

Orange City Council
Spring Hill Sewage Treatment Plant
Beasley Road, Spring Hill
EPL 3686



Point 1: Final effluent quality

Sampling frequency			Monthly				
Date Sampled	Date Obtained	Date Published	pH pH Unit	BOD mg/L	TSS mg/L	Total N mg/L	Total P mg/L
Limit 100%ile			6.5 – 9.5				
19-Jan-21	03-Feb-21	22-Feb-21	8.21	2	6	1.0	3.13
09-Dec-20	18-Dec-20	22-Feb-21	9.21	2	15	1.2	1.94
24-Nov-20	02-Dec-20	22-Feb-21	8.54	20	20	1.0	2.10
27-Oct-20	05-Nov-20	25-Nov-20	8.49	3	20	1.5	3.06
22-Sep-20	01-Oct-20	25-Nov-20	7.70	2	<5	6.2	1.97
24-Aug-20	08-Sep-20	25-Nov-20	7.96	4	8	9.2	2.28
21-Jul-20	06-Aug-20	03-Sep-20	7.83	< 2	8	11.2	2.84
23-Jun-20	06-Jul-20	03-Sep-20	8.00	6	8	5.3	3.06
26-May-20	04-Jun-20	09-Jun-20	8.22	< 2	< 5	3.0	3.85
21-Apr-20	04-May-20	09-Jun-20	7.98	2	10	2.9	3.41
24-Mar-20	02-Apr-20	07-Apr-20	8.10	2	11	2.6	3.36
12-Feb-20	24-Feb-20	07-Apr-20	8.25	5	20	1.7	4.20
30-Jan-20	11-Feb-20	07-Apr-20	8.33	3	25	2.7	4.67
18-Dec-19	09-Jan-20	07-Apr-20	8.07	4	30	3.1	5.52
25-Nov-19	31-Oct-19	30-Jan-20	7.86	4	16	2.7	5.45
23-Oct-19	23-Sep-19	30-Jan-20	8.09	3	16	3.7	4.44
10-Sep-19	23-Sep-19	30-Jan-20	9.27	10	69	3.8	3.81
12-Aug-19	23-Aug-19	30-Jan-20	8.14	< 2	22	3.0	3.92
10-Jul-19	22-Jul-19	26-Jul-19	8.52	2	11	1.7	3.91
12-Jun-19	21-Jun-19	28-Jun-19	8.98	11	36	2.8	5.07
08-May-19	22-May-19	30-May-19	8.37	5	28	3.2	6.37
10-Apr-19	24-Apr-19	29-Apr-19	8.40	5	55	3.2	5.96
13-Mar-19	21-Mar-19	27-Mar-19	8.53	6	46	3.1	4.88
20-Feb-19	01-Mar-19	08-Mar-19	8.79	4	28	3.4	3.75
23-Jan-19	11-Feb-19	14-Feb-19	8.97	5	15	2.0	2.76
19-Dec-18	09-Jan-19	24-Jan-19	9.52	11	32	2.4	2.23
15-Dec-18	28-Dec-17	16-May-18	8.72	< 2	< 5	0.9	3.66
14-Nov-18	23-Nov-18	03-Dec-18	9.51	3	24	1.6	1.9
10-Oct-18	22-Oct-18	24-Oct-18	9.68	8	39	1.8	2.53
11-Sep-18	19-Sep-18	21-Sep-18	10.20	19	60	3.4	2.62
08-Aug-18	16-Aug-18	29-Aug-18	9.39	6	21	8	2.72
11-Jul-18	25-Jul-18	09-Aug-18	8.62	4	17	7.3	3.78
12-Jun-18	22-Jun-18	09-Aug-18	8.97	4	31	4.6	4.08
09-May-18	23-May-18	09-Aug-18	8.69	2	42	2.4	3.7
11-Apr-18	27-Apr-18	16-May-18	8.50	11	36	3	4.01
14-Mar-18	28-Mar-18	16-May-18	8.72	10	66	4.1	4.1
14-Feb-18	26-Feb-18	16-May-18	8.96	8	23	3.4	3.15
10-Jan-18	25-Jan-18	16-May-18	8.02	2	5	1	4.68
15-Nov-17	29-Nov-17	22-Dec-17	9.34	< 2	18	0.9	2.7
12-Oct-17	24-Oct-17	22-Dec-17	7.85	< 2	21	5.1	4.19

Sampling frequency			Monthly				
Date Sampled	Date Obtained	Date Published	pH pH Unit	BOD mg/L	TSS mg/L	Total N mg/L	Total P mg/L
Limit 100%ile			6.5 – 9.5				
13-Sep-17	29-Sep-17	22-Dec-17	9.21	3	8	8.1	3.22
15-Aug-17	31-Aug-17	22-Dec-17	8.93	< 2	< 5	13.6	3.57
06-Jul-17	12-Jul-17	27-Jul-17	8.69	2	12	8.62	3.02
08-Jun-17	22-Jun-17	06-Jul-17	8.66	< 2	< 5	5.1	2.56
02-May-17	18-May-17	01-Jun-17	7.39	< 2	< 5	1.9	3.14
03-Apr-17	11-Apr-17	25-Apr-17	8.07	< 2	18	1.6	4.04
07-Mar-17	16-Mar-17	30-Mar-17	8.28	4	23	1.7	4.25
07-Feb-17	15-Feb-17	01-Mar-17	8.07	4	32	1.6	3.67
04-Jan-17	18-Jan-17	01-Feb-17	7.85	< 2	17	1.5	4.19
07-Dec-16	16-Dec-16	30-Dec-16	8.10	3	10	1.2	5.02
01-Nov-16	09-Nov-16	23-Nov-16	9.27	< 2	8	1.8	1.77
10-Oct-16	18-Oct-16	01-Nov-16	8.88	< 2	8	5.4	1.1
07-Sep-16	19-Sep-16	03-Oct-16	9.06	5	17	7.5	1.36
02-Aug-16	09-Aug-16	01-Sep-16	7.92	< 2	< 5	0.9	1.03
05-Jul-16	18-Jul-16	01-Aug-16	8.04	6	48	8.3	1.52
01-Jun-16	10-Jun-16	24-Jun-16	8.39	< 2	10	4.2	2.29
03-May-16	10-May-16	24-May-16	8.16	< 2	15	1.4	4.46
11-Apr-16	26-Apr-16	10-May-16	8.17	< 2	8	1	4.21
01-Mar-16	14-Mar-16	28-Mar-16	8.12	< 2	32	1.7	4.49
02-Feb-16	18-Feb-16	03-Mar-16	8.11	3	25	2.6	6.07
05-Jan-16	14-Jan-16	28-Jan-16	8.78	12	34	4.2	4.14
01-Dec-15	09-Dec-15	18-Dec-15	8.14	< 2	6	1.1	6.52
03-Nov-15	23-Nov-15	07-Dec-15	8.71	< 2	12	1.7	3.57
06-Oct-15	16-Oct-15	30-Oct-15	8.29	4	16	5.0	4.21
01-Sep-15	16-Sep-15	25-Sep-15	8.22	< 2	7	14.7	4.16
04-Aug-15	14-Aug-15	28-Aug-15	8.18	< 2	< 5	14.9	3.73
02-Jul-15	10-Jul-15	24-Jul-15	8.64	3	< 5	1.4	6.7
02-Jun-15	11-Jun-15	25-Jun-15	8.46	< 2	13	4.2	5.29

Data table abbreviations	
BOD	Biological Oxygen Demand
pH	pH
Total N	Total Nitrogen
Total P	Total Phosphorus
TSS	Total Suspended Solids
mg/L	milligrams per litre
pH Unit	pH unit



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Site 8 and 9: Groundwater quality monitoring

Sampling frequency			6 monthly									
Date Sampled	Date Obtained	Date Published	Site	pH pH Unit	EC uS/cm	Oxidised mg/L	TKN mg/L	Total P mg/L	Chloride mg/L	Calcium mg/L	Magnesium mg/L	Sodium mg/L
22-Sep-20	28-Sep-20	25-Nov-20	EPA-08	6.55	265	0.79	0.2	0.02	42	8	5	42
22-Sep-20	28-Sep-20	25-Nov-20	EPA-09	6.63	192	0.16	0.1	0.02	33	6	5	28
16-Jun-20	22-Jun-20	3-Sep-20	EPA-08	7.61	280	0.42	< 0.1	0.02	31	17	10	20
16-Jun-20	22-Jun-20	3-Sep-20	EPA-09	6.6	87	2.7	0.10	0.03	6	3	2	10
24-Mar-20	5-Jun-20	9-Jun-20	EPA-08	6.89	94	*	*	*	*	3	2	10
24-Mar-20	5-Jun-20	9-Jun-20	EPA-09	7.02	289	*	*	*	*	*	*	20
10-Sep-19	23-Mar-19	30-Jan-20	EPA-08	7.49	276	< 0.01	< 0.1	0.02	21	16	9	22
10-Sep-19	23-Mar-19	30-Jan-20	EPA-09	6.91	98	1.39	0.1	0.03	7	3	3	11
13-Mar-19	21-Mar-19	27-Mar-19	EPA-08	7.24	260	< 0.01	< 0.1	0.73	24	16	8	23
13-Mar-19	21-Mar-19	27-Mar-19	EPA-09	6.41	99	0.89	< 0.1	< 0.01	8	4	3	13
12-Sep-18	19-Sep-18	21-Sep-18	EPA-08	6.82	278	0.02	0.20	0.8	25	15	8	22
12-Sep-18	19-Sep-18	21-Sep-18	EPA-09	6.17	90	2.4	0.50	0.08	6	3	2	9
11-Apr-18	16-Apr-18	16-May-18	EPA-08	7.14	285	0.52	0.10	0.19	26	16	9	20
11-Apr-18	16-Apr-18	16-May-18	EPA-09	6.62	90	0.57	< 0.1	0.05	8	3	2	12
13-Sep-17	29-Sep-17	22-Dec-17	EPA-08	7.32	296	0.24	0.10	0.12	31	16	8	25
7-Mar-17	16-Mar-17	30-Mar-17	EPA-09	7.07	256	0.95	0.50	1.24	34	15	9	18
7-Mar-17	16-Mar-17	30-Mar-17	EPA-09	7.15	115	1.75	0.20	0.12	10	3	3	15
7-Sep-16	19-Sep-16	3-Oct-16	EPA-08	6.92	270	1	0.20	< 0.01	40	10	5	31
7-Sep-16	19-Sep-16	3-Oct-16	EPA-09	6.88	208	< 0.01	0.20	0.09	26	6	5	24
1-Mar-16	14-Mar-16	10-May-16	EPA-08	6.86	274	0.93	0.10	0.03	42	18	12	17
1-Mar-16	14-Mar-16	10-May-16	EPA-09	6.82	87	2.58	0.60	0.12	7	3	2	10
1-Sep-15	16-Sep-15	30-Sep-15	EPA-08	6.86	254	1.24	0.20	0.02	32	8	5	32
1-Sep-15	16-Sep-15	30-Sep-15	EPA-09	6.71	353	2.35	0.40	0.04	49	8	7	53

* Sampling to be undertaken again in June 2020, as analytes not analysed for during March 2020 suite

Data table abbreviations	
Calcium	Calcium
Chloride	Chloride
EC	Electrical Conductivity
Magnesium	Magnesium

Oxidised	Nitrate and Nitrite
pH	pH
Sodium	Sodium
TKN	Total Kjeldahl Nitrogen
Total P	Total Phosphorus
mg/L	milligrams per litre
pH Unit	pH unit
uS/cm	Microsiemens per centimeter