

ALTAN SMOLT UNIT WATER QUALITY 2016



**Nitrite NO<sub>2</sub> (as N)** microgrammes/litre

DATE	WEEK No.	ALTAN LAKE	ALTAN EFF.	Treated Effluent (composite)	Treated Effluent (grab)	ALTAN Bridge
07-Jan	1	4.2	6.3	5.2	5.2	4.2
29-Feb	9	1.1	2.0	2.0	2.0	1.4
09-Mar	10	1.2	1.8	2.0	1.8	1.8
13-Apr	15	21.5	17.4	20.5	15.7	16.2
02-May	18	26.5	13.5	19.2	17.1	14.5
30-Jun	26	53.1	105.0	97.9	79.3	84.6
11-Jul	28	8.0	8.0	13.5	8.0	8.0
05-Aug	31	9.7	15.5	18.4	15.5	12.6
16-Sep	37	2.0	2.2	3.6	2.5	3.0
07-Oct	40	2.3	3.9	3.9	3.3	3.9
09-Nov	45	3.0	3.0	5.2	3.5	4.1
06-Dec	49	1.3	1.6	2.1	1.8	2.1

**Nitrate NO<sub>3</sub> (as N)** microgrammes/litre

DATE	WEEK No.	ALTAN LAKE	ALTAN EFF.	Treated Effluent (composite)	Treated Effluent (grab)	ALTAN Bridge
07-Jan	1	53.1	47.3	52.1	46.4	35.8
29-Feb	9	66.6	43.9	43.0	49.4	38.9
09-Mar	10	79.2	81.4	103.9	74.7	61.3
13-Apr	15	21.5	17.4	20.5	15.7	16.2
02-May	18	26.5	13.5	19.2	17.1	14.5
30-Jun	26	53.1	105.0	97.9	79.3	84.6
11-Jul	28	99.1	89.3	87.9	78.0	56.8
05-Aug	31	37.4	25.2	20.1	20.5	24.5
16-Sep	37	58.1	56.9	62.0	56.6	60.0
07-Oct	40	59.5	54.7	75.3	83.3	85.0
09-Nov	45	31.7	65.5	84.6	71.8	67.9
06-Dec	49	133.5	98.5	134.8	126.7	111.7

**Phosphate (as P)** microgrammes/litre

DATE	WEEK No.	ALTAN LAKE	ALTAN EFF.	Treated Effluent (composite)	Treated Effluent (grab)	ALTAN Bridge
07-Jan	1	14.6	279.8	47.5	86.6	10.5
29-Feb	9	11.8	117.3	64.5	49.0	5.6
09-Mar	10	9.3	108.1	56.6	66.9	27.8
13-Apr	15	0.0	113.6	109.4	88.3	50.2
02-May	18	1.5	50.7	48.6	31.5	27.2
30-Jun	26	0.4	15.4	19.0	30.7	8.9
11-Jul	28	28.7	201.9	165.4	124.9	5.6
05-Aug	31	0.0	207.7	165.5	147.4	0.0
16-Sep	37	14.2	163.2	95.7	69.9	61.9
07-Oct	40	40.2	235.1	50.0	32.4	32.4
06-Dec	49	5.7	58.7	35.1	37.1	35.1
13-Dec	50	2.7	76.6	37.6	39.7	33.5

**Orthophosphate (as P)** microgrammes/litre

DATE	WEEK No.	ALTAN LAKE	ALTAN EFF.	Treated Effluent (composite)	Treated Effluent (grab)	ALTAN Bridge
07-Jan	1	80.0	120.0	70.0	80.0	40.0
29-Feb	9	0.0	0.0	0.0	0.0	0.0
02-Mar	9	0.0	0.0	0.0	0.0	0.0
13-Apr	15	30.0	50.0	60.0	60.0	40.0
02-May	18	80.0	50.0	70.0	80.0	110.0
30-Jun	26	0.0	0.0	0.0	0.0	0.0
11-Jul	28	0.0	0.0	0.0	NS	0.0
05-Aug	28	130.0	90.0	120.0	90.0	80.0
16-Sep	37	19.0	28.0	10.0	17.0	13.0
07-Oct	40	30.0	30.0	23.0	36.0	18.0
09-Nov	45	0.0	0.0	0.0	0.0	0.0
06-Dec	49	0.0	0.0	0.0	0.0	0.0

**TOTAL AMMONIA (TAN)** microgrammes/litre

DATE	WEEK No.	ALTAN LAKE	ALTAN EFF.	Treated Effluent (composite)	Treated Effluent (grab)	ALTAN Bridge
07-Jan	1	25.9	188.1	218.0	170.0	42.9
29-Feb	9	14.6	135.1	159.4	149.5	14.6
09-Mar	10	35.3	180.0	175.3	158.2	69.4
13-Apr	15	12.0	219.7	279.3	221.9	124.5
02-May	18	7.4	217.5	248.8	195.2	147.1
30-Jun	26	23.7	589.1	383.4	546.4	201.3
11-Jul	28	13.3	597.2	1027.3	333.7	25.0
05-Aug	31	190.6	600.6	630.6	507.9	25.7
12-Aug	32	25.3	677.0	457.2	289.7	30.8
19-Aug	33	23.3	342.9	380.2	233.1	166.1
26-Aug	34	34.3	300.7	266.4	578.8	163.7
02-Sep	35	38.6	308.1	676.1	354.1	245.0
09-Sep	36	21.8	339.5	589.1	326.8	194.6
16-Sep	37	29.2	292.1	541.3	286.6	219.3
23-Sep	38	25.5	296.2	461.1	224.3	208.4
29-Sep	39	21.5	373.7	520.9	332.9	152.8
07-Oct	40	4.5	310.4	381.5	203.7	188.4
14-Oct	41	16.5	257.3	333.7	231.5	174.5
20-Oct	42	16.5	251.9	326.1	199.3	167.0
28-Oct	43	18.4	192.1	206.2	171.3	133.6
09-Nov	45	9.8	308.7	377.4	274.3	183.7
06-Dec	49	11.5	134.7	151.0	142.8	117.4