

Application No. OH0101575

Issue Date: March 18, 2008

Effective Date: May 1, 2008

Expiration Date: April 30, 2013

Ohio Environmental Protection Agency
Authorization to Discharge Under the
National Pollutant Discharge Elimination System

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereinafter referred to as the "Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Section 6111),

St Marys Alzheimers Center

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the St Marys Alzheimers Center wastewater treatment works located at 1899 W Garfield Rd, Beaver Township, Ohio, Mahoning County and discharging to Mill Creek via an unnamed tributary in accordance with the conditions specified in Parts I, II, and III of this permit.

This permit is conditioned upon payment of applicable fees as required by Section 3745.11 of the Ohio Revised Code.

This permit and the authorization to discharge shall expire at midnight on the expiration date shown above. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

Laura H. Powell
Assistant Director

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Part I, A. - INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until 12 months after the effective date of this permit, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from the following outfall: 3PS00011001. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 001 - Interim

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Week	Grab	All
00083 - Color, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
00300 - Dissolved Oxygen - mg/l	-	4.0	-	-	-	-	-	1/Week	Grab	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	45	30	-	3.40	2.27	1/Month	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	1.5	1.0	-	0.11	0.08	1/Month	Grab	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	4.5	3.0	-	0.30	0.20	1/Month	Grab	Winter
01330 - Odor, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
01350 - Turbidity, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
31616 - Fecal Coliform - #/100 ml	-	-	2000	1000	-	-	-	1/Month	Grab	Summer
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Estimate	All
50060 - Chlorine, Total Residual - mg/l	0.5	-	-	-	-	-	-	1 / 2 Weeks	Grab	Summer
80082 - CBOD 5 day - mg/l	-	-	30	20	-	2.27	1.51	1/Month	Grab	All

Notes for station 3PS00011001:

- a. Effluent loadings based on average design flow of 0.02 MGD.
- b. Total residual chlorine - See Part II, Item I.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning 12 months after the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from the following outfall: 3PS00011001. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 001 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Week	Grab	All
00083 - Color, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
00300 - Dissolved Oxygen - mg/l	-	6.0	-	-	-	-	-	1/Week	Grab	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	18	12	-	1.36	0.91	1/Month	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	1.5	1.0	-	0.11	0.08	1/Month	Grab	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	4.5	3.0	-	0.30	0.20	1/Month	Grab	Winter
01330 - Odor, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
01350 - Turbidity, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
31616 - Fecal Coliform - #/100 ml	-	-	2000	1000	-	-	-	1 / 2 Weeks	Grab	Summer
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Estimate	All
50060 - Chlorine, Total Residual - mg/l	0.019	-	-	-	-	-	-	1 / 2 Weeks	Grab	Summer
80082 - CBOD 5 day - mg/l	-	-	15	10	-	1.14	0.76	1/Month	Grab	All

Notes for station 3PS00011001:

a Effluent loadings based on average design flow of 0.02 MGD.

Total residual chlorine - See Part II, Item I.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

1. Sludge Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final sludge at Station Number 3PS00011588, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sludge sampling.

Table - Sludge Monitoring - 588 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
80991 - Sludge Volume, Gallons - Gals	-	-	-	-	-	-	-	1/Year	Total	December

NOTES for Station Number 3PS00011588:

a. Monitoring is required when sewage sludge is removed from the permittee's facility for transfer to another NPDES permit holder. The total sludge volume transferred to another NPDES permit holder for the entire year shall be reported on the December Discharge Monitoring Report (DMR). If no sewage sludge is removed from the Permittee's facility for transfer to another NPDES permit holder during the year, report "AL" in the first column of the first day of the December DMR. A signature is still required.

See Part II, Items K and L.

Part I, C - Schedule of Compliance

The entity shall, within 12 Months of the effective date of this permit, either eliminate the discharge of wastewater by connecting to the Columbiana sanitary sewer system or have completed construction and place into operation a new wastewater treatment system capable of consistently meeting the limits established in the final table in Part 1.A of this permit. In the event the permittee chooses to install a new treatment system, the permittee shall comply with the following construction schedule.

Construction Schedule

In the event the permittee does not connect to the Columbiana sanitary sewer system, the permittee shall attain compliance with the final effluent limitations of the permit as expeditiously as practicable, but not later than the dates developed in accordance with the following schedule:

- a. Submit detail plans for plant improvements as soon as possible, but not later than 6 Months from the effective date of this permit. (Event Code 01299)
- c. Commence construction as soon as possible, but not later than 9 Months from the effective date of this permit. (Event Code 03099)
- d. Notify the appropriate Ohio EPA District Office within seven days of construction initiation
- e. Complete construction as soon as possible, but not later than 12 Months from the effective date of this permit. (Event Code 04599)
- f. Notify the appropriate Ohio EPA District Office within seven days of construction completion.
- g. Attain operational level of the treatment works and meet final effluent limitations as soon as possible, but not later than 12 Months from effective date of this permit. (Event Code 05599)
- h. Notify the appropriate Ohio EPA District Office within seven days of attaining operational level.
- j. Submit written status reports to the appropriate Ohio EPA District Office every month beginning 1 month after the effective date of this permit

Part II, Other Requirements

A. Classification of Wastewater Treatment Works

1. On the effective date of this permit, the classification for the treatment works regulated under NPDES permit 3PS00011*BD is Class 1.

2. Minimum Staffing Requirements

a. The permittee shall ensure that the operator of record is physically present at the treatment works in accordance with the minimum staffing requirements included in paragraph (C)(1) of rule 3745-7-04 of the Ohio Administrative Code.

3. All sewerage systems that are tributaries to this treatment works are Class I sewerage systems in accordance with paragraph (B)(1)(a) of rule 3745-7-04 of the Ohio Administrative Code.

B. Operator of Record

The permittee shall designate one or more operator of record to oversee the technical operation of the sewerage system and/or treatment works in accordance with paragraph (A)(2) of rule 3745-7-02 of the Ohio Administrative Code.

1. Within three days of a change in an operator of record, the permittee shall notify the Director of Ohio EPA of any such change on a form acceptable to Ohio EPA. The appropriate form can be found at the following website:

http://www.epa.state.oh.us/ddagw/Documents/opcert/Operator_of_Record_Notification_F

2. Records as required by Ohio Administrative Code 3745-7-09 shall be accessible onsite for twenty-four hour inspection, records shall be kept up to date, contain a minimum of the previous three months of data at all times, and be maintained for at least three years.

3. Each operator of record shall have a valid certification of a class equal to or greater than the classification of the treatment works as defined in Part II, Item A.1 of this NPDES permit.

C. Monitoring Report Name Change

The name of the monitoring reports required for each effluent table contained in this permit has been changed from "Monthly Operating Report" (MOR) to "Discharge Monitoring Report" (DMR). The circumstances requiring the submittal of a DMR remain the same as those which were required for an MOR. Form 4500 must be used for DMR submittal.

D. Description of the location of the required sampling stations are as follows:

Sampling Station	Description of Location
3PS00011001	Final effluent as it discharges into the drainage way (Lat: 41N 54' 45"; Long: 80W 41' 20")
3PS00011588	Sludge hauled to a permitted Publicly Owned Treatment Works for final processing and disposal.

E. All parameters, except flow, need not be monitored on days when the plant is not normally staffed (Saturdays, Sundays, and Holidays). On those days, report "AN" on the monthly report form.

F. The permittee shall maintain in good working order and operate as efficiently as possible the "treatment works" and "sewerage system" as defined in ORC 6111.01 to achieve compliance with the terms and conditions of this permit and to prevent discharges to the waters of the state, surface of the ground, basements, homes, buildings, etc.

G. If Severity Units are required for Turbidity, Odor, or Color, use the following table to determine the value between 0 and 4 that is reported.

REPORTED VALUE*	SEVERITY DESCRIPTION	TURBIDITY	ODOR	COLOR
0	None	Clear	None	Colorless
1	Mild			
2	Moderate	Light Solids	Musty	Grey
3	Serious			
4	Extreme	Heavy Solids	Septic	Black

* Interpolate between the descriptive phrases.

H. Grab samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's performance.

I. The parameters below have had effluent limitations established that are below the Ohio EPA Quantification Level (OEPA QL) for the approved analytical procedure promulgated at 40 CFR 136. OEPA QLs may be expressed as Practical Quantification Levels (PQL) or Minimum Levels (ML).

Compliance with an effluent limit that is below the OEPA QL is determined in accordance with ORC Section 6111.13 and OAC Rule 3745-33-07(C). For maximum effluent limits, any value reported below the OEPA QL shall be considered in compliance with the effluent limit. For average effluent limits, compliance shall be determined by taking the arithmetic mean of values reported for a specified averaging period, using zero (0) for any value reported at a concentration less than the OEPA QL, and comparing that mean to the appropriate average effluent limit. An arithmetic mean that is less than or equal to the average effluent limit shall be considered in compliance with that limit.

The permittee must utilize the lowest available detection method currently approved under 40 CFR Part 136 for monitoring these parameters.

REPORTING:

All analytical results, even those below the OEPA QL (listed below), shall be reported. Analytical results are to be reported as follows:

1. Results above the QL: Report the analytical result for the parameter of concern.
2. Results above the MDL, but below the QL: Report the analytical result, even though it is below the QL.
3. Results below the MDL: Analytical results below the method detection limit shall be reported as "below detection" using the reporting code "AA".

The following table of quantification levels will be used to determine compliance with NPDES permit limits:

Parameter	PQL	ML
Chlorine, tot. res.	0.050 mg/l	--

J. This permit may be modified, or, alternatively, revoked and reissued, to include more stringent effluent limits or conditions if information generated as a result of the conditions of this permit indicate the presence of these pollutants in the discharge at levels above the water quality based effluent limit (WQBEL).

K. All disposal, use, storage, or treatment of sewage sludge by the Permittee shall comply with Chapter 6111. of the Ohio Revised Code, Chapter 3745-40 of the Ohio Administrative Code, any further requirements specified in this NPDES permit, and any other actions of the Director that pertain to the disposal, use, storage, or treatment of sewage sludge by the Permittee.

L. No later than January 31 of each calendar year the Permittee shall submit two (2) copies of a report summarizing the sewage sludge disposal, use, storage, or treatment activities of the Permittee during the previous calendar year. One copy of the report shall be sent to the Ohio EPA, Division of Surface Water, P.O. Box 1049, Columbus, Ohio 43216-1049, and one copy of the report shall be sent to the appropriate Ohio EPA District Office. The report shall be submitted on Ohio EPA Form 4229.

M. Not later than 4 months from the effective date of this permit, the permittee shall post a permanent marker on the stream bank at each outfall that is regulated under this NPDES permit and discharges to [INSERT RECEIVING WATER(S)]. This includes final outfalls, bypasses, and combined sewer overflows. The marker shall consist at a minimum of the name of the establishment to which the permit was issued, the Ohio EPA permit number, and the outfall number and a contact telephone number. The information shall be printed in letters not less than two inches in height. The marker shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above ground level. The sign shall be not be obstructed such that persons in boats or persons swimming on the river or someone fishing or walking along the shore cannot read the sign. Vegetation shall be periodically removed to keep the sign visible. If the outfall is normally submerged the sign shall indicate that. If the outfall is a combined sewer outfall, the sign shall indicate that untreated human sewage may be discharged from the outfall during wet weather and that harmful bacteria may be present in the water.