



Environmental
Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Re: Erie County
Kelleys Island
Quarry Condominiums
NPDES Permit

October 4, 2011

Mr. Wayne Neuman, President
Quarry Condominium Association
111 West Lakeshore Drive
Kelleys Island, Ohio 43438

Dear Mr. Neuman:

On August 10, 2011, an inspection was made of the wastewater treatment facilities serving the condominiums, Captain's Corner, Portside Marina, and Casino. Mr. Derrick Chennault, your operator, was also present and we reviewed numerous deficiencies and what steps need to be taken to improve plant operations.

Three high priority items were identified which must be addressed:

- 1) Your NPDES permit was renewed last December, and contained a twelve month schedule of compliance to meet final effluent ammonia limits and also rebuild the surface sand filters. Failure to comply with compliance schedule dates will result in escalated enforcement action.
- 2) The pipe between the equalization tank and old plant is partially separated at the 90 degree joint and has been leaking raw sewage which is draining towards the pond. This must be repaired.
- 3) Move a malfunctioning electrical junction box located inside the Portside pump station wet well to an exterior location. The faulty box prevents the startup of pump No. 2, and in the event of pump No.1 failure, all three businesses will be without service.

Other secondary issues which also need to be addressed:

- 4) Provide a non-potable water source and hose bib to allow cleaning of the upflow clarifier.

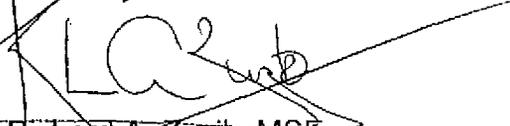
Mr. Wayne Neuman, President
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- 5) Due to power fluctuation on the island, the newest plant addition experiences periodic outages. The electrical system needs to be reviewed; the weak point identified and upgraded as needed.
- 6) A long standing problem has been the elevated water level in the clarifier of the original plant, which at times submerges the outlet weir. Apparently the outlet pipe elevation error was made at the time of the original installation. This should be corrected.

Until several items are addressed, operations will remain challenging. Please notify me of pending actions to meet the compliance schedule. Be aware that violation of the schedule of compliance will subject you to enforcement action from this agency.

Please find enclosed our inspection report. If you have any questions, please call me at (419) 373-3020 or email at rick.zuzik@epa.state.oh.us.

Sincerely,



Richard A. Zuzik, MSE
Division of Surface Water

/lr

pc: Erie County Health Department
Eastwood Environmental
BSW:NWDO.File/white

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION

NPDES Permit No. 2PR 00082
 Facility Name Quarry Condos Expiration Date 11-30-15
 Facility Address 111 W. Lakeshore Date 8-10-11 Time 10⁰⁰ am
~~City~~ Kelleys Island county Erie Township -
 Name and Address of Owner Condo Assn, Wayne Neuman, Pres
 Person Contacted Derrick Chennault, Operator Owner Phone (419) 557-1199
 Flow: Design 29,000 GPD Present _____ GPD (metered - estimated)
 Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 75° Cloudy
 OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No. - Effluent Short Circuiting Contact Tank

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

2. Effect of effluent on Receiving Stream Name: _____

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

3. a. Plant has _____ excellent _____ good / fair _____ poor operation
 b. Plant has _____ excellent _____ good / fair _____ poor maintenance
 c. Sand filters have _____ excellent _____ good _____ fair _____ poor maintenance

d. Not operating at expected efficiency due to:

Disinfection: (Required May 1 thru Oct. 31)

(1) _____ hydraulic overload	IN	OUT	
(2) _____ organic/solids overload	<u>/</u>	_____	Chlorination Tablets Dechlorination Tablets Ultraviolet (U.V.)
(3) _____ personnel inefficiency	_____	_____	
(4) _____ equipment failure	_____	_____	
(5) _____ wastes			
(6) <u>Sand filters need rebuilt</u>			

Yes No (6-1-11 - 8/28/11)

On-site log ✓

4. _____ Compliance with NPDES Permit

Periodic Violations Y N Parameters: e. coli, ammonia

Chronic Violations _____

5. / Adequate plant safety

6. / Operation and Maintenance Service

Name Castwood Env.

Frequency of Visits _____

Facility Name: Quarry Condos

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency
	3	Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
	1	Flow Equalization / flow splitter	in
Aeration Equipment		Plant Timer <u> </u> Y <u> </u> N Motor / Blower Unit	Cycle Time:
Secondary Treatment		Aeration Tank	Color: <u>Brown</u> Adequate Aeration Y <input checked="" type="checkbox"/> N
Final Settling	3 plants	Clarifier	
		Sludge Return	In <input checked="" type="checkbox"/> Out
		Surface Skimmer	In <input checked="" type="checkbox"/> Out
		Fixed Media Clarifier	
Tertiary-Treatment	2	Surface Sand Filter	Need rebuilt, ^{Short Circuit Ends} contact Tank
		Polishing Pond	
		Other	
Disinfection	1	Contact Tank	Turbid
	1	Chlorine Tube Feeder	IN
	1	Dechlorination Tube Feeder	IN
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps	2	Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling	3	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Get New Data

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00082*FD	August 2011	001	31648	E. coli	30D Conc	126	313.049	8/1/2011
2PR00082*FD	August 2011	001	31648	E. coli	7D Conc	284	2000.	8/1/2011
2PR00082*FD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	6.56	7/1/2011
2PR00082*FD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	6.56	7/1/2011
2PR00082*FD	July 2011	001	31648	E. coli	30D Conc	126	210.858	7/1/2011
2PR00082*FD	July 2011	001	31648	E. coli	7D Conc	284	750.	7/15/2011