



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
Bowling Green, OH 43402-9398

TELE (419) 352-8461 FAX (419) 352-8468
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

Re: Marion County
Prospect WWTP
NPDES Permit

December 10, 2008

Mayor and Council
Village of Prospect
139 North Main Street
Prospect, Ohio 43342

Dear Mayor and Council:

On November 19, 2008, Mr. Julio Perez, Mr. Wen-Tong Lin, and Mr. Jason Ko conducted a Compliance Inspection of your wastewater treatment plant. Mr. Ken Blue was present and provided information regarding the operation of the facility.

At the time of the inspection, all major treatment components were in service. The mixed liquor in the "new" oxidation ditch was a brown color. The final discharge from the plant was visually clear. However, we did not collect effluent samples to determine the quality of the discharge during the visit.

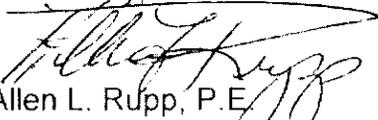
We noted that the plant receives excessive flow during rain events caused by stormwater infiltration/inflow (I/I) in the collection system. Therefore, we strongly recommend that the village start investigating the I/I problems throughout the entire collection system. The findings and recommendations from smoke testing and video inspections should be incorporated into a comprehensive rehabilitation program with the goal of minimizing the I/I in the collection system. Elimination of large sources of clean water infiltration could help delay another costly treatment plant expansion.

Our review of your discharge monitoring reports (9/1/2007 to 10/31/2008) indicates some effluent violations. Please refer to the enclosed violation table. Your existing National Pollutant Discharge Elimination System (NPDES) permit (2PA00041*HD) will expire on July 31, 2010. In order to receive authorization to discharge beyond the expiration date, you need to submit a renewal NPDES permit application to our office no later than 180 days prior to the expiration date of your NPDES permit.

Mayor and Council
December 10, 2008
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Our completed inspection report is included for your review. If you have any questions, please call Mr. Ko at 419-373-3021.

Yours truly,



Allen L. Rupp, P.E.
Division of Surface Water

/llr

pc: Ken Blue, Village Administrator
DSW-NWDO-File
ec: Wen-Tong Lin, Ohio EPA-DEFA
Julio Perez, Ohio EPA-DEFA

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PA00041*HD	December 2007	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	5.43	12/15/2007
2PA00041*HD	December 2007	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	6.20687	12/15/2007
2PA00041*HD	December 2007	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	4.21679	12/22/2007
2PA00041*HD	January 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	3.745	1/1/2008
2PA00041*HD	January 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	5.55	1/1/2008
2PA00041*HD	January 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	2.7	4.3109	1/1/2008
2PA00041*HD	January 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	6.6	1/8/2008
2PA00041*HD	January 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	11.3163	1/8/2008
2PA00041*HD	February 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	3.38333	2/1/2008
2PA00041*HD	February 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	2.7	3.50338	2/1/2008
2PA00041*HD	February 2008	001	00530	Total Suspended Solids	7D Qty	16.3	17.7138	2/8/2008
2PA00041*HD	February 2008	001	80082	CBOD 5 day	7D Qty	13.6	14.9886	2/8/2008
2PA00041*HD	February 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	4.52815	2/15/2008
2PA00041*HD	February 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	5.05	2/22/2008
2PA00041*HD	February 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	4.22425	2/22/2008
2PA00041*HD	March 2008	001	00530	Total Suspended Solids	30D Qty	10.9	25.0907	3/1/2008
2PA00041*HD	March 2008	001	00530	Total Suspended Solids	7D Qty	16.3	55.5865	3/1/2008
2PA00041*HD	March 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	2.7	2.7054	3/1/2008
2PA00041*HD	March 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	4.84397	3/1/2008
2PA00041*HD	March 2008	001	80082	CBOD 5 day	30D Qty	9.1	12.4715	3/1/2008
2PA00041*HD	March 2008	001	80082	CBOD 5 day	7D Qty	13.6	23.8227	3/1/2008
2PA00041*HD	March 2008	001	00530	Total Suspended Solids	7D Qty	16.3	29.0612	3/15/2008
2PA00041*HD	April 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	4.32909	4/1/2008
2PA00041*HD	June 2008	001	00530	Total Suspended Solids	7D Qty	16.3	36.3151	6/1/2008

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
2PA00041	OH0047902	2008/11/18	C	S	P

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Prospect WWTP State Route 203 South Prospect, OH 43342	9:45 A.M.	12/1/2005
	Exit Time 11:00 A.M.	Permit Expiration Date 7/31/2010

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Mr. Ken Blue, Village Administrator	(740) 494-2223

Name, Address and Title of Responsible Official	Phone Number
Mayor & Council Village of Prospect 139 N. Main Street Prospect, OH 43342	(740) 494-2115

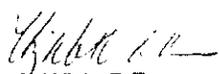
Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<u>S</u> Permit	<u>S</u> Flow Measurement	<u>--</u> Pretreatment
<u>S</u> Records/Reports	<u>S</u> Laboratory	<u>S</u> Compliance Schedules
<u>S</u> Operations & Maintenance	<u>S</u> Effluents	<u>S</u> Self-Monitoring Program
<u>S</u> Facility Site Review	<u>S</u> Sludge Storage/Disposal	<u>-</u> Other

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

- * Current NPDES permit will expire on 7/31/2010
- * WWTP effluent was clear during our inspection
- * WWTP improvements completed in May 2007
- * Recommend the village to start investigating the Infiltration/Inflow (I/I) in the sewer collection system
- * cursory review of your Discharge Monitoring Reports (9/1/2007 to 10/31/2008) indicated some effluent violations


12/9/08
 _____, Ohio EPA, _____ Northwest District Office
 Name(s) and Signature(s) of Inspector(s) Date


11/24/08
 _____, Ohio EPA, _____ Northwest District Office
 Name and Signature of Reviewer Date

Sections E thru K: Complete on all inspections as appropriate. N/A - Not Applicable N/E - Not Evaluated

Section E: Permit Verification

	Yes	No	N/A	N/E
INSPECTION OBSERVATIONS VERIFY THE PERMIT				
(a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	<u>X</u>	___	___	
(b) CORRECT NAME AND LOCATION OF RECEIVING WATERS	<u>X</u>	___	___	
(c) PRODUCT(S) AND PRODUCTION RATES CONFORM WITH PERMIT APPLICATION (INDUSTRIES)	___	___	<u>X</u>	
(d) FLOWS AND LOADINGS CONFORM WITH NPDES PERMIT PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	
(e) TREAT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	
(f) NEW TREATMENT PROCESS(ES) ADDED SINCE LAST INSPECTION	___	<u>X</u>	___	
(g) NOTIFICATION GIVEN TO STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES	<u>X</u>	___	___	
(h) ALL DISCHARGES ARE PERMITTED	<u>X</u>	___	___	
(i) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT	<u>X</u>	___	___	

COMMENTS/STATUS:

Section F: Compliance Schedules/Violations

	Yes	No	N/A	N/E
(a) ANY SIGNIFICANT VIOLATIONS SINCE THE LAST INSPECTION	___	<u>X</u>	___	
(b) PERMITTEE IS TAKING ACTIONS TO RESOLVE VIOLATIONS	___	___	<u>X</u>	
(c) PERMITTEE HAS COMPLIANCE SCHEDULE	___	___	<u>X</u>	
(d) COMPLIANCE SCHEDULE CONTAINED IN <u>N/A</u>	___	___	<u>X</u>	
(e) PERMITTEE IS MEETING COMPLIANCE SCHEDULE	___	___	<u>X</u>	

COMMENTS/STATUS:

Section G: Operation and Maintenance

TREATMENT WORKS:

	Yes	No	N/A	N/E
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED				
(a) STANDBY POWER AVAILABLE GENERATOR <u>X</u> DUAL FEED <u> </u>	<u>X</u>	<u> </u>	<u> </u>	
(b) ADEQUATE ALARM SYSTEM AVAILABLE FOR POWER OR EQUIPMENT FAILURES	<u>X</u>	<u> </u>	<u> </u>	
(c) ALL TREATMENT UNITS IN SERVICE OTHER THAN BACKUP UNITS	<u>X</u>	<u> </u>	<u> </u>	
(d) SUFFICIENT OPERATING STAFF PROVIDED # SHIFTS <u>1</u> DAYS/WEEK <u>5</u>	<u>X</u>	<u> </u>	<u> </u>	
(e) OPERATOR HOLDS UNEXPIRED LICENSE OF CLASS REQUIRED BY PERMIT CLASS: <u>III</u>	<u>X</u>	<u> </u>	<u> </u>	
(f) ROUTINE AND PREVENTIVE MAINTENANCE SCHEDULED/PERFORMED ON TIME	<u>X</u>	<u> </u>	<u> </u>	
(g) ANY MAJOR EQUIPMENT BREAKDOWN SINCE LAST INSPECTION	<u> </u>	<u>X</u>	<u> </u>	
(h) OPERATION AND MAINTENANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	<u> </u>	<u> </u>	
(i) ANY PLANT BYPASSES SINCE LAST INSPECTION	<u> </u>	<u>X</u>	<u> </u>	
(j) REGULATORY AGENCY NOTIFIED OF BYPASSES <u> </u> ON MORS <u> </u> 800 NO.	<u>X</u>	<u> </u>	<u> </u>	
(k) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED SINCE LAST INSPECTION	<u> </u>	<u>X</u>	<u> </u>	

COLLECTION SYSTEM:

	Yes	No	N/A	N/E
(a) PERCENT COMBINED SYSTEM <u>0</u> %				
(b) ANY COLLECTION SYSTEM OVERFLOWS SINCE LAST INSPECTION (CSO <u> </u> SSO <u> </u>)	<u> </u>	<u>X</u>	<u> </u>	
(c) REGULATORY AGENCY NOTIFIED OF OVERFLOWS (SSOs)	<u> </u>	<u> </u>	<u>X</u>	
(d) CSO O AND M PLAN PROVIDED AND IMPLEMENTED	<u> </u>	<u> </u>	<u>X</u>	
(e) CSOs MONITORED AND REPORTED IN ACCORDANCE WITH PERMIT	<u> </u>	<u> </u>	<u>X</u>	
(f) PORTABLE PUMPS USED TO RELIEVE SYSTEM	<u> </u>	<u>X</u>	<u> </u>	
(g) LIFT STATION ALARM SYSTEMS PROVIDED AND MAINTAINED	<u>X</u>	<u> </u>	<u> </u>	
(h) ARE LIFT STATIONS EQUIPPED WITH PERMANENT STANDBY POWER OR EQUIVALENT	<u>X</u>	<u> </u>	<u> </u>	
(i) IS THERE AN INFLOW INFILTRATION PROBLEM (SEPARATE SEWER SYSTEM) OR WERE THERE ANY MAJOR REPAIRS TO COLLECTION SYSTEM SINCE LAST INSPECTION	<u>X</u>	<u> </u>	<u> </u>	
(j) ANY COMPLAINTS RECEIVED SINCE LAST INSPECTION OF BASEMENT FLOODING	<u> </u>	<u>X</u>	<u> </u>	
(k) ARE ANY PORTIONS OF THE SEWER SYSTEM AT OR NEAR CAPACITY	<u> </u>	<u>X</u>	<u> </u>	

COMMENTS/STATUS:

Treatment Works:

(d) weekends on part-time basis

Collection System:

(i) Inflow/infiltration problems noted & rehabilitation of sewer collection system is strongly recommended

(j) Although the north side of town is prone to flooding

Section H: Sludge Management

(a) SLUDGE MANAGEMENT PLAN (SMP)
SUBMITTED DATE _____ APPROVAL # _____ NOT SUBMITTED _____ N/A

	Yes	No	N/A	N/E
(b) SLUDGE MANAGEMENT PLAN CURRENT	_____	_____	_____	_____
(c) SLUDGE ADEQUATELY DISPOSED (METHOD: _____)	_____	_____	_____	_____
(d) IF SLUDGE IS INCINERATED, WHERE IS ASH DISPOSED OF _____	_____	_____	_____	_____
(e) IS SLUDGE DISPOSAL CONTRACTED (NAME: _____)	_____	_____	_____	_____
(f) HAS AMOUNT OF SLUDGE GENERATED CHANGED SIGNIFICANTLY SINCE LAST INSPECTION	_____	_____	_____	_____
(g) ADEQUATE SLUDGE STORAGE PROVIDED AT PLANT	_____	_____	_____	_____
(h) LAND APPLICATION SITES MONITORED AND INSPECTED PER SMP	_____	_____	_____	_____
(i) RECORDS KEPT IN ACCORDANCE WITH STATE AND FEDERAL LAW	_____	_____	_____	_____
(j) ANY COMPLAINTS RECEIVED IN LAST YEAR REGARDING SLUDGE	_____	_____	_____	_____
(k) IS SLUDGE ADEQUATELY PROCESSED (DIGESTION, DEWATERING, PATHOGEN CONTROL)	_____	_____	_____	_____

COMMENTS/STATUS:

*Refer to our November 18, 2008 correspondence

Section I: Self-Monitoring Program

Part 1. Flow measurement

	Yes	No	N/A	N/E
(a) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED & MAINTAINED	<u>X</u>	_____	_____	_____
TYPE OF DEVICE: _____ PARSHALL FLUME <u>X</u> ULTRASONIC & WEIR _____ WEIR _____ CALCULATED FROM INFLUENT _____ OTHER (Specify <u>magnate-influent</u>)				
(b) CALIBRATION FREQUENCY ADEQUATE (Date of last calibration <u>4/07</u>)	<u>X</u>	_____	_____	_____
(c) SECONDARY INSTRUMENTS (totalizers, recorders, etc.) PROPERLY OPERATED AND MAINTAINED	<u>X</u>	_____	_____	_____
(d) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOWS	<u>X</u>	_____	_____	_____
(e) ACTUAL FLOW DISCHARGED IS MEASURED	<u>X</u>	_____	_____	_____
(f) FLOW MEASURING EQUIPMENT INSPECTION FREQUENCY: <u>X</u> DAILY _____ WEEKLY _____ MONTHLY _____ OTHER				

COMMENTS/STATUS:

(b) Recommend annual calibration

Part 2. Sampling

	Yes	No	N/A	N/E
(a) SAMPLING LOCATION(S) ARE AS SPECIFIED BY PERMIT	<u>X</u>	___	___	___
(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT	<u>X</u>	___	___	___
(c) PERMITTEE USES REQUIRED SAMPLING METHOD	<u>X</u>	___	___	___
(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE	<u>X</u>	___	___	___
(i) SAMPLES REFRIGERATED DURING COMPOSITING	<u>X</u>	___	___	___
(ii) PROPER PRESERVATION TECHNIQUES USED	<u>X</u>	___	___	___
(iii) CONTAINERS AND SAMPLE HOLDING TIMES PRIOR TO ANALYSES CONFORM WITH 40 CFR 136.3	<u>X</u>	___	___	___
(e) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g., continuous monitoring instrumentation, calibration and maintenance records)	<u>X</u>	___	___	___
(f) ADEQUATE RECORDS MAINTAINED OF SAMPLING DATE, TIME, EXACT LOCATION, ETC.	<u>X</u>	___	___	___

COMMENTS/STATUS:

Part 3. Laboratory

	Yes	No	N/A	N/E
GENERAL				
(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED (40 CFR 136.3)	<u>X</u>	___	___	___
(b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED	___	___	<u>X</u>	___
(c) ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY PERMIT	___	<u>X</u>	___	___
(d) IF (c) IS YES, ARE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT	___	___	<u>X</u>	___
(e) COMMERCIAL LABORATORY USED	<u>X</u>	___	___	___
(1) PARAMETERS ANALYZED BY COMMERCIAL LAB <u>oil & grease, metals, ammonia, sludge & Fecal</u>				
(2) LAB NAME: <u>Ginosko</u>				
QUALITY CONTROL/QUALITY ASSURANCE				
(f) QUALITY ASSURANCE MANUAL PROVIDED AND MAINTAINED	___	___	___	<u>X</u>
(g) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT	___	___	___	<u>X</u>
(h) ADEQUATE RECORDS MAINTAINED	___	___	___	<u>X</u>
(i) RESULTS OF LATEST USEPA QUALITY ASSURANCE PERFORMANCE SAMPLING PROGRAM DATE : _____ SATISFACTORY ___ MARGINAL ___ UNSATISFACTORY				

COMMENTS/STATUS:

Section J: Effluent/Receiving Water Observations

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOAT SOLIDS	COLOR	OTHER
001	--	--	--	--	--	Clear	--

COMMENTS/STATUS:

Section K: Multimedia Observations

	Yes	No	N/A	N/E
(a) ARE THERE INDICATIONS OF SLOPPY HOUSEKEEPING OR POOR MAINTENANCE IN WORK AND STORAGE AREAS OR LABORATORIES	___	<u>X</u>	___	___
(b) DO YOU NOTICE STAINING OR DISCOLORATION OF SOILS, PAVEMENT, OR FLOORS	___	<u>X</u>	___	___
(c) DO YOU NOTICE DISTRESSED (UNHEALTHY, DISCOLORED, DEAD) VEGETATION	___	<u>X</u>	___	___
(d) DO YOU SEE UNIDENTIFIED DARK SMOKE OR DUSTCLOUDS COMING FROM SOURCES OTHER THAN SMOKESTACKS	___	<u>X</u>	___	___
(e) DO YOU NOTICE ANY UNUSUAL ODORS OR STRONG CHEMICAL SMELLS	___	<u>X</u>	___	___
(f) DO YOU SEE ANY OPEN OR UNMARKED DRUMS, UNSECURED LIQUIDS, OR DAMAGED CONTAINMENT FACILITIES?	___	<u>X</u>	___	___

IF ANY OF THE ABOVE ARE OBSERVED, ASK THE FOLLOWING QUESTIONS:

- (1) WHAT IS THE CAUSE OF THE CONDITION?
- (2) IS THE OBSERVED CONDITION OR SOURCE A WASTE PRODUCT?
- (3) WHERE IS THE SUSPECTED CONTAMINANT NORMALLY DISPOSED?
- (4) IS THIS DISPOSAL PERMITTED?
- (5) HOW LONG HAS THE CONDITION EXISTED AND WHEN DID IT BEGIN?

COMMENTS/STATUS:

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

Form Approved

OMB No.

158-R6035

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings	S	
	Potable Water Supply Protection	S	
	Safety Features	S	Fenced
	Bypasses	-	
	Stormwater Overflows	-	
	Alternate Power Source	OUT	Standby generator
Preliminary	Maintenance of Collection Systems	S	Recommend I/I study to reduce excessive flow in rain events
	Pump Station	IN	
	Ventilation	-	
	Bar Screen	-	
	Disposal of Screenings	-	
	Comminutor	IN	At pump station before WWTP
	Grit Chamber	-	
	Disposal of Grit	-	
Primary	Settling Tanks	-	
	Scum Removal	-	
	Sludge Removal	-	
	Effluent	-	
Sludge Disposal	Digesters	IN	Aerobic - 2 tanks
	Temperature and pH	-	
	Gas Production	-	
	Heating Equipment	-	
	Sludge Pumps	IN	3 airlift pumps - RAS/WAS
	Drying Beds	-	
	Vacuum Filter	-	
	Disposal of Sludge	S	Land apply
Sludge Blower	IN	3 units : 1 in use	
Other	Flow Meter and Recorder	IN	Ultrasonic & weir
	Records	S	
	Lab Controls	-	
	Chemical Treatment	-	
Secondary-Tertiary y List items as	Oxidation Ditch	IN	1 "new" & 2 "old"; 1 new in use w/ brown color
	Final Settling	IN	1 "new" & 2 "old"; 1 new in use
Disinfection	Effluent	S	Clear
	Disinfection System	OUT	UV system
	Effective Dosage	-	
	Contact Time	-	
	Contact Tank	IN	
	Post Air	OUT	