



State of Ohio Environmental Protection Agency

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\*1PB0002620110421\*

MIAMI

PLEASANT HILL STP

MILLER, JOSEPH

2011/04/21

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

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

April 21, 2011

Village of Pleasant Hill  
Attn: Mayor and Council  
8 West High Street  
Pleasant Hill, OH 45359

**RE: NOTICE OF VIOLATION/Compliance Evaluation Inspection  
Village of Pleasant Hill Wastewater Treatment Plant  
NPDES Permit 1PB00026\*KD/OH0029475  
Pleasant Hill, Miami County**

Mayor and Council,

On April 13, 2011, I conducted a Compliance Evaluation Inspection (CEI) at the Village of Pleasant Hill wastewater treatment works. The wastewater improvements approved under Permit to Install (PTI) No. 711642 were being constructed at the time of inspection. These improvements are expected to bring the wastewater treatment plant into compliance with effluent limitations.

A review of the self monitoring reports for the facility revealed instances of non-compliance for the period of April 2009 to February 2011. A listing of the violations (ammonia-nitrogen and fecal coliform limitations) is attached.

A response is not required at this time. Should you have any questions, I can be reached at (937) 285-6109 or [joe.miller@epa.ohio.gov](mailto:joe.miller@epa.ohio.gov).

Sincerely,

Joe Miller  
Division of Surface Water

cc: Miami County Health Department

Enclosures



**Village of Pleasant Hill  
Wastewater Treatment Plant  
Compliance Evaluation Inspection  
April 13, 2011**

**OVERVIEW**

Permit to Install #711642, approved on June 9, 2009, includes wastewater improvements to the Pleasant Hill wastewater treatment works to correct deficiencies and to improve plant performance. The improvements include new influent screening, a new final clarifier, improvements to the existing clarifier, a new sludge (RAS/WAS) pumping station, new ultraviolet disinfection, and post aeration.

At the time of inspection, the concrete for the new clarifier and ultraviolet disinfection were completed. The building foundation that will house the RAS/WAS, influent screening, and new laboratory was being completed. The expected substantial completion date is October 2011.

**Laboratory**

A full review of laboratory methods will be conducted with the next inspection. To prepare for this evaluation, Jeff Derksen was provided a copy of the General Lab Criteria evaluation form.

**Effluent Violations**

Fecal coliform and nitrogen-ammonia violations were reported during the period of April 2009 to February 2011.

***Village of Pleasant Hill WWTP Effluent Limitation Violations (4/09-2/11)***

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
October 2009	Fecal Coliform	7D Conc	2000	2600.	10/8/2009
July 2010	Nitrogen, Ammonia (NH3)	30D Conc	5.0	13.4633	7/1/2010
July 2010	Nitrogen, Ammonia (NH3)	30D Qty	3.79	6.01488	7/1/2010
July 2010	Fecal Coliform	30D Conc	1000	1120.90	7/1/2010
July 2010	Fecal Coliform	7D Conc	2000	3000.	7/8/2010
July 2010	Nitrogen, Ammonia (NH3)	7D Conc	7.5	16.4	7/15/2010
July 2010	Nitrogen, Ammonia (NH3)	7D Qty	5.68	7.38681	7/15/2010
July 2010	Nitrogen, Ammonia (NH3)	7D Conc	7.5	19.5	7/22/2010
July 2010	Nitrogen, Ammonia (NH3)	7D Qty	5.68	8.63548	7/22/2010
July 2010	Fecal Coliform	7D Conc	2000	19100.	7/22/2010
August 2010	Fecal Coliform	7D Conc	2000	2900.	8/1/2010
August 2010	Fecal Coliform	7D Conc	2000	22300.	8/15/2010

Self-notification of effluent violations is required. All future incidents of non-compliance need to be provided as per Part III, Item 12 of your NPDES permit.

### **Walnut Street/Lauver Road Sewer Extension**

A sewer project is being completed to connect 8 homes to the Village sewer collection system along Walnut Street/Lauver Road. These homes were identified by the Miami County Health Department as having failing and/or substandard septic systems. The project includes a duplex grinder pump lift station and force main.

### **Infiltration/Inflow**

The reported peak flows in 2010 were lower than those seen in previous years. Continued diligence in removal of clean water into the collection system is advisable.

Permit #: 1PB00026\*KD 0026  
 NPDES #: OH0029475OH0029475

State of Ohio Environmental Protection Agency  
 Southwest District Office

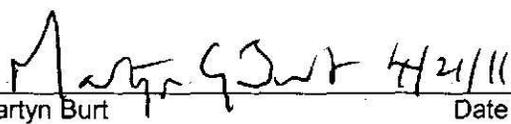
NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PB00026	OH0029475	4/13/2011	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Pleasant Hill Wastewater Treatment Plant 317 West Monument Street Pleasant Hill, OH 45359	1:30 PM	12/1/2009
	Exit Time	Permit Expiration Date
	3:30 PM	1/31/2013
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Jeff Derksen, WWTP Superintendent	937-974-8337 (cell)	
Name, Address and Title of Responsible Official	Phone Number	
Mayor and Council Village of Pleasant Hill 8 High Street, P.O. Box 557 Pleasant Hill, OH 45359	937-676-3241	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	S	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	N	Compliance Schedule
N	Operations & Maintenance	M	Effluent/Receiving Waters	S	Self-Monitoring Program
N	Facility Site Review	S	Sludge Storage/Disposal	N	Other
S	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)
See attached

Inspector	Reviewer
 Joe Miller Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
4/21/11 Date	4/21/11 Date

Sections E thru K: Complete on all inspections as appropriate  
Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated

**Section E: Permit Verification**

Inspection observations verify the permit

- (a) Correct name and mailing address of permittee ..... Y
- (b) Flóws and loadings conform with NPDES permit..... Y
- (c) Treatment processes are as described in permit application... N
- (d) All discharges are permitted..... Y
- (e) Number and location of discharge points are as described  
in permit..... Y
- (f) Storm water discharges properly permitted..... N/A

Comments/Status:

Wastewater Treatment Plant improvements under construction at the time of inspection.

**Section F: Compliance**

- (a) Any significant violations since the last inspection..... Y
- (b) Appropriate Non-compliance notification of violations..... Y
- (c) Permittee is taking actions to resolve violations..... Y
- (d) Permittee has a compliance schedule..... N
- (e) Compliance schedule contained in...N/A
- (f) Permittee is in compliance with schedule..... N/A
- (g) Has biomonitoring shown toxicity in discharge since last inspection N/A

Comments/Status:

Fecal coliform and Ammonia- Nitrogen effluent concentration and loading violations reported during the period of review ( April 2009 to February 2011). Current wastewater improvements are expected to correct the issues that led to the effluent violations.

Bacteria indicator will be changed from fecal coliform to E. coli with next permit version. The expected E.coli limitations are 284 CFU/100 ml (weekly) and 126 CFU/100 ml (monthly).

**Section G: Operation & Maintenance**

**Treatment Works:**

Treatment facility properly operated and maintained

- (a) Standby power available.....generator  or dual feed ..... Y
  - i. What does the back-up power source operate.....  
Just installed, will power entire facility.
  - ii. How often is the generator tested under load.....  
To be determined
- (b) Which components have an alarm system available for power or equipment failures.....  
Alarms to be installed on all treatment units.
- (c) All treatment units in service other than backup units..... N
- (d) What method is used for scheduling routine & preventative maintenance (calendar, software, etc.).....  
Logbook w/ scheduled maintenance - evaluating software options
- (e) Any major equipment breakdown since last inspection..... N
- (f) Operation and maintenance manual provided and maintained..... N
- (g) Any plant bypasses since last inspection..... N
- (h) Any plant upsets since last inspection..... N

**Comments/Status:**

O & M manual to be provided and updated for wastewater plant and improvements.  
Treatment units under construction at time of inspection.  
Doll Layman contractor of WWTP improvements.  
New screens will have float sensor and timer with narrower bar screens used as backup.

**Section G: Operation & Maintenance con't**

**Record Keeping/Operator of Record:**

- (a) Wastewater Treatment Works classification (OAC 3745-7)..... I
- (b) Operator of Record holds unexpired license of class required by Permit..... Y
- (c) Copy of certificate of Operator of Record displayed on-site..... Y
- (d) Has the Operator of Record submitted an ORC Notification form.. Y
- (e) Minimum operator staffing requirements fulfilled (OAC 3745-7).... Y
- (f) If a Staffing Reduction plan has been approved, are the stipulations of the plan being met..... N/A
- (g) Operator of Record log book provided..... Y
- (h) Format of log book (e.g. computer log, hard bound book)
 

hard bound book
- (i) Log book kept onsite (in an area protected from weather)..... Y
- (j) Log book contains the following:
  - I. Identification of treatment works..... Y
  - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... Y
  - iii. Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.)..... Y
  - iv. Laboratory results (unless documented on bench sheets)... N
  - v. Identification of person making entries..... Y
- (k) Has the Operator of Record submitted written notifications to the permittee, Ohio EPA and, if applicable, any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred..... Y

**Comments/Status:**

Jeff Derksen, WWTP Superintendent has Class I wastewater certification  
 Tim Byrd, Operator in Training

**Section G: Operation & Maintenance con't**

**Collection System:**

- (a) Are there pump stations in the collection system..... Y
  - i. How many publicly-owned pump stations equipped with permanent standby power or equivalent.....2
  - ii. How many pump stations have telemetered alarms.....1
  - iii. How many pump stations have operable alarms.....2
  
- (b) Any chronic collection system overflows since last inspection..... N
- (c) Regulatory agency notified of all overflows..... N/A
- (d) Are there CSOs in the collection system..... N  
if so, what is the LTCP status.....
- (e) How are CSOs monitored (chalk, block, level sensor, etc.).....
- (f) Portable pumps available for collection system maintenance..... Y
- (g) RDII Program established and active..... Y
- (h) Any WIB complaint received since last inspection..... Y
- (i) Is there a WIB response plan..... Y
- (j) Is any portion of the collection system at or near dry weather capacity..... N

**Comments/Status:**

Walnut Street sewer project nearing completion will connect 8 building to the Pleasant Hill collection system and add lift station.  
Lift station for the Ash Knoll subdivision on the east side of town currently serves about 40 homes, could be up to 60 in subdivision.

I/I reduction programs include the replacement of all lines and manholes when doing any street project. Project to notify residents to remove catch basins and downspouts from sanitary sewer.

**Section H: Sludge Management**

- (a) Method of Sludge Disposal...  Land Application  
 Haul to Another NPDES Permittee  
 Haul to a Mixed Solid Waste Landfill

\*if one of the selected methods is land application, complete applicable charts.  
**Class A - Exception Quality Sewage Sludge (monitoring station 584)**

Pathogen Reduction Alternative	84370 Vector Attraction Reduction Options							
	Option 1 -38% Volatile Solids Reduction	Option 2 -Anaerobic Bench Scale Analysis	Option 3 - Aerobic Bench Scale Analysis	Option 4 - Specific Oxygen Uptake Rate	Option 5 - Aerobic Time and Temperature	Option 6 - Alkall Addition	Option 7 - >75% Percent Solids without Unstabilized Solids	Option 8 - >75% Percent Solids with Unstabilized Solids
Alternative 1 - Time and Temperature Regime (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - High pH and High Temperature (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 3 - Other Processes (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 4 - Unknown Processes (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Composting (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Heat Drying (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Heat Treatment (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Thermophilic Aerobic Digestion (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Beta Ray Irradiation (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Gamma ray Irradiation (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Pasteurization (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 6 - Approved Equivalent Process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Class B Sewage Sludge (monitoring station 581)**

Pathogen Reduction Alternative	84370 Vector Attraction Reduction Options									
	Option 1 -38% Volatile Solids Reduction	Option 2 -Anaerobic Bench Scale Analysis	Option 3 - Aerobic Bench Scale Analysis	Option 4 - Specific Oxygen Uptake Rate	Option 5 - Aerobic Time and Temperature	Option 6 - Alkali Addition	Option 7 - >75% Percent Solids without Unstabilized	Option 8 - >75% Percent Solids with Unstabilized	Option 9 - Land Injection	Option 10 - Immediate Incorporation
Alternative 1 - Geometric Mean of Seven Fecal Samples (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Aerobic Digestion (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Air Drying (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Anaerobic Digestion (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Composting (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Lime Treatment (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 3 - Approved Equivalent Process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- (b) Has amount of sludge generated changed significantly since the last inspection..... Y
- (c) How much sludge storage is provided at the plant.....
- (d) Records kept in accordance with State and Federal law (5 years according to OAC 3745-40-06)..... Y
- (e) Any complaints received in last year regarding sludge..... N
- (f) 5/8" screen at headworks for facilities that land apply sludge..... N/A
- (g) Are sludge application sites inspected to verify compliance with NPDES permit..... N/A
- (h) Is a contractor used for sludge disposal..... Y  
 If so, what is the name of the contractor.....

**Comments/Status:**

No longer land applying sludge. Would prefer to report sludge hauled in 588 table in gallons.

**Section I: Self-Monitoring Program**

**Flow Measurement:**

- (a) Primary/Secondary flow measuring devices (e.g. weir with ultrasonic level sensor):
- (b) Flow meter calibrated annually ..... Y  
 (Date of last calibration: to be)
- (c) 24-hour recording instruments operated and maintained..... Y
- (d) Flow measurement equipment adequate to handle full range of flows..... Y
- (e) All discharged flow is measured..... Y

**Comments/Status:**

New flow metering to be installed as part of wastewater treatment plant improvements.

**Section I: Self-Monitoring Program (con't)**

**Sampling:**

- (a) Sampling location(s) are as specified by permit..... Y
- (b) Parameters and sampling frequency agree with permit..... Y
- (c) Permittee uses required sampling method..... N/E  
 (see GLC page)
- (d) Monitoring records (i.e., flow, pH, DO) maintained for a minimum of three years including all original strip chart recordings (i.e, continuous monitoring instrumentation, calibration and maintenance records)..... Y

**Comments/Status:**

Review using General Lab Criteria not conducted, provided copy of GLC to prepare for future inspection.

**Section I: Self-Monitoring Program (con't)**

**Laboratory:**

*General*

- (a) Does the Quality Assurance Manual contain written Standard Operating Procedures (SOP's) for all analysis performed onsite..... N/E
- (b) Do SOP's include the following if applicable..... N/E
  - Title
  - Scope and Application
  - Summary
  - Sample Handling and Preservation
  - Interferences
  - Apparatus and Materials
  - Reagents
  - Procedure
  - Calculations
  - Quality Control
  - Maintenance
  - Corrective Action
  - Reference (Parent Method)

*Note: Standard Methods 1020A establishes that "Quality assurance (QA) is the definitive program for laboratory operation that specifies the measure required to produce defensible data of known precision and accuracy. Standard operating procedures are to be used in the laboratory in sufficient detail that a competent analyst unfamiliar with the method can conduct a reliable review and/or obtain acceptable results." SOPs should be developed for each analytical procedure.*

- (c) EPA approved analytical testing procedures used (40 CFR 136.3).. Y
- (d) If alternate analytical procedures are used, proper approval has been obtained..... N/A
- (e) Analyses being performed more frequently than required by permit. N
- (f) If (e) is yes, are results in permittee's self-monitoring report..... N/A
- (g) Satisfactory calibration and maintenance of instruments/equipment. N/E (see score from GLC page)
- (h) Commercial laboratory used..... Y  
Parameters analyzed by commercial lab: Metals, Fecal, TP, O&G, NH3

Lab name: Belmonte Laboratories

*Discharge Monitoring Report Quality Assurance (DMRQA)*

- (a) Participation in latest USEPA quality assurance performance sampling..... N/A  
Date:
- (b) Were any parameters "Unsatisfactory"..... N/A
- (c) Reasons for "Unsatisfactory" parameters.....

**Comments/Status:**

**Section J: Effluent/Receiving Water Observations**

Outfall # 001

Outfall Description: Discharge to Stillwater River downstream of 718 bridge

Receiving Stream: Stillwater River

Receiving Stream Description: EWH, State Scenic River

**Comments/Status:**

**Section K: Multimedia Observations**

- (a) Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories..... N
- (b) Do you notice staining or discoloration of soils, pavement or floors.. N
- (c) Do you notice distressed (unhealthy, discolored, dead) vegetation.. N
- (d) Do you see unidentified dark smoke or dust clouds coming from sources other than smokestacks..... N
- (e) Do you notice any unusual odors or strong chemical smells..... N
- (f) Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities..... N

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:**

Pleasant Hill WWTP Flow (MGD) April 2009 to February 2011

