1990	1994	1997	1999	2002	2006	2009
0100	-	5	5	4	4	4-5	4-5	4
0300	4	4	5	4	4	4	4	4

Assessment: Satisfactory although a decline in status in the upper reaches were noted. The upper valley is heavily forested and appears to be leaching significant quantities of nutrients as evidenced by the algal growth in the river.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	N. of Barnanoraun	74401	251236	37	GY
0300	Br at S.E. end of Clifden	66057	250392	37	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	92	15	91	9	0	6	72	0	0	0	22
0300	10	37	91	9	0	6	71	2	6	1	14

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENNABROCKAGH** **32/O/04**

Tributary of : Sea - Newport Bay OS Catchment No: 109

OS Grid Ref of Confluence: L 973 901

Date(s) Surveyed: 17/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0250	-	4	-	4	4-5	4	4
0380	-	4-5	4	4	4-5	4	-
0500	4-5	4	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0250	Br NE Derrintloura	106081	291958	31	MO
0380	Brockagh Bridge	101565	290723	31	MO
0500	Knocknaboley Bridge	98061	289842	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0250	58	8	100	0	0	5	51	0	31	0	12
0380	20	17	80	20	3	6	43	0	20	0	28
0500	2	20	69	31	6	5	37	0	19	0	32

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENNADORNAUN** **32/O/07**

Tributary of : Sea - South of Clew Bay OS Catchment No: 129

OS Grid Ref of Confluence: L 740 713

Date(s) Surveyed: 13/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0100	4	4	4	3-4	4	3	3-4

Assessment: Moderate status but an improvement on 2006.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S. of Killary Lodge	75945	270245	37	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	39	8	100	0	0	17	65	0	10	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENWEE (MAYO)** **32/O/06**

Tributary of : Sea - Westport Bay OS Catchment No: 126

OS Grid Ref of Confluence: L 958 824

Date(s) Surveyed: 13 & 15/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1990	1994	1997	1999	2003	2006	2009
0200	4-5	4-5	4	4-5	4	3/0	4	4
0600	4-5	4-5	4	4-5	4-5	3-4	4	4

Assessment: Both sites were at good ecological status with no change since 2006. The river seems to have settled following serious disturbances noted in 2003. Quite a few dead freshwater pearl mussel shells were noted at Belclare Bridge. The catchment has experienced a significant amount of one-off house building and land clearance.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge S. of Brackloon	97275	279172	38	MO
0600	Belclare Bridge	95958	282153	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	80	19	100	0	2	7	67	0	9	2	12
0600	10	46	100	0	4	9	51	0	24	2	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SKERDAGH** **32/S/01**

Tributary of : 32N01 NEWPORT (MAYO) OS Catchment No: 108

OS Grid Ref of Confluence: M 034 965

Date(s) Surveyed: 12/10/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2001	2005	2006	2009
0300	5	4	4-5	4-5	4-5	4	4-5	4

Assessment: Satisfactory but a drop in quality was noted compared with 2006.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Knockmoyle Bridge	102692	297588	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	30	20	74	26	0	17	51	0	7	0	25

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SRAHMORE** **32/S/02**

Tributary of : Lough Feeagh OS Catchment No: 107

OS Grid Ref of Confluence: F 965 022

Date(s) Surveyed: 5/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2005	2009
0100	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Lough Feeagh	96311	302860	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	2	45	95	5	0	29	51	0	1	1	17

River and Code : **STREAMSTOWN (CLIFDEN)** **32/S/04**

Tributary of : Sea - Streamstown Bay OS Catchment No: u4

OS Grid Ref of Confluence: L 645 532

Date(s) Surveyed: 26/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2006	2009
0200	4	4	4-5	4	4-5	4-5	4-5

Assessment: High status was maintained in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge SW of Glenbrickeen	64642	253141	37	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	13	14	98	2	9	8	71	0	0	2	9

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TRAHEEN** **32/T/01**

Tributary of : Sea - Ballynakill Harbour OS Catchment No: 134

OS Grid Ref of Confluence: L 687 571

Date(s) Surveyed: 26/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	1999	2006	2009
0100	4-5	5	5	4-5	4	4-5	4-5	4-5

Assessment: High ecological status was recorded again in 2006.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Traheen Bridge	68756	256850	37	GY

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	3	6	79	21	0	16	63	0	8	0	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 33

Ballinglen	33B01
Bellagarvaun	33B04
Bunanioo	33B09
Cartron	33C02
Dooega	33D01
Doolough Stream	33D02
Glencullin (North Mayo)	33G02
Glencullin (West Mayo)	33G03
Keerglen	33K01
Muingnakee	33M04
Munhin	33M03
Owenduff (Blacksod)	33O01
Owenmore (Mayo)	33O04
Sheskin Stream	33S03
Srahduggan Stream *	33S05
Tarsaghaunmore	33T01

* SRAHDUGGAN STREAM Formerly S Branch of Owenduff

River and Code : BALLINGLEN 33/B/01

Tributary of : Sea
OS Catchment No: 102
OS Grid Ref of Confluence: G 103 393
Date(s) Surveyed: 22/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2005	2008	2011
0100	5	5	5	-	4-5	4-5	4-5	4-5	4-5	4-5
0110	-	-	-	5	-	-	-	-	-	-
0150	-	5	4-5	-	-	4-5	-	-	-	-
0200	4	4	4	4-5	4	-	5	4	4	4

Assessment: High status in the upper Ballinglen and moderate status in the lower reaches.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballinglen Bridge	110246	334211	23	MO
0110	Bridge d/s Ballinglen Bridge	110255	334675	23	MO
0150	Ballyglass Br	110073	337938	23	MO
0200	New Bridge	110178	338332	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	29	33	0	100	19	11	57	0	4	0	9
0150	10	42	0	100	24	9	56	0	4	0	7
0200	7	42	0	100	25	8	55	0	4	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : BELLAGARVAUN 33/B/04

Tributary of : Sea - E.S.E. of Inishbiggle
OS Catchment No: i5
OS Grid Ref of Confluence: F 824 044
Date(s) Surveyed: 8/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2005	2008	2011
0300	3-4	3-4	3-4	3	3	3	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br EWN Bellaveeny	82977	304678	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	3	24	99	1	0	32	58	0	8	0	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BUNANIOO** **33/B/09**

Tributary of : Sea - Achill Sound OS Catchment No: i5

OS Grid Ref of Confluence: L 735 947

Date(s) Surveyed: 8/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2003	2005	2008	2011
0100	5	4	4-5	4	4	3-4	4-5	4

Assessment: A drop in quality compared to 2008 from high status to good status but better than observed in 2005.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bunanioo Bridge	73722	294193	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	33	4	85	15	0	0	100	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CARTRON** **33/C/02**

Tributary of : Sea - Bellacragher Bay OS Catchment No: l5

OS Grid Ref of Confluence: F 800 015

Date(s) Surveyed: 8/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	1999	2002	2005	2008	2011
0100	4-5	4-5	4	4	3-4	3	3	3-4	4	4

Assessment: The improvement noted in 2008 was maintained in 2011. As forestry activities in the catchment progress, however, care will be needed to maintain water quality.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge W. of Lough Gall	80000	300184	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	15	10	96	4	0	39	49	0	0	2	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOOEGA** **33/D/01**

Tributary of : Sea - Pollbaun Point OS Catchment No: i5

OS Grid Ref of Confluence: L 671 987

Date(s) Surveyed: 8/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2003	2005	2008	2011
0200	4	3-4	4	4	4	4	3	4

Assessment: An improvement to good status was noted in 2011.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	South Bridge at Dooega	66984	299109	30	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	7	10	100	0	3	0	86	0	11	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : DOOLOUGH STREAM

33/D/02

Tributary of : Sea - Blacksod Bay
OS Catchment No: k5
OS Grid Ref of Confluence: F 745 246
Date(s) Surveyed: 8/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2003	2005	2008	2011
0100	3-4	3	3	3-4	3-4	3-4	3	2-3

Assessment: Quality remains poor in this Blacksod Bay tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge S. of Lough Nahelly	74973	324758	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	6	15	100	0	2	0	83	0	3	0	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : GLENCULLIN (NORTH MAYO)

33/G/02

Tributary of : Sea - Bunatrahir Bay
OS Catchment No: 101
OS Grid Ref of Confluence: G 095 398
Date(s) Surveyed: 22/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2005	2008	2011
0100	5	5	4-5	4-5	4-5	4-5	3-4	4	4	4
0200	5	5	5	4-5	4-5	4-5	4	4	4	4-5

Assessment: Good status in the upper reaches and improving to high status in the lower reaches at Killerduff Bridge.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NE Sralagagh East	108440	337579	23	MO
0200	Killerduff Bridge	109339	339262	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	49	15	0	100	2	32	38	0	0	0	28
0200	8	18	0	100	13	26	36	0	2	0	23

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENCULLIN (WEST MAYO)** **33/G/03**

Tributary of : Carrowmore Lake OS Catchment No: 105

OS Grid Ref of Confluence: F 844 284

Date(s) Surveyed: 15/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2005	2008	2011
0025	-	-	-	-	-	3-4	4	4
0100	-	-	-	-	4	4	4	4
0200	4-5	5	5	4-5	-	-	-	-

Assessment: Satisfactory conditions maintained in 2011 in this important tributary of Carrowmore Lake.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0025	SSW Glencullin Upper	90746	325830	23	MO
0100	Br u/s Carrowmore Lake	86331	327397	23	MO
0200	1 km u/s Carrowmore Lake	85152	328041	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	8	20	32	68	12	2	66	0	0	0	19

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KEERGLEN** **33/K/01**

Tributary of : 33B01 BALLINGLEN OS Catchment No: 102

OS Grid Ref of Confluence: G 105 338

Date(s) Surveyed: 22/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2005	2008	2011
0200	5	5	4-5	5	5	5	4-5	4-5

Assessment: High status conditions maintained.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	SW of Kilkeerglen	109269	333221	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	59	14	0	100	4	16	72	0	0	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MUINGNAKEE** **33/M/04**

Tributary of : GLENCULLIN (WEST MAYO) OS Catchment No:

OS Grid Ref of Confluence: F 86700 27

Date(s) Surveyed: 15/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	2005	2011
0100	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br u/s Glencullin R confl	86855	326865	23	MO

River and Code : **MUNHIN** **33/M/03**

Tributary of : 33O04 OWENMORE (MAYO) OS Catchment No: 105

OS Grid Ref of Confluence: F 818 228

Date(s) Surveyed: 8/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2005	2008	2011
0100	4-5	4	4	-	-	-	-	-	-	-
0200	4	4-5	4-5	4	4	4	3-4	3-4	4	4

Assessment: Good status maintained upstream of the Owenmore and downstream of the old Bord na Mona worked bogs and Carrowmore Lake.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Munhin Bridge	83774	325327	22	MO
0200	Bridge u/s Owenmore River	82161	323265	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	9	88	75	25	6	7	56	0	5	11	14
0200	3	105	79	21	7	6	60	0	5	10	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENDUFF (BLACKSOD)** **33/O/01**

Tributary of : Sea - Tullaghan Bay OS Catchment No: 106

OS Grid Ref of Confluence: F 794 150

Date(s) Surveyed: 7/7/2011, 15/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	1999	2002	2005	2008	2011
0010	-	5	4	4	4	4	4-5	4-5	4	4-5
0020	-	5	4-5	4-5	4	4-5	4	4	4	4
0030	-	5	4-5	4	4	4	4	4	4	4
0050	4-5	5	4-5	-	-	-	-	-	-	-
0090	-	-	-	-	-	-	-	-	-	4-5
0100	4	5	4	4	4	4-5	4	4	4	-

Assessment: Improved quality at the uppermost site (0010) and good status maintained in the middle reaches. A new site (0090) was introduced into the survey in 2011 to be sampled instead of Stn 0100 to avoid the possibility of an occasional tidal influence at Srahnamanragh Bridge and following the introduction of a new weir. High status conditions were recorded here.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	N. of Srahduggan	86674	307298	23	MO
0020	Near Sheean Lodge	84119	309685	23	MO
0030	Ford u/s Tarsaghanmore River	83253	314271	22	MO
0050	1.5 km u/s Srahnamanragh Br	80629	315147	22	MO
0090	0.5 km u/s Srahnamanragh Bridge	80635	314750	22	MO
0100	Srahnamanragh Bridge	80085	314675	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	48	34	100	0	0	0	91	0	1	0	8
0020	36	57	100	0	0	1	90	0	2	1	7
0030	21	77	100	0	0	1	91	0	2	1	5
0050	6	119	100	0	1	0	89	0	2	0	7
0100	1	127	99	1	1	0	88	0	4	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENMORE (MAYO)** **33/O/04**

Tributary of : Sea - Tullaghan Bay OS Catchment No: 105

OS Grid Ref of Confluence: F 803 208

Date(s) Surveyed: 6/7/2011, 7/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1980	1981	1986	1990	1994	1997	1999	2002	2005	2008	2011
0050	-	-	4-5	5	4-5	4	4-5	4	4	4-5	4
0090	5	-	-	4-5	-	-	-	-	-	-	-
0100	4	-	4-5	5	-	-	-	-	-	-	-
0250	-	-	4-5	4	-	-	-	-	4	4-5	4-5
0270	-	-	-	4	4	4-5	4-5	4-5	4-5	-	4-5
0280	-	-	-	4-5	-	-	-	-	-	-	-
0300	-	4-5	4	4	4-5	4-5	4-5	4-5	4	4	4
0301	-	-	-	3	2-3	4	-	-	-	-	-
0325	-	-	-	-	-	-	-	-	-	4	4-5
0400	-	-	-	5	-	-	4-5	4	4-5	-	-
0450	-	-	-	4	-	-	-	-	-	-	-
0500	-	-	-	4	4	4-5	4	4-5	4-5	4	4-5

Assessment: The upper site (0050) had dropped back to good status in 2011. The middle stretch held its high status (0250, 0270) and Stn 0300 at Bangor was again at good status. The Owenmore River showed some improvements in the lower sites (0325, 0500) which were at high status. The closure of the Bord na Mona bogs and the power station at Bellacorrick may be expected to contribute to improvements in water quality especially in relation to silt loadings in the system. The regrowth and consolidation of the large area previously worked may take some time. The catchment also has extensive forestry plantations.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br SE Srahnakilly	97833	323161	23	MO
0090	0.3 km u/s Bellacorick Bridge	97400	320300	23	MO
0100	Bellacorick Bridge	96684	320090	23	MO
0250	Ballymonnelly Br	93854	321273	23	MO
0270	SW of Largan	90910	322380	23	MO
0280	2.3 km u/s Br at Bangor Erris	87980	322275	23	MO
0300	Br at Bangor Erris (Main fl)	86265	322880	23	MO
0301	Bridge at Bangor Erris (RHS)	86232	322861	23	MO
0325	D/s Bangor WWT plant.	85334	322667	23	MO
0400	At Srahmore 3 km u/s Munhin	83226	323361	22	MO
0450	100 m d/s Munhin River confl	81574	322818	22	MO
0500	700 m d/s Munhin River confl	81414	322552	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	80	68	10	90	2	20	61	0	0	0	17
0100	71	159	11	89	1	18	53	0	0	0	28
0270	54	196	11	89	1	15	56	0	1	0	26
0300	24	214	14	86	2	14	58	0	1	0	25
0301	24	214	14	86	2	14	58	0	1	0	25
0400	10	222	17	83	3	13	58	0	1	0	24
0500	1	330	36	64	4	11	59	0	2	3	20

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHESKIN STREAM** **33/S/03**

Tributary of : 33O04 OWENMORE (MAYO) OS Catchment No: 105

OS Grid Ref of Confluence: F 979 232

Date(s) Surveyed: 6/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2005	2008	2011
0150	5	4-5	4-5	4-5	4	4	4-5	4-5

Assessment: The Sheskin remained at high status for the macroinvertebrates. Siltation is still evident, however, and too much filamentous algae was noted; indicating some residual impact from the extensive peat workings (now closed).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0150	Bridge 1 km u/s Oweniny R	97532	324008	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0150	83	32	0	100	0	25	39	0	0	0	36

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SRAHDUGGAN STREAM** **33/S/05**

Tributary of : 33O01 OWENDUFF (BLACKSOD) OS Catchment No: 33

OS Grid Ref of Confluence: F 866 073

Date(s) Surveyed: 7/7/2011

Formerly S Branch of Owenduff

Biological Quality Ratings (Q Values)

Station Nos.	1994	1997	1999	2002	2005	2008	2011
0005	3-4	4	4	4	4	4	4

Assessment: Continuing satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Ford u/s confl with Owenduff R	86680	307110	23	MO

River and Code : **TARSAGHAUNMORE** **33/T/01**

Tributary of : 33O01 OWENDUFF (BLACKSOD) OS Catchment No: 106

OS Grid Ref of Confluence: F 832 144

Date(s) Surveyed: 15/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	1999	2002	2005	2008	2011
0100	4	4	4	4-5	4-5	4	4	4

Assessment: Good status. Significant growth of filamentous algae was noted, however, where sampled just upstream of the Owenduff River (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Just u/s Owenduff River	83222	314369	22	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	21	38	99	1	0	0	87	0	2	0	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 34

This is a large catchment located largely in County Mayo but including parts of Sligo in the upper reaches of the River Moy. The county or counties associated with individual monitoring -stations are noted. It includes the River Deel and Loughs Conn and Cullin and their tributaries plus the main River Moy flowing from the East initially and then North to Ballina and Killala Bay.

River Name	River Code
Addergoole	34A01
Bar Deela	34B02
Behy (North Mayo)	34B08
Bellanamean	34B04
Bellawaddy	34B05
Black (Sligo) *	34B12
Breaghwy	34B06
Brusna (North Mayo)	34B07
Burren Stream (Clydagh) *	34B13
Carroward	34C09
Castlebar	34C01
Clydagh (Castlebar)	34C05
Lough Muck Stream	34L05
Loughnaminoo Stream	34L04
Manulla	34M01
Meander	34M05
Strade	34S04
Callow Loughs Stream	34C08
Carrowkeribly Lough Stream	34C07
Charlestown Stream *	34C28
Cloonaghmore	34C03
Cloonlavis	34C10
Crumlin (Lough Cullin)	34C11
Deel (Crossmolina)	34D01
Duvowen	34D03
Eignagh	34E01
Fiddaunatooghaun Stream *	34F06
Glenree	34G01
Glore (Mayo)	34G02
Gweestion	34G03
Leaffony	34L01
Lenyvee	34L06
Little (Strade)	34L02
Loughanaboll	34L07
Mad	34M04
Moy	34M02
Mullaghanoe	34M03
Oughtagh	34O05
Owenaher	34O01
Owengarve (Sligo)	34O03
Owenlobnaglaur	34O04
Pollagh	34P01
Shanvolahan	34S01
Slieveclaur	34S06
Sonnagh (Moy)	34S02
Spaddagh	34S03
Swinford	34S05
Trimoge	34T01
Tubbercurry	34T02
# Tubbercurry Stream	34T03
Yellow (Foxford)	34Y01
Yellow (Knock)	34Y02

# indicates rivers having seriously polluted stretches at time of this survey.
* BLACK (SLIGO) MULLAGHANOE 34M030180 .
* BURREN STREAM (CLYDAGH) Previously reported as part of the Clydagh (Castlebar) 34C05
* CHARLESTOWN STREAM Previously reported as part of the Mullaghanoe
* FIDDAUNATOOGHAUN STREAM Previously reported as part of the Shanvolahan 34S01

River and Code : **ADDERGOOLE** **34/A/01**

Tributary of :

OS Catchment No: 110

OS Grid Ref of Confluence: G 151 105

Date(s) Surveyed: 19/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1999	2001	2005	2007	2010
0100	-	4	-	-	3-4	4	-	4
0300	4	-	2-3	4	-	-	-	-
0500	4-5	-	-	-	-	-	-	-
0600	-	4	4	4-5	4	4	4-5	4

Assessment: Satisfactory at both sites surveyed in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge just d/s Levally Lough	114270	305550	0	MO
0300	Br 0.6km d/s Levally Lough	114066	306042	23	MO
0500	Bridge NW of Tonacrock	114688	309157	0	MO
0600	Bridge u/s Lough Conn	114963	309861	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	28	21	38	62	11	0	52	0	28	6	2
0600	19	40	40	60	9	1	52	0	32	3	2

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BAR DEELA** **34/B/02**

Tributary of : 34D01 DEEL (CROSSMOLINA)

OS Catchment No: 110

OS Grid Ref of Confluence: G 016 147

Date(s) Surveyed: 12/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1999	2001	2005	2007	2010
0200	4	4	3	4	4	4	4	4

Assessment: Satisfactory with no significant change noted. The presence of cattle in the river is giving rise to some pollution at the sample point close to the confluence with the Deel River (qv).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Deel R confl	101362	314675	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	58	17	44	56	0	2	45	0	4	0	50

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BEHY (NORTH MAYO)** **34/B/08**

Tributary of : 34G01 GLENREE OS Catchment No: 110

OS Grid Ref of Confluence: G 283 182

Date(s) Surveyed: 10/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2002	2004	2005	2007	2010
0300	5	3*	5	5	4-5	4-5	-	-	4-5
0400	5	4	4-5	3-4/0	4-5	-	4-5	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br S Bunnyconnellan W	132533	317178	24	MO
0400	Behy Bridge	128781	318132	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	54	7	68	32	33	0	66	0	1	0	0
0400	20	35	34	66	56	1	37	0	3	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BELLANAMEAN** **34/B/04**

Tributary of : 34E01 EIGNAGH OS Catchment No: 110

OS Grid Ref of Confluence: G 412 086

Date(s) Surveyed: 7/10/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2010
0200	-	4	4-5	4	4-5	4-5	-	4-5
0300	5	5	-	-	-	-	-	-
0500	4-5	3-4	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: High ecological status noted at both sites surveyed in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br 1.5 km NE of L. Naskea	136660	309539	24	SO
0300	Bridge N. of Belclare	0	0	0	SO
0500	Bridge u/s Eignagh River	140639	309098	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	151	5	100	0	0	0	64	0	23	0	12
0500	46	13	77	23	14	2	40	0	24	0	19

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BELLAWADDY** **34/B/05**

Tributary of : Killala Bay (at Enniscrone) OS Catchment No: 111

OS Grid Ref of Confluence: G 284 296

Date(s) Surveyed: 27/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1989	1993	1995	1999	2001	2004	2007	2010
0100	5	3-4	3	4	3	4	4	4	-	-
0150	-	-	3-4	4-5	-	-	-	-	4	4
0200	4	4	4	4	4	4	4-5	4	-	4
0300	3	3-4	4	4	-	-	-	-	4	3

Assessment: A deterioration was noted at site 0300 in Enniscrone when surveyed in July 2010. The upper reaches were in satisfactory condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E. of Tullylin (main road)	133470	327924	24	SO
0150	Bridge u/s Knocknagower Br	131730	328545	24	SO
0200	Knocknagower Bridge	129852	328499	24	SO
0300	Bridge in Enniscrone	128424	329640	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	61	5	0	100	62	0	35	0	0	0	3
0200	31	11	0	100	70	0	22	0	7	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BLACK (SLIGO)** **34/B/12**

Tributary of : 34M03 MULLAGHANOE OS Catchment No: 110

OS Grid Ref of Confluence: G 484 020

Date(s) Surveyed: 22/7/2010

(Formerly Mullaghanoe: 34M03018)

Biological Quality Ratings (Q Values)

Station Nos.	2004	2010
0140	4	-
0180	-	3-4

Assessment: Conditions were less than satisfactory in this Mullaghanoe tributary stream in July 2010 with the pollution tolerant Chironomus larvae present indicating organic pollution sources.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0140	Bridge N of Cloonmeen West	150637	301360	32	MO
0180	Bridge N. of Charlestown	147900	302690	32	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0140	-	3	56	44	23	0	25	0	0	0	52

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BREAGHWY** **34/B/06**

Tributary of : 34C03 CLOONAGHMORE OS Catchment No: 104

OS Grid Ref of Confluence: G 161 278

Date(s) Surveyed: 10/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1999	2001	2005	2007	2010
0200	4	4-5	3-4	3	4	4	-	4
0600	4-5	4	3	4	4	4	4	4

Assessment: Satisfactory at both sites surveyed.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Belladooan Br	111890	328439	23	MO
0600	Bridge S.W. of Seeaghanbaun	114304	327622	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	40	4	0	100	21	7	26	0	36	0	10
0600	22	13	0	100	48	3	15	0	31	0	3

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BRUSNA (NORTH MAYO)** **34/B/07**

Tributary of : 34G01 GLENREE OS Catchment No: 110

OS Grid Ref of Confluence: G 289 190

Date(s) Surveyed: 27/7/2010 and 5/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1999	2001	2002	2004	2007	2010
0200	4-5	4-5	4-5	4	4	-	4	4	4
0300	-	4	-	-	-	-	-	-	-
0400	4	-	5	4-5	-	4-5	4-5	-	4-5
0600	4-5	4-5	4	4-5	-	4	4-5	4	4

Assessment: Satisfactory with high status maintained at station 0400.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge E. of Emlymoran	131636	323930	24	SO
0300	Br W of Carha	131090	322546	24	SO
0400	Bridge W. of Cloonta	130196	320988	24	MO
0600	Just u/s Glenree River confl	128608	319117	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	55	12	0	100	43	4	52	0	1	0	0
0400	38	28	1	99	38	5	46	0	5	0	5
0600	25	32	1	99	44	5	42	0	5	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BURREN STREAM (CLYDAGH)** **34/B/13**

Tributary of : 34C05 CLYDAGH (CASTLEBAR) OS Catchment No: 110

OS Grid Ref of Confluence:

Date(s) Surveyed: 13/7/2011

Previously reported as part of the Clydagh (Castlebar) 34C05

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2011
0015	4-5	4-5	4-5	4-5	4-5	4-5	5	4-5

Assessment: High status. The site surveyed is notable for the presence of the diatom Didyomsphenia (first noted 1993).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015	Br W Derrylahan	114531	297212	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015	100	7	100	0	0	0	71	0	0	0	29

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CALLOW LOUGHS STREAM** **34/C/08**

Tributary of : 34Y01 YELLOW (FOXFORD) OS Catchment No: 110

OS Grid Ref of Confluence: G 293 062

Date(s) Surveyed: 26/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2010
0200	4	4	-	-	-	-	-	-
0300	4	4-5	4	4-5	4-5	4-5	4-5	4-5

Assessment: This river continues to be in high ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Second Br d/s Callow Loughs	130085	304855	24	MO
0300	Bridge u/s Yellow River	129356	305629	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	19	9	100	0	0	4	53	0	29	13	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CARROWARD** **34/C/09**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: M 290 985

Date(s) Surveyed: 14/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2011
0300	4-5	4-5	4	4	4	4	-	3-4
0600	4-5	4-5	-	-	-	-	-	-
0700	-	3*	4	4-5	4	4-5	4	4

Assessment: Satisfactory but signs of eutrophication are evident in this small tributary of the River Moy.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge N.W. of Bohola	130068	295648	31	MO
0600	Bridge E. of Ardacarha	130122	296864	0	MO
0700	Br 0.5 km u/s Moy R confl	128945	298316	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	32	5	0	100	0	4	24	0	72	0	0
0700	15	11	0	100	20	2	10	0	68	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : CARROWKERIBLY LOUGH STREAM 34/C/07

Tributary of : 34M02 MOY OS Catchment No: 110
OS Grid Ref of Confluence: G 265 104
Date(s) Surveyed: 15/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2005	2007	2010
0300	-	-	4-5	4-5	4-5	4	-	-
0400	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
0600	4	3-4	4	4	4-5	4	4-5	4

Assessment: Generally satisfactory but the loss of high status in the lower 0600 site is noted in comparison with 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br u/s Ballymore L.	129568	313161	24	MO
0400	Bridge near Ardrass	127707	312002	24	MO
0600	Bridge u/s Moy River confl	126346	310474	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	15	14	80	20	40	2	53	0	0	0	5
0400	16	29	69	31	46	2	42	0	4	2	4
0600	5	35	67	33	44	4	40	0	4	3	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : CHARLESTOWN STREAM 34/C/28

Tributary of : 34M03 MULLAGHANOE OS Catchment No: 110
OS Grid Ref of Confluence: G 475 027
Date(s) Surveyed: 22/7/2010

Previously reported as part of the Mullaghanoe

Biological Quality Ratings (Q Values)

Station Nos.	1980	1983	1985	1989	1993	1995	1998	2001	2004	2007	2010
0070	5	5	-	4-5	4-5	-	-	-	-	-	-
0100	3	4	4-5	3	4	2-3	2-3	3-4	3-4	2-3	3

Assessment: The Charlestown Stream is impacted by the town wastewater treatment plant just upstream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0070	Bridge at Bracklagh	0	0	0	MO
0100	Bridge W.N.W. of Bellahy	147505	302542	32	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	60	25	72	28	60	1	13	2	4	0	21

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CASTLEBAR** **34/C/01**

Tributary of :

OS Catchment No: 110

OS Grid Ref of Confluence: M 234 963

Date(s) Surveyed: 20/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	71	73	75	77	79	80	81	83	84	86	89	93	95	98	01	05	07	11
0010	-	-	-	-	-	4-5	-	4	-	-	4	3-4	4	-	-	-	-	-
0020	-	-	-	-	-	4-5	-	5	-	-	4-5	4	5	4-5	4-5	4-5	5	4-5
0030	-	-	-	-	-	4-5	-	5	-	-	4	4-5	4	4	4	4	-	4
0040	-	-	-	-	-	4-5	-	-	-	-	4-5	4	-	-	-	-	-	-
0100	4-5	4-5	4-5	4-5	4	4	-	4	4	-	4	4	3-4	3-4	4	-	-	-
0180	-	-	-	-	-	-	-	-	-	-	3	3	-	-	-	-	3	3
0200	1	1-2	1	1	1	1	2-3	3	3	3	3	3	3	3	2-3	2-3	2-3	3
0300	3	3	1-2	2-3	2-3	2	3	3	3	-	3	3	3	3	3	3-4	3	-
0400	4	4	3-4	3	3	3	3-4	3-4	3-4	3-4	3-4	3-4	3	4	4	3-4	3	-
0500	4-5	-	-	-	-	4	-	4-5	-	-	4	4	3-4	4-5	4	4-5	4	-

Assessment: The upper reaches of the Castlebar were in satisfactory condition. In Castlebar town (0180) and downstream of the town conditions deteriorated albeit with an improvement in comparison with 2007 but still showing some impact from discharges that bypass the main wastewater treatment plant. The phosphate concentrations in the river at Station 0500 just upstream of Lough Cullen show an apparent decline from 2007/2008 to 2010/2011. Additional surveys to be carried out in 2012 will assess any further improvements since the upgrading of the town wastewater treatment plant.

Station No.	Stations Location	National Grid Ref. X	Y	Discovery Series No.	County Code
0010	Br N.E. of L Sallagher	111206	293596	31	MO
0020	Br near Graffa More	111261	290494	31	MO
0030	Br u/s Islandeady L	110048	289381	31	MO
0040	500 m d/s Islandeady L	110500	288700	31	MO
0100	d/s First Br in Castlebar	114297	290396	31	MO
0180	D/s Fourth Br in Castlebar	114965	290625	31	MO
0200	Br 2.5 km d/s Castlebar	117000	292007	31	MO
0300	Br N. of Turlough Park	120893	293710	31	MO
0400	Br 1 km W. of Ballyvary	123357	294532	31	MO
0500	Bridge at Fisherhill	122868	300091	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	102	2	100	0	0	18	62	0	0	0	20
0020	70	5	100	0	0	8	68	0	16	0	9
0030	32	18	79	21	0	7	34	0	39	2	18
0100	29	83	41	59	1	2	30	3	39	3	20
0200	25	90	39	61	1	2	29	6	40	3	19
0300	15	96	37	63	3	2	27	6	42	3	18
0400	10	282	13	87	23	1	15	3	45	1	11
0500	9	354	27	73	20	2	23	2	39	1	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONAGHMORE** **34/C/03**

Tributary of : OS Catchment No: 104

OS Grid Ref of Confluence: G 174 314

Date(s) Surveyed: 11 & 12/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1979	1981	1986	1989	1993	1995	1999	2001	2005	2007	2010
0030	-	-	-	-	-	4-5	4-5	4-5	4-5	4-5	4
0060	-	-	-	5	-	-	-	-	-	-	-
0100	-	5	5	4-5	4	4	4-5	4	4-5	-	4
0150	-	5	4	5	4-5	4	4-5	4	4-5	4-5	4
0200	4-5	4-5	3-4	4	4	4	4-5	4-5	4	-	4
0270	-	-	-	-	-	4-5	4	4-5	4	4-5	4
0280	-	-	-	4	-	-	-	-	-	-	-
0300	4	4	4-5	-	4	-	-	-	-	-	-
0310	1	4	4	4	-	-	-	-	-	-	-

Assessment: The Cloonaghmore while satisfactory over its length had deteriorated in comparison with the 2007 samples from high to good ecological status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	Br u/s Ford SSE Tawnywaddyduff	107128	324369	23	MO
0060	Bridge near Lecarrownwaddy	0	0	0	MO
0100	Bridge near Belville	112162	324780	23	MO
0150	Ballintober Bridge	114375	326127	23	MO
0200	Tonrehown Bridge	115725	328668	23	MO
0270	1.2 km u/s Palmerstown Br	116966	331253	24	MO
0280	0.2 km u/s Palmerstown Bridge	117122	331467	24	MO
0300	Palmerstown Bridge (LH side)	117372	331447	24	MO
0310	Palmerstown Bridge (RH side)	117372	331447	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	67	11	0	100	2	24	63	0	3	0	8
0100	36	43	0	100	8	13	62	0	9	0	8
0150	25	51	0	100	17	12	55	0	8	0	7
0200	14	96	0	100	31	9	39	0	14	0	7
0270	3	132	0	100	43	6	31	0	13	0	6
0300	1	133	0	100	43	6	31	0	13	0	6
0310	1	133	0	100	43	6	31	0	13	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONLAVIS** **34/C/10**

Tributary of : 34Y02 YELLOW (KNOCK) OS Catchment No: 110

OS Grid Ref of Confluence: M 350 868

Date(s) Surveyed: 5/10/2010

Biological Quality Ratings (Q Values)

Station Nos.	1994	1995	1998	2001	2005	2007	2010
0100	4	3	4	4	3-4	-	-
0300	4	4	4	4	4-5	4-5	4-5

Assessment: High ecological status noted in the Cloonlavis.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge W of Knockbaun	137898	281323	32	MO
0300	Bridge u/s Yellow R confluence	135750	285160	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	71	13	0	100	43	0	40	1	13	2	1
0300	59	18	0	100	41	0	30	1	26	2	1

River and Code : CLYDAGH (CASTLEBAR) 34/C/05

Tributary of : 34C01 CASTLEBAR OS Catchment No: 110
OS Grid Ref of Confluence: G 229 004
Date(s) Surveyed: 12 & 13/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1987	1989	1993	1995	1998	2001	2004	2007	2011
0020	-	-	-	-	5	-	-	-	-	-	-
0030	-	-	-	5	5	5	5	4-5	4-5	5	4-5
0040	-	-	-	-	5	-	-	-	-	-	-
0050	5	5	-	5	5	-	-	-	-	-	-
0070	-	-	-	-	-	4-5	4	4-5	4	-	4-5
0100	5	4-5	-	5	4	-	-	-	-	4-5	4-5
0120	-	-	-	5	4	-	-	-	4-5	-	-
0125	-	-	-	4-5	-	-	-	-	-	-	-
0140	-	-	-	3-4	4-5	4	4-5	-	3-4	4-5	4
0150	4-5	5	-	-	-	-	-	4-5	-	n/s	-
0200	5	5	4	3	4-5	4	-	5	4	4-5	4-5

Assessment: The Clydagh River's high status was maintained at all sites surveyed in July 2011.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br S of Lenanea	111350	297410	31	MO
0030	Br NW Ardvarney	114243	296525	31	MO
0040	Ford NW L. Naspleenagh	115300	295100	31	MO
0050	Bridge N.W. of Naspleenagh L	115580	295175	31	MO
0070	Br SW Sranalee	116980	295765	31	MO
0100	Clydagh Bridge	117220	294430	31	MO
0120	Footbridge SE Cloonkesh	118779	294075	31	MO
0125	D/s Footbr S.E. of Cloonkesh	118845	294095	31	MO
0140	Br SW Ballyguin	119571	294692	31	MO
0150	Bridge E. of Ballyguin	120910	294140	31	MO
0200	Br NE Ballyart	122211	296142	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	104	6	100	0	0	9	80	0	0	0	11
0070	64	34	100	0	0	12	67	0	2	0	20
0100	58	35	100	0	0	12	66	0	2	0	20
0140	32	48	93	7	3	11	62	0	6	0	18
0200	15	53	88	12	6	10	57	0	10	0	17

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : CRUMLIN (LOUGH CULLIN) 34/C/11

Tributary of : Lough Cullin OS Catchment No: 110
OS Grid Ref of Confluence: G 222 018
Date(s) Surveyed: 15/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1994	1995	1998	2002	2004	2007	2010
0300	4-5	4	3-4	4	3-4*	4-5	4-5	4-5

Assessment: High status continues.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Bridge u/s Lough Cullin	121092	301325	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	17	20	100	0	0	3	48	0	38	5	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DEEL (CROSSMOLINA)** **34/D/01**

Tributary of : Lough Conn OS Catchment No: 110

OS Grid Ref of Confluence: G 175 171

Date(s) Surveyed: 12 & 13/8/2010, 19 & 30/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1980	1984	1989	1993	1995	1998	2001	2005	2007	2010
0006	-	-	-	-	-	5	4-5	4-5	4	4	4	4	4
0010	-	-	-	5	5	4-5	4-5	4	4	4	4	4	4
0025	-	-	-	4-5	4-5	4-5	4	4	3-4	4	4	4	4
0050	-	-	-	-	5	-	-	-	-	-	-	-	-
0100	5	-	-	5	5	4-5	4-5	4	4-5	5	4-5	4-5	4-5
0120	-	-	-	-	-	-	-	-	-	-	4	4-5	4
0150	-	-	-	4	-	4	4	-	-	-	-	-	-
0200	-	-	-	-	-	4-5	4-5	-	4	-	4-5	-	-
0250	-	-	-	-	-	-	-	3	-	4	4	-	-
0300	5	5	4-5	3-4	3-4	4	5	3-4	4	4-5	4	4	4
0400	-	-	-	-	4	4-5	4-5	4	4-5	4-5	4-5	-	4-5

Assessment: This major tributary of Lough Conn was in good or high status over its length in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0006	Bridge at Keenagh	102160	310888	23	MO
0010	Deel Bridge	100978	315759	23	MO
0025	Ford S.W. of Knockbrack	106715	314258	23	MO
0050	Ford at Ballymulty	108981	315078	23	MO
0100	Ford E. of Ballycarroon House	112102	316034	23	MO
0120	Crossmolina Bridge .	113770	317650	23	MO
0150	S.E. of Crossmolina	114500	316400	0	MO
0200	800 m d/s Crossmolina Bridge	114258	317863	23	MO
0250	1.3km d/s Crossmolina Br	114016	318340	23	MO
0300	Knockadangan Bridge	115748	319214	23	MO
0400	Br at Deelcastle	117885	318843	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0006	87	9	88	12	3	3	65	0	2	0	27
0010	55	64	32	68	2	4	63	0	9	0	22
0025	45	98	27	73	2	4	64	0	10	0	20
0050	39	143	21	79	3	6	63	0	12	0	16
0100	26	152	20	80	7	5	59	0	12	0	16
0200	18	155	20	80	9	5	58	0	12	0	15
0250	16	156	20	80	9	5	58	0	12	0	15
0300	10	227	13	87	29	4	44	0	12	0	11
0400	10	230	13	87	29	4	43	0	12	0	11

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUVOWEN** **34/D/03**

Tributary of : 34C03 CLOONAGHMORE OS Catchment No: 104

OS Grid Ref of Confluence: G 144 261

Date(s) Surveyed: 11/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1999	2001	2005	2007	2010
0100	-	4-5	-	-	-	-	-	-
0300	-	-	-	-	-	4	-	4
0400	-	-	4	4	4	-	-	-
0500	4-5	4	-	-	-	-	-	-
0800	4-5	4-5	4	4	4	4-5	4-5	4

Assessment: Satisfactory albeit with a decline noted in the lowermost site vis a vis 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge N of Carnclogh	0	0	0	MO
0300	Br N Ballynagar (main Road)	110532	326784	0	
0400	Br S of Garranard	111689	326152	23	MO
0500	Bridge E.S.E. of Garranard	0	0	0	MO
0800	Br u/s Cloonaghmore River	114125	326062	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	40	14	0	100	21	12	44	0	1	0	22
0800	26	17	0	100	28	10	37	0	6	0	19

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **EIGNAGH** **34/E/01**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: G 433 080

Date(s) Surveyed: 20/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1977	1979	1981	1986	1989	1993	1995	1998	2001	2004	2007	2010
0080	-	-	-	-	-	4-5	-	-	-	-	-	-
0100	-	-	5	5	5	5	4-5	4-5	5	5	5	5
0200	-	4-5	5	4-5	4-5	4-5	4	4	4-5	5	-	4-5
0300	5	-	4-5	5	4-5	4-5	4	4-5	4	4-5	4-5	4-5

Assessment: High ecological status was recorded over the length of the Eignagh in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br 1.2 km d/s L. Talt	140960	313905	24	SO
0100	Bridge 1.75 km d/s Lough Talt	141442	313659	24	SO
0200	Bridge in Aclare	141020	310045	24	SO
0300	Br u/s Moy River at Cloongoonagh	143097	308108	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	81	13	100	0	16	4	70	0	2	8	0
0200	50	34	73	27	32	3	44	0	14	3	4
0300	41	59	61	39	31	3	43	0	14	2	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FIDDAUNATOOGHAUN STREAM** **34/F/06**

Tributary of : 34S01 SHANVOLAHAN OS Catchment No: 110

OS Grid Ref of Confluence:

Date(s) Surveyed: 13/8/2010

Previously reported as part of the Shanvolahan 34S01

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2005	2007	2010
0100	3	4	4	4	4	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Eskeragh Bridge	103890	318899	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	66	6	0	100	0	0	75	0	5	0	20

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLENREE** **34/G/01**

Tributary of : Sea - Moy Estuary OS Catchment No: 110

OS Grid Ref of Confluence: G 255 195

Date(s) Surveyed: 5 & 9/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1979	1981	1986	1989	1993	1995	1998	2001	2004	2005	2007	2010
0020	-	-	-	-	5	4-5	5	4-5	4-5	-	4-5	4-5
0050	-	-	5	5	5	5	-	5	5	-	-	4-5
0053	-	-	-	-	-	-	4-5	-	-	-	-	-
0060	-	-	-	-	5	4-5	5	4-5	4-5	-	4-5	4-5
0100	5	5	5	5	4-5	-	-	-	-	-	-	4-5
0200	4	4-5	4	4	4-5	4-5	4	4-5	-	4-5	4	4

Assessment: Generally high status with little change in comparison with 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Bridge near Carrownaglogh	136084	319511	24	MO
0050	Bridge 2 km E. of Cloonta	132475	320862	24	MO
0053	Br. SE of Cloonta	131539	320499	24	MO
0060	0.7 km u/s Brusna River confluence	129030	319334	24	MO
0100	Ford u/s Rathkip	126883	317994	24	MO
0200	Bunree Bridge	125500	319402	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	107	9	97	3	5	14	69	0	7	0	4
0050	55	13	69	31	14	10	60	0	7	0	9
0053	48	14	67	33	16	10	58	0	8	0	8
0060	30	19	48	52	24	7	55	0	6	0	9
0100	14	93	23	77	47	3	41	0	4	0	5
0200	4	96	23	77	47	3	40	1	4	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GLORE (MAYO)** **34/G/02**

Tributary of : 34G03 GWEESTION OS Catchment No: 110

OS Grid Ref of Confluence: M 343 930

Date(s) Surveyed: 6/9/2010 & 5/10/2010

Biological Quality Ratings (Q Values)

Station Nos.	1977	1980	1984	1989	1993	1995	1998	2001	2005	2007	2010
0005	-	-	-	4	4	-	-	-	-	-	-
0010	-	4	3-4	3-4	3-4	3	-	3	3	3	4
0050	-	4	4-5	4	4-5	4	4-5	3-4	3-4	-	-
0100	-	4	4-5	4	4-5	-	-	-	-	-	4
0110	-	-	-	-	-	-	4	4	4	4	-
0140	-	-	-	4	4	-	-	-	-	-	-
0150	-	4	3-4	4	4	-	-	-	-	-	-
0180	-	-	-	-	4	-	-	-	-	-	-
0190	-	-	-	-	4	-	-	-	-	-	-
0200	4-5	4	4	4	4	4	4	4	4-5	4-5	4

Assessment: Satisfactory but with a decline from high to good status noted at station 0200.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Cave Br	149575	282010	0	MO
0010	Bridge u/s Island Lough	148643	281092	32	MO
0050	br NW Ballinacostello	142520	286854	32	MO
0100	Bridge near Cloonfallagh	138996	289492	32	MO
0110	Br W Derrynaned	138599	289806	32	MO
0140	Ford N. of Canbrack	137380	298950	0	MO
0150	Bridge S. of Ballynamona	136500	290600	0	MO
0180	200 m u/s Glore Bridge	135155	291640	0	MO
0190	80 m u/s Glore Bridge	132085	291720	0	MO
0200	Glore Bridge	135000	291785	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	79	26	0	100	55	0	26	1	14	1	3
0050	72	50	0	100	53	0	15	1	17	1	14
0100	66	57	0	100	48	0	14	1	18	0	19
0110	65	61	0	100	45	0	17	1	17	0	20
0200	47	65	0	100	42	0	19	0	17	0	21

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GWEESTION** **34/G/03**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: M 296 984

Date(s) Surveyed: 7/10/2010

Biological Quality Ratings (Q Values)

Station Nos.	1977	1980	1984	1989	1993	1995	1998	2001	2005	2007	2010
0050	-	4	4	4	4	-	-	-	-	-	-
0080	-	-	-	-	-	3-4	4	4	4	-	-
0100	-	5	4-5	4	3-4	-	-	-	-	4	4
0200	5	5	4	5	4-5	4	4	4	4	4	4-5

Assessment: An improvement to high status was noted at the lower station (0200) on this Moy tributary.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br 3 km u/s Ballymiles Br	133100	294700	0	MO
0080	Br NE of Lismiraun	132897	294677	32	MO
0100	Ballymiles Bridge	132900	296000	32	MO
0200	Scarrownageeragh Bridge	130322	297584	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	28	214	0	100	28	1	24	1	27	0	20
0100	24	222	0	100	27	1	23	1	28	0	20
0200	16	322	1	99	26	1	27	1	27	1	18

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : LEAFFONY

34/L/01

Tributary of : Sea - Killala Bay
OS Catchment No: 112
OS Grid Ref of Confluence: G 310 358
Date(s) Surveyed: 27/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1989	1993	1995	1999	2001	2004	2007	2010
0100	4-5	4-5	4-5	4	4-5	4-5	4	4	4	4
0150	-	4-5	4	4	-	-	-	-	-	-
0180	-	-	-	-	3-4	4	4	4	-	-
0200	4	4	3-4	4	-	-	-	-	-	-
0260	-	-	4	4	3	4	3-4	3-4	4	4
0300	4	4	4	-	-	-	-	-	-	-

Assessment: Satisfactory with no change since 2007.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Culleens Br	135229	329497	24	SO
0150	Bridge at Gortagheen	0	0	0	SO
0180	Br SW Carragh Town	133857	333099	24	SO
0200	Ford N. of Leaffony	0	0	0	SO
0260	Br S Cabraghkeel	131466	335886	24	SO
0300	Br at Cabraghkeel	0	0	0	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	64	10	0	100	29	1	52	0	0	0	18
0180	29	20	0	100	54	0	29	0	7	0	9
0260	4	35	0	100	61	0	16	0	17	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : LENYVEE

34/L/06

Tributary of : 34O01 OWENAHER
OS Catchment No: 110
OS Grid Ref of Confluence: G 424 179
Date(s) Surveyed: 19/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2010
0300	4-5	4-5	4-5	4-5	5	5	4-5	4-5

Assessment: High status was maintained in the Lenyvee in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br ESE Loughannagally	141856	317227	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	151	6	100	0	0	6	51	0	0	0	43

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LITTLE (STRADE)** **34/L/02**

Tributary of : 34S04 STRADE OS Catchment No: 110

OS Grid Ref of Confluence: M 258 957

Date(s) Surveyed: 26/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2005	2007	2010
0300	-	-	4-5	4-5	4-5	4-5	-	4-5
0390	4	-	-	-	-	-	-	-
0400	3	4	-	-	-	-	-	-
0500	4	4-5	4-5	4-5	4-5	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Buck Br	127593	291109	31	MO
0390	U/s Bridge S.W. of Boleyard	127684	292227	0	MO
0400	D/s Bridge S.W. of Boleyard	127525	292292	0	MO
0500	Bridge N. of Knockatemple	127002	294236	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	84	6	0	100	0	2	64	0	22	0	12
0500	44	12	0	100	2	4	56	0	32	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGHANABOLL** **34/L/07**

Tributary of : 34O01 OWENAHER OS Catchment No: 110

OS Grid Ref of Confluence: G 438 168

Date(s) Surveyed: 19/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2010
0100	4-5	5	4	4-5	4-5	5	4-5

Assessment: High status maintained in the Loughanaboll which had not been surveyed since 2004.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Owenaher River	143999	317468	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	104	7	100	0	33	0	56	0	0	0	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LOUGH MUCK STREAM** **34/L/05**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: M 284 995

Date(s) Surveyed: 14/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1999	2002	2005	2007	2011
0400	-	4-5	-	-	-	-	-	-
0600	3-4	4	4	3-4	4	3-4	3-4	3-4

Assessment: The Lough Muck continues to be highly eutrophic with extensive algal growths notable. Agricultural sources are the primary suspected cause of pollution here.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Bridge S of Toomore	0	0	0	MO
0600	Bridge u/s Moy River confl	128681	299809	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	12	10	54	46	20	3	48	0	29	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : LOUGHNAMINOO STREAM

34/L/04

Tributary of : Needham's Lake

OS Catchment No: 110

OS Grid Ref of Confluence: M 260 866

Date(s) Surveyed: 12 & 14/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1980	1984	1986	1989	1990	1991	1993	1995	1998	2001	2005	2007	2011
0100	5	4-5	4	4	-	-	4	3-4	4	4	4-5	-	-
0200	-	1	3	1-2	2-3	2-3	3-4	1	3-4	2	3-4	3-4	3-4
0300	3-4	3	3	2-3	-	-	3-4	-	-	-	-	-	-
0400	-	-	-	3-4	-	-	4	3-4	-	-	-	-	-
0500	-	-	-	-	-	-	-	-	-	-	4	-	4

Assessment: Moderate status was recorded downstream of the Balla wastewater treatment plant. A fish kill occurred on the river at this point in 2010 and quality was better than expected. Good status was recorded at station 0200 upstream of the confluence with the Manulla River (q.v.).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Balla: Br on Castlebar Road	125374	284813	31	MO
0200	Br S of Round Tower	125295	284265	31	MO
0300	NNE of Tully	124560	284060	31	MO
0400	Railway Bridge at Smuttanagh	123876	285095	31	MO
0500	Br SE Smuttanagh	123730	284764	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	35	18	0	100	20	0	12	1	58	1	7
0200	34	26	0	100	33	0	8	1	52	1	5
0400	32	34	0	100	37	0	6	1	49	1	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : MAD

34/M/04

Tributary of : 34M02 MOY

OS Catchment No: 110

OS Grid Ref of Confluence: G 493 170

Date(s) Surveyed: 19/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2010
0100	5	3-4	3	3	3-4	4	3	3

Assessment: Again poor status was recorded in the Mad River a tributary of the upper Moy near Cloonacool. The site surveyed had a low number of invertebrate taxa indicating with no pollution sensitive species among these. The main suspected causes of the problem are forestry activities and sheep overgrazing. Investigative monitoring is required to track down the location of diffuse sources of pollution in the upper catchment.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge u/s Moy River confl	149230	317304	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	72	8	98	2	1	0	97	0	0	0	1

River and Code : **MANULLA** **34/M/01**

Tributary of : 34C01 CASTLEBAR OS Catchment No: 110

OS Grid Ref of Confluence: M 222 941

Date(s) Surveyed: 5 & 12/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1980	1984	1989	1993	1995	1998	2001	2005	2007	2011
0100	5	4-5	4-5	4	4	4-5	4-5	4	4	4
0150	5	4-5	4	4	-	-	-	-	-	-
0200	-	4	5	4-5	4	4-5	4-5	4-5	-	-
0225	-	-	-	-	-	-	-	4	4	4
0300	5	3-4	4-5	3-4	4	4	4	4	3-4	3-4
0400	5	3-4	3-4	4	-	-	-	-	-	-
0500	5	3-4	4	3-4	3	4	4	3-4	3-4	3-4

Assessment: No change was noted in the Manulla. The upper sites surveyed (0100, 0225) remained satisfactory while the lower two (0300, 0400) were slightly polluted or at moderate status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballinafad Bridge	123082	281188	31	MO
0150	Bridge near Bridgemount	121400	282500	31	MO
0200	Bridge at Ballycarra	120120	284117	31	MO
0225	At Cuillare d/s Belcarra WWTP	119994	284630	31	MO
0300	Manulla Bridge	121307	288608	31	MO
0400	Br NE Gneeve	122293	291154	31	MO
0500	Bridge u/s Castlebar River	121981	293298	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	30	65	0	100	44	0	7	1	35	0	12
0200	25	108	0	100	46	0	9	0	34	0	10
0300	21	141	0	100	39	1	10	1	41	0	8
0400	20	161	0	100	36	0	10	1	43	1	8
0500	15	170	0	100	36	1	9	1	44	1	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MEANDER** **34/M/05**

Tributary of : 34M01 MANULLA OS Catchment No: 110

OS Grid Ref of Confluence: M 232 810

Date(s) Surveyed: 5/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1986	1989	1993	1995	1998	2001	2005	2007	2011
0200	-	-	4	-	-	-	-	-	-
0300	-	3	4	4	4	3	3-4	-	-
0400	3-4	3-4	4-5	3	4	4	4-5	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br E.N.E. of Curry	126140	277670	38	MO
0300	Bridge S.W. of Mayo	125655	278967	38	MO
0400	Br N.N.W. of Rathnacreeva	123482	280087	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	36	20	0	100	34	0	24	0	31	0	11
0400	31	27	0	100	45	0	19	0	28	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MOY** **34/M/02**

Tributary of : Sea - Killala Bay OS Catchment No: 110

OS Grid Ref of Confluence: G 254 197

Date(s) Surveyed: 5 to 8/7/2010, 26/7/2010, 30/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1980	1982	1984	1989	1993	1995	1998	2001	2003	2004	2005	2007	2010
0010	-	-	-	-	-	-	-	-	-	-	3	-	3-4	-	3-4	3-4
0050	-	-	-	5	-	5	5	5	4-5	4-5	3	-	4	-	4	4
0100	5	5	5	5	-	5	5	5	4-5	5	4	-	4-5	-	4-5	4
0150	-	-	-	5	-	5	5	5	-	-	-	-	-	-	-	-
0300	5	5	5	5	-	5	5	5	4-5	4-5	4-5	-	4-5	-	4-5	4-5
0350	-	-	-	4	-	4-5	-	-	-	-	-	3/0	-	-	-	-
0400	5	-	5	4	-	4	4-5	3	3	4-5	4-5	3-4	4-5	-	4	4
0420	-	-	-	4-5	-	4	5	4-5	4	4	4-5	-	4	-	-	-
0470	-	-	-	5	-	4	4	4	4	4	4-5	-	4	-	4	4
0500	5	5	4-5	5	-	4-5	5	4	4-5	4-5	4-5	-	4-5	-	4	4
0590	-	-	-	-	-	-	-	-	-	-	4-5	-	-	-	-	-
0600	5	-	5	5	-	5	4-5	4-5	-	-	-	-	-	-	-	-
0610	-	-	-	-	-	3-4	4	3	4	4	4	-	4	-	-	-
0650	-	-	-	4	-	4-5	4	4-5	4-5	4-5	4-5	-	4	-	4	4
0700	5	5	5	5	-	4-5	4	4-5	4-5	4	4-5	-	4-5	-	4	4-5
0750	-	-	-	-	-	-	-	-	5	5	5	-	-	4-5	4-5	4-5
0770	-	-	-	-	-	-	-	-	4	4	4	-	-	4	4*	4
0800	4-5	5	4	3-4	3	3	3	3	3	3	3-4	-	-	4	4	4
0850	-	-	-	-	-	-	4-5	4-5	4-5	4-5	4	-	-	4-5	4	4
0900	-	-	-	-	4	4	4-5	4-5	4	4-5	4-5	-	-	4	-	-
0960	-	-	-	-	4	4	4	-	4	4	-	-	-	-	-	-
1040	-	-	-	-	-	-	-	-	-	-	4	-	-	-	4	-
1050	5	4	4	4	-	4	4	3*	3-4	4	4	-	-	4	-	-
1055	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4	-

Assessment: The uppermost Moy site again appears impacted due possibly to forestry activities – it is in quite a remote area and would be expected to be of much higher quality. Over the remainder of this important river quality was generally good with high status recorded at three sites with Ballylahan Bridge (0700) showing an improvement compared to 2007. The Cloonacool site (0100), however, dropped to good status. This stretch may be subject to the same pressures noted for the Mad River tributary (qv). Floods prevented the surveying of the lowermost site in Ballina Town biologically in 2010 but there is extensive chemical monitoring of this site for general physico-chemical parameters plus a range of priority substances.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Branchfield Bridge	152937	320469	25	SO
0050	Cloonbaniff Br	152304	319444	25	SO
0100	Bridge S.E. of Cloonacool	149279	316791	25	SO
0150	Ford u/s Metal Bridge	147300	314900	25	SO
0300	Annagh Bridge	146661	312324	24	SO
0350	Tullanaglug d/s Tubercurry R	147800	310900	24	SO
0400	Bridge at Banada	146503	310006	24	SO
0420	Ford N. of Ballygallagart	143500	308942	24	SO
0470	Ford near Bellanacurra	140391	304616	24	MO
0500	Cloonacannana Bridge	138932	302397	32	MO
0590	U/s Swinford R confl LHS	134858	301517	32	MO
0600	Br near Cloongullaun (RHS)	134766	301455	32	MO
0610	Br near Cloongullaun (LHS)	134766	301455	32	MO

0650	Ford 2 km u/s Gweestion River	131052	298834	31	MO
0700	Ballylahan Bridge	127589	299311	31	MO
0750	At Cuilbaum	126160	300835	31	MO
0770	U/s Foxford Br (LHS)	126787	304037	24	MO
0800	1 km N of Foxford (RHS)	126978	304787	24	MO
0850	Near Bunnafinglas	126287	310392	24	MO
0900	U/s Corroy River - nr Hollywood Ho	124827	313872	24	MO
0960	0.5 km d/s Corroy River confl	124933	314030	24	MO
1040	0.6km u/s Ardnaree Bridge LHS	124324	318278	24	MO
1050	0.3 km u/s Ardnaree Br (LHS)	124421	318510	24	MO
1055	0.3 km u/s Ardnaree Bridge (RHS)	124495	318535	24	MO
1100	Ardnaree Bridge	124587	318647	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	68	16	75	25	6	2	60	0	26	0	6
0100	55	52	52	48	24	1	51	0	20	0	4
0300	47	132	61	39	27	7	43	0	11	0	13
0400	44	176	46	54	39	5	35	1	10	0	10
0420	41	182	45	55	40	5	35	1	10	0	10
0470	37	438	37	63	40	2	36	1	10	0	10
0500	33	484	35	65	41	2	36	1	10	0	10
0600	30	531	34	66	42	2	36	1	9	0	10
0610	30	531	34	66	42	2	36	1	9	0	10
0650	16	585	31	69	41	2	35	1	11	0	10
0700	10	935	21	79	36	1	32	1	17	0	12
0750	9	974	20	80	35	1	32	1	19	0	12
0770	8	1805	24	76	29	2	31	1	22	4	11
0800	7	1806	24	76	29	2	31	1	22	4	11
0850	4	1879	27	73	28	2	32	1	22	4	10
0900	2	1922	27	73	29	2	32	1	22	4	10
0960	2	1947	27	73	29	2	32	1	22	4	10
1050	1	1976	27	73	30	2	32	1	21	4	10
1100	0	1976	27	73	30	2	32	1	21	4	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **MULLAGHANOE** **34/M/03**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: G 404 048

Date(s) Surveyed: 22 & 23/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1980	1983	1989	1993	1995	1998	2001	2004	2007	2010
0140	-	-	-	3	3	4	4	-	-	-
0180	-	-	4	4	-	-	-	-	-	-
0190	-	-	-	-	3	3-4	3-4	4	-	-
0200	3-4	3-4	3-4	4	-	-	4	-	3	3
0220	-	-	-	-	3	3-4	-	4	3	3-4
0300	4	4-5	3-4	4	3-4	3-4	4	4	-	4

Assessment: Poor status (Q3) was again recorded downstream of Charlestown/Bellahy due in part to wastewater treatment plant discharges but also in part due to agricultural or possible septic tank discharges as the Black (Sligo) tributary was also unsatisfactory and showed signs of organic pollution. Investigative monitoring is required to track the sources and improvements in the wastewater treatment plant may also be required.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0190	0.2 km d/s Charlestown Branch conf	147322	302944	32	SO
0200	Bridge at Cloonlaughil	146108	303662	32	SO
0220	Br SW of Cully Cross Roads	144812	304053	24	SO
0300	Bridge 1 km u/s Moy River	141063	304857	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0140	83	3	56	44	23	0	25	0	0	0	52
0190	58	40	50	50	54	0	16	2	11	0	17
0200	52	5	100	0	0	0	64	0	23	0	12
0220	48	44	45	55	54	0	17	1	11	0	16
0300	39	51	39	61	52	0	20	1	12	0	15

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : OUGHTAGH **34/O/05**

Tributary of : 34M02 MOY OS Catchment No: 110
OS Grid Ref of Confluence: M 275 993
Date(s) Surveyed: 15/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2010
0300	-	4	4	4	3-4	4	-	-
0400	4	4-5	4	4	3-4	4	4	3-4

Assessment: A deterioration was noted to moderate ecological status in the Oughtagh in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br near Carrowgowan House	127562	294712	31	SO
0400	Bridge u/s Moy River confl	127445	299069	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	43	4	0	100	0	7	27	0	66	0	0
0400	11	9	0	100	16	3	11	0	70	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : OWENAHER **34/O/01**

Tributary of : 34M02 MOY OS Catchment No: 110
OS Grid Ref of Confluence: G 463 134
Date(s) Surveyed: 19/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1977	1986	1989	1993	1995	1998	2001	2004	2007	2010
0050	-	5	5	4-5	4-5	4-5	5	4-5	-	4
0100	5	5	5	5	4-5	4-5	4-5	4	4	4

Assessment: Satisfactory. The Owenaher, however, appears to have declined in quality since the 1990s.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Ford E. of Zion Hill	143117	317186	24	SO
0100	Bellanagraugh Bridge	144389	313851	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	105	22	100	0	2	29	35	0	0	0	34
0100	51	40	100	0	16	19	40	0	0	0	25

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENGARVE (SLIGO)** **34/O/03**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: G 435 075

Date(s) Surveyed: 20 & 21/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1977	1980	1984	1989	1993	1995	1998	1999	2001	2004	2007	2010
0010	-	5	4-5	4-5	5	4-5	4-5	-	4-5	4-5	4-5	4-5
0050	-	5	4-5	4-5	4-5	4-5	5	-	4	4	4-5	4-5
0080	-	-	-	5	5	-	-	-	-	-	-	-
0100	-	5	4-5	4	5	4-5	5	-	4	4-5	4-5	4-5
0150	-	-	-	5	4	-	-	-	-	-	-	-
0200	5	5	5	5	5	4-5	-	3-4	5	4-5	4-5	4-5

Assessment: This Moy tributary remained in excellent condition with high ecological status recorded at all sites surveyed in 2010.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Bridge at Derrynabrock	158793	302104	32	MO
0050	Ford N.W. of Srah Upper	154929	303986	32	MO
0080	Fords near Botinny	151732	304555	32	MO
0100	Bridge in Curry	149323	306156	32	SO
0150	Ford S. of Rathmagurry Ho	147217	306895	24	SO
0200	Dawros Br	145310	307417	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	97	7	70	30	1	0	63	0	28	0	9
0050	72	44	47	53	40	0	39	0	12	0	10
0100	58	83	31	69	37	0	37	0	11	0	15
0200	43	121	21	79	40	0	37	1	11	0	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENLOBNAGLAUR** **34/O/04**

Tributary of : 34O03 OWENGARVE (SLIGO) OS Catchment No: 110

OS Grid Ref of Confluence: G 558 033

Date(s) Surveyed: 21/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2010
0100	4	4-5	-	-	-	-	-	-
0200	4-5	4-5	4-5	4	4	4	4-5	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br NE Currinah	157506	298842	32	RN
0200	Br S Calveagh Lr	155565	301288	32	RN

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	88	9	69	31	50	0	24	0	21	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **POLLAGH** **34/P/01**

Tributary of : 34G03 GWEESTION OS Catchment No: 110

OS Grid Ref of Confluence: M 343 930

Date(s) Surveyed: 6/9/2010, 4/10/2010

Biological Quality Ratings (Q Values)

Station Nos.	1977	1981	1986	1988	1989	1993	1995	1998	2001	2005	2007	2010
0100	-	4-5	4-5	-	4	3-4	4-5	3-4	4	4-5	4-5	4-5
0200	-	4-5	4	4-5	4	4-5	4	4	4	4	-	4-5
0260	-	-	-	-	-	-	3	3-4	3-4	3-4	3	3-4
0300	4	4-5	4-5	-	4	3-4	4	4	3-4	4	4	4

Assessment: The upper Pollagh (0100, 0200) achieved high status in 2010. The lower section downstream of Kiltimagh had improved slightly especially at Stn 0260. It is to be hoped that ongoing work on the Kiltimagh WWTP will bring further improvements in water quality in the Pollagh.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Linban Br	132328	285971	32	MO
0200	Br N Gortgarve	133360	289251	32	MO
0260	Br NW of Cloonkedagh	132986	290741	32	MO
0300	Bridge u/s Gweestion River	134208	292687	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	54	91	0	100	26	1	32	1	27	1	12
0200	45	128	0	100	25	1	27	1	27	0	18
0260	43	134	0	100	24	1	27	1	28	0	19
0300	40	145	0	100	22	1	27	1	30	0	19

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SHANVOLAHAN** **34/S/01**

Tributary of : 34D01 DEEL (CROSSMOLINA) OS Catchment No: 110

OS Grid Ref of Confluence: G 067 155

Date(s) Surveyed: 13/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2005	2007	2010
0200	4-5	-	-	-	-	-	-	-
0300	4-5	3-4	3	4	4	3-4	-	4
0400	4-5	4	4	4-5	4-5	3-4	4	3-4

Assessment: The upper site (0300) surveyed was satisfactory achieving good status. The lower site (0400) upstream of its confluence with the River Deel (qv) had deteriorated again. Local cattle access was noted plus significant signs of erosion of the peat soils from upstream. Forestry plantations between Stations 0300 and 0400 may be contributing to the observed water quality problems.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	E. of Shanvolahan	0	0	0	MO
0300	Bridge S.W. of Coolturk	106221	318059	23	MO
0400	Just u/s Deel River confl	106459	315877	23	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	55	12	0	100	1	3	67	0	18	0	11
0400	47	28	0	100	0	5	66	0	16	0	13

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SLIEVECLAUR** **34/S/06**

Tributary of : 34D01 DEEL (CROSSMOLINA) OS Catchment No: 110

OS Grid Ref of Confluence: G 157 203

Date(s) Surveyed: 19/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1999	2001	2002	2005	2007	2010
0200	-	-	-	3-4	-	3	3-4	-	4
0400	3-4	3	3	3	3-4	3-4	3-4	3	3-4

Assessment: An improvement was noted at the lower site (0400) in comparison to 2007 albeit still unsatisfactory. This river had previously been found to deliver a significant loading of diffuse phosphorus to the Deel River and to Lough Conn.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br near Slieveclaur	120625	322524	24	MO
0400	Ballyneety Bridge (Lower)	116453	320740	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	28	4	0	100	54	0	33	0	13	0	0
0400	14	23	0	100	74	0	15	0	10	1	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SONNAGH (MOY)** **34/S/02**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: G 404 046

Date(s) Surveyed: 23/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1981	1985	1989	1994	1995	1999	2001	2005	2007	2010
0009	-	-	3-4	-	-	-	-	-	-	-
0060	-	-	4-5	3-4	3-4	3-4	4	3	3	3
0070	-	-	-	-	-	-	-	4	-	4
0075	5	5	3	3-4	4	4	4-5	-	-	-
0090	-	-	4	-	-	-	-	-	-	-
0100	4-5	5	4	3-4	4-5	4	4-5	4	3	4-5

Assessment: A major improvement was noted at the lower Sonnagh site (0100). This is believed to be related to the completion of the construction of the N5 and the reduction of siltation. No change was noted in the upper reaches with quarry activities still affecting Station 0600 in particular.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0009	Bridge N.W. of Tomboholla	0	0	0	MO
0060	Bridge NE of Stripe	143503	298902	32	MO
0070	Br SE Cartron	144342	300600	31	MO
0075	Bridge E of Cartron (main road)	144836	301016	32	MO
0090	Bridge at Lislaughna	143343	303100	0	MO
0100	Gorteen Br	141484	304012	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	88	4	54	46	31	0	56	8	5	0	0
0075	60	22	39	61	41	0	47	4	7	0	0
0100	42	36	24	76	41	0	46	3	5	0	5

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SPADDAGH** **34/S/03**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: M 323 999

Date(s) Surveyed: 4/8/2010

Biological Quality Ratings (Q Values)

Station Nos.	1981	1985	1989	1993	1995	1999	2001	2004	2005	2007	2010
0050	4-5	5	4-5	4-5	4-5	4	4	-	4-5	4-5	4
0100	5	4-5	4-5	4-5	4	3	4	4	-	-	4
0200	5	4-5	4-5	4-5	4-5	3-4*	4	-	4	4	4

Assessment: A drop in quality of the upper Spaddagh (0050) was seen from high to good status. The lower reaches remained unpolluted at good status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br N. of Castlesheenaghan	139460	296734	32	MO
0100	Bridge N.E. of Esker	136348	298660	32	MO
0200	Bridge u/s Moy River confl	132382	299369	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	77	5	0	100	22	0	61	0	9	0	8
0100	52	11	0	100	32	0	37	4	5	0	21
0200	25	15	0	100	24	0	28	3	25	0	19

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **STRADE** **34/S/04**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: M 267 995

Date(s) Surveyed: 14/7/2011

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1995	1998	2001	2004	2007	2011
0400	3-4	4	-	-	-	-	-	-
0500	4	-	-	-	-	-	-	-
0600	-	4-5	-	-	-	-	-	-
0800	4-5	4-5	4-5	4-5	4-5	4	4	4

Assessment: Satisfactory.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Bridge E. of Ballyvary*	0	0	31	MO
0500	Bridge S.W. of Redhill House*	0	0	31	MO
0600	Br NW Stradehill House	0	0	31	MO
0800	Br at Knockafall	126154	298216	31	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0800	15	23	0	100	8	3	35	0	48	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **SWINFORD** **34/S/05**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: G 347 014

Date(s) Surveyed: 7/10/2010

Biological Quality Ratings (Q Values)

Station Nos.	1977	1979	1981	1983	1985	1988	1989	1990	1991	1993	1995	1999	2001	2005	2007	2010
0100	-	4-5	4-5	4-5	4	4-5	4	-	-	4	3-4	-	-	-	-	-
0200	-	2	3	1-2	1-2	1	1	1	1	2-3	3	-	2-3	4	4	4
0300	3-4	3-4	3-4	3-4	3	3	3	-	-	3	3-4	3-4	3-4	3-4	4	4

Assessment: Remaining satisfactory downstream of Swinford.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E. of Swinford	138410	299905	32	MO
0200	Swinford: Br on Foxford Road	136632	300450	32	MO
0300	Bridge 100 m u/s Moy River	134893	301450	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	63	14	5	95	61	0	32	0	0	0	6
0200	53	18	4	96	64	0	25	3	0	0	8
0300	31	19	4	96	60	0	27	3	3	0	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TRIMOGE** **34/T/01**

Tributary of : 34G03 GWEESTION OS Catchment No: 110

OS Grid Ref of Confluence: M 330 964

Date(s) Surveyed: 4 & 5/10/2010

Biological Quality Ratings (Q Values)

Station Nos.	1977	1981	1986	1989	1993	1995	1998	2001	2005	2007	2010
0100	-	4	4-5	4	4	-	-	-	-	-	-
0200	-	4	4	4	3-4	4	3	3-4	3-4	3-4	3-4
0250	-	4	4-5	4	4	-	-	-	-	-	-
0300	-	4	4-5	4-5	4-5	4	4-5	4-5	4-5	4	4
0350	-	5	4-5	4	4-5	-	-	-	-	-	-
0400	5	4-5	4-5	-	4-5	-	4	4	3-4	-	-
0500	5	4-5	4-5	5	4-5	4	-	4	4	4	4-5

Assessment: The upper and mid reaches of the Trimoge were unchanged compared to the 2007 survey but an improvement was seen at Stn 0500 upstream of its confluence with the Gweestion River (qv).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge in Kilkelly	144190	291554	32	MO
0200	Ford just W. of Kilkelly	143760	291423	32	MO
0250	Br N.W. of Woodfield House	141500	291200	0	MO
0300	Bridge S.W. of Rinn Lough	139189	290950	32	MO
0350	Ford S. of Castleroyan	137300	292000	0	MO
0400	Kinaff Bridge	135657	293678	32	MO
0500	Tullyroe Br	133005	296373	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	75	42	3	97	31	0	31	2	18	6	12
0200	74	47	4	96	28	0	34	2	19	5	11
0300	64	75	3	97	28	0	35	1	18	3	15
0400	46	82	2	98	26	0	38	1	17	3	15
0500	25	90	2	98	27	0	37	1	18	3	15

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TUBBERCURRY** **34/T/02**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: G 270 085

Date(s) Surveyed: 22/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	71	73	77	79	80	82	86	89	90	93	95	98	01	03	04	07	08	09	10
0005	-	-	-	-	4	4	4-5	4-5	-	4-5	-	-	-	-	-	-	-	-	-
0050	-	-	-	-	1	1-2	2-3	2	1-2	2	2	2-3	2	-	1-2	1-2	2	1-2	1-2
0100	1/0	1	1	1	2	3	3	-	-	2-3	-	-	-	-	-	-	-	-	-
0150	-	-	-	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-
0200	-	-	-	3	3	3	3-4	3	-	3	3	3	3	3	2-3	3	-	-	3

Assessment: The upper Tubbercurry remains seriously polluted due in part at least to sewage from Tubbercurry that bypasses the wastewater treatment plant (see also Tubbercurry Stream). The river recovers somewhat at Stn 0200 just upstream of its confluence with the main River Moy (qv).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0005	Br N. of Carrowntubber	152157	313820	25	SO
0050	Br 1 km W. of Tubbercurry	151078	311707	25	SO
0100	Br N. of Rue Cross Roads	150280	311600	24	SO
0150	Br N of Tullanaglug	148618	311525	25	SO
0200	Br just u/s Moy River	147608	311425	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	72	16	0	100	65	0	13	8	13	0	0
0200	50	22	0	100	73	0	11	6	9	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **TUBBERCURRY STREAM** **34/T/03**

Tributary of : 34T02 TUBBERCURRY OS Catchment No: 110

OS Grid Ref of Confluence: G 514 120

Date(s) Surveyed: 22/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	2004	2007	2008	2009	2010
0300	2	-	-	-	-
0400	1-2	1-2	2	2	2
0500	1-2	-	-	-	-

Assessment: Remaining seriously polluted due to poorly treated sewage discharges from Tubbercurry Town.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	N17 Bridge in Tubbercurry	152136	311935	25	SO
0400	At old railway bridge	151965	312030	25	SO
0500	0.1 km d/s old Railway Br	151850	312065	25	SO

River and Code : **YELLOW (FOXFORD)** **34/Y/01**

Tributary of : 34M02 MOY OS Catchment No: 110

OS Grid Ref of Confluence: G 270 085

Date(s) Surveyed: 26/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1989	1993	1995	1998	2001	2004	2007	2010
0100	5	5	5	5	5	5	5	5	5	5
0200	5	5	5	5	-	-	-	-	-	-
0400	-	-	5	5	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: No change – remaining at high status in excellent condition.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford W. of Corlee	132280	308607	24	MO
0200	Bridge S. of Church Village	129895	305897	24	MO
0400	Bridge u/s Moy River confl	128236	306728	24	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	102	20	100	0	0	2	90	0	4	0	3
0200	19	35	100	0	1	2	80	0	15	0	2
0400	10	47	100	0	2	2	73	0	19	2	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **YELLOW (KNOCK)** **34/Y/02**

Tributary of : OS Catchment No: 110

OS Grid Ref of Confluence: M 338 861

Date(s) Surveyed: 5/10/2010

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1989	1993	1995	1998	2002	2005	2007	2010
0250	-	-	3-4	3-4	-	-	4	-	3-4	-
0255	-	-	3	3-4	2	2-3	2-3	3-4	-	3-4
0275	-	-	3	4	3	4	4	4-5	-	4
0290	-	-	3-4	4	3-4	4	-	-	-	-
0300	5	4	-	-	-	-	-	-	-	-
0400	-	-	4	4-5	4	4	4	4	4	4

Assessment: Unsatisfactory in the upper section (0255) and recovering to good status by Faughil (Stn 0275) and at Stn 0400 just upstream of Cuiltybo Lake.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0250	Br SW Derragh (u/s outfall)	140302	284555	0	MO
0255	0.2km d/s Br SW Derragh (d/s outfall)	140302	284555	32	MO
0275	Bridge N.E. of Faughil	137241	286818	32	MO
0290	Bridge S.E. of Kiltimagh	134906	288149	32	MO
0300	Second Bridge u/s Cuiltybo L	134649	286731	32	MO
0400	Bridge just u/s Cuiltybo L	133791	285976	32	MO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0255	81	22	0	100	31	0	13	0	37	1	17
0275	67	25	0	100	27	0	19	0	37	1	16
0290	59	50	0	100	20	0	32	1	35	1	10
0300	58	72	0	100	25	0	33	1	32	1	7
0400	58	81	0	100	25	0	32	1	30	1	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

HYDROMETRIC AREA 35

Ballymote Stream	35B04
Ballysodare	35B05
Bonet	35B06
Brackary	35B10
Bradoge	35B07
Buncrowey	35B09
Bunnanaddan Stream	35B08
Cashel Stream (Bonet)	35C03
Clooneen (Sligo)	35C01
Diffreen	35D01
Doonbeakin	35D09
Doonflin	35D10
Douglas (Sligo)	35D02
Drowes	35D03
Drumcliff	35D04
Drumfin	35D11
Duff	35D05
Dunmoran	35D16
Dunneill	35D06
Easky	35E01
Finned	35F01
Garavogue	35G01
Glenaniff	35G02
Gowlan (Sligo)	35G03
Grange (Sligo)	35G04
Gurteen Stream	35G05
Killanummery	35K03
Killoran Lough Stream	35K02
Liskeagh	35L02
Lugdoon Stream	35L01
Owenbeg (Coolaney)	35O01
Owenmore (Manorhamilton)	35O08
Owenmore (Sligo)	35O06
Shanvaus	35S01
Tullinwillin Stream	35T03
Tullynascreen *	35T06
Unshin	35U01
Willsborough Stream	35W01

* TULLYNASCREEN Previously reported as part of the Killanummery (35K03)

River and Code : **BALLYMOTE STREAM** **35/B/04**

Tributary of : 35O06 OWENMORE (SLIGO) OS Catchment No: 116

OS Grid Ref of Confluence: G 657 132

Date(s) Surveyed: 18/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1979	1980	1984	1986	1990	1994	1997	2000	2003	2006	2009
0040	-	-	-	-	2-3	4	3-4	3	4	3	-
0100	1	2	1	3-4	3	4	4	3	4	4	4

Assessment: Satisfactory ecological conditions were maintained in the Ballymote Stream in August 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Ballymote: Br S.E. of Church	166606	315530	25	SO
0100	Br NW Woodfield	166163	314621	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	65	11	0	100	95	0	0	0	5	0	0
0100	60	15	0	100	87	0	2	4	8	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BALLYSODARE** **35/B/05**

Tributary of : Sea - Ballysodare Bay OS Catchment No: 116

OS Grid Ref of Confluence: G 667 296

Date(s) Surveyed: 16/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1979	1982	1986	1990	1994	1997	2000	2003	2006	2009
0100	5	5	5	5	5	5	4	4-5	4	4-5	4-5	4-5	4-5

Assessment: The Ballysodare is formed by the confluence of two large rivers, the Unshin and the Owenmore, and is an important salmon river. High ecological condition was maintained in 2009, characterised by high diversity of macroinvertebrate fauna and presence of pollution sensitive taxa.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballysodare Bridge	166847	329027	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	12	640	14	86	54	6	12	0	17	3	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BONET** **35/B/06**

Tributary of : Lough Gill OS Catchment No: 117

OS Grid Ref of Confluence: G 782 335

Date(s) Surveyed: 7/9/2009, 9 & 16/9/2009, 10/8/2009, 11/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1980	1984	1990	1994	1997	2000	2003	2006	2009
0010	-	-	-	-	-	5	5	4-5	5	5	5	5
0050	-	-	-	4	4-5	4	4-5	4-5	4	4-5	4	4
0100	5	5	4-5	4-5	4-5	4-5	5	4-5	4-5	4-5	5	4-5
0200	5	5	4-5	4	4	5	4-5	4	4	4	4	4
0400	5	5	4-5	4-5	4	4-5	4-5	4	4-5	4	4	4
0500	5	5	5	5	3	4-5	4-5	4	4	4-5	4-5	4
0600	5	5	4-5	4	4	4	4	4	4-5	4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Bonet in 2009, although a slight decline in quality was noted at New Bridge (0100). The river flows from Glenade Lake to Lough Gill.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Bridge u/s Glenade Lough	182231	347144	16	LM
0050	Bridge 1.5 km d/s Glenade L	184026	344768	16	LM
0100	New Bridge	186973	341274	16	LM
0200	Bridge d/s Owenmore River	187132	338978	16	LM
0400	Bridge at Gortgarrigan	184846	333896	26	LM
0500	Bellanamore Bridge	181855	330229	26	LM
0600	1.8 km d/s Dromahaire Bridge	179801	331722	25	LM

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	94	5	0	100	0	0	91	0	2	0	8
0050	61	20	0	100	15	2	55	0	7	4	18
0100	45	47	5	95	18	2	56	0	11	2	11
0200	38	106	13	87	26	6	37	0	17	1	12
0400	30	165	18	82	25	6	36	0	20	1	12
0500	22	219	17	83	24	7	30	0	29	1	10
0600	9	265	14	86	22	8	26	0	34	1	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BUNCROWEY** **35/B/09**

Tributary of : 35E01 EASKY OS Catchment No: 114

OS Grid Ref of Confluence: G 402 317

Date(s) Surveyed: 1/9/2009, 2/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0100	3	3	3	3	4	3-4	3-4
0500	5	-	5	4-5	-	3-4	3-4

Assessment: The macroinvertebrate fauna continues to indicate unsatisfactory ecological conditions at all stations on the Buncrowey in 2009, with no improvement noted from the last survey. This upland river is at risk from acidification and forestry impacts. Conductivity at the upland site (0100) was 28.2 us/cm during sampling, indicating that conditions are still quite acidic. No acid-sensitive ephemeropteran species (i.e. Baetis) were found in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br near Old Shooting Lodge	144088	327180	24	SO
0500	Br u/s confluence with Easky R.	140534	331031	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	190	6	100	0	0	0	78	0	0	0	22
0500	76	19	48	52	9	0	68	0	0	0	24

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **BUNNANADDAN STREAM** **35/B/08**

Tributary of : Cloonacleigha Lough OS Catchment No: 116

OS Grid Ref of Confluence: G 607 145

Date(s) Surveyed: 18/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1979	1981	1986	1990	1994	1997	2000	2003	2006	2009
0200	4-5	4	4	4	4	3-4	4	3	3	3

Assessment: The dominance of pollution tolerant species continues to indicate unsatisfactory conditions on the Bunnanaddan in 2009. The Bunnanaddan Stream is spring-fed with naturally low dissolved oxygen levels (60.3% in 2009).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Ford N.W. of Bunnanaddan	160045	312072	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	60	8	0	100	89	0	1	0	6	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **CLOONEEN (SLIGO)** **35/C/01**

Tributary of : 35O06 OWENMORE (SLIGO) OS Catchment No: 116

OS Grid Ref of Confluence: G 652 136

Date(s) Surveyed: 18/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0500	4	4	4	4	3-4	4	4
0600	5	3	4	3-4	4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Clooneen in 2009, although increased siltation and algal growth were noted at both sites.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br SW Ardminnan (nr school)	163690	310048	25	SO
0600	Br SE Aughris	164862	313260	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	60	36	0	100	60	2	26	0	4	0	8
0600	57	48	0	100	64	1	22	0	6	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOONBEAKIN** **35/D/09**

Tributary of : 35D06 DUNNEILL OS Catchment No: 115

OS Grid Ref of Confluence: G 438 342

Date(s) Surveyed: 2/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0200	5	4	4-5	4-5	4	4	-
0400	4	-	4	4-5	4	4	3-4

Assessment: An unwelcome decline to unsatisfactory ecological condition was noted in the Doonbeakin in 2009. A paucity of pollution sensitive macroinvertebrates characterised the site.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge S. of Doonbeakin	145053	330768	24	SO
0400	Ford u/s Dunneill River	143811	334000	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	105	2	39	61	45	0	38	0	0	0	18
0400	23	8	9	91	74	0	19	0	0	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOONFLIN** **35/D/10**

Tributary of : Sea - S. of Aughris Head OS Catchment No: u5

OS Grid Ref of Confluence: G 506 360

Date(s) Surveyed: 3/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0400	4-5	4	4-5	4-5	4-5	4	-
0600	2-3	4	4	4	4	4	4

Assessment: Ecological conditions remain satisfactory at the site sampled on the Doonflin (0600) in 2009, although cattle access across the ford remains a problem, with excessive poaching and silt present.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Bridge near Doonflin Lower	150785	332460	25	SO
0600	S.E. of Aughris	150511	335842	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	56	6	66	34	54	0	40	0	6	0	0
0600	7	11	35	65	69	0	21	0	10	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DOUGLAS (SLIGO)** **35/D/02**

Tributary of : 35U01 UNSHIN OS Catchment No: 116

OS Grid Ref of Confluence: G 732 208

Date(s) Surveyed: 17/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
1400	3-4	4-5	4-5	4-5	4	3-4	3-4

Assessment: Ecological condition remains unsatisfactory in the Douglas River in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1400	Riverstown: North Bridge	174313	320493	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1400	47	31	0	100	17	11	8	0	63	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRUMCLIFF** **35/D/04**

Tributary of : Sea - Drumcliff Bay OS Catchment No: 119

OS Grid Ref of Confluence: G 674 423

Date(s) Surveyed: 9/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0250	5	4-5	4	4-5	3-4	3	3
0400	4	4	4	4-5	4	4	4

Assessment: The Drumcliff River flows from Glencar lake, and as a result is lake-influenced. Ecological conditions remain unsatisfactory at the upper station (0250), approximately 2.5km downstream of the lake outflow. The lower station (0400) continues to achieve satisfactory status.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0250	Collinsford Bridge	171062	342018	16	SO
0400	Ford 500 m u/s Drumcliff Br	167912	342188	16	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0250	13	50	0	100	16	2	37	0	25	2	18
0400	8	61	0	100	26	1	32	0	23	2	16

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DRUMFIN** **35/D/11**

Tributary of : 35U01 UNSHIN OS Catchment No: 116

OS Grid Ref of Confluence: G 714 208

Date(s) Surveyed: 20/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0500	4	4	4	4-5	4	3-4	-
0800	4	4	4	4	4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions on this River Unshin tributary in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Bridge N. of Kingsbrook	171776	317829	25	SO
0800	Closkeybeg Bridge	171426	320488	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	52	20	0	100	65	0	19	0	9	0	7
0800	45	23	0	100	67	2	17	0	7	0	6

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUNMORAN** **35/D/16**

Tributary of : Sea - Sligo Bay OS Catchment No: u5

OS Grid Ref of Confluence: G 522 355

Date(s) Surveyed: 3/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
1000	4	4-5	4	4-5	4-5	4-5	4-5
1400	4-5	4	4-5	4-5	4	4	4

Assessment: There was no change in the ecological condition of the Dunmoran, which retains satisfactory status at both sites sampled (1000, 1400) in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1000	Br WNW Longford Demesne	155096	330598	25	SO
1400	Ardnaglass Bridge	153100	334286	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1000	30	7	63	37	20	0	54	0	13	0	14
1400	10	29	34	66	45	7	28	0	17	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **DUNNEILL** **35/D/06**

Tributary of : Sea - Sligo Bay OS Catchment No: 115

OS Grid Ref of Confluence: G 440 352

Date(s) Surveyed: 2/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	2000	2003	2006	2009
0050	-	-	-	5	5	4-5	4-5	4-5	4-5
0100	5	5	5	5	4-5	5	5	4-5	4-5
0200	4-5	4-5	5	4-5	4	5	4-5	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Dunneill in 2009. High status was maintained at the upper two sites (0050 and 0100).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Br E Water Treatment Works	144492	329228	24	SO
0100	Br NE Dunneill	143741	332461	24	SO
0200	Donaghintraine Bridge	143850	334381	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	133	10	89	11	6	0	83	0	0	0	12
0100	68	12	73	27	14	0	71	0	5	0	10
0200	16	24	40	60	46	0	43	0	4	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **EASKY** **35/E/01**

Tributary of : Sea - W. of Sligo Bay OS Catchment No: 114

OS Grid Ref of Confluence: G 379 386

Date(s) Surveyed: 1/9/2009, 2/8/2009, 2/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	2000	2003	2006	2009
0010	-	4-5	4	4	4-5	4-5	3-4	4	4
0020	-	5	5	5	4-5	4-5	4	4	4
0100	5	5	4-5	5	4-5	4-5	4	4-5	4
0200	4-5	5	-	4-5	4-5	4-5	4-5	4-5	4-5

Assessment: Although satisfactory ecological conditions persist on the Easky in 2009, a slight decline from high to good status was noted at Camcuill Br (0100). The Easky River is an important salmon angling river and Lough Easky is a major water supply source. The Easky catchment is a particularly sensitive one and great care is needed with agricultural land clearance, fertiliser and slurry spreading as with clear felling and tree planting activities in order to protect this important aquatic resource as well as the catchment's wider biodiversity.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Trasgarve d/s Lough Easky	144514	325070	24	SO
0020	Bridge u/s Gowlan River	139322	326605	24	SO
0100	Bridge at Camcuill	139976	333226	24	SO
0200	Easky Bridge	137557	337782	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	172	12	100	0	0	0	87	0	0	10	3
0020	93	34	81	19	1	0	75	0	0	3	20
0100	50	89	51	49	7	1	72	0	1	1	17
0200	10	99	46	54	13	2	66	0	2	1	16

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **FINNED** **35/F/01**

Tributary of : Sea - W. of Sligo Bay OS Catchment No: 113

OS Grid Ref of Confluence: G 350 386

Date(s) Surveyed: 1/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1986	1990	1994	1997	2000	2003	2006	2009
0100	5	5	5	4-5	4-5	4-5	4-5	4-5	4-5
0200	4-5	4-5	-	4	4-5	3	4	4	-
0300	4-5	4-5	4	4	4	4	4	4	4

Assessment: There was no change in either of the two sites sampled in 2009 with the Finned retaining satisfactory ecological condition in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bridge E.N.E. of Rathmacurkey	136984	330873	24	SO
0200	Bridge S. of Ballycummin	137035	333995	24	SO
0300	Finned Bridge	134962	337941	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	72	7	0	100	14	0	86	0	0	0	0
0200	45	12	0	100	30	1	66	0	3	0	0
0300	17	16	0	100	43	1	48	0	7	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GARAVOGUE** **35/G/01**

Tributary of : Sea - Sligo Bay OS Catchment No: 117

OS Grid Ref of Confluence: G 692 362

Date(s) Surveyed: 11/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1980	1986	1990	1994	1997	2000	2003	2006	2009
0200	5	4	4	4	4	4	4	4	4	4-5	4-5	4

Assessment: Although ecological conditions remained satisfactory at The Mall in Sligo town in 2009, a slight deterioration from high to good status was noted. Water levels were high due to extensive rainfall all summer, and high levels of silt were observed. Domestic rubbish was a feature of the site, both in-stream and on the banks.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Sligo: The Mall	169442	335968	16	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	8	369	19	80	24	8	24	1	27	5	12

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GOWLAN (SLIGO)** **35/G/03**

Tributary of : 35E01 EASKY OS Catchment No: 114

OS Grid Ref of Confluence: G 390 272

Date(s) Surveyed: 2/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0100	4-5	4-5	4-5	5	4-5	4	4

Assessment: Ecological condition remains satisfactory in 2009. Although extensive bank erosion was noted, there has been some bank stabilization (riprap) and fencing on the left bank. The Gowlan is an Easky tributary draining a catchment which has a substantial amount of limestone bedrock. It has much harder water than the upper Easky and Buncrowey rivers and has a naturally more diverse fauna.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ford u/s Easky River confl	138828	326554	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	101	18	46	54	1	4	90	0	0	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GRANGE (SLIGO)** **35/G/04**

Tributary of : Sea - S. of Connor's Island OS Catchment No: x5

OS Grid Ref of Confluence: G 648 495

Date(s) Surveyed: 9/9/2009, 12/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1980	1982	1986	1990	1994	1997	2000	2003	2006	2009
0080	-	-	-	5	4-5	5	5	4-5	4-5	4-5
0200	3-4	4	4	4	4	4-5	4	4	4	4

Assessment: There was no change in ecological condition at either site on the Grange in 2009, with both sites achieving satisfactory quality. The site downstream of Grange village (0200) is of slightly lower quality than the upper site (0080). The ford here appears well used by tractor traffic, and locals report a fish kill occurred here in 2008.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Lukes Bridge	169769	347329	16	SO
0200	Ford N Cloontyprocklis	165069	349516	16	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	172	3	0	100	0	0	65	0	0	0	35
0200	8	33	0	100	31	3	35	1	15	0	16

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **GURTEEN STREAM** **35/G/05**

Tributary of : 35O06 OWENMORE (SLIGO) OS Catchment No: 116

OS Grid Ref of Confluence: G 677 055

Date(s) Surveyed: 19/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1979	1980	1982	1984	1986	1990	1994	1997	2000	2003	2006	2009
0200	3	3	3	2-3	2-3	2	2-3	3-4	3	2-3	3	3-4

Assessment: Although a slight welcome improvement was noted in ecological condition in the Gurteen in 2009, the stream remains in unsatisfactory condition. Signs of nutrient enrichment such as dominance of tolerant macroinvertebrate species, paucity of pollution sensitive macroinvertebrates, excessive siltation and low DO (81.5%) were noted during sampling.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Bridge N.E. of Gurteen	166628	305329	32	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	67	2	0	100	75	0	0	7	18	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **KILLORAN LOUGH STREAM** **35/K/02**

Tributary of : 35O06 OWENMORE (SLIGO) OS Catchment No: 116

OS Grid Ref of Confluence: G 636 225

Date(s) Surveyed: 19/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0500	-	-	-	4	4	4	-
1000	4	4-5	4	4	3-4	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions on the Killoran Lough Stream in 2009.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br N Rathgran	160670	322652	25	SO
1000	Bridge u/s Owenmore River	163620	322589	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	80	2	0	100	99	0	0	0	1	0	0
1000	51	10	0	100	76	4	0	0	15	0	4

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LISKEAGH** **35/L/02**

Tributary of : 35O06 OWENMORE (SLIGO) OS Catchment No: 116

OS Grid Ref of Confluence: G 677 073

Date(s) Surveyed: 19/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1994	1997	2000	2003	2006	2009
1100	3	4-5	4-5	4-5	4-5	4-5

Assessment: High ecological quality has been a feature of the Liskeagh for 12 years, and no change in this status was recorded in 2009. Cattle access is evident and fencing is recommended in order to preserve the high quality in this stream.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1100	Br at Clooneagh	169260	305819	32	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1100	69	10	48	52	4	24	1	0	64	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **LUGDOON STREAM** **35/L/01**

Tributary of : Sea - Sligo Bay OS Catchment No: u5

OS Grid Ref of Confluence: G 462 341

Date(s) Surveyed: 3/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009
0400	4-5	4	4-5	4-5	4	3	3-4

Assessment: Although a slight welcome increase in ecological condition was noted in the Lugdoon in 2009, overall condition remains unsatisfactory. Restriction of livestock access and the creation of a vegetative buffer along the banks could help alleviate the bank erosion and heavy siltation of the substrata.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0400	Bridge E. of Fort Villa	146191	334004	24	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0400	10	11	48	52	56	0	37	0	6	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENBEG (COOLANEY)** **35/O/01**

Tributary of : 35O06 OWENMORE (SLIGO) OS Catchment No: 116

OS Grid Ref of Confluence: G 656 251

Date(s) Surveyed: 19/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1981	1986	1990	1994	1997	2000	2003	2006	2009
0030	-	-	4	4-5	4	4-5	4-5	4	4
0070	-	-	-	5	4-5	5	4-5	4	4
0200	4	5	4	4	4	4	4	4	-
0400	-	-	-	4-5	4-5	4-5	4-5	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Owenbeg in 2009. High water levels were a feature of all sites during the sampling period.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0030	NE of Carha at Carrownabanny	154367	324372	25	SO
0070	Br N Knockadoo	157005	323189	25	SO
0200	Coolaney Bridge	160722	325231	25	SO
0400	Bridge u/s Owenmore River	165291	325549	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0030	117	24	100	0	0	36	57	0	0	0	7
0070	84	41	85	15	5	28	48	0	7	0	11
0200	58	70	64	36	29	23	31	0	10	0	8
0400	43	87	63	37	35	20	26	0	9	0	10

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **OWENMORE (SLIGO)** **35/O/06**

Tributary of : 35B05 BALLYSODARE OS Catchment No: 116

OS Grid Ref of Confluence: G 687 270

Date(s) Surveyed: 13/8/2009, 18/8/2009, 19/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1979	1980	1984	1990	1994	1997	2000	2003	2006	2009
0020	-	-	-	-	-	-	-	-	-	4-5	4	4	4
0050	-	-	-	-	4	4-5	3-4	4-5	4-5	4	4-5	4-5	4
0100	-	-	-	-	5	4-5	4	4	4	4	4-5	4	-
0200	-	-	5	5	4	4	4	4	3-4	3-4	4	4	4
0250	-	-	-	-	-	-	3-4	4	3-4	3	4	3	3
0400	5	5	4-5	-	4	4	4-5	4-5	4	4	4	3-4	3-4
0500	-	-	-	-	4	4	4	4	4	4	4	3-4	3-4
0610	-	-	-	-	-	-	-	4-5	4	4-5	4-5	4	4
0700	-	-	-	-	5	4-5	5	-	-	4-5	4-5	4-5	4
0900	4-5	5	4-5	-	4	4	4	5	3-4	4	4-5	4	4

Assessment: The upper section of the Owenmore (0020, 0050, 0200) was of satisfactory ecological quality in 2009 although a slight deterioration was noted at station 0050. The middle section, above and below Templehouse Lake (0250, 0400, 0500) continues to exhibit eutrophication, with all three sites failing to reach satisfactory quality. Excessive siltation, bank erosion and cattle access was a feature downstream of Ballymote stream (0250). Huge numbers of zebra mussel were noted at Templehouse Br (0500). The macroinvertebrate fauna continues to indicate satisfactory ecological conditions in the lower sections, upstream and downstream of Collooney (0610, 0700, 0900), despite a slight decline in quality upstream of Collooney Br (0700).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0020	Br at Kilstraghlan or Ragwood	165347	304431	32	SO
0050	Bridge S.W. of Moydough	167041	305699	32	SO
0100	Br 2 km E.S.E. of Kilshalvy	167756	307063	32	SO
0200	Br S.S.W. of Emlaghfad	166612	312348	25	SO
0250	1 km d/s Ballymote Stream	165400	313592	25	SO
0400	Carrowroagh Br (u/s Templehouse L)	162111	315460	25	SO
0500	Templehouse Br (d/s)	162524	318528	25	SO
0610	Br N Cloonacurra	164372	322707	25	SO
0700	1.2 km u/s Collooney Bridge	166797	325768	25	SO
0900	300 m u/s Unshin River confl	168469	326673	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0020	79	9	30	70	27	1	30	0	40	0	2
0050	65	46	25	75	37	6	16	1	36	0	4
0100	62	63	18	82	46	4	17	1	27	0	4
0200	58	106	12	88	44	3	14	0	33	0	6
0250	58	147	8	92	54	2	12	1	26	0	5
0400	57	205	6	94	58	2	14	0	20	0	5
0500	57	274	5	95	59	2	14	0	17	1	7
0610	49	312	4	96	61	2	13	0	17	1	6
0700	40	406	17	83	56	6	15	0	15	1	7
0900	25	411	17	83	56	6	15	0	15	1	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : UNSHIN 35/U/01

Tributary of : 35B05 BALLYSODARE OS Catchment No: 116

OS Grid Ref of Confluence: G 687 270

Date(s) Surveyed: 13 & 20/8/2009, 17/9/2009

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1980	1984	1990	1994	1997	2000	2001	2003	2006	2009
0100	-	-	-	4-5	4-5	4-5	-	3-4	4	-	3-4	3-4	3-4
0200	-	-	-	5	4	4	4	4-5	4	4-5	-	4	4
0400	-	-	-	4	4-5	4	4	4-5	4	-	4	4	4
0500	-	5	4-5	5	4-5	4-5	4-5	4-5	4-5	-	4-5	4-5	4-5
0600	4-5	5	4	4	4	4	4	4-5	4-5	-	4-5	4-5	4-5

Assessment: The upper Unshin (0100), just downstream of Lough Arrow, continues to be of unsatisfactory quality with a lack of pollution-sensitive macroinvertebrates and an abundance of zebra mussels. Algal blooms in Lough Arrow have caused problems in previous years. The remaining downstream sites (0200, 0400, 0500, 0600) to the confluence with the Owenmore (Sligo) are of satisfactory ecological quality, with no real change in status in these sites in almost 40 years of EPA sampling.

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Bellarush Bridge	176694	315793	25	SO
0200	Riverstown Bridge	173955	320174	25	SO
0400	Lisconny Bridge	169792	322912	25	SO
0500	Ballygrania Bridge	169500	325904	25	SO
0600	Bridge u/s Ballysodare River	168616	326911	25	SO

Site Altitude and Upstream Catchment Characteristics (where available):

Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	58	66	8	92	36	5	6	0	17	21	15
0200	48	78	7	93	41	4	5	0	17	18	14
0400	30	168	3	97	48	4	7	0	24	8	9
0500	25	202	2	98	51	4	6	0	24	7	8
0600	21	221	6	94	51	5	6	0	22	7	8

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code : **WILLSBOROUGH STREAM** **35/W/01**

Tributary of : Sea - Sligo Bay OS Catchment No: 118

OS Grid Ref of Confluence: G 689 373

Date(s) Surveyed: 12/8/2009

Biological Quality Ratings (Q Values)

Station Nos.	1982	1990	1994	1997	2000	2003	2006	2009
0060	-	4-5	-	4	4-5	4-5	4-5	4
0150	-	-	4	-	-	4-5	4-5	4
0300	5	4	3-4	3-4	4-5	3-4	4	4

Assessment: Good ecological conditions persist at all stations sampled on the Willsborough stream in 2009. However, a decline from high to good status was noted at both 0060 and 0150. Heavy silt deposition and cattle access were noted at the bridge south of Glackbaun (0060).

Station No.	Stations Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0060	Bridge S. of Glackbaun	174417	339454	16	SO
0150	Br ESE Shannon Oughter	171212	338308	0	SO
0300	Br on Sligo-Bundoran Road	169233	337360	16	SO

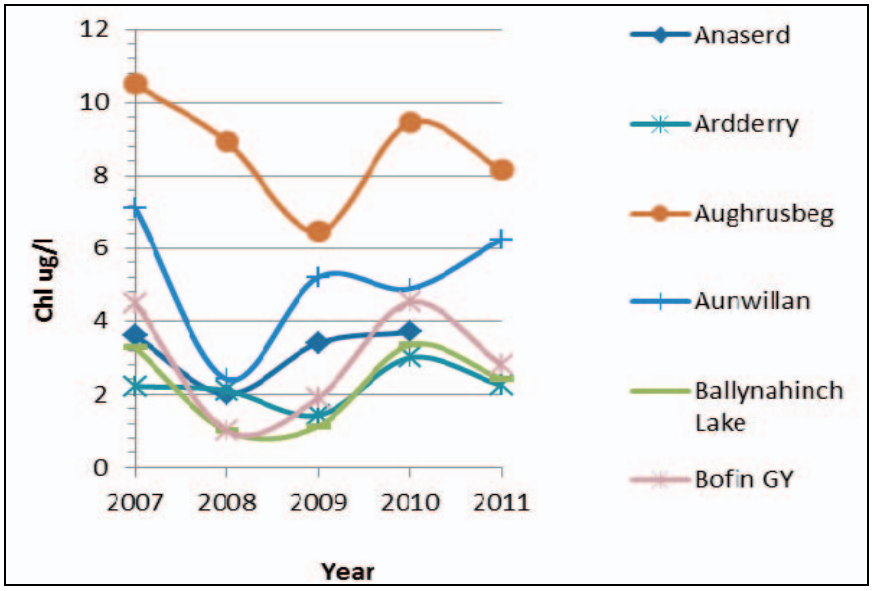
Site Altitude and Upstream Catchment Characteristics (where available):

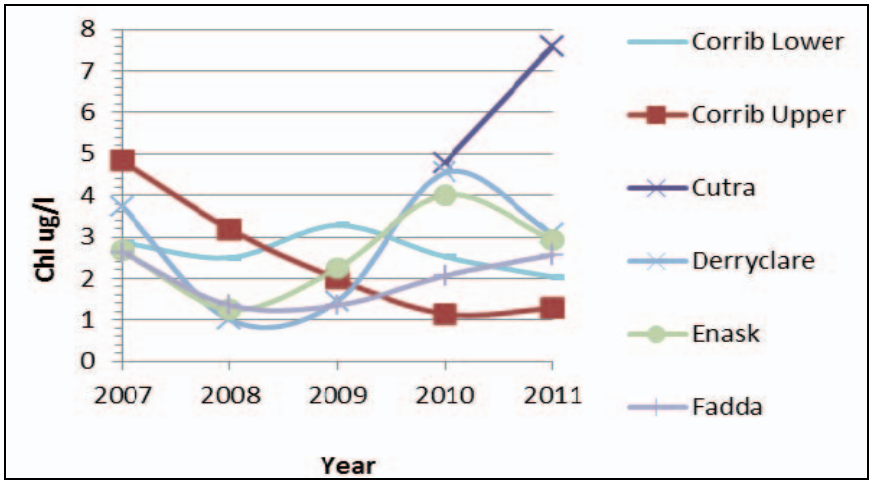
Site No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0060	120	5	0	100	0	0	66	0	6	0	28
0300	8	17	0	100	45	3	23	1	11	0	18

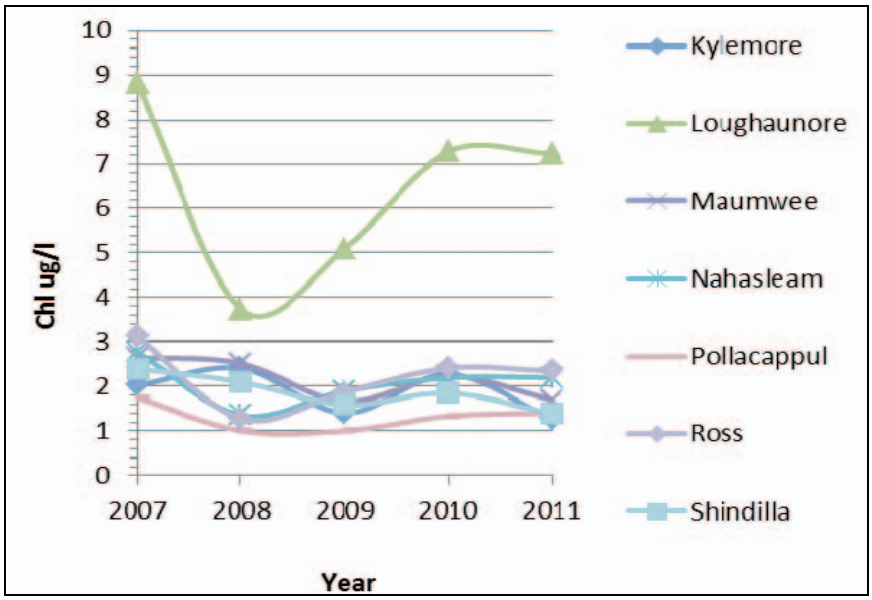
Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

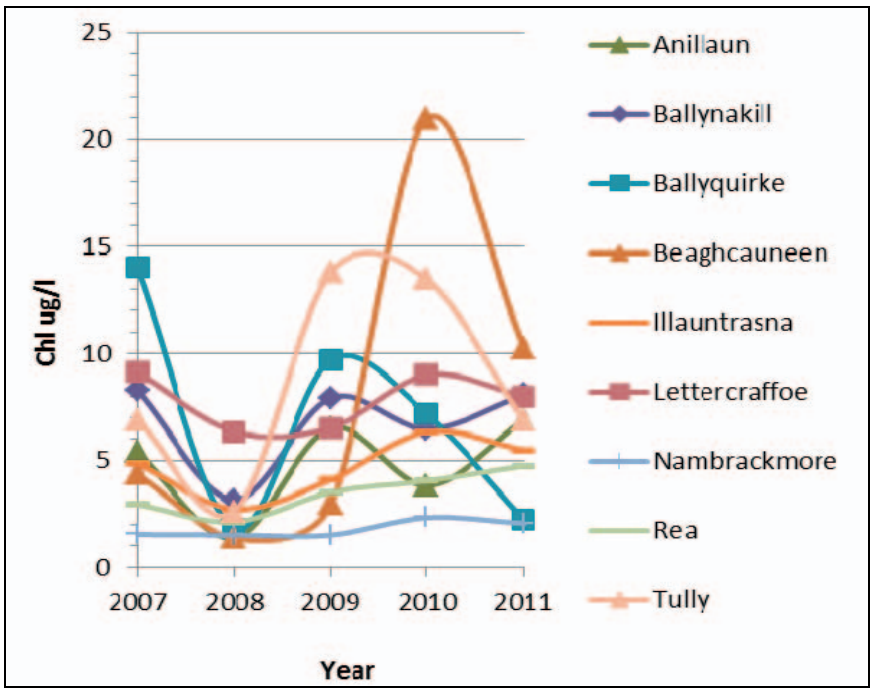
APPENDIX 8. TRENDS IN CHLOROPHYLL, NITRATE & TOTAL PHOSHORUS IN LAKES

Appendix 8a. Trends in annual average chlorophyll in WFD monitored lakes in County Galway for the period 2007-2011.

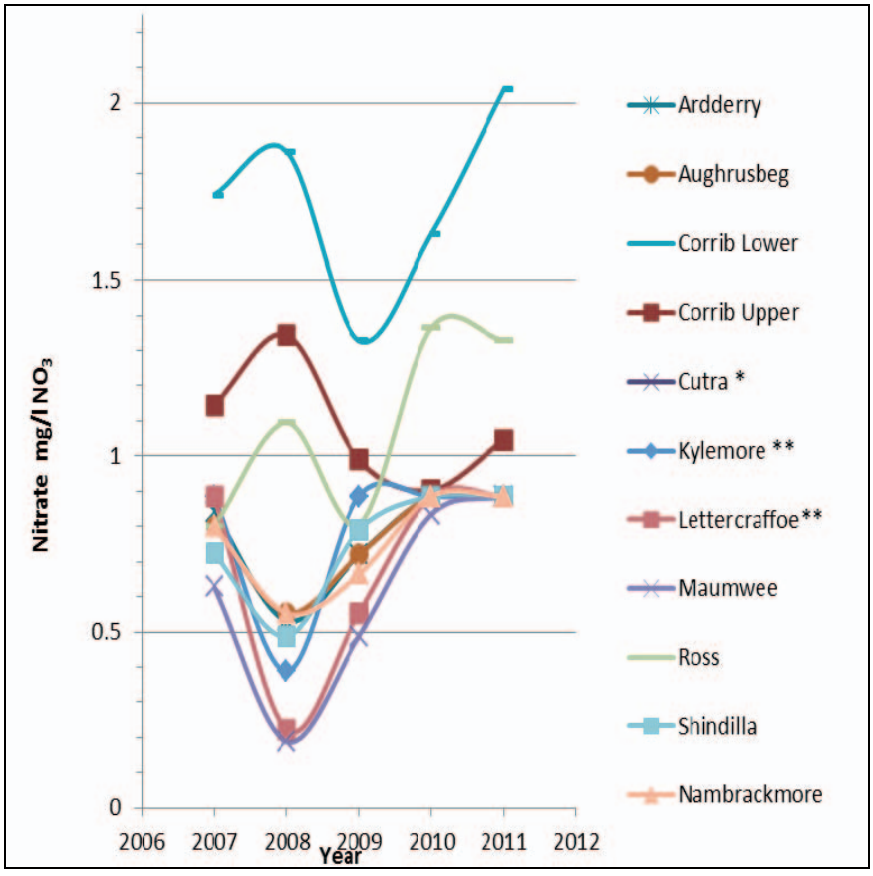


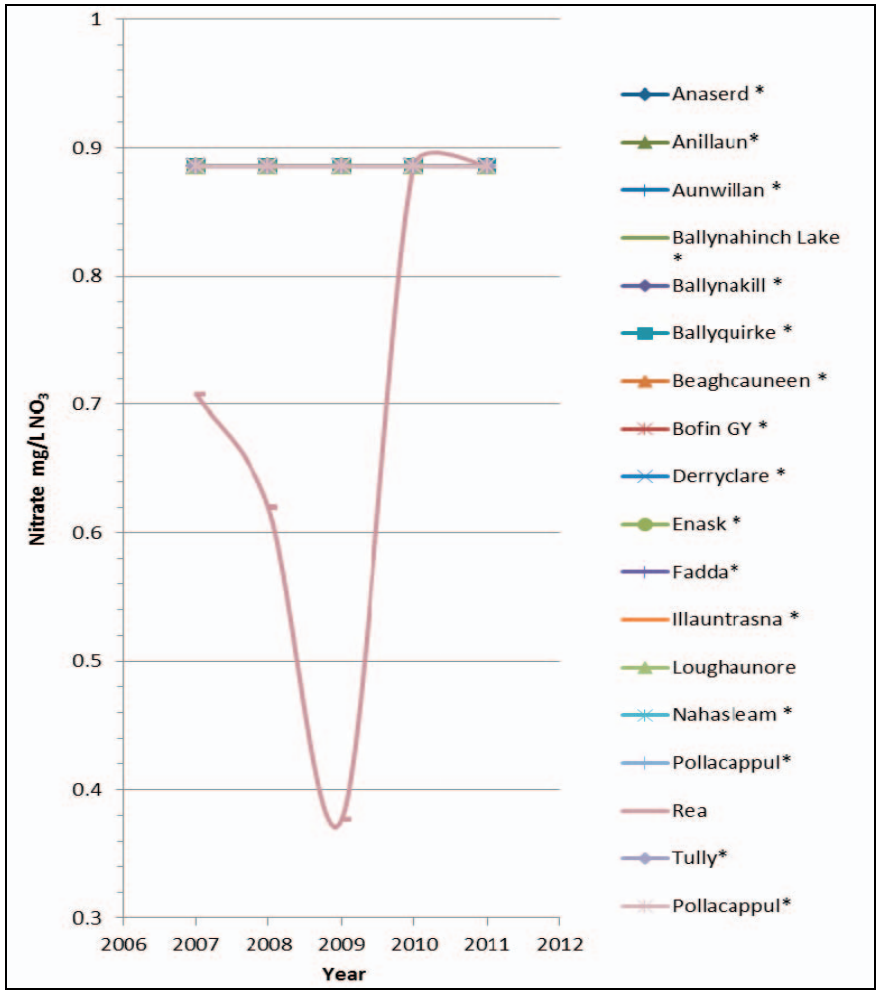




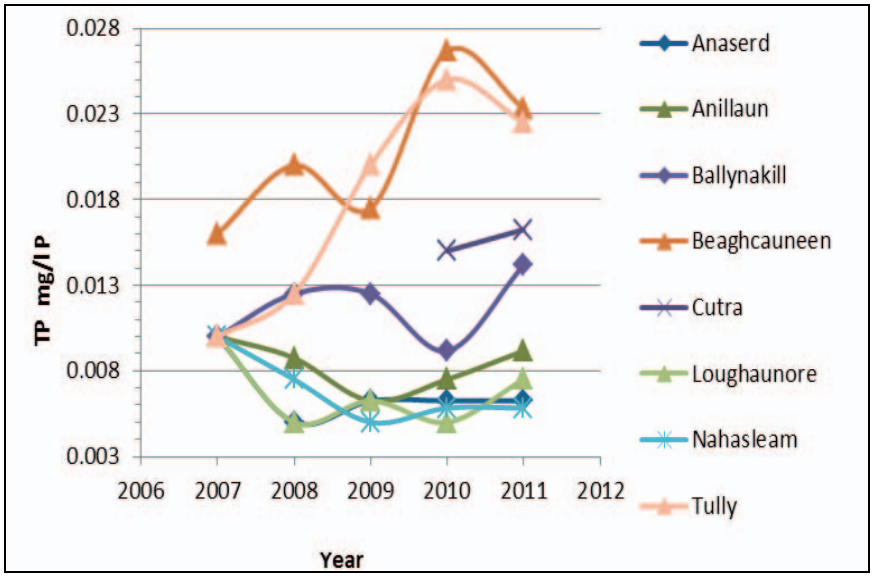


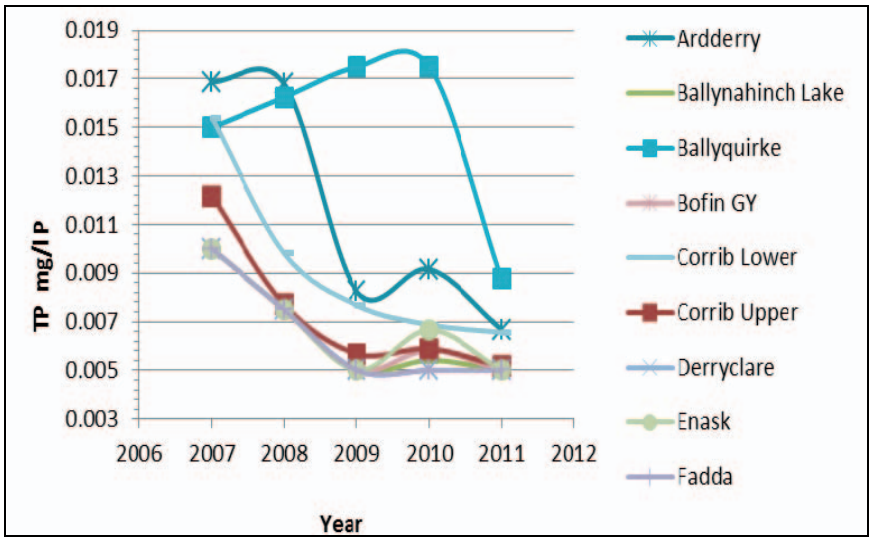
Appendix 8b. Trends in annual average nitrate (using total oxidised nitrogen as a surrogate) in WFD monitored lakes in County Galway 2007-2011.* level of detection <1.78 mg/L (Data plotted at half the LOD <0.89 mg/L) ** level of detection different in 2008 resulting in a perceived decline.

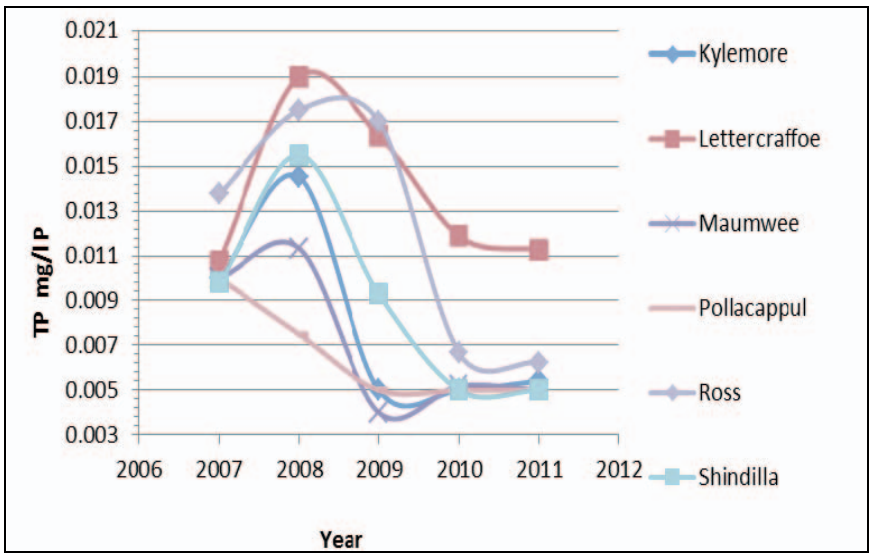


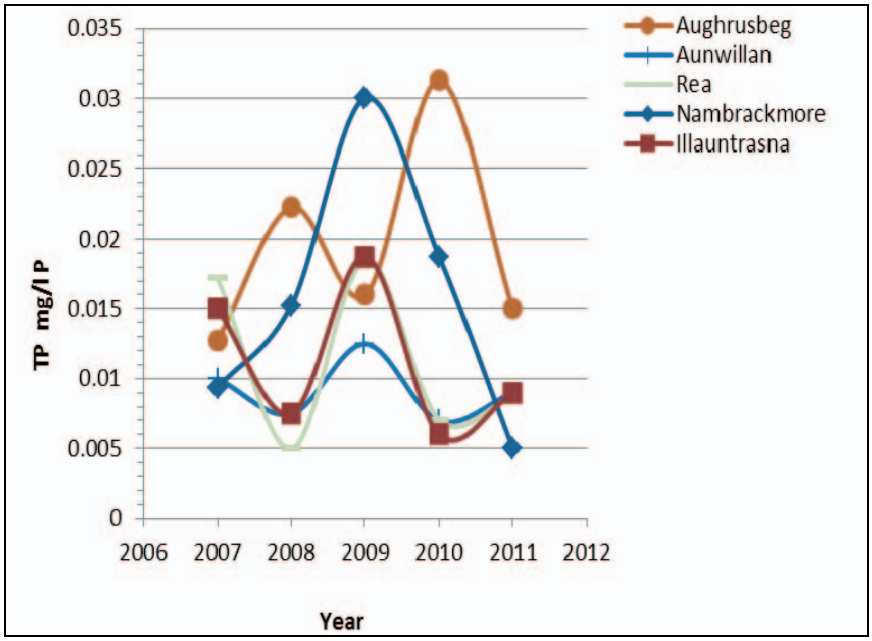

1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
Nitrate mg/L NO3
2006
2007
2008
2009
2010
2011
2012
Year
Anaserd *
Anillaun*
Aunwillan *
Ballynahinch Lake *
Ballynakill *
Ballyquirke *
Beaghcauneen *
Bofin GY *
Derryclare *
Enask *
Fadda*
Illauntrasna *
Loughaunore
Nahasleam *
Pollacappul*
Rea
Tully*
Pollacappul*

Appendix 8c. Trends in annual average Total Phosphorus in WFD monitored lakes in County Galway for the period 2007-2011.

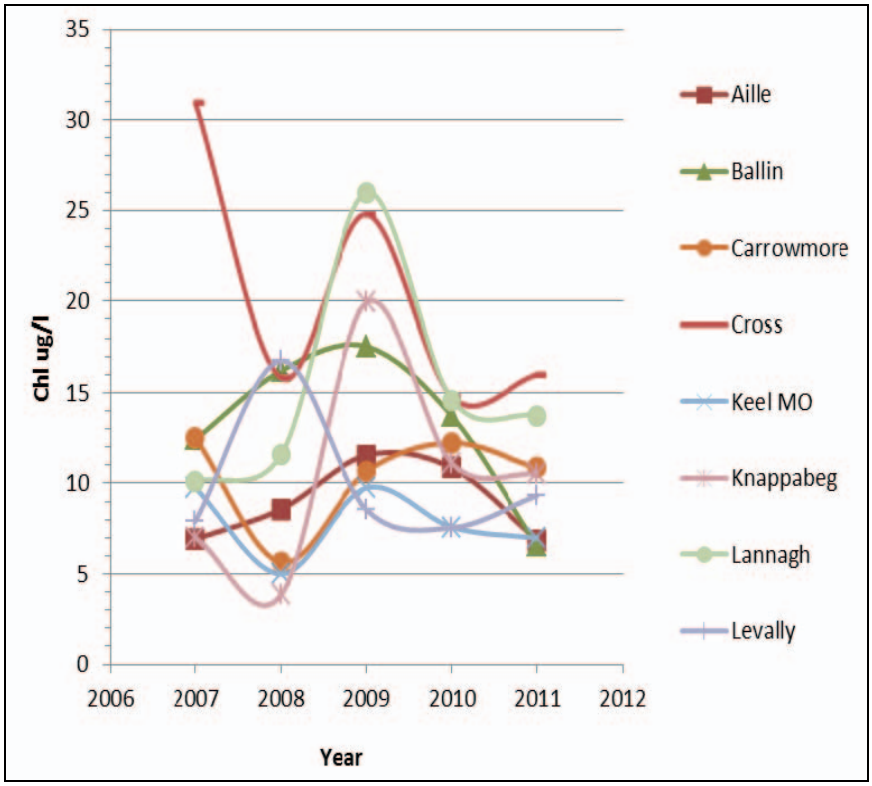


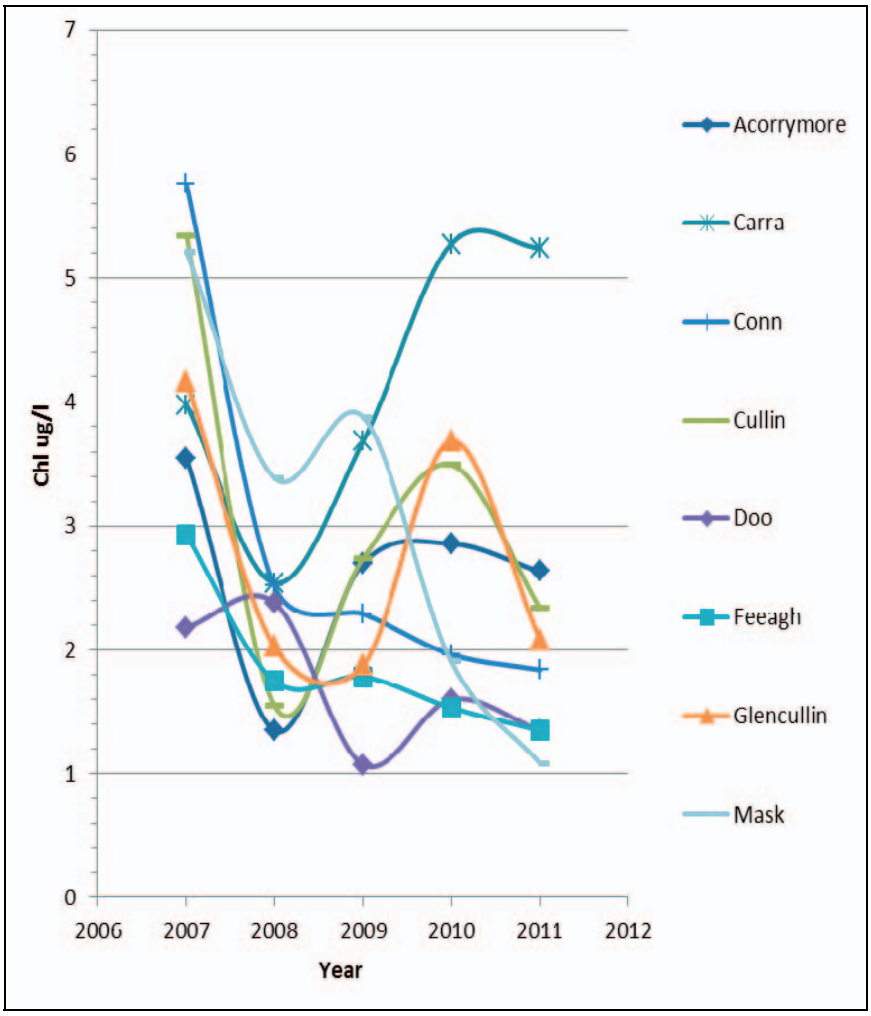


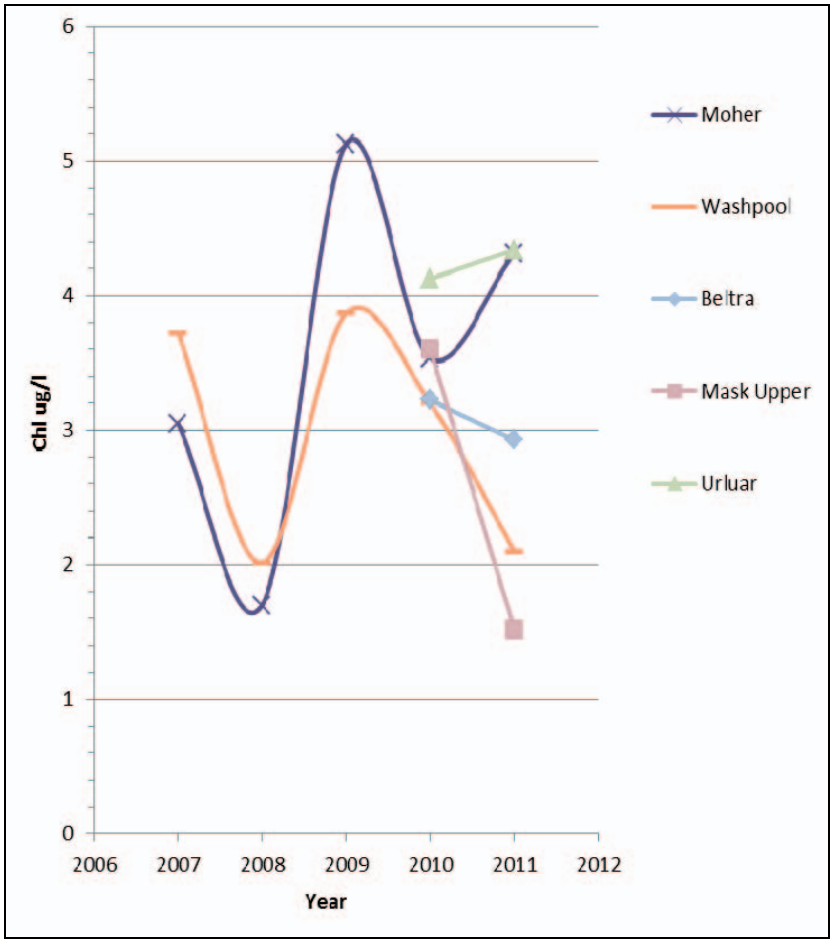




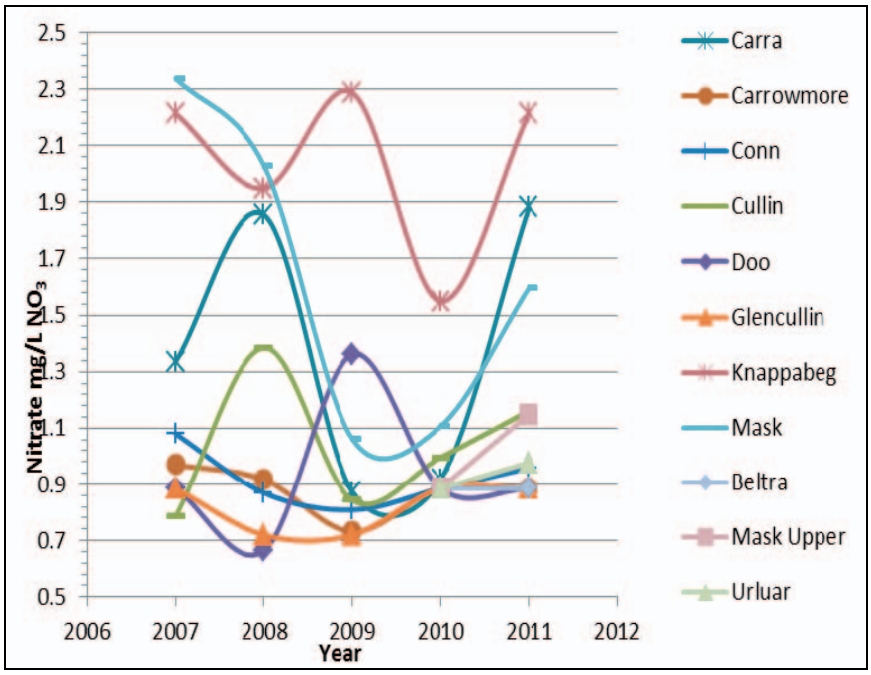
Appendix 8d. Trends in annual average chlorophyll in WFD monitored lakes in County Mayo for the period 2007-2011.

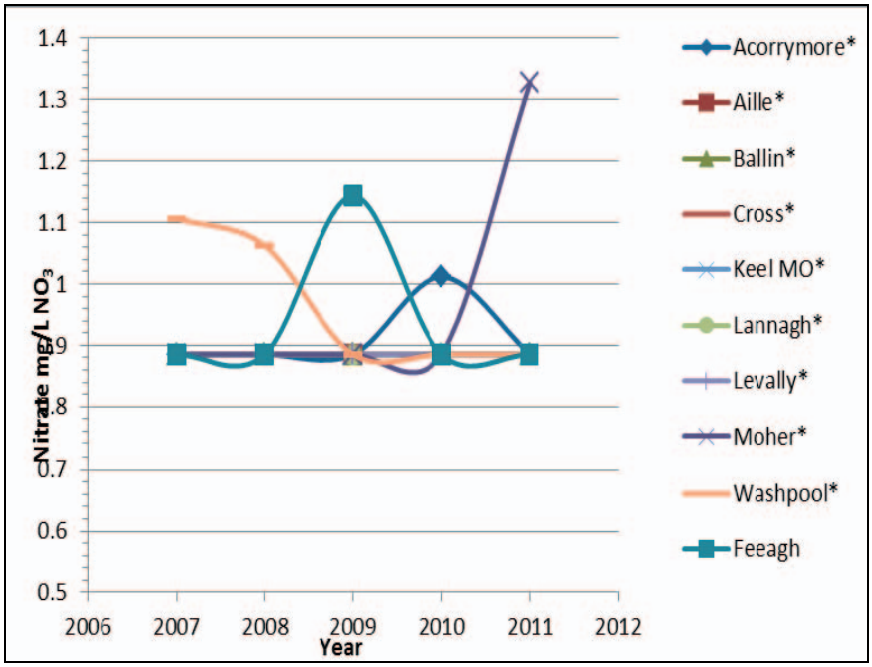



7
6
5
4
3
2
1
0
Chl ug/l
2006
2007
2008
2009
2010
2011
2012
Year
Acorrymore
Carra
Conn
Cullin
Doo
Feeagh
Glencullin
Mask


6
5
4
3
2
1
0
Chl ug/l
2006
2007
2008
2009
2010
2011
2012
Year
Moher
Washpool
Beltra
Mask Upper
Urluar

Appendix 8e. Trends in annual average nitrate (using total oxidised nitrogen as a surrogate) in WFD monitored lakes in County Mayo 2007-2011* level of detection <1.78 mg/L (Data plotted at half the LOD <0.89 mg/L).





Appendix 8f. Trends in annual average Total Phosphorus in WFD monitored lakes in County Mayo for the period 2007-2011.