WILLIAM D. COLEBURN
MAYOR

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BARBARA THOMPSON
CONSTANCE WYNN

TOWN OF BLACKSTONE

100 WEST ELM STREET
BLACKSTONE, VIRGINIA 23824
PHONE (434) 292-7251
FAX PHONE (434) 292-6560

RECEIVED

SEP 04 2008

DEQ SCRO

J. L. PALMORE
MANAGER & TREASURER

JOAN R. PALMORE
CLERK

CHARLES C. WELLS
FINANCIAL DIRECTOR

K. C. WALDEN, JR.
ATTORNEY

NICHOLAS C. KUZMIAK
CHIEF OF POLICE

September 3, 2008

Ms. Leah Revelle
Environmental Engineer
Department of Environmental Quality
South Central Regional Office
7705 Timberlake Road
Lynchburg, Virginia 24502

Re: VPDES Permit No. VA0005827 Additional Information

Dear Ms. Revelle:

Concerning your latter dated August 29, 2008 requesting additional information, we would like to submit the following information in support of our permit reapplication.

General Application Requirements:

1) We have included the signed "Authorization to Bill Applicant for a Public Notice".
2) As addressed in the permit reapplication package, all sludge volumes are pumped to the Town of Blackstone Waste Treatment Utility for treatment. All volumes of water and sludge are pumped to the WWTP in lieu of a discharge wherever possible. A detailed description of our sludge treatment is provided in the previously submitted O&M manual for the WTP Alum Lagoon. This manual will be reviewed for accuracy following permit reissuance and resubmitted. We feel any modifications would be minimal.

General Permit Processing Information:

1) There is no daily monitoring performed for temperature from this outfall. A discharge from this point source is seldom. When a discharge occurs, permitted parameters are sampled and analyzed. There are no processes in our treatment train that would alter the temperature from the raw water source other than possibly clearwell storage. All discharges would most likely be ambient temperatures as in raw water. We have included raw water temperatures measured from water entering the plant with this mailing. (Note: Attached information is not from a discharge but from drinking water production.)

2) We do not have daily hardness data for the discharge. As indicated above, a discharge is very seldom. We have included data from the drinking water process with this mailing such as, Alkalinity, Hardness, and pH. (Note: Attached information is not from a discharge but from drinking water production.)

If you have any additional questions or need more information, please feel free to contact me at 434-292-7251 or the Water Plant Supervisor, Ron Silverman, at 434-292-3172.

Sincerely,

J. Larry Palmore
Town Manager

AUTHORIZATION TO BILL APPLICANT FOR A PUBLIC NOTICE

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent shown below. The public notice will be published once a week for two consecutive weeks in:

The Courier – Record

Agent/Department to be billed: Mr. Larry Palmore
Town Manager
Town of Blackstone

Applicant's Address: 100 West Elm Street
Blackstone, VA 23824

Agent's Telephone No: (434) 292-7251

Authorizing Agent: _____
Signature

Permit No. VA0005827
Attn: Leah R. Revelle

JANUARY	2008															
	Temperature		Alkalinity			Hardness		pH								
								Raw			Applied/Basin Effluent			Finished		
DATE	Raw °C	Raw °F	Raw mg/L	Appl. (Basin Inf) mg/L	Finish-ed mg/L	Raw mg/L	Finish-ed mg/L	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
1	11.0	51.8	23	12	34	30	50	7.00	7.00	7.00	6.10	6.10	6.10	7.10	7.10	7.10
2	9.0	48.2	24	13	32	30	52	6.90	6.90	6.90	6.10	6.10	6.10	7.00	7.00	7.00
3	7.0	44.6	27	14	32	30	48	7.10	7.10	7.10	6.05	6.10	6.00	7.05	7.10	7.00
4	7.0	44.6	30	13	35	32	50	7.10	7.10	7.10	6.10	6.10	6.10	7.10	7.10	7.10
5	7.0	44.6	19	12	19	30	56	7.05	7.10	7.00	5.80	5.90	5.70	6.95	7.00	6.90
6	8.0	46.4	22	15	21	30	62	7.05	7.10	7.00	6.00	6.00	6.00	7.05	7.10	7.00
7	9.0	48.2	26	13	28	26	60	7.05	7.10	7.00	6.20	6.20	6.20	7.10	7.10	7.10
8	7.0	44.6	25	13	23	30	60	7.10	7.10	7.10	6.13	6.20	6.10	7.17	7.20	7.10
9	10.0	50.0	22	13	23	28	58	7.05	7.10	7.00	6.25	6.30	6.20	7.35	7.40	7.30
10	10.0	50.0	24	11	29	30	56	7.07	7.10	7.00	6.13	6.20	6.10	7.53	8.30	7.10
11	8.0	46.4	25	13	32	30	56	6.75	7.00	6.50	6.20	6.20	6.20	7.85	8.30	7.40
12	10.0	50.0	20	14	26	38	64	6.77	6.80	6.70	6.00	6.00	6.00	7.13	7.20	7.10
13	11.0	51.8	19	15	26	30	62	7.00	7.00	7.00	6.10	6.10	6.10	7.00	7.00	7.00
14	9.0	48.2	22	15	24	30	58	7.00	7.00	7.00	6.10	6.10	6.10	6.90	6.90	6.90
15	9.0	48.2	22	14	24	30	56	6.95	7.00	6.90	6.10	6.10	6.10	7.00	7.00	7.00
16	9.0	48.2	24	14	27	30	60	7.10	7.10	7.10	6.10	6.10	6.10	7.25	7.40	7.10
17	10.0	50.0	22	14	28	30	60	6.90	6.90	6.90	6.10	6.10	6.10	7.30	7.30	7.30
18	10.0	50.0	27	20	32	30	64	6.95	7.00	6.90	6.30	6.30	6.30	7.25	7.30	7.20
19	9.0	48.2	29	18	30	32	66	6.95	7.00	6.90	6.20	6.20	6.20	7.30	7.30	7.30
20	9.0	48.2	29	18	26	34	66	7.00	7.00	7.00	6.20	6.20	6.20	7.40	7.40	7.40
21	8.0	46.4	31	16	27	30	58	7.03	7.10	7.00	6.27	6.30	6.20	7.37	7.40	7.30
22	9.0	48.2	28	17	27	32	58	6.95	7.00	6.90	6.20	6.20	6.20	7.20	7.20	7.20
23	7.0	44.6	27	17	28	30	58	6.95	7.00	6.90	6.30	6.30	6.30	7.25	7.30	7.20
24	8.0	46.4	24	17	27	26	56	6.90	6.90	6.90	6.30	6.30	6.30	7.15	7.20	7.10
25	8.0	46.4	26	17	30	34	58	7.00	7.00	7.00	6.33	6.40	6.30	7.40	7.40	7.40
26	8.0	46.4	30	20	33	30	64	7.10	7.10	7.10	6.45	6.50	6.40	7.25	7.30	7.20
27	8.0	46.4	30	23	37	34	64	7.15	7.20	7.10	6.35	6.40	6.30	7.35	7.60	7.10
28	8.0	46.4	30	19	31	32	58	7.10	7.10	7.10	6.35	6.40	6.30	7.10	7.20	7.00
29	8.0	46.4	28	17	28	28	52	7.00	7.00	7.00	6.30	6.30	6.30	7.05	7.10	7.00
30	8.0	46.4	28	16	28	28	56	6.95	7.00	6.90	6.40	6.40	6.40	7.05	7.10	7.00
31	7.0	44.6	28	15	28	28	56	6.95	7.00	6.90	6.20	6.20	6.20	7.05	7.10	7.00
Total	266.0	1470.8	790	473	872	942	1802	216.92	217.90	215.90	191.72	192.30	191.20	223.00	225.40	220.90
Max	11.0	51.8	31	23	37	38	66	7.15	7.20	7.10	6.45	6.50	6.40	7.85	8.30	7.40
Min	7.0	44.6	19	11	19	26	48	6.75	6.80	6.50	5.80	5.90	5.70	6.90	6.90	6.90
Aver	8.6	47.4	25	15	28	30	58	7.00	7.03	6.96	6.18	6.20	6.17	7.19	7.27	7.13

FEBRUARY	2008															
	Temperature		Alkalinity			Hardness		pH								
								Raw			Applied/Basin Effluent			Finished		
DATE	Raw °C	Raw °F	Raw mg/L	Appl. (Basin Inf) mg/L	Finish-ed mg/L	Raw mg/L	Finish-ed mg/L	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
1	11.0	51.8	28	21	26	32	56	7.10	7.10	7.10	6.20	6.20	6.20	6.95	7.00	6.90
2	10.0	50.0	29	22	28	34	54	7.00	7.10	6.90	6.30	6.30	6.30	7.40	7.40	7.40
3	9.0	48.2	29	21	27	24	56	7.05	7.30	6.80	6.30	6.30	6.30	7.95	8.00	7.90
4	8.0	46.4	29	21	30	32	60	7.00	7.00	7.00	6.40	6.40	6.40	8.15	8.30	8.00
5	9.0	48.2	27	16	30	30	60	7.00	7.00	7.00	6.40	6.40	6.40	7.45	7.50	7.40
6	10.0	50.0	23	16	21	30	60	6.90	6.90	6.90	6.20	6.20	6.20	7.20	7.20	7.20
7	9.0	48.2	25	15	21	28	60	6.80	6.80	6.80	6.30	6.30	6.30	7.15	7.20	7.10
8	9.0	48.2	23	16	23	28	60	6.80	6.80	6.80	6.20	6.30	6.10	7.05	7.10	7.00
9	11.0	51.8	22	13	23	26	56	6.70	6.70	6.70	6.20	6.20	6.20	7.10	7.10	7.10
10	10.0	50.0	21	14	21	26	52	6.65	6.70	6.60	6.20	6.20	6.20	7.10	7.10	7.10
11	10.0	50.0	25	18	23	30	60	7.00	7.10	6.90	6.35	6.40	6.30	7.10	7.10	7.10
12	10.0	50.0	23	18	23	30	60	7.00	7.00	7.00	6.40	6.40	6.40	7.15	7.20	7.10
13	10.0	50.0	24	15	22	30	58	7.00	7.00	7.00	6.35	6.40	6.30	7.05	7.10	7.00
14	8.0	46.4	24	16	22	24	54	6.60	6.60	6.60	6.30	6.30	6.30	7.10	7.10	7.10
15	9.0	48.2	25	16	22	24	54	6.95	7.00	6.90	6.30	6.30	6.30	7.05	7.10	7.00
16	10.0	50.0	26	16	23	26	60	7.00	7.00	7.00	6.30	6.30	6.30	7.20	7.20	7.20
17	10.0	50.0	26	15	23	28	58	6.90	6.90	6.90	6.25	6.30	6.20	6.75	7.20	6.30
18	9.0	48.2	26	20	25	26	60	7.00	7.00	7.00	6.40	6.40	6.40	7.30	7.30	7.30
19	10.0	50.0	26	16	26	30	58	7.10	7.20	7.00	6.38	6.40	6.30	7.24	7.30	7.20
20	10.0	50.0	24	19	24	28	54	7.12	7.20	7.10	6.32	6.40	6.30	7.08	7.20	7.00
21	10.0	50.0	25	19	24	28	56	7.13	7.20	7.10	6.30	6.30	6.30	7.13	7.20	7.10
22	10.0	50.0	24	16	24	28	60	7.00	7.00	7.00	6.30	6.30	6.30	7.10	7.10	7.10
23	10.0	50.0	23	15	22	28	50	7.00	7.00	7.00	6.20	6.20	6.20	6.90	6.90	6.90
24	9.0	48.2	24	15	24	28	50	6.85	6.90	6.80	6.25	6.30	6.20	6.85	6.90	6.80
25	9.0	48.2	26	16	23	28	54	7.10	7.20	7.00	6.35	6.40	6.30	7.00	7.10	6.90
26	9.0	48.2	26	16	25	28	52	7.05	7.10	7.00	6.30	6.30	6.30	7.15	7.20	7.10
27	10.0	50.0	25	15	24	26	50	6.85	6.90	6.80	6.25	6.30	6.20	7.10	7.10	7.10
28	9.0	48.2	24	14	25	26	50	6.90	6.90	6.90	6.25	6.30	6.20	7.20	7.20	7.20
29	9.0	48.2	26	20	25	26	42	7.05	7.10	7.00	6.30	6.30	6.30	7.10	7.10	7.10
Total	277.0	1426.6	724	484	692	812	1614	201.60	202.70	200.60	182.55	183.10	182.00	208.05	209.50	206.70
Max	11.0	51.8	29	22	30	34	60	7.13	7.30	7.10	6.40	6.40	6.40	8.15	8.30	8.00
Min	8.0	46.4	21	13	21	24	42	6.60	6.60	6.60	6.20	6.20	6.10	6.75	6.90	6.30
Aver	9.6	49.2	25	17	24	28	56	6.95	6.99	6.92	6.29	6.31	6.28	7.17	7.22	7.13

MARCH	2008															
	Temperature		Alkalinity			Hardness		pH								
								Raw			Applied/Basin Effluent			Finished		
DATE	Raw °C	Raw °F	Raw mg/L	Appl. (Basin Inf) mg/L	Finish-ed mg/L	Raw mg/L	Finish-ed mg/L	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
1	9.0	48.2	25	17	26	22	42	7.05	7.10	7.00	6.25	6.30	6.20	7.05	7.10	7.00
2	10.0	50.0	26	16	24	22	46	7.10	7.10	7.10	6.20	6.20	6.20	7.00	7.00	7.00
3	10.0	50.0	33	25	30	28	48	7.05	7.10	7.00	6.45	6.50	6.40	7.00	7.00	7.00
4	11.0	51.8	30	20	27	28	50	6.95	7.00	6.90	6.30	6.30	6.30	7.10	7.20	7.00
5	11.0	51.8	26	15	26	24	44	7.05	7.10	7.00	6.20	6.20	6.20	7.10	7.10	7.10
6	11.0	51.8	15	16	24	20	48	6.50	6.60	6.40	6.04	6.25	5.50	7.00	7.40	6.80
7	12.0	53.6	25	23	26	24	48	6.57	6.70	6.30	6.00	6.30	5.60	7.07	7.30	6.60
8	12.0	53.6	16	12	17	20	64	6.20	6.40	6.00	5.35	5.60	5.10	6.55	6.60	6.50
9	13.0	55.4	18	15	17	18	58	6.60	6.60	6.60	5.35	5.40	5.30	6.75	6.80	6.70
10	12.0	53.6	23	21	24	48	60	6.83	6.90	6.80	6.40	6.50	6.30	6.97	7.20	6.80
11	12.5	54.5	24	15	30	48	60	6.68	6.80	6.40	6.15	6.40	5.90	7.63	8.30	6.80
12	12.0	53.6	17	16	26	20	66	6.70	6.70	6.70	6.10	6.10	6.10	8.07	8.10	8.00
13	12.0	53.6	17	17	19	22	60	6.70	6.70	6.70	6.10	6.10	6.10	7.10	7.20	7.00
14	12.0	53.6	20	14	20	18	58	7.00	7.10	6.90	5.95	6.10	5.80	6.90	6.90	6.90
15	12.0	53.6	20	16	28	22	60	6.70	6.80	6.60	6.13	6.40	5.80	7.38	7.70	7.20
16	14.0	57.2	25	20	31	26	60	6.85	6.90	6.80	6.30	6.30	6.30	7.40	7.40	7.40
17	14.0	57.2	21	17	24	30	60	6.80	6.90	6.70	6.10	6.10	6.10	7.60	7.70	7.50
18	14.0	57.2	22	16	23	26	58	7.10	7.10	7.10	6.05	6.10	6.00	7.30	7.40	7.20
19	14.0	57.2	22	17	20	20	52	7.10	7.10	7.10	6.05	6.10	6.00	7.00	7.00	7.00
20	14.0	57.2	20	16	22	20	54	7.03	7.20	6.90	6.30	6.50	6.10	7.30	7.40	7.20
21	14.0	57.2	23	16	30	26	58	7.07	7.10	7.00	6.20	6.20	6.20	7.83	7.90	7.80
22	14.0	57.2	24	17	26	22	60	6.95	7.00	6.90	6.25	6.30	6.20	7.70	7.90	
23	14.0	57.2	24	20	27	22	54	6.90	6.90	6.90	6.40	6.40	6.40	7.00	7.00	7.00
24	14.0	57.2	25	17	24	26	58	6.95	7.00	6.90	6.30	6.30	6.30	6.85	6.90	6.80
25	14.0	57.2	24	17	24	26	58	6.90	6.90	6.90	6.30	6.30	6.30	6.90	6.90	6.90
26	14.0	57.2	26	18	28	26	48	7.05	7.10	7.00	6.30	6.30	6.30	6.95	7.00	6.90
27	15.0	59.0	27	21	29	28	50	7.10	7.10	7.10	6.30	6.30	6.30	7.00	7.00	7.00
28	15.0	59.0	26	20	30	24	52	7.00	7.00	7.00	6.40	6.40	6.40	7.10	7.10	7.10
29	15.0	59.0	25	18	33	22	52	6.95	7.00	6.90	6.30	6.30	6.30	7.20	7.20	7.20
30	15.0	59.0	32	26	33	22	50	7.20	7.30	7.10	6.80	6.80	6.80	7.75	7.80	7.70
31	15.0	59.0	37	23	38	30	56	7.25	7.30	7.20	6.65	6.70	6.60	7.50	7.50	7.50
Total	400.5	1712.9	733	552	801	780	1692	213.88	215.60	211.90	191.96	194.05	189.40	223.03	226.00	212.60
Max	15.0	59.0	37	26	38	48	66	7.25	7.30	7.20	6.80	6.80	6.80	8.07	8.30	8.00
Min	9.0	48.2	15	12	17	18	42	6.20	6.40	6.00	5.35	5.40	5.10	6.55	6.60	6.50
Aver	12.9	55.3	24	18	26	25	55	6.90	6.95	6.84	6.19	6.26	6.11	7.19	7.29	7.09

APRIL				2008													
	Temperature		Alkalinity			Hardness		pH									
								Raw			Applied/Basin Effluent			Finished			
DATE	Raw °C	Raw °F	Raw mg/L	Appl. (Basin Inf) mg/L	Finish-ed mg/L	Raw mg/L	Finish-ed mg/L	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
1	15.0	59.0	37	22	36	58	56	7.20	7.20	7.20	6.55	6.60	6.50	7.45	7.50	7.40
2	16.0	60.8	30	20	28	50	44	6.90	7.00	6.80	6.30	6.30	6.30	7.20	7.20	7.20
3	14.0	57.2	30	20	26	50	48	6.90	6.90	6.90	6.25	6.30	6.20	7.05	7.10	7.00
4	15.0	59.0	21	14	25	22	44	7.00	7.10	6.90	6.20	6.20	6.20	7.05	7.10	7.00
5	15.0	59.0	22	14	25	20	48	6.90	6.90	6.90	6.30	6.30	6.30	7.20	7.20	7.20
6	15.0	59.0	24	15	25	30	50	6.85	6.90	6.80	6.25	6.30	6.20	7.45	7.50	7.40
7	14.0	57.2	28	23	33	26	58	7.00	7.00	7.00	6.55	6.60	6.50	7.35	7.40	7.30
8	15.0	59.0	29	22	35	28	58	7.00	7.00	7.00	6.55	6.60	6.50	7.40	7.40	7.40
9	14.0	57.2	21	13	24	20	56	6.75	6.80	6.70	6.00	6.00	6.00	7.20	7.20	7.20
10	15.0	59.0	30	21	31	28	60	7.05	7.10	7.00	6.40	6.40	6.40	7.35	7.40	7.30
11	16.0	60.8	29	20	31	24	62	7.00	7.00	7.00	6.40	6.40	6.40	7.40	7.40	7.40
12	16.0	60.8	30	15	23	32	56	6.80	6.80	6.80	6.10	6.10	6.10	7.40	7.50	7.20
13	16.0	60.8	28	15	25	20	56	6.75	6.80	6.70	6.05	6.10	6.00	7.30	7.30	7.30
14	17.0	62.6	31	21	33	22	58	7.00	7.00	7.00	6.35	6.40	6.30	7.40	7.40	7.40
15	17.0	62.6	33	24	31	26	60	7.00	7.00	7.00	6.35	6.40	6.30	7.35	7.40	7.30
16	17.0	62.6	31	24	35	26	58	7.10	7.10	7.10	6.50	6.50	6.50	7.25	7.30	7.20
17	17.0	62.6	32	24	31	24	60	7.05	7.10	7.00	6.50	6.50	6.50	7.20	7.20	7.20
18	17.0	62.6	30	21	30	24	60	7.05	7.10	7.00	6.35	6.40	6.30	7.20	7.20	7.20
19	17.0	62.6	31	22	31	24	56	7.00	7.00	7.00	6.40	6.50	6.30	7.20	7.20	7.20
20	17.0	62.6	28	22	23	22	60	6.90	6.90	6.90	6.20	6.20	6.20	7.20	7.20	7.20
21	17.0	62.6	33	23	30	26	62	7.00	7.00	7.00	6.43	6.50	6.40	7.37	7.40	7.30
22	17.0	62.6	32	24	31	24	50	7.03	7.10	7.00	6.40	6.40	6.40	7.23	7.30	7.20
23	18.0	64.4	31	21	28	24	56	6.80	6.80	6.80	6.30	6.30	6.30	7.15	7.20	7.10
24	18.0	64.4	32	20	27	26	56	6.90	6.90	6.90	6.25	6.30	6.20	7.20	7.20	7.20
25	18.0	64.4	34	23	32	28	60	7.05	7.10	7.00	6.35	6.40	6.30	7.30	7.30	7.30
26	18.0	64.4	31	19	28	24	60	6.90	6.90	6.90	6.30	6.30	6.30	7.20	7.20	7.20
27	19.0	66.2	31	22	32	24	60	6.90	6.90	6.90	6.30	6.30	6.30	7.20	7.20	7.20
28	19.0	66.2	32	34	36	30	64	7.00	7.00	7.00	6.50	6.50	6.50	7.30	7.30	7.30
29	19.0	66.2	30	25	40	40	62	7.03	7.10	7.00	6.50	6.50	6.50	7.35	7.40	7.30
30	18.0	64.4	33	28	35	24	62	7.00	7.00	7.00	6.40	6.40	6.40	7.25	7.30	7.20
Total	496.0	1852.8	889	626	896	846	1700	208.81	209.50	208.20	190.28	191.00	189.60	218.15	218.90	217.30
Max	19.0	66.2	37	34	40	58	64	7.20	7.20	7.20	6.55	6.60	6.50	7.45	7.50	7.40
Min	14.0	57.2	21	13	23	20	44	6.75	6.80	6.70	6.00	6.00	6.00	7.05	7.10	7.00
Aver	16.5	61.8	30	21	30	28	57	6.96	6.98	6.94	6.34	6.37	6.32	7.27	7.30	7.24

MAY				2008													
	Temperature		Alkalinity			Hardness		pH									
								Raw			Applied/Basin Effluent			Finished			
DATE	Raw °C	Raw °F	Raw mg/L	Appl. (Basin Inf) mg/L	Finish-ed mg/L	Raw mg/L	Finish-ed mg/L	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
1	18.0	64.4	34	26	37	24	66	6.80	6.80	6.80	6.25	6.30	6.20	7.30	7.40	7.20
2	19.0	66.2	29	22	31	26	60	6.80	6.80	6.80	6.15	6.20	6.10	7.25	7.30	7.20
3	19.0	66.2	23	16	33	22	58	6.80	6.80	6.80	6.10	6.10	6.10	7.20	7.20	7.20
4	20.0	68.0	24	15	32	22	56	6.80	6.80	6.80	6.00	6.00	6.00	7.20	7.20	7.20
5	20.0	68.0	28	15	26	26	58	6.80	6.80	6.80	6.10	6.20	6.00	6.95	7.00	6.90
6	20.0	68.0	29	21	30	26	60	6.90	6.90	6.90	6.15	6.20	6.10	7.05	7.10	7.00
7	19.0	66.2	28	17	32	32	58	6.83	6.90	6.80	6.20	6.20	6.20	7.20	7.30	7.10
8	20.0	68.0	28	16	33	22	54	6.92	7.00	6.90	6.15	6.20	6.10	7.35	7.50	7.30
9	21.0	69.8	31	21	30	24	56	6.95	7.00	6.90	6.30	6.40	6.20	7.30	7.30	7.30
10	20.0	68.0	19	15	34	22	52	6.60	6.70	6.50	6.25	6.30	6.20	7.35	7.40	7.30
11	20.0	68.0	19	17	32	16	52	6.50	6.50	6.50	6.10	6.10	6.10	7.35	7.40	7.30
12	19.0	66.2	18	14	36	22	66	6.50	6.50	6.50	6.10	6.10	6.10	7.40	7.40	7.40
13	17.0	62.6	19	13	35	24	64	6.90	6.90	6.90	6.10	6.20	6.00	7.45	7.50	7.40
14	18.0	64.4	18	12	29	22	70	6.57	6.60	6.50	6.07	6.20	6.00	7.73	7.90	7.50
15	18.0	64.4	18	13	28	18	74	6.50	6.50	6.50	6.30	6.30	6.30	7.30	7.30	7.30
16	18.0	64.4	21	14	33	18	66	6.85	7.10	6.50	6.00	6.10	5.90	7.82	8.50	7.50
17	18.0	64.4	20	16	29	10	60	6.80	6.80	6.80	6.00	6.00	6.00	7.50	7.50	7.50
18	18.0	64.4	20	19	26	24	62	6.75	6.80	6.70	6.10	6.10	6.10	7.40	7.50	7.30
19	20.0	68.0	24	18	31	22	76	6.75	6.80	6.70	6.20	6.20	6.20	7.20	7.20	7.20
20	20.0	68.0	27	18	25	28	70	6.75	6.80	6.70	6.20	6.20	6.20	7.05	7.10	7.00
21	20.0	68.0	25	20	29	26	64	6.80	6.80	6.80	6.20	6.30	6.10	7.10	7.10	7.10
22	19.0	66.2	28	24	28	26	66	6.80	6.80	6.80	6.40	6.40	6.40	7.20	7.20	7.20
23	20.0	68.0	31	14	27	22	66	6.95	7.00	6.90	6.15	6.20	6.10	7.35	7.40	7.30
24	20.0	68.0	28	18	28	22	60	6.90	7.00	6.80	6.10	6.10	6.10	7.40	7.50	7.30
25	20.0	68.0	26	18	30	20	60	6.90	6.90	6.90	6.20	6.20	6.20	7.20	7.20	7.20
26	20.0	68.0	30	15	28	26	62	6.80	6.80	6.80	6.20	6.20	6.20	7.20	7.20	7.20
27	22.0	71.6	30	19	30	24	62	6.90	6.90	6.90	6.15	6.20	6.10	7.15	7.20	7.10
28	22.0	71.6	30	17	28	24	66	6.80	6.80	6.80	6.20	6.20	6.20	7.20	7.20	7.20
29	21.0	69.8	32	24	26	28	60	6.70	6.70	6.70	6.20	6.20	6.20	7.10	7.10	7.10
30	22.0	71.6	31	19	28	26	58	7.05	7.10	7.00	6.20	6.20	6.20	7.05	7.10	7.00
31	21.0	69.8	29	26	34	22	52	7.00	7.00	7.00	6.30	6.30	6.30	7.10	7.10	7.10
Total	609.0	2088.2	793	550	935	716	1914	210.67	211.60	209.70	191.12	192.10	190.20	225.40	227.30	223.90
Max	22.0	71.6	34	26	37	32	76	7.05	7.10	7.00	6.40	6.40	6.40	7.82	8.50	7.50
Min	17.0	62.6	18	12	25	10	52	6.50	6.50	6.50	6.00	6.00	5.90	6.95	7.00	6.90
Aver	19.6	67.4	26	18	30	23	62	6.80	6.83	6.76	6.17	6.20	6.14	7.27	7.33	7.22

JUNE			2008														
	Temperature		Alkalinity			Hardness		pH									
								Raw			Applied/Basin Effluent			Finished			
DATE	Raw °C	Raw °F	Raw mg/L	Appl. (Basin Inf) mg/L	Finish-ed mg/L	Raw mg/L	Finish-ed mg/L	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
1	22.0	71.6	29	19	29	24	58	7.00	7.00	7.00	6.40	6.40	6.40	7.10	7.10	7.10
2	22.0	71.6	30	18	29	26	54	6.80	6.80	6.80	6.40	6.40	6.40	7.20	7.20	7.20
3	22.0	71.6	33	21	31	24	58	6.90	6.90	6.90	6.40	6.40	6.40	7.20	7.20	7.20
4	25.0	77.0	32	22	34	26	58	7.15	7.20	7.10	6.35	6.40	6.30	7.30	7.30	7.30
5	25.0	77.0	34	18	34	24	54	7.40	7.40	7.40	6.35	6.40	6.30	7.30	7.40	7.20
6	23.0	73.4	33	18	33	30	58	7.10	7.10	7.10	6.35	6.40	6.30	7.50	7.50	7.50
7	27.0	80.6	28	17	37	26	52	7.30	7.30	7.30	6.20	6.20	6.20	7.40	7.40	7.40
8	27.0	80.6	28	18	29	21	50	7.30	7.30	7.30	6.20	6.20	6.20	7.30	7.30	7.30
9	25.0	77.0	34	17	26	26	48	7.05	7.10	7.00	6.30	6.30	6.30	7.30	7.30	7.30
10	26.0	78.8	34	19	23	26	50	7.00	7.00	7.00	6.30	6.30	6.30	6.90	7.00	6.80
11	26.0	78.8	34	16	26	24	48	7.00	7.00	7.00	6.30	6.30	6.30	7.00	7.00	7.00
12	26.0	78.8	33	16	28	26	48	7.00	7.00	7.00	6.30	6.30	6.30	7.15	7.20	7.10
13	25.0	77.0	33	16	32	26	48	7.00	7.00	7.00	6.30	6.30	6.30	7.50	7.60	7.40
14	28.0	82.4	32	15	29	30	46	7.33	7.40	7.30	6.20	6.20	6.20	7.20	7.30	7.10
15	27.0	80.6	30	14	27	28	48	7.35	7.40	7.30	6.20	6.20	6.20	7.20	7.20	7.20
16	26.0	78.8	31	16	30	28	44	7.04	7.10	7.00	6.30	6.30	6.30	7.13	7.20	7.10
17	24.0	75.2	33	17	29	28	46	7.23	7.30	7.20	6.33	6.40	6.30	7.23	7.30	7.20
18	26.0	78.8	36	19	30	28	46	7.10	7.10	7.10	6.40	6.40	6.40	7.25	7.30	7.20
19	25.0	77.0	36	19	28	28	42	7.05	7.10	7.00	6.30	6.30	6.30	7.15	7.20	7.10
20	26.0	78.8	37	21	28	28	44	7.35	7.40	7.30	6.45	6.50	6.40	7.00	7.00	7.00
21	26.0	78.8	34	18	28	26	46	7.33	7.40	7.30	6.30	6.30	6.30	7.17	7.20	7.10
22	26.0	78.8	34	18	30	26	46	7.40	7.40	7.40	6.30	6.30	6.30	7.20	7.20	7.20
23	24.0	75.2	39	19	31	26	46	7.00	7.00	7.00	6.30	6.30	6.30	7.27	7.30	7.20
24	26.0	78.8	38	19	30	26	48	7.07	7.10	7.00	6.30	6.30	6.30	7.17	7.20	7.10
25	26.0	78.8	38	20	30	30	44	7.10	7.10	7.10	6.30	6.30	6.30	7.20	7.20	7.20
26	26.0	78.8	39	19	30	28	46	7.10	7.10	7.10	6.30	6.30	6.30	7.17	7.20	7.10
27	-	-	38	22	32	28	50	7.40	7.40	7.40	6.30	6.30	6.30	7.10	7.10	7.10
28	27.0	80.6	32	18	30	21	50	7.40	7.40	7.40	6.30	6.30	6.30	7.10	7.10	7.10
29	27.0	80.6	32	19	30	26	48	7.40	7.40	7.40	6.30	6.30	6.30	7.10	7.10	7.10
30	26.0	78.8	38	21	31	28	46	7.15	7.30	7.00	6.30	6.30	6.30	7.25	7.30	7.20
Total	737.0	2254.6	1010	544	889	792	1470	214.81	215.50	214.20	189.33	189.60	189.10	216.03	216.90	215.10
Max	28.0	82.4	39	22	37	30	58	7.40	7.40	7.40	6.45	6.50	6.40	7.50	7.60	7.50
Min	22.0	71.6	28	14	23	21	42	6.80	6.80	6.80	6.20	6.20	6.20	6.90	7.00	6.80
Aver	25.4	77.7	34	18	30	26	49	7.16	7.18	7.14	6.31	6.32	6.30	7.20	7.23	7.17

JULY	2008															
	Temperature		Alkalinity			Hardness		pH								
								Raw			Applied/Basin Effluent			Finished		
DATE	Raw °C	Raw °F	Raw mg/L	Appl. (Basin Inf) mg/L	Finish-ed mg/L	Raw mg/L	Finish-ed mg/L	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
1	27.0	80.6	39	21	34	30	46	6.95	7.00	6.90	6.30	6.30	6.30	7.20	7.20	7.20
2	24.0	75.2	39	20	31	26	44	7.30	7.30	7.30	6.30	6.30	6.30	7.15	7.20	7.10
3	26.0	78.8	32	19	31	26	44	7.25	7.30	7.20	6.30	6.30	6.30	7.25	7.30	7.20
4	26.0	78.8	41	28	35	36	50	7.15	7.20	7.10	6.40	6.40	6.40	7.35	7.40	7.30
5	26.0	78.8	36	20	39	26	48	7.30	7.30	7.30	6.40	6.40	6.40	7.30	7.30	7.30
6	27.0	80.6	36	21	35	26	42	7.30	7.30	7.30	6.30	6.30	6.30	7.05	7.10	7.00
7	27.0	80.6	36	20	32	24	44	7.30	7.30	7.30	6.30	6.30	6.30	7.05	7.10	7.00
8	28.0	82.4	38	20	33	26	42	7.35	7.40	7.30	6.30	6.30	6.30	7.25	7.30	7.20
9	25.0	77.0	42	20	33	24	42	7.30	7.30	7.30	6.30	6.30	6.30	7.30	7.30	7.30
10	26.0	78.8	41	19	34	26	48	7.20	7.30	7.10	6.30	6.30	6.30	7.23	7.30	7.10
11	26.0	78.8	38	20	39	26	44	7.07	7.10	7.00	6.13	6.20	6.10	7.07	7.10	7.00
12	25.0	77.0	35	20	36	22	42	7.20	7.20	7.20	6.10	6.10	6.10	7.00	7.00	7.00
13	26.0	78.8	33	17	36	24	42	7.20	7.20	7.20	6.10	6.10	6.10	7.00	7.00	7.00
14	26.0	78.8	33	17	29	24	40	7.13	7.20	7.10	6.13	6.20	6.10	6.80	7.00	6.60
15	26.0	78.8	33	17	34	24	40	7.07	7.10	7.00	6.10	6.10	6.10	6.93	7.00	6.90
16	26.0	78.8	34	19	32	20	40	7.03	7.10	7.00	6.10	6.10	6.10	7.03	7.10	7.00
17	25.0	77.0	33	19	33	24	44	7.03	7.20	6.90	6.13	6.20	6.10	7.13	7.30	7.00
18	25.0	77.0	33	20	34	24	44	7.10	7.10	7.10	6.15	6.20	6.10	7.15	7.30	7.00
19	25.0	77.0	32	21	38	24	42	7.10	7.10	7.10	6.20	6.20	6.20	7.30	7.30	7.30
20	25.0	77.0	33	20	40	24	44	7.00	7.10	6.90	6.20	6.20	6.20	7.25	7.30	7.20
21	27.0	80.6	39	21	41	26	50	7.35	7.40	7.30	6.25	6.30	6.20	7.50	7.60	7.40
22	27.0	80.6	34	18	40	26	44	7.25	7.30	7.20	6.15	6.20	6.10	7.30	7.30	7.30
23	27.0	80.6	42	22	38	22	40	7.30	7.30	7.30	6.20	6.20	6.20	7.10	7.10	7.10
24	26.0	78.8	34	21	32	22	36	7.05	7.10	7.00	6.10	6.10	6.10	6.90	7.00	6.80
25	27.0	80.6	40	22	34	20	38	7.30	7.30	7.30	6.15	6.20	6.10	6.95	7.00	6.90
26	26.0	78.8	37	24	29	26	46	7.20	7.20	7.20	6.10	6.10	6.10	7.10	7.20	7.00
27	27.0	80.6	37	24	32	26	44	7.20	7.30	7.10	6.30	6.30	6.30	7.25	7.30	7.20
28	27.0	80.6	38	22	32	24	46	7.20	7.20	7.20	6.30	6.30	6.30	7.20	7.20	7.20
29	26.0	78.8	46	31	41	28	50	7.15	7.20	7.10	6.35	6.40	6.30	7.15	7.20	7.10
30	26.0	78.8	43	22	39	28	44	7.35	7.40	7.30	6.30	6.30	6.30	7.15	7.20	7.10
31	27.0	80.6	43	28	37	20	44	7.25	7.30	7.20	6.25	6.30	6.20	7.20	7.30	7.10
Total	810.0	2450.0	1148	650	1081	774	1354	222.93	224.10	221.80	192.99	193.50	192.60	221.59	223.30	219.90
Max	28.0	82.4	46	31	41	36	50	7.35	7.40	7.30	6.40	6.40	6.40	7.50	7.60	7.40
Min	24.0	75.2	32	17	29	20	36	6.95	7.00	6.90	6.10	6.10	6.10	6.80	7.00	6.60
Aver	26.1	79.0	37	21	35	25	44	7.19	7.23	7.15	6.23	6.24	6.21	7.15	7.20	7.09

AUGUST								2008								
	Temperature		Alkalinity			Hardness		pH								
								Raw			Applied/Basin Effluent			Finished		
DATE	Raw °C	Raw °F	Raw mg/L	Appl. (Basin Inf) mg/L	Finish-ed mg/L	Raw mg/L	Finish-ed mg/L	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
1	27.0	80.6	32	19	31	26	44	7.10	7.10	7.10	6.20	6.20	6.20	7.10	7.10	7.10
2	27.0	80.6	33	21	29	26	44	7.20	7.20	7.20	6.20	6.20	6.20	7.20	7.20	7.20
3	26.0	78.8	33	24	27	22	40	7.17	7.20	7.10	6.23	6.30	6.20	6.73	6.90	6.60
4	27.0	80.6	42	31	38	30	48	7.10	7.10	7.10	6.40	6.40	6.40	7.20	7.20	7.20
5	27.0	80.6	43	28	39	30	44	7.15	7.20	7.10	6.45	6.50	6.40	7.20	7.20	7.20
6	27.0	80.6	45	33	40	30	48	7.15	7.20	7.10	6.45	6.50	6.40	7.30	7.30	7.30
7	26.0	78.8	45	31	41	48	32	7.20	7.20	7.20	6.45	6.50	6.40	7.35	7.40	7.30
8	26.0	78.8	45	34	43	30	50	7.15	7.20	7.10	6.45	6.50	6.40	7.30	7.30	7.30
9	27.0	80.6	31	19	32	30	50	7.45	7.50	7.40	6.20	6.20	6.20	7.30	7.30	7.30
10	27.0	80.6	32	19	31	30	50	7.30	7.30	7.30	6.30	6.30	6.30	7.30	7.30	7.30
11	27.0	80.6	35	21	36	26	60	7.30	7.30	7.30	6.30	6.30	6.30	7.40	7.50	7.30
12	25.0	77.0	33	21	37	24	44	7.30	7.30	7.30	6.30	6.30	6.30	7.43	7.50	7.40
13	26.0	78.8	34	26	32	30	48	7.30	7.40	7.20	6.30	6.30	6.30	7.15	7.20	7.10
14	26.0	78.8	32	26	33	26	48	7.30	7.30	7.30	6.30	6.30	6.30	7.10	7.10	7.10
15	30.0	86.0	32	26	32	26	48	7.30	7.30	7.30	6.30	6.30	6.30	7.20	7.20	7.20
16	26.0	78.8	32	20	32	28	46	7.30	7.30	7.30	6.30	6.30	6.30	7.20	7.20	7.20
17	27.0	80.6	32	20	32	30	46	7.40	7.40	7.40	6.30	6.30	6.30	7.20	7.20	7.20
18	25.0	77.0	34	22	36	24	42	7.30	7.30	7.30	6.30	6.30	6.30	7.45	7.50	7.40
19	25.0	77.0	34	20	32	26	40	7.30	7.30	7.30	6.30	6.30	6.30	7.20	7.20	7.20
20	28.0	82.4	30	20	32	24	46	7.40	7.40	7.40	6.30	6.30	6.30	7.20	7.20	7.20
21	28.0	82.4	30	20	32	24	46	7.30	7.30	7.30	6.30	6.30	6.30	7.20	7.20	7.20
22	25.0	77.0	41	30	38	30	50	7.25	7.30	7.20	6.50	6.50	6.50	7.15	7.20	7.10
23	27.0	80.6	35	19	32	26	44	7.30	7.30	7.30	6.30	6.30	6.30	7.10	7.10	7.10
24	26.0	78.8	34	20	33	28	46	7.30	7.30	7.30	6.30	6.30	6.30	7.15	7.20	7.10
25	25.0	77.0	41	27	36	32	36	7.30	7.30	7.30	6.50	6.50	6.50	7.00	7.00	7.00
26	25.0	77.0	43	27	35	49	42	7.23	7.30	7.20	6.40	6.50	6.30	7.10	7.10	7.10
27	25.0	77.0	41	27	36	30	50	7.13	7.20	7.10	6.37	6.40	6.30	7.07	7.10	7.00
28	26.0	78.8	29	28	32	30	50	7.30	7.30	7.30	6.30	6.30	6.30	7.00	7.00	7.00
29	26.0	78.8	29	27	30	30	50	7.30	7.30	7.30	6.30	6.30	6.30	7.00	7.00	7.00
30	26.0	78.8	29	29	29	32	48	7.30	7.30	7.30	6.30	6.30	6.30	7.05	7.10	7.00
31	27.0	80.6	33	25	30	34	48	7.30	7.30	7.30	6.30	6.30	6.30	7.05	7.10	7.00
Total	818.0	2464.4	1093	757	1046	911	1428	225.18	225.70	224.70	196.20	196.60	195.80	222.38	223.10	221.70
Max	30.0	86.0	45	34	43	49	60	7.45	7.50	7.40	6.50	6.50	6.50	7.45	7.50	7.40
Min	25.0	77.0	29	19	27	22	32	7.10	7.10	7.10	6.20	6.20	6.20	6.73	6.90	6.60
Aver	26.4	79.5	35	24	34	29	46	7.26	7.28	7.25	6.33	6.34	6.32	7.17	7.20	7.15