

# A18.1

## Baseline Surface Water – Laboratory Summary July to August 2018

Sample ID	Details - SURFACE WATER						SW01	SW02	SW03	SW04	SW05	SW06	SW07	SW08	SW09	SW10	SW11	SW14	SW15	SW16	SW17					
							Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova
							18/11692, b1	18/11692, b1	18/11692, b1	18/11692, b1	18/12103, b1	18/11692, b1	18/11692, b4	18/11692, b1	18/11692, b1	18/11692, b4	18/11692, b2	18/11692, b2	18/11692, b2	18/11692, b2	18/11692, b2	18/11692, b2	18/11692, b4	18/11692, b2	18/11692, b4	
							Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Overall sampling period		Inland Waters						Other Surface Waters						25/07/2018 - 02/08/2018												
Parameters	Units	MDL	SWTV (AA-EQS)	SWTV (MAC-EQS)	SWTV (AA-EQS)	SWTV (MAC-EQS)																				
Aluminium	mg/l	0.02	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.025					
Antimony	mg/l	0.002	nv	nv	nv	nv	-	-	-	0.005	-	0.011	0.003	-	-	-	-	-	-	-	-					
Arsenic	mg/l	0.0025	0.025	nv	nv	0.020	-	-	-	-	-	0.0028	-	-	-	-	-	-	0.0063	0.0026	0.0029					
Barium	mg/l	0.003	nv	nv	nv	nv	0.023	0.022	0.02	0.013	0.04	0.04	0.041	0.043	0.043	0.089	0.074	0.051	0.102	0.086	0.087					
Beryllium	mg/l	0.0005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Boron	mg/l	0.012	nv	nv	nv	nv	0.021	0.025	1.208	2.451	0.032	0.031	0.03	0.29	0.03	0.059	0.029	0.018	0.037	0.034	0.031					
Cadmium	mg/l	0.0005	0.00008	0.00045	0.0002	0.00045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Calcium	mg/l	0.2	nv	nv	nv	nv	79.2	77.9	163.6	297.8	103.8	100.9	124	108.9	94	121.2	103.9	97.5	112.8	119.9	96					
Chromium	mg/l	0.0015	0.0034 <sup>1</sup> /0.0047 <sup>2</sup>	nv <sup>1</sup> /0.0032 <sup>2</sup>	0.0006 <sup>1</sup> /nv <sup>2</sup>	0.0032 <sup>1</sup> /nv <sup>2</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0019					
Cobalt	mg/l	0.002	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Copper	mg/l	0.007	0.005/0.03 <sup>3</sup>	nv	0.005	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Iron	mg/l	0.02	nv	nv	nv	nv	-	0.038	0.026	0.025	0.041	0.045	-	0.027	0.047	0.028	0.035	-	0.123	0.078	0.284					
Lead	mg/l	0.005	0.0012	0.014	0.0013	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Magnesium	mg/l	0.1	nv	nv	nv	nv	7.3	8.5	370.3	772	10.3	10.8	16.6	15.5	9.5	12.4	10.3	7.5	10.4	9.8	7.9					
Manganese	mg/l	0.002	nv	nv	nv	nv	0.03	0.019	0.024	0.016	0.049	0.038	0.016	0.013	0.07	0.042	0.07	0.015	0.829	0.116	0.175					
Mercury	mg/l	0.001	0.00005	0.00007	0.00005	0.00007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Molybdenum	mg/l	0.002	nv	nv	nv	nv	-	-	0.002	0.004	0.003	-	-	-	-	-	-	0.004	-	0.002	0.004					
Nickel	mg/l	0.002	0.004	0.034	0.0086	0.034	-	-	-	-	-	-	0.004	0.002	-	-	0.002	-	0.005	0.004	0.005					
Phosphorus	mg/l	0.005	nv	nv	nv	nv	0.034	0.038	0.061	0.036	0.096	0.116	0.028	0.05	0.106	0.046	0.073	0.018	0.555	0.268	0.442					
Potassium	mg/l	0.1	nv	nv	nv	nv	1.8	2.3	114.8	241.1	4.4	3.3	2.4	3.3	2.9	7	3.6	2.6	42.9	31.8	23.4					
Selenium	mg/l	0.003	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Sodium	mg/l	0.1	nv	nv	nv	nv	19.2	29.3	3142	6563	32.8	33.7	21	20.8	29.3	80.1	67.7	60	28.7	37	137.3					
Thallium	mg/l	0.003	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vanadium	mg/l	0.0015	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0019					
Zinc	mg/l	0.003	0.008/0.05/0.1 <sup>4</sup>	nv	0.04	nv	-	-	0.003	-	0.01	0.005	0.004	0.01	0.014	0.003	0.022	0.008	0.01	0.008	0.023					
<b>TPH CWG</b>																										
<b>Aliphatics</b>																										
>C10-C12	mg/l	0.005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>C12-C16	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>C16-C21	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>C21-C35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total aliphatics >C10-35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
<b>Aromatics</b>																										
>EC10-EC12	mg/l	0.005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>EC12-EC16	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>EC16-EC21	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>EC21-EC35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total aromatics >C10-35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total aliphatics and aromatics >C10-35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
<b>MTBE</b>																										
MTBE	mg/l	0.005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzene	mg/l	0.005	0.01	0.05	0.008	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Toluene	mg/l	0.005	0.01	nv	0.01	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylbenzene	mg/l	0.005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
m/p-Xylene	mg/l	0.005	0.01	nv	0.01	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
o-Xylene	mg/l	0.005	0.01	0.01	0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluoride	mg/l	0.3	0.5	nv	1.5	nv	-	-	0.5	0.8	-	-	-	-	0.3	-	-	-	-	-	-					
Sulphate as SO4	mg/l	0.5	nv	nv	nv	nv	26.1	28.7	900.9	1779.4	90.1	83.1	150.3	130.9	58.3	147.3	75.6	71	74.4	176.6	54.5					
Chloride	mg/l	0.3	nv	nv	nv	nv	32	54.5	5828.5	13706.6	52.5	55.7	38.5	38	46.8	139.8	129.7	89.5	48.5	42.4	274.4					
Ortho Phosphate as P	mg/l	0.03	0.075 <sup>5</sup>	0.075 <sup>5</sup>	nv	nv	-	-	-	-	0.05	0.06	-	-	0.06	-	-	-	0.47	0.18	0.29					
Total Ammonia as N	mg/l	0.03	nv	nv	nv	nv	0.05	0.03	0.26	0.59	0.09	0.08	0.12	0.12	0.05	0.09	0.06	-	1.37	0.14	12.38					
Total Alkalinity as CaCO3	mg/l	1	nv	nv	nv	nv	224	208	174	154	222	226	238	228	228	204	214	224	342	238	268					
BOD (Settled)	mg/l	1	nv	nv	nv	nv	-	-	-	2	-	-	-	1	-	-	2	-	2	2	3					
COD (Settled)	mg/l	7	nv	nv	nv	nv	-	-	335	327	12	15	-	-	-	16	11	16	48	27	31					
Kjeldahl Nitrogen	mg/l	0.5	nv	nv	nv	nv	1.2	1.6	1.5	2	1.1	1.7	1.5	1.5	2.1	2.1	1.6	1.8	3.2	2	15.5					
Total Suspended Solids	mg/l	10	nv	nv	nv	nv	23	-	29	44	-	10	-	101	-	28	-	-	-	13	25					
<b>Key</b>																										
Inland waters		Value exceeds the MAC-EQS Surface Water Threshold Value (SWTV used - Surface Water Regs SI No. 272 of 2009; Surface Water Amendment Regs SI No. 386 of 2015) for Inland Waters; <u>Underlined</u> exceeds the AA-EQS for same SWTVs, where available																								
Other surface waters		Value exceeds the MAC-EQS Surface Water Threshold Value (SWTV used - Surface Water Regs SI No. 272 of 2009; Surface Water Amendment Regs SI No. 386 of 2015) for Other Surface Waters; <u>Underlined</u> exceeds the AA-EQS for same SWTVs, where available																								
Notes		SWTV (AA-EQS) means that for each representative monitoring point within the waterbody, the arithmetic mean of the concentrations measured over a twelve month monitoring period does not exceed the standard. SWTV (MAC-EQS) means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard. Note 1 Chromium VI Note 2 Chromium III Note 3 - In the case of Copper, the value 5 applies where the water hardness measured in mg/l CaCO3 is less than or equal to 100; the value 30 applies where the water hardness exceeds 100 mg/l CaCO3. Note 4 - In the case of Zinc, the standard shall be 8 µg/l for water hardness with annual average values less than or equal to 10 mg/l CaCO3, 50 µg/l for water hardness greater than 10 mg/l CaCO3 and less than or equal to 100 mg/l CaCO3 and 100 µg/l elsewhere. Note 5 95th percentile Less than the MDL      nv      No value      nt      Not Tested      MDL      Laboratory Method Detection Limit (shown in mg/l)																								



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Sample ID	Details - SURFACE WATER						SW18	SW19	SW20	SW22	SW23	SW24	SW25	SW26	SW27	SW28	SW30	SW31	SW32	SW33	SW34	SW36					
							Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova	Exova
							18/11692, b2	18/11692, b2	18/11692, b2	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b3	18/11692, b4	18/11692, b4	18/11692, b4	18/11692, b4	18/11692, b5
							Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Overall sampling period		Inland Waters						Other Surface Waters						25/07/2018 - 02/08/2018													
Parameters	Units	MDL	SWTV (AA-EQS)	SWTV (MAC-EQS)	SWTV (AA-EQS)	SWTV (MAC-EQS)																					
Aluminium	mg/l	0.02	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Antimony	mg/l	0.002	nv	nv	nv	nv	0.003	0.003	-	-	0.006	0.003	-	-	-	-	-	-	0.002	-	-	-					
Arsenic	mg/l	0.0025	0.025	nv	0.020	nv	0.0027	-	-	0.0075	0.0113	0.0167	0.0093	-	-	-	-	0.0049	0.012	-	-	0.0025					
Barium	mg/l	0.003	nv	nv	nv	nv	0.066	0.044	0.056	0.058	0.026	0.053	0.067	0.062	0.042	0.043	0.051	0.029	0.006	0.053	0.05	0.051					
Beryllium	mg/l	0.0005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Boron	mg/l	0.012	nv	nv	nv	nv	0.036	0.014	0.033	0.044	0.02	0.018	0.036	0.031	0.038	0.042	0.095	1.388	3.591	0.031	0.112	0.026					
Cadmium	mg/l	0.0005	0.00008	0.00045	0.0002	0.00045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Calcium	mg/l	0.2	nv	nv	nv	nv	73.2	77.8	104.1	113	42.2	81.2	115.1	112.4	121	119.4	128.2	194.7	411.9	93.3	100.1	81.5					
Chromium	mg/l	0.0015	0.0034 <sup>1</sup> / 0.0047 <sup>2</sup>	nv <sup>1</sup> / 0.0032 <sup>2</sup>	0.0006 <sup>1</sup> / nv <sup>2</sup>	0.0032 <sup>1</sup> / nv <sup>2</sup>	0.0015	-	0.0018	-	-	-	-	-	-	-	-	-	-	-	-	0.0024					
Cobalt	mg/l	0.002	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Copper	mg/l	0.007	0.005 / 0.03 <sup>3</sup>	nv	0.005	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Iron	mg/l	0.02	nv	nv	nv	nv	0.095	0.055	0.051	0.04	0.046	-	-	0.023	0.038	0.037	-	-	-	0.022	0.027	-					
Lead	mg/l	0.005	0.0012	0.014	0.0013	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Magnesium	mg/l	0.1	nv	nv	nv	nv	6.2	7	8.2	7.1	3.3	5.8	7.3	7.4	12.3	11.4	29	496.8	1506	6.8	28.3	8.8					
Manganese	mg/l	0.002	nv	nv	nv	nv	0.043	0.05	0.049	0.085	0.004	0.003	0.008	0.037	0.018	0.011	0.022	0.03	0.008	0.046	0.082	0.068					
Mercury	mg/l	0.001	0.00005	0.00007	0.00005	0.00007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Molybdenum	mg/l	0.002	nv	nv	nv	nv	0.005	-	-	0.003	-	-	-	-	-	-	-	-	0.003	0.005	-	-					
Nickel	mg/l	0.002	0.004	0.034	0.0086	0.034	0.008	-	0.003	0.002	-	-	-	-	0.004	0.003	-	-	-	0.003	0.003	-					
Phosphorus	mg/l	0.005	nv	nv	nv	nv	0.173	0.358	0.204	0.172	0.027	0.007	0.03	0.059	0.512	0.425	0.048	0.149	0.024	0.106	0.182	0.174					
Potassium	mg/l	0.1	nv	nv	nv	nv	18.8	3.2	3.2	3.4	1.6	2.2	2.1	2.4	7.1	6.5	8.5	153.8	367.4	5.3	12.1	2.8					
Selenium	mg/l	0.003	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Sodium	mg/l	0.1	nv	nv	nv	nv	100.5	21.6	50.9	44.4	21.4	25	30.4	32.3	37.9	36.3	201.4	3967	12820	24.6	251	57.6					
Thallium	mg/l	0.003	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vanadium	mg/l	0.0015	nv	nv	nv	nv	-	-	-	0.0015	0.0024	0.002	0.0019	0.0017	-	0.0015	-	-	-	-	-	-					
Zinc	mg/l	0.003	0.008 / 0.05 / 0.1 <sup>4</sup>	nv	0.04	nv	0.036	0.007	0.018	0.006	0.021	0.019	0.003	0.004	0.008	0.008	0.011	0.007	0.005	0.007	0.013	0.017					
<b>TPH CWG</b>																											
<b>Aliphatics</b>																											
>C10-C12	mg/l	0.005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>C12-C16	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>C16-C21	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>C21-C35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total aliphatics >C10-35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
<b>Aromatics</b>																											
>EC10-EC12	mg/l	0.005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>EC12-EC16	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>EC16-EC21	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
>EC21-EC35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total aromatics >C10-35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total aliphatics and aromatics >C10-35	mg/l	0.01	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
MTBE	mg/l	0.005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzene	mg/l	0.005	0.01	0.05	0.008	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Toluene	mg/l	0.005	0.01	nv	0.01	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylbenzene	mg/l	0.005	nv	nv	nv	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
m/p-Xylene	mg/l	0.005	0.01	nv	0.01	nv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
o-Xylene	mg/l	0.005	0.01	0.01	0.01	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluoride	mg/l	0.3	0.5	nv	1.5	nv	-	-	-	-	-	-	-	-	-	-	-	0.3	1	-	-	-					
Sulphate as SO <sub>4</sub>	mg/l	0.5	nv	nv	nv	nv	69	53.2	46.5	91.5	32.4	51.9	47.7	53.6	84.9	83.5	167.9	989.6	2811.6	64.8	109.1	68.7					
Chloride	mg/l	0.3	nv	nv	nv	nv	196.6	31.5	88.7	60.9	33.4	37.3	48.1	52.1	63.8	61.3	366	7031.4	18910.7	39.5	421.2	92.7					
Ortho Phosphate as P	mg/l	0.03	0.075 <sup>5</sup>	0.075 <sup>5</sup>	nv	nv	0.07	0.23	0.12	0.12	-	-	-	0.44	0.36	-	-	0.1	-	0.05	0.12	0.12					
Total Ammonia as N	mg/l	0.03	nv	nv	nv	nv	0.37	4.08	0.06	0.31	0.09	0.08	0.09	0.1	0.09	0.12	0.16	0.71	0.43	0.28	0.58	0.12					
Total Alkalinity as CaCO <sub>3</sub>	mg/l	1	nv	nv	nv	nv	150	210	270	232	104	180	254	248	248	250	232	180	148	212	218	206					
BOD (Settled)	mg/l	1	nv	nv	nv	nv	2	3	1	-	-	-	-	-	-	-	-	167	-	1	-	1					
COD (Settled)	mg/l	7	nv	nv	nv	nv	18	18	11	36	30	28	24	26	41	30	50	221	383	14	18	15					
Kjeldahl Nitrogen	mg/l	0.5	nv	nv	nv	nv	2	5.6	2	2	1.5	1.5	1.4	1.5	2.1	1.6	1.7	2	1.7	2	3.1	2					
Total Suspended Solids	mg/l	10	nv	nv	nv	nv	-	-	23	12	-	-	-	-	28	91	-	28	91	-	-	14					
<b>Key</b>																											
Inland waters	Value exceeds the MAC-EQS Surface Water Threshold Value (SWTV used - Surface Water Regs SI No. 272 of 2009; Surface Water Amendment Regs SI No. 386 of 2015) for Inland Waters; <u>Underlined</u> exceeds the AA-EQS for same SWTVs, where available																										
Other surface waters	Value exceeds the MAC-EQS Surface Water Threshold Value (SWTV used - Surface Water Regs SI No. 272 of 2009; Surface Water Amendment Regs SI No. 386 of 2015) for Other Surface Waters; <u>Underlined</u> exceeds the AA-EQS for same SWTVs, where available																										
Notes	SWTV (AA-EQS) means that for each representative monitoring point within the waterbody, the arithmetic mean of the concentrations measured over a twelve month monitoring period does not exceed the standard. SWTV (MAC-EQS) means that for each representative monitoring point within the waterbody no measured concentration exceeds the standard. Note 1 Chromium VI Note 2 Chromium III Note 3 - In the case of Copper, the value 5 applies where the water hardness measured in mg/l CaCO <sub>3</sub> is less than or equal to 100, the value 30 applies where the water hardness exceeds 100 mg/l CaCO <sub>3</sub> . Note 4 - In the case of Zinc, the standard shall be 8 µg/l for water hardness with annual average values less than or equal to 10 mg/l CaCO <sub>3</sub> , 50 µg/l for water hardness greater than 10 mg/l CaCO <sub>3</sub> and less than or equal to 100 mg/l CaCO <sub>3</sub> and 100 µg/l elsewhere. Note 5 95th percentile Less than the MDL      nv      No value      nt      Not Tested      MDL      Laboratory Method Detection Limit (shown in mg/l)																										

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