Welsh Government

M4 Corridor around Newport

Environmental Statement Supplement
Volume 3: Appendix S16.1

Supplementary Baseline Water Environment Data for March 2016 ES Appendix 16.2 (Annexes G and H)

M4CaN-DJV-EWE-ZG_GEN-AX-EN-0002

At Issue | September 2016

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Annex G: Surface Water Quality Dataset for the Gwent Levels

Location		WTA 1 - Pwll Bargoed Reen							WTA 2 - Tyn-Brwyn Reen							WTA 4A/4B							WTA 5 - Morfa Gronw Reen										
Parameter	**Units**	**1.1**						**1.2**	**2.1**	**2.2**						**5.2 [old]**						**WTA Discharge Maerdy**	**7.1**			**7.2**	**7.3**					**7.4**	
		Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**	**Q1**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q2**	**Q1**	**Q2**	**Q3**	**Q1**	**Q1**	**Q2**	**Q4**	**Q5**	**Q6**	**Q1**	**Q2**
General Parameters																																	
pH	pH Units		8.35	8.31	7.98	8.18	8.19				7.67	7.52	7.48	8.09	7.15		7.44	7.39	6.99	7.56	7.27	7.3		7.02	7.17			6.77	7.12	7.61	6.99		7.24
Electrical Conductivity	uS/cm						500.6								549.6						391.2										623.2		
Alkalinity	mg CaCO3/l		215	220	157	205	215				185	230	155	205	180		130	160	100	135	135	171		155	210			155	140	179	305		165
Total Hardness (as CaCO3)	mg/l																					186											
Total Suspended Solids	mg/l	<LOD	<LOD	<LOD	9.5	4.5	17.5	<LOD	69.5	2.5	<LOD	<LOD	31.5	11	2.5	<LOD	<LOD	2.5	26.5	<LOD	4.5	8.5	2.5	19	<LOD	9	12	6	17	<LOD	748	4	11.5
Biological Oxygen Demand	mg/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	2.12	<LOD	<LOD	<LOD	3.07	<LOD	<LOD	2.28	<LOD	<LOD	2.28	<LOD	2.68	<LOD	2.47	<LOD	2.68	23.5	2.4	3.69
Dissolved Oxygen	mg/l	10.5	9.64	9.91	10.2	10.4	9.32	11.7	8.39	13.6	8.61	10.3	9.7	11.9	13.1	7.23	6.44	5.71	5.62	4.64	7.18	3.9	11.7	11.5	3.62	9.87	3.74	2.43	4.89	3.34	0.46	2.27	1.22
Dissolved Oxygen (saturation)	%						94.5								5.46						57.6										17.5		
Calcium (dissolved, filtered)	mg/l	59.6	67.1	60.5	51.5	1.58	66.2	61.2	62.2	57.3	63.2	70.6	53.4	66.3	62.2	53	38.2	36.4	26.6	33.6	34.3	52.5	37.3	42	47	45	46.1	42	32.1	40.6	65	41.7	44.3
Calcium (total, unfiltered)	mg/l			76.1	53							91.3	55.5	72.8				45.4	28.2	36.2		56.7			59				35.9	41.5			46.6
Chloride	mg/l	30.2	37.9	32.1	40.8	31.3	30	29.3	84.2	33.9	42.6	50.1	49.2	50.9	54.3	127	15.4	17.4	11.6	16.8	16.1	3	17.5	26.2	44.6	61.8	38.4	37.7	16.6	19.8	34.7	58.3	89.2
Cyanide	mg/l																																
Ammoniacal Nitrogen (as N)	mg/l	0.221	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.379	<LOD	<LOD	0.204	<LOD	0.732	<LOD	<LOD	0.393	<LOD	<LOD	0.385	0.218	<LOD	<LOD	0.237	0.567	1.27	0.366	0.668	5.06	2.34	0.235
Total Oxidised Nitrogen (as N)	mg/l	8.8	7.58	8.86	8.65	7.31	9.21	0.391	6.91	1.84	3.9	7.59	5.9	4.91	7.66	0.977	0.319	0.127	0.771	0.223	<LOD	<LOD	<LOD	0.138	<LOD	<LOD	<LOD	<LOD	0.165	0.509	0.182	<LOD	<LOD	<LOD
Nitrate (as NO3)	mg/l	38.9	33.4	39.2	38.2	32.3	40.6	1.66	30.5	8	16.4	33.3	26	21.5	33.3	4.24	1.28	0.489	3.33	0.859	<LOD	<LOD	<LOD	0.475	<LOD	<LOD	<LOD	<LOD	0.574	2.21	0.648	<LOD	<LOD	<LOD
Nitrite (as NO2)	mg/l	0.05	0.069	<LOD	<LOD	0.071	0.099	0.05	0.055	0.112	0.612	0.254	<LOD	0.198	0.395	0.06	0.097	0.053	0.06	0.094	<LOD	<LOD	<LOD	0.1	<LOD	<LOD	<LOD	<LOD	0.115	0.063	0.117	0.06	<LOD	<LOD
Sulphate	mg/l	18.7	22.6	21.9	16.8	20.7	20.8	17	37.6	22.8	27.8	19.1	19.3	22.7	22	21.8	62.9	68	4	38.5	70.7	6.7	5.4	53.3	30.1	13.8	37.7	52	<LOD	<LOD	<LOD	42.7	73.8
Total Organic Carbon (dissolved)	mg/l		4.9	<LOD	<LOD	<LOD	<LOD				9.05	<LOD	6.13		3.3		6.56	4.26	12.8	7.49	4.41	5.79		15.8	13.4			19.2	17.8	25.5	24.3		9.42
Orthophosphate (as P)	mg/l	0.0733		0.055	0.043	0.036	0.226	0.0424	0.223	0.102		0.03	0.084	<LOD	<LOD	0.156		0.085	0.154	0.125	0.429		0.126		0.413	0.932	0.669		0.404	0.596	6.4	1.1	
Phosphorus (dissolved, filtered)	ug/l			73.7	52.7		55.1					57.8	61.5					164	210						561				608				
Phosphorus (total, unfiltered)	ug/l		96.9	94.6	59.5	86.4					271	44.6	217	123			222	180	328	290		145		751	555			637	628	968			526
Metals (dissolved, filtered)**																																	
Arsenic	ug/l	0.297		<LOD	<LOD	0.856	0.595	0.253		1.32		1.31	1.5	1.66	2	0.961		0.492	1.61	1.39	1.05		1.71		1.08	4.2	2.99		3.14	2.76	2.34	3.04	
Boron	ug/l																																
Cadmium	ug/l	<LOD	<LOD	<LOD	<LOD	0.1	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Chromium	ug/l	1.86	1.74	0.508	5.89	1.58	<LOD	1.49	1.87	1.12	1.66	8.88	5.68	3.53	<LOD	1.44	1.11	0.446	3.15	2.47	<LOD	1.5	1.65	1.69	0.503	1.57	1.9	1.63	3.23	2.17	<LOD	1.33	1.76
Copper	ug/l	1.16	0.952	<LOD	1.86	1.26	<LOD	1	4.17	0.877	1.82	<LOD	2.47	1.44	<LOD	0.913	0.935	<LOD	2.65	1.35	<LOD	1.44	1.4	2.08	<LOD	0.909	2.74	3.37	4.83	5.57	<LOD	<LOD	0.967
Lead	ug/l	0.436	0.036	0.337	0.132	1.09	<LOD	0.303	0.14	0.226	0.054	0.127	0.129	0.964	<LOD	0.226	0.935	0.448	0.626	0.458	<LOD	<LOD	0.185	0.133	0.117	0.446	1.03	0.291	3.71	1.08	<LOD	0.306	0.13
Mercury	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	0.0256		<LOD	0.011	<LOD	<LOD	
Nickel	ug/l	0.883	0.905	1.09	0.847	0.796	<LOD	0.965	1.76	1.75	1.21	1.52	1.55	1.32	<LOD	1	1.07	1.39	3.08	1.63	0.729	1.74	2.59	1.66	4.74	2.71	2.29	2.9	3.33	3.11	1.29	2.03	1.68
Selenium	ug/l	<LOD		<LOD	<LOD	0.81	<LOD	<LOD		0.752		<LOD	0.864	<LOD	<LOD	0.616		<LOD	<LOD	<LOD	<LOD		0.723		<LOD	0.757	0.902		<LOD	<LOD	<LOD	1.14	
Zinc	ug/l	3.01	1.55	1.96	3.31	5.2	1.49	2.32	4.39	1.52	0.936	1.39	2.17	5.81	1.3	3.14	2.18	1.12	14.7	6.18	<LOD	9.01	8.48	4.57	2.76	1.87	3.36	9.6	14.8	4.94	2.21	2.28	2.7
Magnesium	mg/l			21.2	15.6							18	14.1					15.7	7.21			13.4			16.5				9.7				
Iron	mg/l				<LOD	0.098							0.076	0.428					0.363	0.622									1.3	1.01			
Metals (total, unfiltered)																																	
Arsenic	ug/l			<LOD	<LOD	<LOD						<LOD	2.36	<LOD				<LOD	2.53	<LOD					<LOD				<LOD	2.56			
Cadmium	ug/l		<LOD	<LOD	<LOD	<LOD					<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD			<LOD	<LOD	<LOD			<LOD
Chromium	ug/l		3.05	<LOD	5.64	<LOD					<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD		<LOD		3.55	4.32			3.88	4.34	<LOD			<LOD
Copper	ug/l		<LOD	<LOD	<LOD	<LOD					<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD			<LOD	5.28	8.31			<LOD
Lead	ug/l		<LOD	0.618	2.15	1.49					<LOD	<LOD	3.44	0.995			<LOD	<LOD	3.05	0.612		<LOD		6.34	0.673			0.794	3.12	1.15			0.696
Mercury	ug/l			<LOD	<LOD	<LOD						<LOD	<LOD	<LOD				<LOD	<LOD	<LOD					<LOD				<LOD	<LOD			
Nickel	ug/l		1.58	3.82	<LOD	1.07					1.98	1.35	2.07	1.84			1.52	2.37	3.71	2.07		2.29		2.18	2.81			3.69	3.64	3.34			1.66
Selenium	ug/l			1.32	1.16	<LOD						<LOD	1.15	<LOD				8.51	<LOD	<LOD					1.67				<LOD	<LOD			
Zinc	ug/l		<LOD	22.7	10.9	10.7					<LOD	<LOD	12.4	7.4			3.38	11.6	27.5	7.15		10.1		9.43	3.25			13.3	13.4	4.54			61.6
Magnesium	mg/l			24.9	16.5							21.9	15.4					18.6	7.82			14.2			19.7				10.9				
Iron	mg/l				0.267								1.36						2.25										1.5				
BTEX Compounds																																	
Sum of detected BTEX	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Benzene	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Ethylbenzene	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Toluene	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	

Location		WTA 6 - Lakes Reen							WTA 7 - Julians Reen									WTA 8 - Ellen Reen					WTA 8a - Blackwall Reen				WTA 9 - TBC						
Parameter	**Units**	**12.1**	**12.2**						**13.1**						**13.2**			**14.1**					**15.2**				**17.1**						
		Q1	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**	**Q2**	**Q5**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**
General Parameters																																
pH	pH Units			7.07	7.13	7.25	7.43	7	7.81	7.12	6.97	7.1	7.58	7		7.08	7.55	6.99	7.04	7.27	7.75	7.49	7.06	7.36	8.02	7.34		7.41	7.25	7.47	7.98	7.24	
Electrical Conductivity	uS/cm							613	527					689.3								411.7				420.1						506.9	
Alkalinity	mg CaCO3/l			240	265	675	175	250		215	268	145	190	280		240	185	225	253	140	175	175	258	155	174	180		175	227	69	155	220	
Total Hardness (as CaCO3)	mg/l																											194					
Total Suspended Solids	mg/l	5.5	16.5	9	4.5	13.5	8	38.5	16	6	44.7	21.5	14.5	71.5	10	4	8	31	12.5	120	21	11.5	8.5	7.5	4.5	65.5	8	<LOD	<LOD	132	7.5	17.5	15
Biological Oxygen Demand	mg/l	2.5	4.1	6.21	3.39	<LOD	3	6.16	<LOD	<LOD	9.8	<LOD	2.9	7.18	8.82	3.47	3.92	<LOD	6.23	3.07	2.66	2.21	4.89	<LOD	7.93	6.35	<LOD	<LOD	<LOD	<LOD	2.42	<LOD	4.2
Dissolved Oxygen	mg/l	1.07	6.44	<LOD	0.35	5.12	3.28	<LOD	4.76	<LOD	<LOD	4.17	1.25	<LOD	3.87	<LOD	1.2	<LOD	0.63	5.75	5.06	5.13	0.49	4		8.34	6.5	4.28	2.11	11.2	4.7	4.27	2.71
Dissolved Oxygen (saturation)	%							0.3						1								52				29.3						39.8	
Calcium (dissolved, filtered)	mg/l			75.2	78.2	63.6	46.6	77.9		77.4	86.6	45	57.3	87.4		82.7	50.4	58.6	71.4	41.2	49	48.4	71.8	48.6	52.3	46.7	54.1	47.9	59.4	23.4	66.1	50.5	110
Calcium (total, unfiltered)	mg/l			78	83.8					78.6	99.4	48.5				83.1		69.8	78.8	42.3			79.6	53.2				51.8	66.5	26.7			
Chloride	mg/l	38.2	30.5	50.4	38	20	20.2	45.2	31.5	51.4	40	13.5	21.1	54.7	64	55.7	18.7	31.4	27.1	16.5	17.3	19.7	26	15.3	20.2	19.9	32.3	41	33.6	14.3	38.8	34.4	24
Cyanide	mg/l																																
Ammoniacal Nitrogen (as N)	mg/l	0.342	0.449	0.58	0.277	0.345	<LOD	0.336	0.416	0.718	1.23	<LOD	0.305	0.916	0.254	0.699	0.293	1.5	0.629	0.22	<LOD	0.317	0.708	<LOD	0.23	<LOD	0.426	0.223	0.869	<LOD	0.956	<LOD	<LOD
Total Oxidised Nitrogen (as N)	mg/l	<LOD	<LOD	<LOD	<LOD	0.137	0.12	<LOD	0.151	<LOD	<LOD	0.148	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.793	1.4	1.84	<LOD	0.351	2.41	1.82	9.43	1.29	1.59	1.9	5.64	0.576	<LOD
Nitrate (as NO3)	mg/l	<LOD	<LOD	<LOD	<LOD	0.624	0.435	<LOD	0.609	<LOD	<LOD	0.61	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	3.44	6.06	7.74	0.316	1.5	10.5	7.66	41.5	5.4	6.82	8.34	24.2	2.4	<LOD
Nitrite (as NO2)	mg/l	<LOD	<LOD	<LOD	<LOD	<LOD	0.071	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.053	0.097	0.313	<LOD	<LOD	0.159	0.282	0.156	0.218	0.151	<LOD	0.562	0.111	<LOD
Sulphate	mg/l	43.5	36.5	52.2	31.7	3.6	34.9	63.5	59.2	85.6	63.5	<LOD	33.9	86.3	48.8	86.9	21.5	<LOD	<LOD	<LOD	11.3	25.5	<LOD	9.9	21.4	26.2	24.6	33.7	30.3	8.2	46.6	26.1	<LOD
Total Organic Carbon (dissolved)	mg/l			13.8	17		18	11.8		7.82	13.1	14.7	15.7	8.42		9.93	17.2	13.8	16.5	9.05	10.8	3.24	17.6	10	5.77	3.37		9.99	5.29	7.44	9.7	4.61	
Orthophosphate (as P)	mg/l	0.52	0.63		0.839	0.106		2.17			0.488	0.0832		1.55	0.696				0.392	0.085		0.178	0.409	0.0578		0.231	0.229		0.0313	0.105		0.142	0.877
Phosphorus (dissolved, filtered)	ug/l				1040		364				598	103	455				317		479	111	130	65.9	504	83.4	94.3	86.3			35.1	119	97	63.6	
Phosphorus (total, unfiltered)	ug/l			1880	1170					688	855	202				846		1990	1400	265			809	131				110	101	373			
Metals (dissolved, filtered)**																																	
Arsenic	ug/l				3.51	1.9	2.8	2.99			3.85	1.28	3.32	3.24			2.24		2.22	0.842	1.34	1.44	2.05	0.989	1.08	1.06	1.01		0.901	0.712	1.35	1.33	
Boron	ug/l																																
Cadmium	ug/l			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Chromium	ug/l			2.26	4.38	3.24	8.09	<LOD		1.76	5.29	1.81	4.79	<LOD		1.81	4.07	1.65	3.92	3.61	3.92	<LOD	4.3	4.15	3.78	<LOD	1.42	1.36	3.58	1.17	2.43	<LOD	4.62
Copper	ug/l			0.869	<LOD	2	5.32	<LOD		<LOD	<LOD	2.07	2.61	<LOD		<LOD	1.97	<LOD	<LOD	1.18	1.32	<LOD	<LOD	1.08	1.79	<LOD	5.08	1.9	1.36	3.49	3.45	<LOD	1.04
Lead	ug/l			0.076	0.116	0.836	2.41	<LOD		0.059	0.089	0.334	1.12	<LOD		0.04	0.147	0.027	0.028	0.138	0.063	<LOD	0.02	0.16	<LOD	<LOD	0.143	0.084	<LOD	0.287	0.577	<LOD	0.026
Mercury	ug/l				<LOD	<LOD	0.0285	<LOD			<LOD	<LOD	<LOD	<LOD			0.0128		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Nickel	ug/l			1.6	2.38	2.58	3.44	0.614		1.3	1.4	2.48	2.38	0.604		1.5	2.09	1.12	1.95	1.67	1.46	<LOD	1.93	1.72	1.01	<LOD	2.23	1.39	1.88	1.21	2.28	<LOD	2.14
Selenium	ug/l				1.02	0.755	1.17	<LOD			0.733	<LOD	1.1	<LOD			0.642		0.749	<LOD	1.1	<LOD	0.58	<LOD	0.919	<LOD	0.69		0.858	<LOD	1.33	<LOD	
Zinc	ug/l			1.96	1.31	7.2	14	1.68		<LOD	0.469	4.79	7.57	<LOD		0.486	2.54	0.942	1.72	1.62	0.938	1.99	0.885	2.42	1.39	<LOD	2.12	1.34	2.34	2.39	15.2	<LOD	1.29
Magnesium	mg/l				15.1	12.2					20.7	8.47							14	7.03			13.7	8.32				18.1	24.8	4.01			
Iron	mg/l						1.28					0.453	1.29				0.246			0.176	0.155			0.269	<LOD					0.167	0.139		
Metals (total, unfiltered)																																	
Arsenic	ug/l				<LOD		2.19				<LOD	<LOD	2.77				2.97		<LOD	<LOD	3.67		<LOD	<LOD	<LOD				<LOD	<LOD	<LOD		
Cadmium	ug/l			<LOD	<LOD		<LOD			<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD		
Chromium	ug/l			<LOD	8.34		<LOD			<LOD	8.06	<LOD	<LOD			<LOD	<LOD	<LOD	3.7	<LOD	<LOD		3.05	<LOD	<LOD			<LOD	<LOD	4.66	<LOD		
Copper	ug/l			<LOD	<LOD		6.17			<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	14.8	<LOD	5.62		<LOD	<LOD	<LOD			<LOD	<LOD	8.67	<LOD		
Lead	ug/l			<LOD	<LOD		2.59			<LOD	<LOD	1.47	1.11			<LOD	1.44	<LOD	1.03	1.93	2.63		<LOD	0.773	<LOD			<LOD	<LOD	9.08	0.813		
Mercury	ug/l				<LOD		0.0459				<LOD	<LOD	<LOD				<LOD		<LOD	<LOD	<LOD		0.0438	<LOD	<LOD				<LOD	0.0217	<LOD		
Nickel	ug/l			2.06	2.19		4.37			1.26	1.74	3.25	3.18			1.64	3.4	1.3	2.28	2.24	3.48		1.59	1.85	1.63			1.63	1.51	4.58	2.79		
Selenium	ug/l				<LOD		<LOD				<LOD	<LOD	<LOD				<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD				<LOD	<LOD	1.01		
Zinc	ug/l			5.1	13.5		12.7			<LOD	4.11	45.3	5.48			<LOD	16	75.8	54.1	12.5	41.3		5.75	4.94	5.27			<LOD	18.6	29.5	16.3		
Magnesium	mg/l				16.7						24.4	9.03							15.7	7.62			15.8	9.25				19.9	28.4	5.07			
Iron	mg/l											1.46								1.87				0.95							3.11			
BTEX Compounds																																	
Sum of detected BTEX	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Benzene	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Ethylbenzene	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Toluene	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD

Location		WTA 10 - Rush Wall Reen					WTA 11b/11c - Mill Reen				
Parameter	Units	18.1					Mill Reen WTA 11				
		Q2	Q3	Q4	Q5	Q6	Q2	Q3	Q4	Q5	Q6
General Parameters											
pH	pH Units	7.37	7.2	7.12	7.67	7.13	8.29	8.29	7.7	8.21	8.26
Electrical Conductivity	uS/cm					716.8					306.9
Alkalinity	mg CaCO3/l	260	370	150	345	315	147	126	55	155	135
Total Hardness (as CaCO3)	mg/l	216					160				
Total Suspended Solids	mg/l	4.5	32	121	50	26	20.5	3	59	<LOD	4.5
Biological Oxygen Demand	mg/l	4.26	2.77	2.35	7.86	8.71	<LOD	<LOD	<LOD	<LOD	<LOD
Dissolved Oxygen	mg/l	1.78	1.1	6.03	4.5	1	9.82	10.4	9.39	13	11.9
Dissolved Oxygen (saturation)	%					15.6					108
Calcium (dissolved, filtered)	mg/l	51.6	122	47.9	116	77.9	39.4	32.9	30.1	43.5	34.7
Calcium (total, unfiltered)	mg/l	59.1	135	51.4	123		41.6	36	34	41.1	
Chloride	mg/l	45.4	36.4	13.8	50.9	51.5	15.5	14.5	13.9	15.1	14.9
Cyanide	mg/l										
Ammoniacal Nitrogen (as N)	mg/l	1.2	<LOD	<LOD	0.982	0.352	<LOD	<LOD	<LOD	<LOD	<LOD
Total Oxidised Nitrogen (as N)	mg/l	<LOD	<LOD	0.679	4.85	<LOD	1.89	1.38	2.44	2.74	1.47
Nitrate (as NO3)	mg/l		<LOD	2.93	19.8	<LOD		6.05	10.7	12.1	6.45
Nitrite (as NO2)	mg/l		<LOD	0.054	1.26	<LOD		<LOD	<LOD	<LOD	<LOD
Sulphate	mg/l	<LOD	106	22.3	59	19.5	18.3	18.9	11.2	20.8	18.6
Total Organic Carbon (dissolved)	mg/l	24.8	16.9	10.7	31.3	28.1	4.46	<LOD	5.59	<LOD	<LOD
Orthophosphate (as P)	mg/l		0.317	0.161	0.309	2.25		0.0476	0.0786	<LOD	0.062
Phosphorus (dissolved, filtered)	ug/l		444	192		592		45.7	81.7		29.9
Phosphorus (total, unfiltered)	ug/l	395	1040	426	877		112	63.6	249	52.2	
Metals (dissolved, filtered)**											
Arsenic	ug/l		6.02	1.3	3.13	5.04		0.725	0.812	0.563	0.828
Boron	ug/l										
Cadmium	ug/l	<LOD	<LOD	<LOD	0.127	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Chromium	ug/l	2.79	5.29	4.23	3.03	<LOD	1.4	2.58	2.91	2.59	<LOD
Copper	ug/l	<LOD	0.983	1.83	4.87	<LOD	<LOD	<LOD	1.46	0.998	<LOD
Lead	ug/l	0.114	0.049	0.186	1.77	<LOD	0.07	0.065	0.102	0.776	<LOD
Mercury	ug/l		<LOD	<LOD	0.0117	<LOD		<LOD	<LOD	<LOD	<LOD
Nickel	ug/l	2.29	3.83	2.22	4.76	2.16	0.702	0.91	0.933	0.801	<LOD
Selenium	ug/l		0.801	<LOD	0.935	<LOD		0.785	0.596	0.573	<LOD
Zinc	ug/l	<LOD	0.986	2.31	9.73	1.35	0.706	1.52	1.37	2.63	<LOD
Magnesium	mg/l	21.1	29	9.28			14.9	13.6	8.99		
Iron	mg/l			0.103	0.67				0.0574	0.113	
Metals (total, unfiltered)											
Arsenic	ug/l		3.73	2.7	3.37			<LOD	<LOD	<LOD	
Cadmium	ug/l	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Chromium	ug/l	<LOD	3.11	5.21	<LOD		<LOD	3.89	<LOD	<LOD	
Copper	ug/l	<LOD	<LOD	5.38	7.3		<LOD	<LOD	5.1	<LOD	
Lead	ug/l	<LOD	0.891	7.64	4.43		1.74	<LOD	8.43	<LOD	
Mercury	ug/l		<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	
Nickel	ug/l	2.13	3.78	6.35	6.72		1.43	0.801	3.47	0.763	
Selenium	ug/l		<LOD	1.03	<LOD			<LOD	<LOD	<LOD	
Zinc	ug/l	<LOD	30	75.8	24.2		5.93	5.32	25.6	<LOD	
Magnesium	mg/l	24.3	32.5	10.5			15.9	14.8	10.4		
Iron	mg/l			5.23	0.67				2.28		
BTEX Compounds											
Sum of detected BTEX	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Benzene	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Ethylbenzene	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Toluene	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD

Location		WTA 1 - Pwll Bargoed Reen							WTA 2 - Tyn-Brwyn Reen							WTA 4A/4B							WTA 5 - Morfa Gronw Reen										
Parameter	Units	1.1						1.2	2.1	2.2						5.2 [old]						WTA Discharge Maerdy	7.1			7.2	7.3					7.4	
		Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q1	Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q5	Q6	Q2	Q1	Q2	Q3	Q1	Q1	Q2	Q4	Q5	Q6	Q1	Q2
Methyl tertiary butyl ether (MTBE)	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Sum of detected Xylenes	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
m,p-Xylene	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
o-Xylene	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Petroleum Hydrocarbons																																	
Total Petroleum Hydrocarbons	ug/l	<LOD	<LOD	<LOD	47.5	<LOD	<LOD	<LOD	193	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	256	<LOD	<LOD
TPH >C6-C8	ug/l				<LOD								<LOD																				
TPH >C8-C10	ug/l				<LOD								<LOD																				
TPH >C10-C16	ug/l				<LOD								<LOD																				
TPH >C16-C24	ug/l				<LOD								<LOD																				
TPH >C24-C40	ug/l				<LOD								<LOD																				
Total Aliphatic Hydrocarbons	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	76	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	64	<LOD	
Aliphatics >C5-C6	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aliphatics >C6-C8	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aliphatics >C8-C10	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aliphatics >C10-C12	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aliphatics >C12-C16	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aliphatics >C16-C21	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	11	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	13	<LOD	
Aliphatics >C21-C35	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	65	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	51	<LOD	
Aliphatics >C35-C44	ug/l																																
Total Aromatic Hydrocarbons	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	117	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	188	<LOD	
Aromatics >EC5-EC7	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aromatics >EC7-EC8	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aromatics >EC8-EC10	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aromatics >EC10-EC12	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aromatics >EC12-EC16	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	11	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
Aromatics >EC16-EC21	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	21	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	16	<LOD	
Aromatics >EC21-EC35	ug/l	<LOD		<LOD		<LOD	<LOD	<LOD	85	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	172	<LOD	
Aromatics >EC35-EC44	ug/l																																
GRO >C5-C12	ug/l	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	
NVM, light petroleum extract	mg/l																																
TPH / Oil & Greases	mg/l			<LOD	<LOD	<LOD	<LOD					<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD				<LOD				<LOD	<LOD	3.56		
Other Organic Compounds																																	
Phenols	mg/l																																
Phenol	ug/l																																
PAH (Total Detected USEPA 16)	ug/l	<LOD	<LOD	<LOD	0.704	<LOD	0.364	<LOD	17.2	6.21	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	5.7	<LOD	<LOD
Chrysene	ug/l	0.0189	<LOD	<LOD	0.081	<LOD	0.04	<LOD	1.85	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	0.016	<LOD	<LOD	0.0589	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.023	<LOD	0.517	<LOD	<LOD
Fluoranthene	ug/l	0.0283	<LOD	<LOD	0.112	<LOD	0.021	<LOD	2.24	<LOD	<LOD	<LOD	0.019		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0923	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.03	<LOD	0.711	<LOD	<LOD
Pyrene	ug/l	0.0217	<LOD	<LOD	0.092	<LOD	0.027	<LOD	1.88	<LOD	<LOD	<LOD	0.016		<LOD	<LOD	<LOD	<LOD	<LOD	0.016	<LOD	<LOD	0.0772	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.026	<LOD	0.574	<LOD	<LOD
Benzo(a)anthracene	ug/l	0.02	<LOD	<LOD	0.061	<LOD	<LOD	<LOD	1.09	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0406	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.458	<LOD	<LOD
Phenanthrene	ug/l	<LOD	<LOD	<LOD	0.049	<LOD	0.037	<LOD	0.949	0.0337	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0306	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.335	<LOD	<LOD
Acenaphthene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.13	0.121	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.062	<LOD	<LOD
Acenaphthylene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0601	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.012	<LOD	<LOD
Benzo(a)pyrene	ug/l	<LOD	<LOD	<LOD	0.064	<LOD	0.058	<LOD	1.56	<LOD	<LOD	<LOD	0.01		<LOD	<LOD	<LOD	<LOD	<LOD	0.015	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.028	<LOD	0.604	<LOD	<LOD
Benzo(b)fluoranthene	ug/l	<LOD	<LOD	<LOD	0.099	<LOD	0.06	<LOD	2.83	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.049	<LOD	1.06	<LOD	<LOD
Benzo(g,h,i)perylene	ug/l	<LOD	<LOD	<LOD	0.061	<LOD	0.051	<LOD	1.57	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	0.02	<LOD	<LOD	0.0637	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.025	<LOD	0.442	<LOD	<LOD
Fluorene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0858	0.042	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.053	<LOD	<LOD
Indeno(1,2,3-cd)pyrene	ug/l	<LOD	<LOD	<LOD	0.028	<LOD	0.036	<LOD	1.43	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	0.014	<LOD	<LOD	0.0424	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.353	<LOD	<LOD
Naphthalene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	6.02	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Anthracene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.125	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.056	<LOD	<LOD
Benzo(k)fluoranthene	ug/l	<LOD	<LOD	<LOD	0.04	<LOD	0.035	<LOD	1.09	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0393	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.348	<LOD	<LOD
Dibenzo(a,h)anthracene	ug/l	<LOD	<LOD	<LOD	0.017	<LOD	<LOD	<LOD	0.367	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	0.016	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.119	<LOD	<LOD
1,1,1,2-Tetrachloroethane	ug/l																																
1,1,1-Trichloroethane	ug/l																																
1,1,2,2-Tetrachloroethane	ug/l																																
1,1,2-Trichloroethane	ug/l																																
1,1-Dichloroethane	ug/l																																
1,1-Dichloroethene	ug/l																																
1,1-Dichloropropene	ug/l																																
1,2,3,6,7,8 HxCDD	ng/l																																

Location		WTA 6 - Lakes Reen							WTA 7 - Julians Reen									WTA 8 - Ellen Reen					WTA 8a - Blackwall Reen				WTA 9 - TBC						
Parameter	**Units**	**12.1**	**12.2**						**13.1**						**13.2**			**14.1**					**15.2**				**17.1**						
		Q1	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**	**Q2**	**Q5**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q1**
Methyl tertiary butyl ether (MTBE)	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Sum of detected Xylenes	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
m,p-Xylene	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
o-Xylene	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Petroleum Hydrocarbons																																
Total Petroleum Hydrocarbons	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	11	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
TPH >C6-C8	ug/l																																
TPH >C8-C10	ug/l																																
TPH >C10-C16	ug/l																																
TPH >C16-C24	ug/l																																
TPH >C24-C40	ug/l																																
Total Aliphatic Hydrocarbons	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	11	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aliphatics >C5-C6	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aliphatics >C6-C8	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aliphatics >C8-C10	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aliphatics >C10-C12	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aliphatics >C12-C16	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aliphatics >C16-C21	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aliphatics >C21-C35	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	11	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aliphatics >C35-C44	ug/l																																
Total Aromatic Hydrocarbons	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aromatics >EC5-EC7	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aromatics >EC7-EC8	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aromatics >EC8-EC10	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aromatics >EC10-EC12	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aromatics >EC12-EC16	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aromatics >EC16-EC21	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aromatics >EC21-EC35	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
Aromatics >EC35-EC44	ug/l																																
GRO >C5-C12	ug/l	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD
NVM, light petroleum extract	mg/l																																
TPH / Oil & Greases	mg/l				<LOD	<LOD	<LOD	<LOD			<LOD	<LOD	<LOD	<LOD					<LOD	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD			<LOD	<LOD	<LOD	<LOD	
Other Organic Compounds																																
Phenols	mg/l																																
Phenol	ug/l																																
PAH (Total Detected USEPA 16)	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Chrysene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.015	<LOD	<LOD	<LOD	0.0255	<LOD	<LOD
Fluoranthene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0391	<LOD	<LOD
Pyrene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0328	<LOD	<LOD
Benzo(a)anthracene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Phenanthrene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Acenaphthene	ug/l	<LOD	<LOD	0.0151	0.053	<LOD		<LOD	<LOD	0.0182	<LOD	<LOD	<LOD	<LOD	<LOD	0.0154	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.054	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Acenaphthylene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Benzo(a)pyrene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.01	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0276	<LOD	<LOD
Benzo(b)fluoranthene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0494	<LOD	<LOD
Benzo(g,h,i)perylene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.033	<LOD	<LOD
Fluorene	ug/l	<LOD	<LOD	<LOD	0.0405	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0413	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Indeno(1,2,3-cd)pyrene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0221	<LOD	<LOD
Naphthalene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.318	<LOD	<LOD	<LOD	<LOD	<LOD
Anthracene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Benzo(k)fluoranthene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Dibenzo(a,h)anthracene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
1,1,1,2-Tetrachloroethane	ug/l																																
1,1,1-Trichloroethane	ug/l																																
1,1,2,2-Tetrachloroethane	ug/l																																
1,1,2-Trichloroethane	ug/l																																
1,1-Dichloroethane	ug/l																																
1,1-Dichloroethene	ug/l																																
1,1-Dichloropropene	ug/l																																
1,2,3,6,7,8 HxCDD	ng/l																																

Location		WTA 10 - Rush Wall Reen					WTA 11b/11c - Mill Reen				
Parameter	Units	18.1					Mill Reen WTA 11				
		Q2	Q3	Q4	Q5	Q6	Q2	Q3	Q4	Q5	Q6
Methyl tertiary butyl ether (MTBE)	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Sum of detected Xylenes	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
m,p-Xylene	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
o-Xylene	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Petroleum Hydrocarbons											
Total Petroleum Hydrocarbons	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
TPH >C6-C8	ug/l										
TPH >C8-C10	ug/l										
TPH >C10-C16	ug/l										
TPH >C16-C24	ug/l										
TPH >C24-C40	ug/l										
Total Aliphatic Hydrocarbons	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aliphatics >C5-C6	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aliphatics >C6-C8	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aliphatics >C8-C10	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aliphatics >C10-C12	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aliphatics >C12-C16	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aliphatics >C16-C21	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aliphatics >C21-C35	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aliphatics >C35-C44	ug/l										
Total Aromatic Hydrocarbons	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aromatics >EC5-EC7	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aromatics >EC7-EC8	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aromatics >EC8-EC10	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aromatics >EC10-EC12	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aromatics >EC12-EC16	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aromatics >EC16-EC21	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aromatics >EC21-EC35	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
Aromatics >EC35-EC44	ug/l										
GRO >C5-C12	ug/l		<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD
NVM, light petroleum extract	mg/l										
TPH / Oil & Greases	mg/l		<LOD	<LOD		<LOD		<LOD	<LOD	<LOD	<LOD
Other Organic Compouns											
Phenols	mg/l										
Phenol	ug/l										
PAH (Total Detected USEPA 16)	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	0.603	<LOD	2.97	<LOD	<LOD
Chrysene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.284	<LOD	<LOD
Fluoranthene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.022	0.454	<LOD	<LOD
Pyrene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0187	0.349	<LOD	<LOD
Benzo(a)anthracene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.224	<LOD	<LOD
Phenanthrene	ug/l	<LOD	0.0418	<LOD	<LOD	<LOD	<LOD	0.0496	0.148	<LOD	<LOD
Acenaphthene	ug/l	<LOD	0.124	<LOD	<LOD	<LOD	<LOD	0.118	0.0202	<LOD	<LOD
Acenaphthylene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Benzo(a)pyrene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	0.0551	0.0109	0.264	<LOD	<LOD
Benzo(b)fluoranthene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	0.103	<LOD	0.473	<LOD	<LOD
Benzo(g,h,i)perylene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.259	<LOD	<LOD
Fluorene	ug/l	<LOD	0.0778	<LOD	<LOD	<LOD	<LOD	0.078	0.0175	<LOD	<LOD
Indeno(1,2,3-cd)pyrene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.215	<LOD	<LOD
Naphthalene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD
Anthracene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.0235	<LOD	<LOD
Benzo(k)fluoranthene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.167	<LOD	<LOD
Dibenzo(a,h)anthracene	ug/l	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	<LOD	0.07	<LOD	<LOD
1,1,1,2-Tetrachloroethane	ug/l										
1,1,1-Trichloroethane	ug/l										
1,1,2,2-Tetrachloroethane	ug/l										
1,1,2-Trichloroethane	ug/l										
1,1-Dichloroethane	ug/l										
1,1-Dichloroethene	ug/l										
1,1-Dichloropropene	ug/l										
1,2,3,6,7,8 HxCDD	ng/l										

Location		WTA 1 - Pwll Bargoed Reen							WTA 2 - Tyn-Brwyn Reen							WTA 4A/4B							WTA 5 - Morfa Gronw Reen										
Parameter	Units	1.1						1.2	2.1	2.2						5.2 [old]						WTA Discharge Maerdy	7.1			7.2	7.3					7.4	
		Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q1	Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q5	Q6	Q2	Q1	Q2	Q3	Q1	Q1	Q2	Q4	Q5	Q6	Q1	Q2
1,2,3-Trichlorobenzene	ug/l																															
1,2,3-Trichloropropane	ug/l																															
1,2,4-Trichlorobenzene	ug/l																															
1,2,4-Trimethylbenzene	ug/l																															
1,2-Dibromo-3-chloropropane	ug/l																															
1,2-Dibromoethane	ug/l																															
1,2-Dichlorobenzene	ug/l																															
1,2-Dichloroethane	ug/l																															
1,2-Dichloropropane	ug/l																															
1,3,5-Trichlorobenzene	ug/l																															
1,3,5-Trimethylbenzene	ug/l																															
1,3-Dichlorobenzene	ug/l																															
1,3-Dichloropropane	ug/l																															
1,4-Dichlorobenzene	ug/l																															
2,2-Dichloropropane	ug/l																															
2,4,5-Trichlorophenol	ug/l																															
2,4,6-Trichlorophenol	ug/l																															
2,4-Dichlorophenol	ug/l																															
2,4-Dimethylphenol	ug/l																															
2,4-Dinitrotoluene	ug/l																															
2,6-Dinitrotoluene	ug/l																															
2-Chloronaphthalene	ug/l																															
2-Chlorophenol	ug/l																															
2-Chlorotoluene	ug/l																															
2-Methyl-4,6-Dinitrophenol	ug/l																															
2-Methylnaphthalene	ug/l																															
2-Methylphenol	ug/l																															
2-Nitroaniline	ug/l																															
2-Nitrophenol	ug/l																															
3-Nitroaniline	ug/l																															
4-Bromophenyl Phenyl Ether	ug/l																															
4-Chloro-3-Methylphenol	ug/l																															
4-Chloroaniline	ug/l																															
4-Chlorophenyl Phenyl Ether	ug/l																															
4-Chlorotoluene	ug/l																															
4-Isopropyltoluene	ug/l																															
4-Methylphenol	ug/l																															
4-Nitroaniline	ug/l																															
4-Nitrophenol (aq)	ug/l																															
Azobenzene	ug/l																															
Bis(2-chloroethoxy)methane	ug/l																															
Bis(2-chloroethyl)ether	ug/l																															
Bis(2-chloroisopropyl)ether	ug/l																															
Bis(2-ethylhexyl)phthalate	ug/l																															
Bromobenzene	ug/l																															
Bromochloromethane	ug/l																															
Bromodichloromethane	ug/l																															
Bromoform	ug/l																															
Bromomethane	ug/l																															
Butylbenzylphthalate	ug/l																															
Carbazole	ug/l																															
Carbon disulphide	ug/l																															
Carbontetrachloride	ug/l																															
Chlorobenzene	ug/l																															
Chloroethane	ug/l																															
Chloroethene	ug/l																															
Chloroform	ug/l																															
Chloromethane	ug/l																															
cis-1,2-Dichloroethene	ug/l																															
cis-1,3-Dichloropropene	ug/l																															

Location		WTA 6 - Lakes Reen							WTA 7 - Julians Reen									WTA 8 - Ellen Reen					WTA 8a - Blackwall Reen				WTA 9 - TBC						
Parameter	Units	12.1	12.2						13.1						13.2			14.1					15.2				17.1						
		Q1	Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q5	Q2	Q3	Q4	Q5	Q6	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q5	Q6	Q1
1,2,3-Trichlorobenzene	ug/l																																
1,2,3-Trichloropropane	ug/l																																
1,2,4-Trichlorobenzene	ug/l																																
1,2,4-Trimethylbenzene	ug/l																																
1,2-Dibromo-3-chloropropane	ug/l																																
1,2-Dibromoethane	ug/l																																
1,2-Dichlorobenzene	ug/l																																
1,2-Dichloroethane	ug/l																																
1,2-Dichloropropane	ug/l																																
1,3,5-Trichlorobenzene	ug/l																																
1,3,5-Trimethylbenzene	ug/l																																
1,3-Dichlorobenzene	ug/l																																
1,3-Dichloropropane	ug/l																																
1,4-Dichlorobenzene	ug/l																																
2,2-Dichloropropane	ug/l																																
2,4,5-Trichlorophenol	ug/l																																
2,4,6-Trichlorophenol	ug/l																																
2,4-Dichlorophenol	ug/l																																
2,4-Dimethylphenol	ug/l																																
2,4-Dinitrotoluene	ug/l																																
2,6-Dinitrotoluene	ug/l																																
2-Chloronaphthalene	ug/l																																
2-Chlorophenol	ug/l																																
2-Chlorotoluene	ug/l																																
2-Methyl-4,6-Dinitrophenol	ug/l																																
2-Methylnaphthalene	ug/l																																
2-Methylphenol	ug/l																																
2-Nitroaniline	ug/l																																
2-Nitrophenol	ug/l																																
3-Nitroaniline	ug/l																																
4-Bromophenyl Phenyl Ether	ug/l																																
4-Chloro-3-Methylphenol	ug/l																																
4-Chloroaniline	ug/l																																
4-Chlorophenyl Phenyl Ether	ug/l																																
4-Chlorotoluene	ug/l																																
4-Isopropyltoluene	ug/l																																
4-Methylphenol	ug/l																																
4-Nitroaniline	ug/l																																
4-Nitrophenol (aq)	ug/l																																
Azobenzene	ug/l																																
Bis(2-chloroethoxy)methane	ug/l																																
Bis(2-chloroethyl)ether	ug/l																																
Bis(2-chloroisopropyl)ether	ug/l																																
Bis(2-ethylhexyl)phthalate	ug/l																																
Bromobenzene	ug/l																																
Bromochloromethane	ug/l																																
Bromodichloromethane	ug/l																																
Bromoform	ug/l																																
Bromomethane	ug/l																																
Butylbenzylphthalate	ug/l																																
Carbazole	ug/l																																
Carbon disulphide	ug/l																																
Carbontetrachloride	ug/l																																
Chlorobenzene	ug/l																																
Chloroethane	ug/l																																
Chloroethene	ug/l																																
Chloroform	ug/l																																
Chloromethane	ug/l																																
cis-1,2-Dichloroethene	ug/l																																
cis-1,3-Dichloropropene	ug/l																																

Location		WTA 10 - Rush Wall Reen					WTA 11b/11c - Mill Reen				
Parameter	Units	18.1					Mill Reen WTA 11				
		Q2	Q3	Q4	Q5	Q6	Q2	Q3	Q4	Q5	Q6
1,2,3-Trichlorobenzene	ug/l										
1,2,3-Trichloropropane	ug/l										
1,2,4-Trichlorobenzene	ug/l										
1,2,4-Trimethylbenzene	ug/l										
1,2-Dibromo-3-chloropropane	ug/l										
1,2-Dibromoethane	ug/l										
1,2-Dichlorobenzene	ug/l										
1,2-Dichloroethane	ug/l										
1,2-Dichloropropane	ug/l										
1,3,5-Trichlorobenzene	ug/l										
1,3,5-Trimethylbenzene	ug/l										
1,3-Dichlorobenzene	ug/l										
1,3-Dichloropropane	ug/l										
1,4-Dichlorobenzene	ug/l										
2,2-Dichloropropane	ug/l										
2,4,5-Trichlorophenol	ug/l										
2,4,6-Trichlorophenol	ug/l										
2,4-Dichlorophenol	ug/l										
2,4-Dimethylphenol	ug/l										
2,4-Dinitrotoluene	ug/l										
2,6-Dinitrotoluene	ug/l										
2-Chloronaphthalene	ug/l										
2-Chlorophenol	ug/l										
2-Chlorotoluene	ug/l										
2-Methyl-4,6-Dinitrophenol	ug/l										
2-Methylnaphthalene	ug/l										
2-Methylphenol	ug/l										
2-Nitroaniline	ug/l										
2-Nitrophenol	ug/l										
3-Nitroaniline	ug/l										
4-Bromophenyl Phenyl Ether	ug/l										
4-Chloro-3-Methylphenol	ug/l										
4-Chloroaniline	ug/l										
4-Chlorophenyl Phenyl Ether	ug/l										
4-Chlorotoluene	ug/l										
4-Isopropyltoluene	ug/l										
4-Methylphenol	ug/l										
4-Nitroaniline	ug/l										
4-Nitrophenol (aq)	ug/l										
Azobenzene	ug/l										
Bis(2-chloroethoxy)methane	ug/l										
Bis(2-chloroethyl)ether	ug/l										
Bis(2-chloroisopropyl)ether	ug/l										
Bis(2-ethylhexyl)phthalate	ug/l										
Bromobenzene	ug/l										
Bromochloromethane	ug/l										
Bromodichloromethane	ug/l										
Bromoform	ug/l										
Bromomethane	ug/l										
Butylbenzylphthalate	ug/l										
Carbazole	ug/l										
Carbon disulphide	ug/l										
Carbontetrachloride	ug/l										
Chlorobenzene	ug/l										
Chloroethane	ug/l										
Chloroethene	ug/l										
Chloroform	ug/l										
Chloromethane	ug/l										
cis-1,2-Dichloroethene	ug/l										
cis-1,3-Dichloropropene	ug/l										

Location		WTA 1 - Pwll Bargoed Reen							WTA 2 - Tyn-Brwyn Reen							WTA 4A/4B							WTA 5 - Morfa Gronw Reen										
Parameter	Units	1.1						1.2	2.1	2.2						5.2 [old]						WTA Discharge Maerdy	7.1			7.2	7.3					7.4	
		Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q1	Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q5	Q6	Q2	Q1	Q2	Q3	Q1	Q1	Q2	Q4	Q5	Q6	Q1	Q2
Dibenzofuran	ug/l																																
Dibromochloromethane	ug/l																																
Dibromomethane	ug/l																																
Dichlorodifluoromethane	ug/l																																
Dichloromethane	ug/l																																
Diethylphthalate	ug/l																																
Dimethylphthalate	ug/l																																
Di-N-Butyl Phthalate	ug/l																																
Di-N-Octyl Phthalate	ug/l																																
Hexachlorobenzene (HCB)	ug/l																																
Hexachlorobutadiene (HCBD)	ug/l																																
Hexachlorocyclopentadiene	ug/l																																
Hexachloroethane	ug/l																																
Isophorone	ug/l																																
Isopropylbenzene	ug/l																																
Methyl tert-butyl ether (MTBE)	ug/l	<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD	<LOD		<LOD		<LOD	<LOD	<LOD		<LOD	<LOD		<LOD	
n-Butylbenzene	ug/l																																
n-Dibutyl phthalate (aq)	ug/l																																
n-Dioctyl phthalate (aq)	ug/l																																
Nitrobenzene	ug/l																																
n-nitrosodimethylamine	ug/l																																
N-Nitroso-Di-N-Propylamine	ug/l																																
n-propylbenzene	ug/l																																
Pcb-101 2,2',4,5,5' - Pentachlorobiphe	ug/l																																
Pcb-118 2,3',4,4',5 - Pentachlorobiphe	ug/l																																
Pcb-138 2,2',3,4,4',5' - Hexachlorobipl	ug/l																																
Pcb-153 2,2',4,4',5,5' - Hexachlorobipl	ug/l																																
Pcb-180 2,2',3,4,4',5,5' - Heptachlorob	ug/l																																
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l																																
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l																																
PCBs (vs Aroclor 1254) (aq)	ug/l																																
Pentachlorophenol (PCP)	ug/l																																
Propylbenzene	ug/l																																
sec-Butylbenzene	ug/l																																
Styrene	ug/l																																
tert-Amyl methyl ether (TAME)	ug/l																																
tert-Butylbenzene	ug/l																																
Tetrachloroethene	ug/l																																
Tetrachloromethane (Carbon Tetra Ch	ug/l																																
trans-1,2-Dichloroethene	ug/l																																
trans-1,3-Dichloropropene	ug/l																																
Tribromomethane	ug/l																																
Trichloroethene	ug/l																																
Trichlorofluoromethane	ug/l																																
Vinyl chloride	ug/l																																

Location		WTA 6 - Lakes Reen							WTA 7 - Julians Reen									WTA 8 - Ellen Reen					WTA 8a - Blackwall Reen				WTA 9 - TBC						
Parameter	Units	12.1	12.2						13.1						13.2			14.1					15.2				17.1						
		Q1	Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q5	Q2	Q3	Q4	Q5	Q6	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q5	Q6	Q1
Dibenzofuran	ug/l																																
Dibromochloromethane	ug/l																																
Dibromomethane	ug/l																																
Dichlorodifluoromethane	ug/l																																
Dichloromethane	ug/l																																
Diethylphthalate	ug/l																																
Dimethylphthalate	ug/l																																
Di-N-Butyl Phthalate	ug/l																																
Di-N-Octyl Phthalate	ug/l																																
Hexachlorobenzene (HCB)	ug/l																																
Hexachlorobutadiene (HCBD)	ug/l																																
Hexachlorocyclopentadiene	ug/l																																
Hexachloroethane	ug/l																																
Isophorone	ug/l																																
Isopropylbenzene	ug/l																																
Methyl tert-butyl ether (MTBE)	ug/l	<LOD	<LOD		<LOD	<LOD					<LOD	<LOD			<LOD		<LOD		<LOD	<LOD	<LOD	<LOD	<LOD		<LOD	<LOD	<LOD		<LOD	<LOD	<LOD		<LOD
n-Butylbenzene	ug/l																																
n-Dibutyl phthalate (aq)	ug/l																																
n-Dioctyl phthalate (aq)	ug/l																																
Nitrobenzene	ug/l																																
n-nitrosodimethylamine	ug/l																																
N-Nitroso-Di-N-Propylamine	ug/l																																
n-propylbenzene	ug/l																																
Pcb-101 2,2',4,5,5' - Pentachlorobiphe	ug/l																																
Pcb-118 2,3',4,4',5 - Pentachlorobiphe	ug/l																																
Pcb-138 2,2',3,4,4',5' - Hexachlorobipl	ug/l																																
Pcb-153 2,2',4,4',5,5' - Hexachlorobipl	ug/l																																
Pcb-180 2,2',3,4,4',5,5' - Heptachlorob	ug/l																																
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l																																
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l																																
PCBs (vs Aroclor 1254) (aq)	ug/l																	<LOD										<LOD						
Pentachlorophenol (PCP)	ug/l																																
Propylbenzene	ug/l																																
sec-Butylbenzene	ug/l																																
Styrene	ug/l																																
tert-Amyl methyl ether (TAME)	ug/l																																
tert-Butylbenzene	ug/l																																
Tetrachloroethene	ug/l																																
Tetrachloromethane (Carbon Tetra Ch	ug/l																																
trans-1,2-Dichloroethene	ug/l																																
trans-1,3-Dichloropropene	ug/l																																
Tribromomethane	ug/l																																
Trichloroethene	ug/l																																
Trichlorofluoromethane	ug/l																																
Vinyl chloride	ug/l																																

Location		WTA 10 - Rush Wall Reen					WTA 11b/11c - Mill Reen				
Parameter	Units	18.1					Mill Reen WTA 11				
		Q2	Q3	Q4	Q5	Q6	Q2	Q3	Q4	Q5	Q6
Dibenzofuran	ug/l										
Dibromochloromethane	ug/l										
Dibromomethane	ug/l										
Dichlorodifluoromethane	ug/l										
Dichloromethane	ug/l										
Diethylphthalate	ug/l										
Dimethylphthalate	ug/l										
Di-N-Butyl Phthalate	ug/l										
Di-N-Octyl Phthalate	ug/l										
Hexachlorobenzene (HCB)	ug/l										
Hexachlorobutadiene (HCBD)	ug/l										
Hexachlorocyclopentadiene	ug/l										
Hexachloroethane	ug/l										
Isophorone	ug/l										
Isopropylbenzene	ug/l										
Methyl tert-butyl ether (MTBE)	ug/l		<LOD	<LOD				<LOD	<LOD	<LOD	
n-Butylbenzene	ug/l										
n-Dibutyl phthalate (aq)	ug/l										
n-Dioctyl phthalate (aq)	ug/l										
Nitrobenzene	ug/l										
n-nitrosodimethylamine	ug/l										
N-Nitroso-Di-N-Propylamine	ug/l										
n-propylbenzene	ug/l										
Pcb-101 2,2',4,5,5' - Pentachlorobiphe	ug/l										
Pcb-118 2,3',4,4',5 - Pentachlorobiphe	ug/l										
Pcb-138 2,2',3,4,4',5' - Hexachlorobipl	ug/l										
Pcb-153 2,2',4,4',5,5' - Hexachlorobipl	ug/l										
Pcb-180 2,2',3,4,4',5,5' - Heptachlorob	ug/l										
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l										
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l										
PCBs (vs Aroclor 1254) (aq)	ug/l										
Pentachlorophenol (PCP)	ug/l										
Propylbenzene	ug/l										
sec-Butylbenzene	ug/l										
Styrene	ug/l										
tert-Amyl methyl ether (TAME)	ug/l										
tert-Butylbenzene	ug/l										
Tetrachloroethene	ug/l										
Tetrachloromethane (Carbon Tetra Ch	ug/l										
trans-1,2-Dichloroethene	ug/l										
trans-1,3-Dichloropropene	ug/l										
Tribromomethane	ug/l										
Trichloroethene	ug/l										
Trichlorofluoromethane	ug/l										
Vinyl chloride	ug/l										

Annex H: Summary Statistics & Screening Assessment for Surface Water Quality Dataset for the Gwent Levels

Parameter	Unit	No. Analyses	Analyses Above LOD		Concentration	
			No.	*%'age of Analyses*	*Range*	*Average**
General Parameters						
pH	pH Units	60	60	100.0%	6.77 - 8.35	7.46
Electrical Conductivity	uS/cm	12	12	100.0%	391.2 - 716.8	521
Alkalinity	mg CaCO3/l	59	59	100.0%	55 - 675	201
Total Hardness (as CaCO3)	mg/l	4	4	100.0%	160 - 216	189
Total Suspended Solids	mg/l	74	60	81.1%	2.5 - 748	28.3
Biological Oxygen Demand	mg/l	74	36	48.6%	2.12 - 23.5	2.36
Dissolved Oxygen	mg/l	73	66	90.4%	0.35 - 13.6	5.60
Dissolved Oxygen (saturation)	%	11	11	100.0%	0.3 - 94.5	38.3
Calcium (dissolved, filtered)	mg/l	70	70	100.0%	1.58 - 122	55.5
Calcium (total, unfiltered)	mg/l	35	35	100.0%	26.7 - 135	61.7
Chloride	mg/l	74	74	100.0%	3 - 127	34.1
Cyanide	mg/l	0	0	None > LOD	No Analyses	No Analyses
Ammoniacal Nitrogen (as N)	mg/l	74	42	56.8%	0.204 - 5.06	0.393
Total Oxidised Nitrogen (as N)	mg/l	74	46	62.2%	0.12 - 9.43	1.86
Nitrate (as NO3)	mg/l	72	46	63.9%	0.316 - 41.5	8.24
Nitrite (as NO2)	mg/l	72	34	47.2%	0.05 - 1.26	0.087
Sulphate	mg/l	74	64	86.5%	3.6 - 106	29.7
Total Organic Carbon (dissolved)	mg/l	57	49	86.0%	3.24 - 31.3	10.29
Orthophosphate (as P)	mg/l	53	50	94.3%	0.0303 - 6.4	0.482
Phosphorus (dissolved, filtered)	ug/l	33	33	100.0%	35.1 - 1040	242
Phosphorus (total, unfiltered)	ug/l	41	41	100.0%	44.6 - 1990	494
Metals (dissolved, filtered)**						
Arsenic	ug/l	54	52	96.3%	0.253 - 6.02	1.79
Boron	ug/l	0	0	None > LOD	No Analyses	No Analyses
Cadmium	ug/l	70	2	2.9%	0.1 - 0.127	0.00
Chromium	ug/l	70	59	84.3%	0.446 - 8.88	2.37
Copper	ug/l	70	44	62.9%	0.869 - 5.57	1.33
Lead	ug/l	70	56	80.0%	0.02 - 3.71	0.343
Mercury	ug/l	54	5	9.3%	0.0109 - 0.0285	0.002
Nickel	ug/l	70	64	91.4%	0.604 - 4.76	1.66
Selenium	ug/l	54	26	48.1%	0.573 - 1.33	0.406
Zinc	ug/l	70	63	90.0%	0.469 - 15.2	3.28
Magnesium	mg/l	26	26	100.0%	4.01 - 29	14.4
Iron	mg/l	22	20	90.9%	0.0574 - 1.3	0.410
Metals (total, unfiltered)						
Arsenic	ug/l	33	10	30.3%	2.19 - 3.73	0.87
Cadmium	ug/l	47	0	None > LOD	None > LOD	None > LOD
Chromium	ug/l	47	14	29.8%	3.05 - 8.34	1.38
Copper	ug/l	47	9	19.1%	5.1 - 14.8	1.42
Lead	ug/l	47	28	59.6%	0.612 - 9.08	1.51
Mercury	ug/l	33	3	9.1%	0.0217 - 0.0459	0.003
Nickel	ug/l	47	46	97.9%	0.763 - 6.72	2.48
Selenium	ug/l	33	7	21.2%	1.01 - 8.51	0.48
Zinc	ug/l	47	39	83.0%	3.25 - 75.8	16.22
Magnesium	mg/l	25	25	100.0%	5.07 - 32.5	16.41
Iron	mg/l	11	11	100.0%	0.267 - 5.23	1.90
BTEX Compoundas						
Sum of detected BTEX	ug/l	59	0	None > LOD	None > LOD	None > LOD
Benzene	ug/l	59	0	None > LOD	None > LOD	None > LOD
Ethylbenzene	ug/l	59	0	None > LOD	None > LOD	None > LOD
Toluene	ug/l	59	0	None > LOD	None > LOD	None > LOD
Methyl tertiary butyl ether (MTBE)	ug/l	59	0	None > LOD	None > LOD	None > LOD
Sum of detected Xylenes	ug/l	59	0	None > LOD	None > LOD	None > LOD
m,p-Xylene	ug/l	59	0	None > LOD	None > LOD	None > LOD
o-Xylene	ug/l	59	0	None > LOD	None > LOD	None > LOD
Petroleum Hydrocarbons						
Total Petroleum Hydrocarbons	ug/l	73	4	5.5%	11 - 256	6.95
TPH >C6-C8	ug/l	2	0	None > LOD	None > LOD	None > LOD
TPH >C8-C10	ug/l	2	0	None > LOD	None > LOD	None > LOD
TPH >C10-C16	ug/l	2	0	None > LOD	None > LOD	None > LOD

Parameter	Unit	No. Analyses	Analyses Above LOD		Concentration	
			No.	*%'age of Analyses*	*Range*	*Average**
TPH >C16-C24	ug/l	2	0	None > LOD	None > LOD	None > LOD
TPH >C24-C40	ug/l	2	0	None > LOD	None > LOD	None > LOD
Total Aliphatic Hydrocarbons	ug/l	57	3	5.3%	11 - 76	2.65
Aliphatics >C5-C6	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aliphatics >C6-C8	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aliphatics >C8-C10	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aliphatics >C10-C12	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aliphatics >C12-C16	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aliphatics >C16-C21	ug/l	57	2	3.5%	11 - 13	0.42
Aliphatics >C21-C35	ug/l	57	3	5.3%	11 - 65	2.23
Aliphatics >C35-C44	ug/l	0	0	None > LOD	No Analyses	No Analyses
Total Aromatic Hydrocarbons	ug/l	57	2	3.5%	117 - 188	5.35
Aromatics >EC5-EC7	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aromatics >EC7-EC8	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aromatics >EC8-EC10	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aromatics >EC10-EC12	ug/l	57	0	None > LOD	None > LOD	None > LOD
Aromatics >EC12-EC16	ug/l	57	1	1.8%	11	Single Analysis
Aromatics >EC16-EC21	ug/l	57	2	3.5%	16 - 21	0.65
Aromatics >EC21-EC35	ug/l	57	2	3.5%	85 - 172	4.51
Aromatics >EC35-EC44	ug/l	0	0	None > LOD	No Analyses	No Analyses
GRO >C5-C12	ug/l	60	0	None > LOD	None > LOD	None > LOD
NVM, light petroleum extract	mg/l	0	0	None > LOD	No Analyses	No Analyses
TPH / Oil & Greases	mg/l	42	1	2.4%	3.56	Single Analysis
Other Organic Compounds						
Phenols	mg/l	0	0	None > LOD	No Analyses	No Analyses
Phenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
PAH (Total Detected USEPA 16)	ug/l	72	7	9.7%	0.364 - 17.2	0.47
Chrysene	ug/l	72	11	15.3%	0.015 - 1.85	0.04
Fluoranthene	ug/l	72	11	15.3%	0.0188 - 2.24	0.05
Pyrene	ug/l	72	12	16.7%	0.0155 - 1.88	0.04
Benzo(a)anthracene	ug/l	72	6	8.3%	0.02 - 1.09	0.03
Phenanthrene	ug/l	72	9	12.5%	0.0306 - 0.949	0.02
Acenaphthene	ug/l	72	11	15.3%	0.0151 - 0.13	0.01
Acenaphthylene	ug/l	72	2	2.8%	0.0116 - 0.0601	0.001
Benzo(a)pyrene	ug/l	72	12	16.7%	0.0099 - 1.56	0.04
Benzo(b)fluoranthene	ug/l	72	8	11.1%	0.0486 - 2.83	0.07
Benzo(g,h,i)perylene	ug/l	72	9	12.5%	0.0199 - 1.57	0.04
Fluorene	ug/l	72	8	11.1%	0.0175 - 0.0858	0.006
Indeno(1,2,3-cd)pyrene	ug/l	72	8	11.1%	0.0144 - 1.43	0.03
Naphthalene	ug/l	72	2	2.8%	0.318 - 6.02	0.09
Anthracene	ug/l	72	3	4.2%	0.0235 - 0.125	0.003
Benzo(k)fluoranthene	ug/l	72	6	8.3%	0.0352 - 1.09	0.02
Dibenzo(a,h)anthracene	ug/l	72	5	6.9%	0.0164 - 0.367	0.008
1,1,1,2-Tetrachloroethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,1,1-Trichloroethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,1,2,2-Tetrachloroethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,1,2-Trichloroethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,1-Dichloroethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,1-Dichloroethene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,1-Dichloropropene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2,3,6,7,8 HxCDD	ng/l	0	0	None > LOD	No Analyses	No Analyses
1,2,3-Trichlorobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2,3-Trichloropropane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2,4-Trichlorobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2,4-Trimethylbenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2-Dibromo-3-chloropropane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2-Dibromoethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2-Dichlorobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2-Dichloroethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,2-Dichloropropane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,3,5-Trichlorobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,3,5-Trimethylbenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,3-Dichlorobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,3-Dichloropropane	ug/l	0	0	None > LOD	No Analyses	No Analyses
1,4-Dichlorobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
2,2-Dichloropropane	ug/l	0	0	None > LOD	No Analyses	No Analyses
2,4,5-Trichlorophenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
2,4,6-Trichlorophenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
2,4-Dichlorophenol	ug/l	0	0	None > LOD	No Analyses	No Analyses

Parameter	Unit	No. Analyses	Analyses Above LOD		Concentration	
			No.	*%'age of Analyses*	*Range*	*Average**
2,4-Dimethylphenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
2,4-Dinitrotoluene	ug/l	0	0	None > LOD	No Analyses	No Analyses
2,6-Dinitrotoluene	ug/l	0	0	None > LOD	No Analyses	No Analyses
2-Chloronaphthalene	ug/l	0	0	None > LOD	No Analyses	No Analyses
2-Chlorophenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
2-Chlorotoluene	ug/l	0	0	None > LOD	No Analyses	No Analyses
2-Methyl-4,6-Dinitrophenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
2-Methylnaphthalene	ug/l	0	0	None > LOD	No Analyses	No Analyses
2-Methylphenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
2-Nitroaniline	ug/l	0	0	None > LOD	No Analyses	No Analyses
2-Nitrophenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
3-Nitroaniline	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Bromophenyl Phenyl Ether	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Chloro-3-Methylphenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Chloroaniline	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Chlorophenyl Phenyl Ether	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Chlorotoluene	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Isopropyltoluene	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Methylphenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Nitroaniline	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Methylphenol	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Nitroaniline	ug/l	0	0	None > LOD	No Analyses	No Analyses
4-Nitrophenol (aq)	ug/l	0	0	None > LOD	No Analyses	No Analyses
Azobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bis(2-chloroethoxy)methane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bis(2-chloroethyl)ether	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bis(2-chloroisopropyl)ether	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bis(2-ethylhexyl)phthalate	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bromobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bromochloromethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bromodichloromethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bromoform	ug/l	0	0	None > LOD	No Analyses	No Analyses
Bromomethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Butylbenzylphthalate	ug/l	0	0	None > LOD	No Analyses	No Analyses
Carbazole	ug/l	0	0	None > LOD	No Analyses	No Analyses
Carbon disulphide	ug/l	0	0	None > LOD	No Analyses	No Analyses
Carbontetrachloride	ug/l	0	0	None > LOD	No Analyses	No Analyses
Chlorobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Chloroethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Chloroethene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Chloroform	ug/l	0	0	None > LOD	No Analyses	No Analyses
Chloromethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
cis-1,2-Dichloroethene	ug/l	0	0	None > LOD	No Analyses	No Analyses
cis-1,3-Dichloropropene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Dibenzofuran	ug/l	0	0	None > LOD	No Analyses	No Analyses
Dibromochloromethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Dibromomethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Dichlorodifluoromethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Dichloromethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Diethylphthalate	ug/l	0	0	None > LOD	No Analyses	No Analyses
Dimethylphthalate	ug/l	0	0	None > LOD	No Analyses	No Analyses
Di-N-Butyl Phthalate	ug/l	0	0	None > LOD	No Analyses	No Analyses
Di-N-Octyl Phthalate	ug/l	0	0	None > LOD	No Analyses	No Analyses
Hexachlorobenzene (HCB)	ug/l	0	0	None > LOD	No Analyses	No Analyses
Hexachlorobutadiene (HCBD)	ug/l	0	0	None > LOD	No Analyses	No Analyses
Hexachlorocyclopentadiene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Hexachloroethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Isophorone	ug/l	0	0	None > LOD	No Analyses	No Analyses
Isopropylbenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Methyl tert-butyl ether (MTBE)	ug/l	48	0	None > LOD	None > LOD	None > LOD
n-Butylbenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
n-Dibutyl phthalate (aq)	ug/l	0	0	None > LOD	No Analyses	No Analyses
n-Dioctyl phthalate (aq)	ug/l	0	0	None > LOD	No Analyses	No Analyses
Nitrobenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
n-nitrosodimethylamine	ug/l	0	0	None > LOD	No Analyses	No Analyses
N-Nitroso-Di-N-Propylamine	ug/l	0	0	None > LOD	No Analyses	No Analyses
n-propylbenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l	0	0	None > LOD	No Analyses	No Analyses
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/l	0	0	None > LOD	No Analyses	No Analyses
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l	0	0	None > LOD	No Analyses	No Analyses
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l	0	0	None > LOD	No Analyses	No Analyses

Parameter	Unit	No. Analyses	Analyses Above LOD		Concentration	
			No.	*%'age of Analyses*	*Range*	*Average**
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphenyl	ug/l	0	0	None > LOD	No Analyses	No Analyses
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l	0	0	None > LOD	No Analyses	No Analyses
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l	0	0	None > LOD	No Analyses	No Analyses
PCBs (vs Aroclor 1254) (aq)	ug/l	2	0	None > LOD	None > LOD	None > LOD
Pentachlorophenol (PCP)	ug/l	0	0	None > LOD	No Analyses	No Analyses
Propylbenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
sec-Butylbenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Styrene	ug/l	0	0	None > LOD	No Analyses	No Analyses
tert-Amyl methyl ether (TAME)	ug/l	0	0	None > LOD	No Analyses	No Analyses
tert-Butylbenzene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Tetrachloroethene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Tetrachloromethane (Carbon Tetra Chloride)	ug/l	0	0	None > LOD	No Analyses	No Analyses
trans-1,2-Dichloroethene	ug/l	0	0	None > LOD	No Analyses	No Analyses
trans-1,3-Dichloropropene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Tribromomethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Trichloroethene	ug/l	0	0	None > LOD	No Analyses	No Analyses
Trichlorofluoromethane	ug/l	0	0	None > LOD	No Analyses	No Analyses
Vinyl chloride	ug/l	0	0	None > LOD	No Analyses	No Analyses

Parameter	Unit	EQS	Analyses Above EQS		Additional Notes	CCW TL	Analyses Above CCW TL	
			No.	*%'age of Analyses*			*No.*	*%'age of Analyses*
General Parameters								
pH	pH Units	9	0	0.0%	EQS exceedances identified south of Llanwern	8.5	0	0.0%
Electrical Conductivity	uS/cm	-	No EQS			2000	0	0.0%
Alkalinity	mg CaCO3/l	-	No EQS			-	No TL	
Total Hardness (as CaCO3)	mg/l	-	No EQS			-	No TL	
Total Suspended Solids	mg/l	-	No EQS			250	1	1.4%
Biological Oxygen Demand	mg/l	5	11	14.9%	EQS to achieve "Good"	18	1	1.4%
Dissolved Oxygen	mg/l	-	No EQS			5	30	41.1%
Dissolved Oxygen (saturation)	%	60	9	81.8%	EQS to achieve "Good" Status under WFD	-	No TL	
Calcium (dissolved, filtered)	mg/l	-	No EQS			300	0	0.0%
Calcium (total, unfiltered)	mg/l	-	No EQS			300	0	0.0%
Chloride	mg/l	250	0	0.0%		300	0	0.0%
Cyanide	mg/l	1	No Analyses			-	No TL	
Ammoniacal Nitrogen (as N)	mg/l	0.6	16	21.6%	EQS to achieve "Good" Status under WFD	1	6	8.1%
Total Oxidised Nitrogen (as N)	mg/l	-	No EQS			2	18	24.3%
Nitrate (as NO3)	mg/l	-	No EQS			1	36	50.0%
Nitrite (as NO2)	mg/l	-	No EQS			1	1	1.4%
Sulphate	mg/l	400	0	0.0%		300	0	0.0%
Total Organic Carbon (dissolved)	mg/l	-	No EQS				No TL	
Orthophosphate (as P)	mg/l	0.12	32	60.4%	EQS to achieve "Good" Status under WFD	1	5	9.4%
Phosphorus (dissolved, filtered)	ug/l	-	No EQS			-	No TL	
Phosphorus (total, unfiltered)	ug/l	-	No EQS			-	No TL	
Metals (dissolved, filtered)**								
Arsenic	ug/l	50	0	0.0%		-	No TL	
Boron	ug/l	2000	No Analyses	#VALUE!		-	No TL	
Cadmium	ug/l	0.15	0	0.0%		5	0	0.0%
Chromium	ug/l	3.4	19	27.1%	Cr concentrations have been screened against EQS for Cr VI	-	No TL	
Copper	ug/l	43.5	0	0.0%	Bioavailable	-	No TL	
Lead	ug/l	1.2	3	4.3%		250	0	0.0%
Mercury	ug/l	0.07	0	0.0%		-	No TL	
Nickel	ug/l	4	2	2.9%		100	0	0.0%
Selenium	ug/l	-	No EQS			-	No TL	
Zinc	ug/l	41.5	0	0.0%	Bioavailable plus ambient	1000	0	0.0%
Magnesium	mg/l	-	No EQS			-	No TL	
Iron	mg/l	0.001	20	90.9%			No TL	
Metals (total, unfiltered)								
Arsenic	ug/l	50	0	0.0%		-	No TL	
Cadmium	ug/l	0.15	None > LOD	#VALUE!		5	None > LOD	
Chromium	ug/l	3.4	11	23.4%	Cr concentrations have been screened against EQS for Cr VI	-	No TL	
Copper	ug/l	43.5	0	0.0%	Bioavailable	-	No TL	
Lead	ug/l	1.2	16	34.0%		250	0	0.0%
Mercury	ug/l	0.07	0	0.0%		-	No TL	
Nickel	ug/l	4	4	8.5%		100	0	0.0%
Selenium	ug/l	-	No EQS			-	No TL	
Zinc	ug/l	41.5	5	10.6%	Bioavailable plus ambient	1000	0	0.0%
Magnesium	mg/l	-	No EQS				No TL	
Iron	mg/l	0.001	11	100.0%			No TL	
BTEX Compounds								
Sum of detected BTEX	ug/l	-	-			2000	None > LOD	
Benzene	ug/l	-	-			2000	None > LOD	
Ethylbenzene	ug/l	-	-			2000	None > LOD	
Toluene	ug/l	-	-			2000	None > LOD	
Methyl tertiary butyl ether (MTBE)	ug/l	-	-			2001	None > LOD	
Sum of detected Xylenes	ug/l	-	-			2000	None > LOD	
m,p-Xylene	ug/l	-	-			2000	None > LOD	
o-Xylene	ug/l	-	-			2000	None > LOD	
Petroleum Hydrocarbons								
Total Aliphatics & Aromatics >C5-35 (aq)	ug/l	-	-			2000	0	0.0%
TPH >C6-C8	ug/l	-	-			-	No TL	
TPH >C8-C10	ug/l	-	-			-	No TL	
TPH >C10-C16	ug/l	-	-			-	No TL	

Parameter	Unit	EQS	Analyses Above EQS		Additional Notes	CCW TL	Analyses Above CCW TL	
			No.	*%'age of Analyses*			*No.*	*%'age of Analyses*
TPH >C16-C24	ug/l	-	-			-	No TL	
TPH >C24-C40	ug/l	-	-			-	No TL	
Total Aliphatics >C12-C35 (aq)	ug/l	-	-			2000	0	0.0%
Aliphatics >C5-C6	ug/l	-	-			-	No TL	
Aliphatics >C6-C8	ug/l	-	-			-	No TL	
Aliphatics >C8-C10	ug/l	-	-			-	No TL	
Aliphatics >C10-C12	ug/l	-	-			-	No TL	
Aliphatics >C12-C16 (aq)	ug/l	-	-			-	No TL	
Aliphatics >C16-C21 (aq)	ug/l	-	-			-	No TL	
Aliphatics >C21-C35 (aq)	ug/l	-	-			-	No TL	
Total Aromatics >EC12-EC35 (aq)	ug/l	-	-			2000	0	0.0%
Aromatics >EC5-EC7	ug/l	-	-			-	No TL	
Aromatics >EC7-EC8	ug/l	-	-			-	No TL	
Aromatics >EC8-EC10	ug/l	-	-			-	No TL	
Aromatics >EC10-EC12	ug/l	-	-			-	No TL	
Aromatics >EC12-EC16 (aq)	ug/l	-	-			-	No TL	
Aromatics >EC16-EC21 (aq)	ug/l	-	-			-	No TL	
Aromatics >EC21-EC35 (aq)	ug/l	-	-			-	No TL	
Aromatics >EC21-EC35 (aq)	ug/l	-	-			-	No TL	
Aromatics >EC21-EC35 (aq)	ug/l	-	-			-	No TL	
GRO >C5-C12	ug/l	-	-			2000	None > LOD	
NVM, light petroleum extract	mg/l	-	-			2	No Analyses	#VALUE!
TPH / Oil & Greases	mg/l	-	-			2000	0	0.0%
Other Organic Compounds								
Phenols	mg/l	-	-					
Phenol	ug/l							
PAH, Total Detected USEPA 16 (aq)	ug/l	-	-					
Chrysene (aq)	ug/l	-	-					
Fluoranthene (aq)	ug/l	-	-					
Pyrene (aq)	ug/l	-	-					
Benzo(a)anthracene (aq)	ug/l	-	-					
Phenanthrene (aq)	ug/l	-	-					
Acenaphthene (aq)	ug/l	-	-					
Acenaphthylene (aq)	ug/l	-	-					
Benzo(a)pyrene (aq)	ug/l	0.00017	12	16.7%				
Benzo(b)fluoranthene (aq)	ug/l	0.017	8	11.1%				
Benzo(g,h,i)perylene (aq)	ug/l	-	-					
Fluorene (aq)	ug/l	-	-					
Indeno(1,2,3-cd)pyrene (aq)	ug/l	-	-					
Naphthalene (aq)	ug/l	2	1	1.4%				
Anthracene (aq)	ug/l	0.1	1	1.4%				
Benzo(k)fluoranthene (aq)	ug/l	0.017	6	8.3%				
Dibenzo(a,h)anthracene (aq)	ug/l	-	-					
1,1,1,2-Tetrachloroethane	ug/l							
1,1,1-Trichloroethane	ug/l							
1,1,2,2-Tetrachloroethane	ug/l							
1,1,2-Trichloroethane	ug/l							
1,1-Dichloroethane	ug/l							
1,1-Dichloroethene	ug/l							
1,1-Dichloropropene	ug/l							
1,2,3,6,7,8 HxCDD*	ng/l							
1,2,3-Trichlorobenzene	ug/l							
1,2,3-Trichloropropane	ug/l							
1,2,4-Trichlorobenzene	ug/l							
1,2,4-Trimethylbenzene	ug/l							
1,2-Dibromo-3-chloropropane	ug/l							
1,2-Dibromoethane	ug/l							
1,2-Dichlorobenzene	ug/l							
1,2-Dichloroethane	ug/l							
1,2-Dichloropropane	ug/l							
1,3,5-Trichlorobenzene	ug/l							
1,3,5-Trimethylbenzene	ug/l							
1,3-Dichlorobenzene	ug/l							
1,3-Dichloropropane	ug/l							
1,4-Dichlorobenzene	ug/l							
2,2-Dichloropropane	ug/l							
2,4,5-Trichlorophenol	ug/l							
2,4,6-Trichlorophenol	ug/l							
2,4-Dichlorophenol	ug/l							

Parameter	Unit	EQS	Analyses Above EQS		Additional Notes	CCW TL	Analyses Above CCW TL	
			No.	*%'age of Analyses*			*No.*	*%'age of Analyses*
2,4-Dimethylphenol	ug/l							
2,4-Dinitrotoluene	ug/l							
2,6-Dinitrotoluene	ug/l							
2-Chloronaphthalene	ug/l							
2-Chlorophenol	ug/l							
2-Chlorotoluene	ug/l							
2-Methyl-4,6-Dinitrophenol	ug/l							
2-Methylnaphthalene	ug/l							
2-Methylphenol	ug/l							
2-Nitroaniline	ug/l							
2-Nitrophenol	ug/l							
3-Nitroaniline	ug/l							
4-Bromophenyl Phenyl Ether	ug/l							
4-Chloro-3-Methylphenol	ug/l							
4-Chloroaniline	ug/l							
4-Chlorophenyl Phenyl Ether	ug/l							
4-Chlorotoluene	ug/l							
4-Isopropyltoluene	ug/l							
4-Methylphenol	ug/l							
4-Nitroaniline	ug/l							
4-Nitrophenol (aq)	ug/l							
Azobenzene	ug/l							
Bis(2-chloroethoxy)methane	ug/l							
Bis(2-chloroethyl)ether	ug/l							
Bis(2-chloroisopropyl)ether	ug/l							
Bis(2-ethylhexyl)phthalate	ug/l							
Bromobenzene	ug/l							
Bromochloromethane	ug/l							
Bromodichloromethane	ug/l							
Bromoform	ug/l							
Bromomethane	ug/l							
Butylbenzylphthalate	ug/l							
Carbazole	ug/l							
Carbon disulphide	ug/l							
Carbontetrachloride	ug/l							
Chlorobenzene	ug/l							
Chloroethane	ug/l							
Chloroethene	ug/l							
Chloroform	ug/l							
Chloromethane	ug/l							
cis-1,2-Dichloroethene	ug/l							
cis-1,3-Dichloropropene	ug/l							
Dibenzofuran	ug/l							
Dibromochloromethane	ug/l							
Dibromomethane	ug/l							
Dichlorodifluoromethane	ug/l							
Dichloromethane	ug/l							
Diethylphthalate	ug/l							
Dimethylphthalate	ug/l							
Di-N-Butyl Phthalate	ug/l							
Di-N-Octyl Phthalate	ug/l							
Hexachlorobenzene (HCB)	ug/l							
Hexachlorobutadiene (HCBD)	ug/l							
Hexachlorocyclopentadiene	ug/l							
Hexachloroethane	ug/l							
Isophorone	ug/l							
Isopropylbenzene	ug/l							
Methyl tert-butyl ether (MTBE)	ug/l							
n-Butylbenzene	ug/l							
n-Dibutyl phthalate (aq)	ug/l							
n-Dioctyl phthalate (aq)	ug/l							
Nitrobenzene	ug/l							
n-nitrosodimethylamine	ug/l							
N-Nitroso-Di-N-Propylamine	ug/l							
n-propylbenzene	ug/l							
Pcb-101 2,2',4,5,5' - Pentachlorobiphenyl	ug/l							
Pcb-118 2,3',4,4',5 - Pentachlorobiphenyl	ug/l							
Pcb-138 2,2',3,4,4',5' - Hexachlorobiphenyl	ug/l							
Pcb-153 2,2',4,4',5,5' - Hexachlorobiphenyl	ug/l							

Parameter	Unit	EQS	Analyses Above EQS		Additional Notes	CCW TL	Analyses Above CCW TL	
			No.	*%'age of Analyses*			*No.*	*%'age of Analyses*
Pcb-180 2,2',3,4,4',5,5' - Heptachlorobiphen	ug/l							
Pcb-28 2,4,4' - Trichlororbiphenyl	ug/l							
Pcb-52 2,2',5,5' - Tetrachlorobiphenyl	ug/l							
PCBs (vs Aroclor 1254) (aq)	ug/l							
Pentachlorophenol (PCP)	ug/l							
Propylbenzene	ug/l							
sec-Butylbenzene	ug/l							
Styrene	ug/l							
tert-Amyl methyl ether (TAME)	ug/l							
tert-Butylbenzene	ug/l							
Tetrachloroethene	ug/l							
Tetrachloromethane (Carbon Tetra Chloride	ug/l							
trans-1,2-Dichloroethene	ug/l							
trans-1,3-Dichloropropene	ug/l							
Tribromomethane	ug/l							
Trichloroethene	ug/l							
Trichlorofluoromethane	ug/l							
Vinyl chloride	ug/l							