

Application No. OH0115011

Issue Date: December 29, 2006

Effective Date: February 1, 2007

Expiration Date: January 31, 2012

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),

Health Recovery Services, Inc.

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the wastewater treatment works located at 9908 Basset Road, Alexander Township, Ohio, Athens County and discharging to an unnamed tributary to Margaret Creek 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.

Joseph P. Koncelik
Director

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

1. During the period beginning on the effective date of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from the following outfall: OPX00010001. See Part II, OTHER REQUIREMENTS, for the locations of both the permitted outfall and the location to sample/monitor the effluent.

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			
00056 - Flow Rate - GPD	-	-	-	-	-	-	-	1/Day	Estimate	All
00083 - Color, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
00300 - Dissolved Oxygen - mg/l	-	5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	18	-	-	12	0.17	-	0.11	1/Month	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	3	-	-	2	0.03	-	0.02	1/Month	Grab	All
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
50060 - Chlorine, Total Residual - mg/l	0.019	-	-	-	-	-	-	1 / 2 Weeks	Grab	Summer
80082 - CBOD 5 day - mg/l	15	-	-	10	0.14	-	0.09	1/Month	Grab	All

Notes for station OPX00010001:

- Effluent loadings based on average design flow of 2500 gpd.
- Total residual chlorine - See Part II, Item I.
- Color, Odor, and Turbidity - See Part II, Item E.

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 of this permit, the permittee shall monitor the treatment works' final sludge at Station Number 0PX00010581, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for the location to monitor and sample the sludge.

Table - Sludge Monitoring - 581 - 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
00627 - Nitrogen Kjeldahl, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
01003 - Arsenic, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
01028 - Cadmium, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
01029 - Chromium, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
01043 - Copper, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
01052 - Lead, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
01068 - Nickel, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
01093 - Zinc, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
01148 - Selenium, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
31641 - Fecal Coliform in Sludge - MPN/G	-	-	-	-	-	-	-	1/Year	Total	September
51129 - Sludge Fee Weight - dry tons	-	-	-	-	-	-	-	1/Year	Total Estimate	September
70316 - Sludge Weight - Dry Tons	-	-	-	-	-	-	-	1/Year	Total Estimate	September
71921 - Mercury, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
78465 - Molybdenum In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	September
80991 - Sludge Volume, Gallons - Gals	-	-	-	-	-	-	-	1/Year	Total Estimate	September
99991 - Nitrogen, Ammonia In Sludge - mg/kg	-	-	-	-	-	-	-	1/Month	Composite	September

NOTES for Station Number 0PX00010581:

- Monitoring is required when sludge is removed from the wastewater treatment facility (which includes the trash trap or chlorine contact

tank if one is provided) and disposed of by land application at agronomic rates in compliance with Ohio EPA sludge land application rules. Report the total volume removed the previous 12 months on the first day of the month for the reporting month (September). If no sludge is removed during the preceding 12 months, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). DO NOT REPORT "0" or use any other codes other than "AL". A signature is still required.

A representative sample of the sludge removed for disposal must be analyzed for the parameters in the above monitoring table and the laboratory results reported in September. If no sludge is removed for disposal in September, a representative sludge sample removed in one of the previous 12 months must be analyzed. If no sludge is removed during the reporting period a representative sample must be collected from storage and analyzed and the testing results reported in September. Indicate the date of sample collection and the source of the sludge sample in the remarks section of the reporting form.

- All solid waste removed from the treatment plant including solids removed from the slow sand filters or any solids screened from the trash trap or any bar screen must be disposed at a sanitary landfill or at a larger sewage treatment plant that will accept the waste."
- Units of mg/kg are on a dry weight basis.
- Fee Weight and Weight is the same, unless lime is added for treatment.
- Sludge weight is a calculated total for the sampling period. Assume 1% solids and calculate the sludge weight as follows:

Total Weight (tons) = (# gallons) x 8.345 x (0.01/2000)

- See Part II, Items K, L, M, and N.

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 of this permit, the permittee shall monitor the treatment works' final sludge at Station Number OPX00010588, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for the location to monitor and sample the sludge.

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
70316 - Sludge Weight - Dry Tons	-	-	-	-	-	-	-	1/Year	Total	September
80991 - Sludge Volume, Gallons - Gals	-	-	-	-	-	-	-	1/Year	Total Estimate	September

NOTES for Station Number OPX00010581:

- Monitoring is required when sludge is removed from the wastewater treatment facility (which includes the trash trap or chlorine contact tank if one is provided) when sludge is removed from the wastewater treatment facility (which includes the trash trap or chlorine contact tank if one is provided) and disposed of at another treatment facility. All sludge must be disposed of at a sewage treatment facility with an approved sludge management plan. Report the total volume removed the previous 12 months on the first day of the month for the reporting month (September). In the comment section of the report indicate who hauled the sludge and where it was disposed of. If no sludge is removed during the preceding 12 months, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). DO NOT REPORT "0" or use any other codes other than "AL". A signature is still required.

- All solid waste removed from the treatment plant including solids removed from the slow sand filters or any solids screened from the trash trap or any bar screen must be disposed at a sanitary landfill or at a larger sewage treatment plant that will accept the waste."

- Units of mg/kg are on a dry weight basis.

- Fee Weight and Weight is the same, unless lime is added for treatment.

- Sludge weight is a calculated total for the sampling period. Assume 1% solids and calculate the sludge weight as follows:

$$\text{Total Weight (tons)} = (\# \text{ gallons}) \times 8.345 \times (0.01/2000)$$

- See Part II, Items K, L, M, and N.

Part II, Other Requirements

A. The wastewater treatment works must be under supervision of a Class I State certified operator as required by rule 3745-7- 02 of the Ohio Administrative Code.

B. Descriptions of the location of the permitted discharge outfalls and required effluent sampling/monitoring stations are as follows:

Permitted Outfall or Effluent Sampling/ Monitoring Station	Description of Permitted Outfall or Effluent Sampling/ Monitoring Location
OPX00010001 . .	Effluent discharge to unnamed tributary to Margaret Creek Sample to be collected at end of effluent discharge pipe. (Lat: 39N 16' 52"; Long: 82W 06' 31")
OPX00010581 .	Sludge removed from plant and land applied per an approved sludge management plan.
OPX00010588 .	Sludge removed from plant and hauled to another POTW with an approved sludge management plan.

C. All sludge shall be disposed of at a POTW that has approval from Ohio EPA to land apply sludge unless the permittee has obtained approval from Ohio EPA to land apply sludge.

D. 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.

E. 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. The sample shall be collected in a clear container for observation.

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.

F. Composite samples shall be comprised of at least three grab samples proportionate in volume to the sewage flow rate at the time of sampling and collected at intervals of at least 30 minutes, but not more than 2 hours, during the period that the plant is staffed on each day for sampling. Such samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's overall performance.

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

H. Effluent disinfection is not directly required, however, the entity is required to meet all applicable discharge permit limits. If disinfection facilities exist, they shall be maintained in an operable condition. Any design of wastewater treatment facilities should provide for the capability to install disinfection if required at a future time. Disinfection may be required if future bacteriological studies or emergency conditions indicate the need.

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	--

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).

- J. POTWs that accept hazardous wastes by truck, rail, or dedicated pipeline are considered to be hazardous waste treatment, storage, and disposal facilities (TSDFs) and are subject to regulation under the Resource Conservation and Recovery Act (RCRA). Under the "permit-by-rule" regulation found at 40 CFR 270.60(c), a POTW must
- 1) comply with all conditions of its NPDES permit,
 - 2) obtain a RCRA ID number and comply with certain manifest and reporting requirements under RCRA,
 - 3) satisfy corrective action requirements, and
 - 4) meet all federal, state, and local pretreatment requirements.

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. Sewage sludge composite samples shall consist of six to twelve grab samples collected at such times and locations, and in such fashion, as to be representative of the facilities sewage sludge.

M. 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.

N. Each day when sewage sludge is removed from the wastewater treatment plant for use or disposal a representative composite sample of sewage sludge shall be collected and monitored for total solids. Results of the monitoring shall be used to calculate the total Sewage Sludge Weight (Monthly Operating Report code 70316) and total Sewage Sludge Fee Weight (Monthly Operating Report code 51129) for the reporting period specified by this NPDES permit. The results of the daily monitoring, and the weight calculations, shall be maintained on site for a minimum of five years. The test methodology used shall be Part 2540 G of Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992. To convert from gallons of liquid sewage sludge to dry tons of sewage sludge: $\text{dry tons} = \text{gallons} \times 8.34 \text{ (lbs/gallon)} \times 0.0005 \text{ (tons/lb)} \times \text{decimal fraction total solids}$.